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Lab Number: L2202953

Client: Anchor QEA, LLC

ATTN: Delaney Peterson

Project Name: US MOORINGS

Project Number: 000029-02

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Table of Contents

Alpha Analytical Data Deliverable Package.....	1
Table of Contents	2
Sample Delivery Group	5
Sample Receipt and Login Checklist	6
LIMS Chain of Custody	7
Lims COC (LN01)	8
Container Tracking	11
Sample Receipt Tracking Report	12
Chain of Custody	15
External Chain of Custody	16
Organics Analysis	21
HRMS Dioxins Analysis	22
Initial Calibration	23
ICAL for on 02/05/22 ICAL18729	24
Initial Calibration Summary - Cal Date: 02/05/22 00:00	24
STD-.25 Injected on: 02/05/22 01:43	25
STD-.5 Injected on: 02/05/22 02:54	87
STD-2 Injected on: 02/05/22 04:05	149
STD-10 Injected on: 02/05/22 05:17	211
STD-40 Injected on: 02/05/22 06:28	273
STD-200 Injected on: 02/05/22 07:39	335
STD-400 Injected on: 02/05/22 08:51	397
STD-10 Injected on: 02/05/22 13:56	459
TETRA CHECK	521
Resolution Check	522
ICAL CoA	526
ICAL Low CoA	538
ICAL High Log	550
ICV CoA	552
ICAL for on 02/05/22 ICAL18730	558
Initial Calibration Summary - Cal Date: 02/05/22 00:00	558
STD-.25 Injected on: 02/05/22 02:18	559
STD-.5 Injected on: 02/05/22 03:29	621
STD-2 Injected on: 02/05/22 04:40	683
STD-10 Injected on: 02/05/22 05:52	745
STD-40 Injected on: 02/05/22 07:03	807
STD-200 Injected on: 02/05/22 08:15	869
STD-400 Injected on: 02/05/22 09:26	931
STD-10 Injected on: 02/05/22 12:56	993
TETRA Check	1055
Resolution Check	1056
ICAL CoA	1060
ICAL Low CoA	1072
ICAL High Log	1084
ICV CoA	1086
Work Group	1092
QC Batch WG1600060	1093
Sequence Logs	1094
ICAL Sequence for on 05-FEB-2022 00:00 ICAL18729	1095
ICAL Sequence for on 05-FEB-2022 00:00 ICAL18730	1104

Table of Contents

Instrument HRMS01A Run Date 02/07/22 Run ID R1530897	1113
Instrument HRMS01B Run Date 02/07/22 Run ID R1530918	1122
Analytical Event	1136
Continuing Calibration	1137
Resolution check	1138
Tetra check	1142
CC Quant - WG1602294-1 HRMS01A Run: 02/07/22 14:49	1143
Sample Raw Data	1218
USMPDI-014SC-A-14-15-201109 (L2202953-01) Analyzed: 02/08/22 01:27	1219
USMPDI-014SC-A-15-16-201109 (L2202953-02) Analyzed: 02/08/22 02:38	1268
USMPDI-017SC-A-16-17-210429 (L2202953-03) Analyzed: 02/08/22 03:49	1318
USMPDI-028SC-A-05-6.3-210504 (L2202953-04) Analyzed: 02/08/22 05:01	1365
USMPDI-040SC-A-09-10-201103 (L2202953-05) Analyzed: 02/08/22 06:12	1456
Analytical Event	1507
Continuing Calibration	1508
Resolution check	1509
Tetra check	1513
CC Quant - WG1602294-2 HRMS01A Run: 02/08/22 07:27	1514
CC Quant - WG1602294-3 HRMS01A Run: 02/09/22 09:41	1589
Sample Raw Data	1664
USMPDI-044SC-A-16-17-201104 (L2202953-07) Analyzed: 02/08/22 17:07	1665
USMPDI-056SC-A-05-06-201107 (L2202953-09) Analyzed: 02/08/22 18:19	1731
USMPDI-004SC-A-05-06-201111 (L2202953-11) Analyzed: 02/09/22 08:05	1829
Analytical Event	1930
Continuing Calibration	1931
Resolution check	1932
Tetra check	1936
CC Quant - WG1602307-1 HRMS01B Run: 02/07/22 17:18	1937
Analytical Event	2012
Continuing Calibration	2013
Resolution check	2014
Tetra check	2018
CC Quant - WG1602307-2 HRMS01B Run: 02/08/22 08:30	2019
CC Quant - WG1602307-3 HRMS01B Run: 02/09/22 10:17	2094
Sample Raw Data	2169
USMPDI-044SC-A-15-16-201104 (L2202953-06) Analyzed: 02/08/22 16:07	2170
USMPDI-047SC-A-05-06-201030 (L2202953-08) Analyzed: 02/08/22 17:42	2257
USMPDI-056SC-A-06-07-201107 (L2202953-10) Analyzed: 02/08/22 18:54	2316
USMPDI-004SC-A-06-07-201111 (L2202953-12) Analyzed: 02/09/22 09:05	2391
Batch Quality Control	2441
Method Blank Raw Data	2442
Laboratory Method BI (WG1600060-1) Analyzed: 02/07/22 20:06	2443
LCS Raw Data	2490
Laboratory Control S (WG1600060-2) Analyzed: 02/07/22 21:17	2491
Sample Preparation	2553
Organic ELN-Workgroup:WG1600060	2554
Wet Chemistry Analysis	2561
Total Solids Analysis	2562
Sample Raw Data	2563
Wet Chemistry Raw Data	2564

Table of Contents

Work Group	2565
QC Batch WG1571375	2566
Alpha Analytical Report	2567
Standard Analytical Report	2568
Summary	2568
Alpha Analytical Report Cover Page	2568
Sample Cross Reference Summary	2569
Case Narrative	2570
Organics Cover Page	2572
HRMS Cover Page	2573
HRMS Sample Results	2574
HRMS Method Blank Report	2598
HRMS LCS Report	2600
Inorganics Cover Page	2602
Wet Chemistry Sample Results	2603
Wet Chemistry Duplicate Report	2615
Sample Receipt & Container Information Report	2616
Glossary	2618
References	2621
Certification/Approval Program Summary	2622
Chain of Custody	2623
Alpha Summary Forms	2628
Organic Summary Forms	2629
Organic Summary Forms Dioxins & Furans by Isotope Dilution	2630
Form 1	2630
Form 2	2656
Form 3	2659
Form 4	2660
Form 6	2661
Form 7	2663

Sample Delivery Group Information



Sample Delivery Group Summary

Alpha Job Number : L2202953

Received : 05-NOV-2021

Reviewer : Elizabeth Porta

Account Name : Anchor QEA, LLC

Project Number : 000029-02

Project Name : US MOORINGS

Delivery Information

Samples Delivered By : Express Ship
UPS (1Z X47 20R 0192504915)

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Present/Intact/N/A	Ice	0.9	
B	Absent/	Ice	2.4	

Condition Information

- 1) All samples on COC received? **YES**
- 2) Extra samples received? **NO**
- 3) Are there any sample container discrepancies? **NO**
- 4) Are there any discrepancies between sample labels & COC? **NO**
- 5) Are samples in appropriate containers for requested analysis? **YES**
- 6) Are samples properly preserved for requested analysis? **YES**
- 7) Are samples within holding time for requested analysis? **YES**
- 8) All sampling equipment returned? **NA**

Volatile Organics/VPH

- 1) Reagent Water Vials Frozen by Client? **NA**

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 09 2022, 06:18 pm

Login Number: L2202953

Account: ANCHOR Anchor QEA, LLC Project: 000029-02

Received: 05NOV21 Due Date: 09FEB22

Sample # Client ID Mat PR Collected

L2202953-01 USMPDI-014SC-A-14-15-201109 3 S0 09NOV20 14:55

Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-01 Shipped 1/20/22: UPS 1Z19E18E0192389448 Archive jar is split mass - sending to Apex Lab for Pest (DDx) and Aroclors per Anchor DPKG-FULL Package Due Date: 02/09/22

A2-ARCHIVE, A2-DIOXIN-1613, A2-TS, DPKG-FULL, SHIPPING

L2202953-02 USMPDI-014SC-A-15-16-201109 3 S0 09NOV20 14:55

Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-02 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE, A2-DIOXIN-1613, A2-TS

L2202953-03 USMPDI-017SC-A-16-17-210429 3 S0 29APR20 09:45

Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-03 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE, A2-DIOXIN-1613, A2-TS

L2202953-04 USMPDI-028SC-A-05-6.3-210504 3 S0 04MAY20 08:50

Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-04 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE, A2-DIOXIN-1613, A2-TS

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 09 2022, 06:18 pm

Login Number: L2202953

Account: ANCHOR Anchor QEA, LLC Project: 000029-02

Received: 05NOV21 Due Date: 09FEB22

Sample #	Client ID	Mat PR Collected
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L2202953-05	USMPDI-040SC-A-09-10-201103	3 S0 03NOV20 16:30
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Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-05 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE,A2-DIOXIN-1613,A2-TS

L2202953-06	USMPDI-044SC-A-15-16-201104	3 S0 04NOV20 08:45
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Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-06 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE,A2-DIOXIN-1613,A2-TS

L2202953-07	USMPDI-044SC-A-16-17-201104	3 S0 04NOV20 08:45
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Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-07 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE,A2-DIOXIN-1613,A2-TS

L2202953-08	USMPDI-047SC-A-05-06-201030	3 S0 30OCT20 09:30
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Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-08 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22

A2-ARCHIVE,A2-DIOXIN-1613,A2-TS

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 09 2022, 06:18 pm

Login Number: L2202953
Account: ANCHOR Anchor QEA, LLC Project: 000029-02
Received: 05NOV21 Due Date: 09FEB22

Sample #	Client ID	Mat PR Collected
L2202953-09	USMPDI-056SC-A-05-06-201107	3 S0 07NOV20 13:30
Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-09 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22		
A2-ARCHIVE,A2-DIOXIN-1613,A2-TS		
L2202953-10	USMPDI-056SC-A-06-07-201107	3 S0 07NOV20 13:30
Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-10 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22		
A2-ARCHIVE,A2-DIOXIN-1613,A2-TS		
L2202953-11	USMPDI-004SC-A-05-06-201111	3 S0 11NOV20 08:35
Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-11 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22		
A2-ARCHIVE,A2-DIOXIN-1613,A2-TS		
L2202953-12	USMPDI-004SC-A-06-07-201111	3 S0 09NOV21 10:57
Report to the MDL; Full Narration needed Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery AlkPAH: Report List made; Samples have been maintained in frozen storage per client This is a relog of L2161038-12 Shipped 1/20/22: UPS 1Z19E18E0192389448 Package Due Date: 02/09/22		
A2-ARCHIVE,A2-DIOXIN-1613,A2-TS		

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L2202953-01A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-01A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-01A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-01A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-01X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-01X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-02A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-02A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-02A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-02A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-02X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-02X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-03A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-03A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-03A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-03A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-03X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-03X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-04A	SGlass-A.5	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-04A	SGlass-A.5	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-04A	SGlass-A.5	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-04A	SGlass-A.5	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-04X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-04X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-05A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L2202953-05A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-05A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-05A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-05X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-05X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-06A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-06A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-06A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-06A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-06X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-06X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-07A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-07A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-07A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-07A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-07X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-07X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-08A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-08A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-08A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-08A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-08X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-08X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-09A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-09A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L2202953-09A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-09A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-09X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-09X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-10A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-10A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-10A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-10A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-10X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-10X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-11A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-11A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-11A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-11A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-11X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-11X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-12A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-537-PREP	Caroline Parsloe	A2-CUSTODY-REFRIG-HRMS2	A2-CUSTODY-REFRIG-HRMS2	Caroline Parsloe
L2202953-12A	Glass-A.25	INTACT	01-FEB-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIG-HRMS1	Caroline Parsloe	A2-537-PREP	A2-537-PREP	Caroline Parsloe
L2202953-12A	Glass-A.25	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-REFRIG-HRMS1	A2-CUSTODY-REFRIG-HRMS1	Kim L. Bailey
L2202953-12A	Glass-A.25	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey
L2202953-12X	SGlass-A.06	INTACT	20-JAN-22	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey	TRANSFER - SUB	TRANSFER - SUB	Kim L. Bailey
L2202953-12X	SGlass-A.06	INTACT	19-JAN-22	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey

Chain of Custody

SUBCONTRACT ORDER

~~L2161038~~

Apex Laboratories

A1K0116

15

SENDING LABORATORY:

RECEIVING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

Analytical Resources, INC
4611 S. 134th Place
Tukwila, WA 98168
Phone: (206) 695-6200
Fax: (206) 695-6201

01 * Sample Name: A1K0116-01 / Sedimen Copy/relog of A0K0402-31

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

02 * Sample Name: A1K0116-02 / Sedimen Copy/relog of A0K0402-32

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

03 * Sample Name: A1K0116-03 / Sedimen Copy/relog of A1D1275-17

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/13/20 09:45	ARI Frozen 5/3/21 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

04 * Sample Name: A1K0116-04 / Sedimen Copy/relog of A1E0179-06

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/18/21 08:50	ARI Frozen 5/5/21 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

* Samples placed in frozen storage 11/4/2021 SLF

Released By: Hannah Surrup Date: 11/3/21 UPS (Shipper)

Received By: Jacob Walte Date: 11/04/2021 1102 UPS (Shipper)

Released By: Jacob Walte Date: 11/04/2021 1400

Received By: [Signature] Date: 11/5/21 1042

SUBCONTRACT ORDER

Apex Laboratories

A1K0116

~~L2161038~~

05

Copy/relog of A0K0164-25

Sample Name: A1K0116-05 Sedimen Sampled: 11/03/20 16:30 40SC-A-09-10-201103)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/17/20 16:30	ARI Frozen 11/5/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

06

Copy/relog of A0K0222-32

Sample Name: A1K0116-06 Sedimen Sampled: 11/04/20 08:45 44SC-A-15-16-201104)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/10/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

07

Copy/relog of A0K0222-33

Sample Name: A1K0116-07 Sedimen Sampled: 11/04/20 08:45 44SC-A-16-17-201104)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/10/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

08

Copy/relog of A0J1066-23

Sample Name: A1K0116-08 Sedimen Sampled: 10/30/20 09:30 47SC-A-05-06-201030)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/13/20 09:30	ARI Frozen 10/31/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

09

Copy/relog of A0K0320-39

Sample Name: A1K0116-09 Sedimen Sampled: 11/07/20 13:30 56SC-A-05-06-201107)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/11/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

10

Copy/relog of A0K0320-40

Sample Name: A1K0116-10 Sedimen Sampled: 11/07/20 13:30 56SC-A-06-07-201107)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/11/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

Annalee Struggs 11/3/21

UPS (Shipper)

Released By	Date	Received By	Date
UPS (Shipper)		<i>Jacob Walte</i>	11/04/2021 11:02

Released By	Date	Received By	Date
<i>Jacob Walte</i>	11/04/2021 1400	<i>[Signature]</i>	11/15/21 1042

SUBCONTRACT ORDER

8

~~L2161035~~

kb 01/19/22

Apex Laboratories

L2202953

A1K0354

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

-11
Sample Name: USMPDI-004SC-A-05-06-201111 SE Copy/relog of A0K0538-22 Sampled: 11/11/20 08:35 AKK Nam (A1K0354-01)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/25/20 08:35	

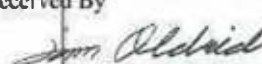
-12
Sample Name: USMPDI-004SC-A-06-07-201111 SE Copy/relog of A0K0538-23 Sampled: 11/09/21 10:57 (A1K0354-02)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/23/21 10:57	

Standard TAT

Samples frozen 11/13/20

thawed 11/8/21

Released By:  Date: 11/9/21
 Received By: UPS (Shipper) Date: 11/10/21 11:26
 Released By: UPS (Shipper) Date: _____
 Received By:  Date: _____

SUBCONTRACT ORDER

8

~~L2161035~~

Apex Laboratories

L2202953 kb 01/19/22

A1K0354

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

Sample Name: USMPDI-004SC-A-05-06-201111 SE Copy/relog of A0K0538-22 Sampled: 11/11/20 08:35 AKK Wiam (A1K0354-01)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/25/20 08:35	

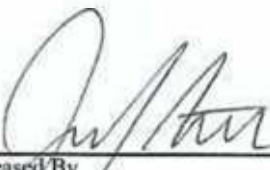

Sample Name: USMPDI-004SC-A-06-07-201111 SE Copy/relog of A0K0538-23 Sampled: 11/09/21 10:57 (A1K0354-02)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/23/21 10:57	

Standard TAT

Samples frozen 11/13/20

thawed 11/8/21

Released By:  Date: 11/9/21
 Received By: UPS (Shipper) Date: 11/10/21 11:26
 Released By: UPS (Shipper) Date: _____
 Received By:  Date: _____

PHILIP NERENBERG
5037182323
APEX LABORATORIES LLC
6700 SW SANDBURG ST.
TIGARD OR 97223

25 LBS

1 OF 1

DWT: 18.16,13

SHIP TO:
RECEIVING
5088229300
ALPHA ANALYTICAL, INC.
320 FORBES BOULEVARD
MANSFIELD MA 02048



MA 024 9-02



UPS NEXT DAY AIR

TRACKING #: 1Z X47 20R 01 9250 4915

1



BILLING: P/P

Reference No.1: Sub



XOL 21-11.05 NV45 40.0A 11/2021*

Organics

HRMS DIOXINS



Initial Calibration

Entry	Compound Name	RF Area [HRMS01_220204_18]	RF Area [HRMS01_220204_20]	RF Area [HRMS01_220204_22]	RF Area [HRMS01_220204_24]	RF Area [HRMS01_220204_26]	RF Area [HRMS01_220204_28]	RF Area [HRMS01_220204_16]	Average	Std. Deviation	RSD [%]	Correlation
1	2378-TCDF 13C12 STD	1.71	1.74	1.68	1.60	1.71	1.67	1.72	1.69	0.04	2.61	0.01
2	2378-TCDF	1.09	1.11	1.05	0.99	1.04	1.00	0.95	1.03	0.03	2.59	0.77
3	2378-TCDD 13C12 STD	1.14	1.22	1.16	1.17	1.17	1.18	1.27	1.19	0.04	3.00	0.31
4	1234-TCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
5	2378-TCDD 3704 STD	2.31	2.34	2.35	2.40	2.35	---	2.71	2.41	0.10	4.07	0.57
6	2378-TCDD	0.99	1.11	1.14	1.08	1.11	1.09	1.19	1.10	0.04	3.98	0.45
7	12378-PeCDF 13C12 STD	1.40	1.40	1.34	1.48	1.40	1.28	1.37	1.38	0.06	4.16	0.11
8	23478-PeCDF 13C12 STD	1.39	1.36	1.31	1.52	1.38	1.36	1.33	1.38	0.07	5.03	0.01
9	12378-PeCDF	0.99	1.03	1.01	0.98	1.01	1.01	1.00	1.01	0.02	1.60	0.01
10	23478-PeCDF	1.16	1.13	1.11	1.08	1.13	0.99	1.22	1.12	0.07	6.31	0.01
11	12378-PeCDD 13C12 STD	0.90	0.89	0.91	1.07	0.95	0.92	0.91	0.93	0.06	6.58	0.03
12	12378-PeCDD	1.12	1.01	0.99	0.95	0.95	0.95	1.01	1.00	0.05	4.77	0.38
13	123478-HxCDF 13C12 STD	1.18	1.18	1.17	1.15	1.16	1.09	1.11	1.15	0.02	1.59	0.76
14	123678-HxCDF 13C12 STD	1.29	1.30	1.26	1.37	1.25	1.24	1.19	1.27	0.05	3.68	0.34
15	234678-HxCDF 13C12 STD	1.29	1.22	1.24	1.25	1.22	1.22	1.16	1.23	0.02	1.83	0.66
16	123789-HxCDF 13C12 STD	1.20	1.17	1.18	1.16	1.22	1.23	1.09	1.18	0.05	4.02	0.07
17	123478-HxCDF	1.30	1.24	1.25	1.17	1.24	1.25	1.28	1.25	0.04	3.28	0.01
18	123678-HxCDF	1.20	1.16	1.21	1.18	1.16	1.11	1.28	1.19	0.05	4.41	0.03
19	234678-HxCDF	1.29	1.25	1.25	1.18	1.22	1.17	1.28	1.24	0.04	3.51	0.15
20	123789-HxCDF	1.18	1.18	1.16	1.16	1.12	1.14	1.26	1.17	0.04	3.70	0.05
21	123478-HxCDD 13C12 STD	0.89	0.90	0.86	0.91	0.92	0.83	0.86	0.88	0.03	3.07	0.14
22	123678-HxCDD 13C12 STD	0.89	0.90	0.86	0.91	0.92	0.83	0.86	0.88	0.03	3.07	0.14
23	123789-HxCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
24	123478-HxCDD	1.17	1.07	1.11	1.03	1.05	1.10	1.14	1.10	0.05	4.64	0.01
25	123678-HxCDD	1.17	1.07	1.11	1.03	1.05	1.10	1.14	1.10	0.05	4.64	0.01
26	123789-HxCDD	1.16	1.18	1.18	1.07	1.08	1.19	1.24	1.16	0.06	5.25	0.03
27	1234678-HpCDF 13C12 STD	1.14	1.13	1.16	1.19	1.16	1.04	1.08	1.13	0.04	3.77	0.29
28	1234789-HpCDF 13C12 STD	1.06	1.07	1.02	1.11	1.06	1.00	1.00	1.05	0.04	3.46	0.23
29	1234678-HpCDF	1.36	1.37	1.34	1.31	1.32	1.34	1.40	1.35	0.03	2.27	0.02
30	1234789-HpCDF	1.35	1.34	1.32	1.28	1.30	1.28	1.33	1.32	0.03	1.92	0.23
31	1234678-HpCDD 13C12 STD	0.89	0.89	0.88	0.94	0.90	0.86	0.90	0.90	0.02	2.60	0.00
32	1234678-HpCDD	1.17	1.12	1.10	1.09	1.10	1.06	1.12	1.11	0.03	2.60	0.33
33	OCDF	1.43	1.44	1.43	1.36	1.41	1.45	1.34	1.41	0.04	2.64	0.28
34	OCDD 13C12 STD	0.78	0.78	0.76	0.83	0.85	0.74	0.82	0.79	0.04	4.75	0.06
35	OCDD	1.10	1.08	1.05	1.03	1.03	1.03	1.08	1.06	0.02	2.20	0.31
36	Total native TCDF	1.09	1.11	1.05	0.99	1.04	1.00	0.95	1.03	0.03	2.59	0.77
37	Total native TCDD	0.99	1.11	1.14	1.08	1.11	1.09	1.19	1.10	0.04	3.98	0.45
38	Total native PeCDF	1.07	1.06	1.05	1.05	1.06	1.03	1.09	1.06	0.06	6.00	0.01
39	Total native PeCDD	1.12	1.01	0.99	0.95	0.95	0.95	1.01	1.00	0.05	4.77	0.38
40	Total native HxCDF	1.30	1.24	1.26	1.25	1.24	1.28	1.31	1.27	0.07	5.40	0.00
41	Total native HxCDD	1.16	1.11	1.14	1.05	1.06	1.12	1.17	1.11	0.06	5.05	0.00
42	Total native HpCDF	1.31	1.31	1.25	1.25	1.26	1.29	1.32	1.28	0.07	5.74	0.02
43	Total native HpCDD	1.17	1.12	1.10	1.09	1.10	1.06	1.12	1.11	0.03	2.60	0.33

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 01:43
Number of Entries	59
Comment	HRMS210204A
Vial	4
Sample Name	IA1613STD-.25
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_16_seq
Data	hrms01_220204_16
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

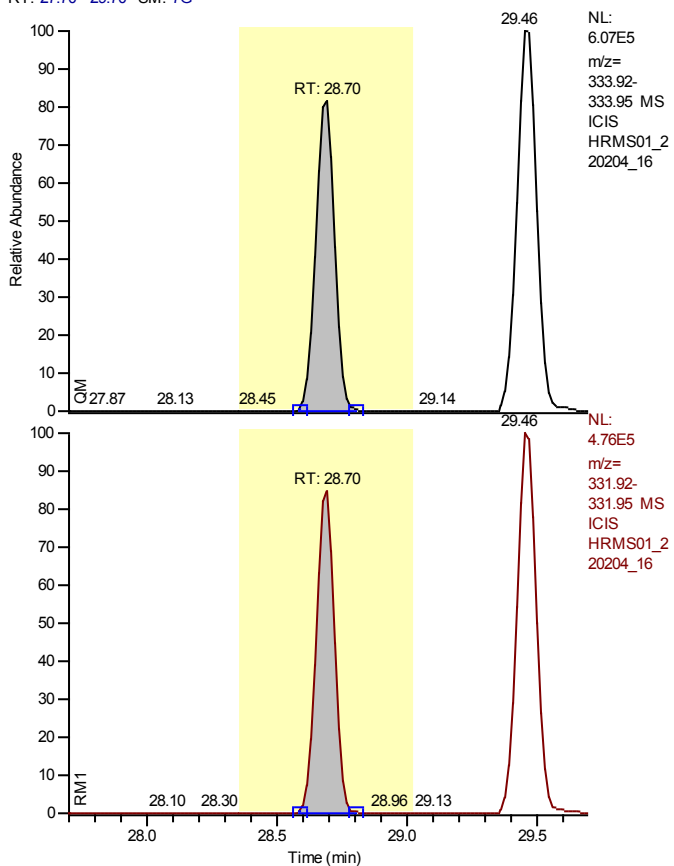
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2477407	1959143	0.7908	0.6500 - 0.9800	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		4208690	3433209	0.8157	0.6500 - 0.9800	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	9889	8253	0.8346	0.6500 - 0.9800	0.25	0.25	100	0.0250
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	9889	8253	0.8346	0.6500 - 0.9800	0.25	0.25	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	9889	8253	0.8346	0.6500 - 0.9800	0.25	0.25	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		3202489	2433767	0.7600	0.6500 - 0.9800	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	8474	8273	0.9762	0.6500 - 0.9800	0.25	0.25	100	0.2500
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	8474	8273	0.9762	0.6500 - 0.9800	0.25	0.25	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	8474	8273	0.9762	0.6500 - 0.9800	0.25	0.25	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2331661	3749717	1.6082	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	30433	45387	1.4914	1.3200 - 1.7800	1.25	1.25	100	0.0375
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	67527	98442	1.4578	1.3200 - 1.7800	1.25	2.50	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	37094	53054	1.4303	1.3200 - 1.7800	1.25	1.25	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	30433	45387	1.4914	1.3200 - 1.7800	1.25	1.25	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2285399	3616859	1.5826	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	37094	53054	1.4303	1.3200 - 1.7800	1.25	1.25	100	0.3750
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1572769	2482950	1.5787	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	21258	30066	1.4143	1.3200 - 1.7800	1.25	1.25	100	1.2500
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	21258	30066	1.4143	1.3200 - 1.7800	1.25	1.25	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	21258	30066	1.4143	1.3200 - 1.7800	1.25	1.25	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		15019	15019	1.0000	0.8500 - 1.1500	0.25	0.25	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2377950	3000402	1.2618	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		3866243	2101946	0.5437	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	41283	54053	1.3093	1.0500 - 1.4300	1.25	1.25	100	0.1250
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	173668	216041	1.2440	1.0500 - 1.4300	1.25	5.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	46812	55885	1.1938	1.0500 - 1.4300	1.25	1.25	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	41283	54053	1.3093	1.0500 - 1.4300	1.25	1.25	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	44370	55340	1.2473	1.0500 - 1.4300	1.25	1.25	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	41204	50763	1.2320	1.0500 - 1.4300	1.25	1.25	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		4188608	2205883	0.5266	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	46812	55885	1.1938	1.0500 - 1.4300	1.25	1.25	100	0.1250
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		4096655	2148287	0.5244	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	44370	55340	1.2473	1.0500 - 1.4300	1.25	1.25	100	0.1250
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		3781174	2066938	0.5466	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	41204	50763	1.2320	1.0500 - 1.4300	1.25	1.25	100	0.1250
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2085981	2563734	1.2290	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	30746	35718	1.1617	1.0500 - 1.4300	1.25	1.25	100	0.1250
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	90551	113371	1.2520	1.0500 - 1.4300	1.25	3.75	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	30746	35718	1.1617	1.0500 - 1.4300	1.25	1.25	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	27818	37685	1.3547	1.0500 - 1.4300	1.25	1.25	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	31986	39968	1.2496	1.0500 - 1.4300	1.25	1.25	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2085981	2563734	1.2290	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	30746	35718	1.1617	1.0500 - 1.4300	1.25	1.25	100	0.1250
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	31986	39968	1.2496	1.0500 - 1.4300	1.25	1.25	100	0.1250
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		3977367	1849614	0.4650	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	50267	51863	1.0318	0.8800 - 1.2000	1.25	1.25	100	0.0125
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	93952	98032	1.0434	0.8800 - 1.2000	1.25	2.50	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	50267	51863	1.0318	0.8800 - 1.2000	1.25	1.25	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	43686	46169	1.0568	0.8800 - 1.2000	1.25	1.25	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		3688635	1697085	0.4601	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	43686	46169	1.0568	0.8800 - 1.2000	1.25	1.25	100	0.0125
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2355206	2481415	1.0536	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	34376	33589	0.9771	0.8800 - 1.2000	1.25	1.25	100	0.0125
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	34376	33589	0.9771	0.8800 - 1.2000	1.25	1.25	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	34376	33589	0.9771	0.8800 - 1.2000	1.25	1.25	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4640238	4214924	0.9083	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	76247	71750	0.9410	0.7600 - 1.0200	2.50	2.50	100	0.0007
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	63596	55728	0.8763	0.7600 - 1.0200	2.50	2.50	100	0.0007
59	overall TEQ	overall TEQ test		642466	731577	1.1387	0.0000 - 0.0000	0.00	21.75	---	2.8515

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

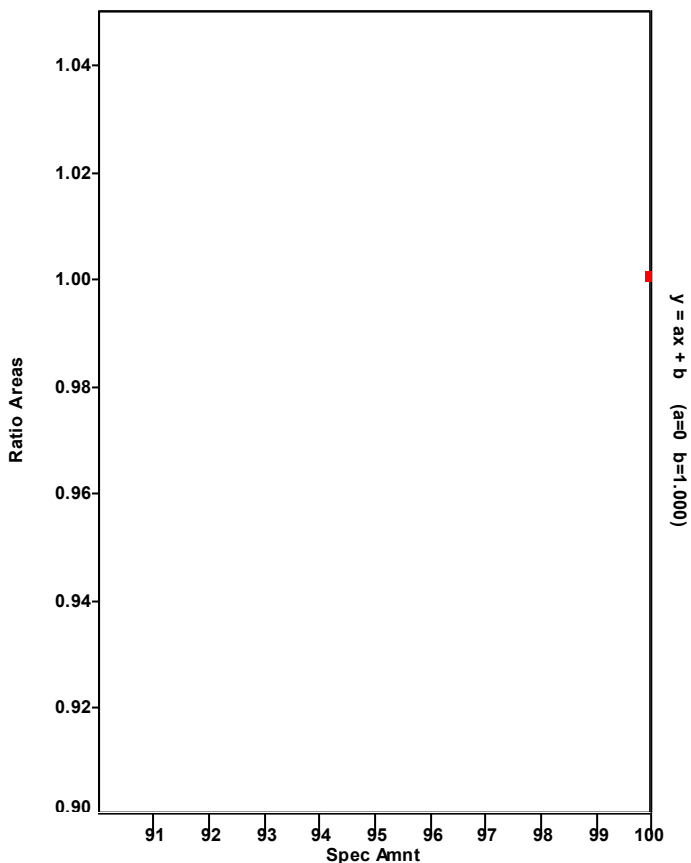


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2477407
RM1 Area	1959143
RM1 Ratio (A)	0.7908
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

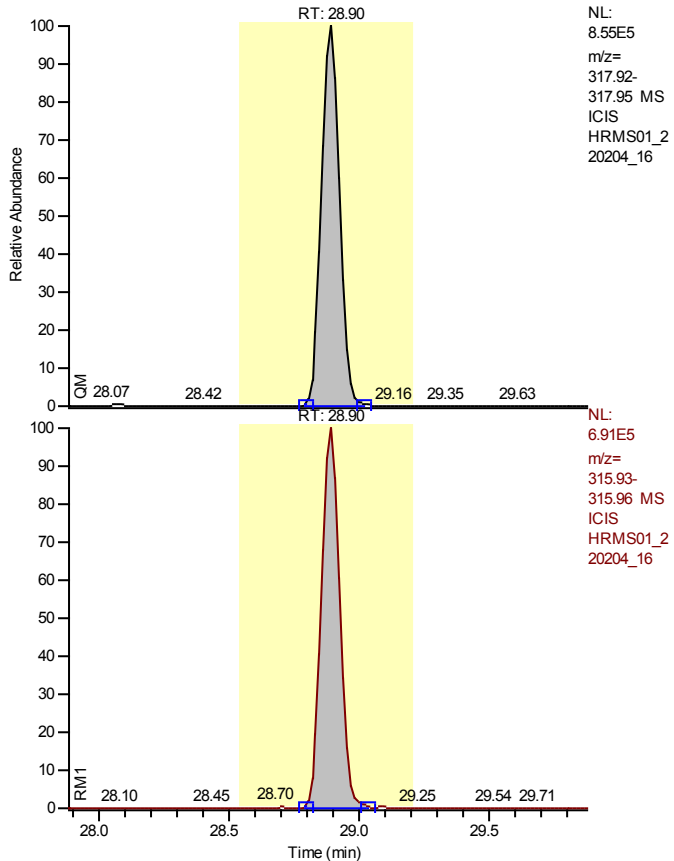
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.88 - 29.88 SM: 7G



NL:
 8.55E5
 m/z=
 317.92-
 317.95 MS
 ICIS
 HRMS01_2
 20204_16

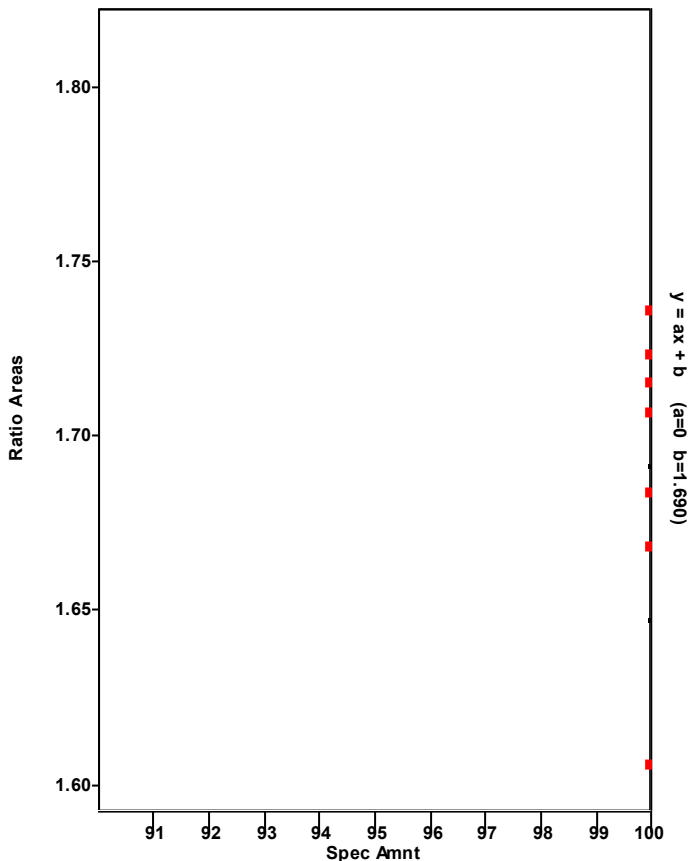
NL:
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 m/z=
 315.93-
 315.96 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	4208690
RM1 Area	3433209
RM1 Ratio (A)	0.8157
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

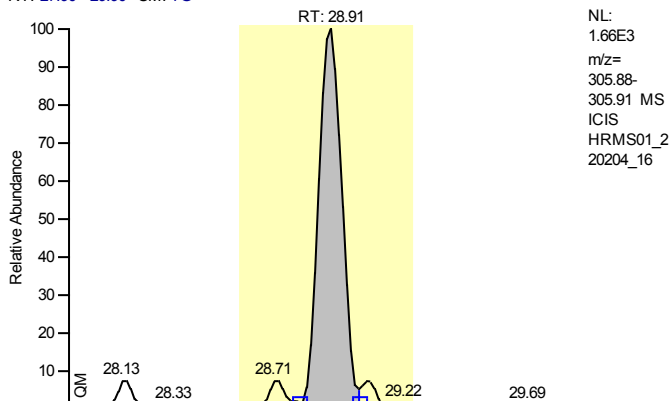
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

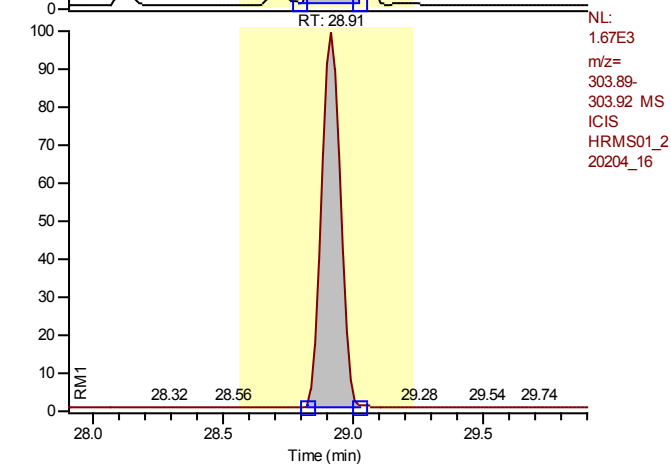
Entry Parameters

RT: 27.90 - 29.90 SM: 7G



NL: 1.66E3
 m/z= 305.88-305.91 MS
 ICIS HRMS01_2 20204_16

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	9889
RM1 Area	8253
RM1 Ratio (A)	0.8346
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

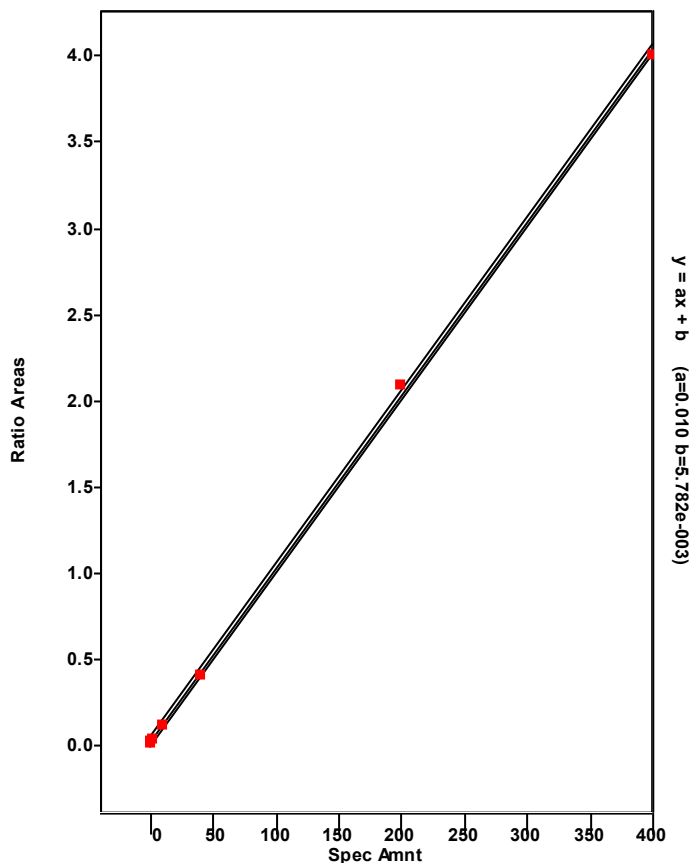


NL: 1.67E3
 m/z= 303.89-303.92 MS
 ICIS HRMS01_2 20204_16

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

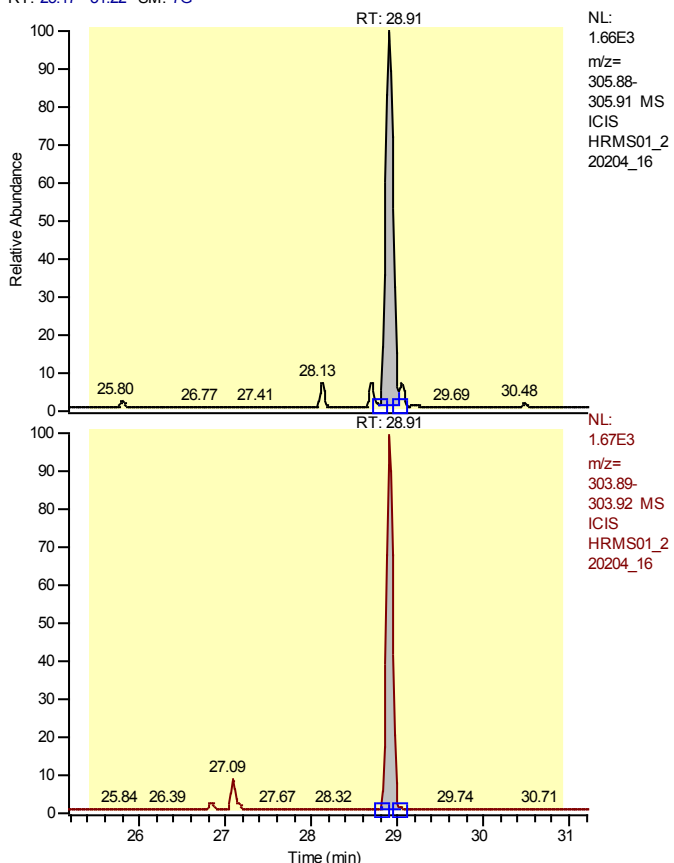
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.17 - 31.22 SM: 7G

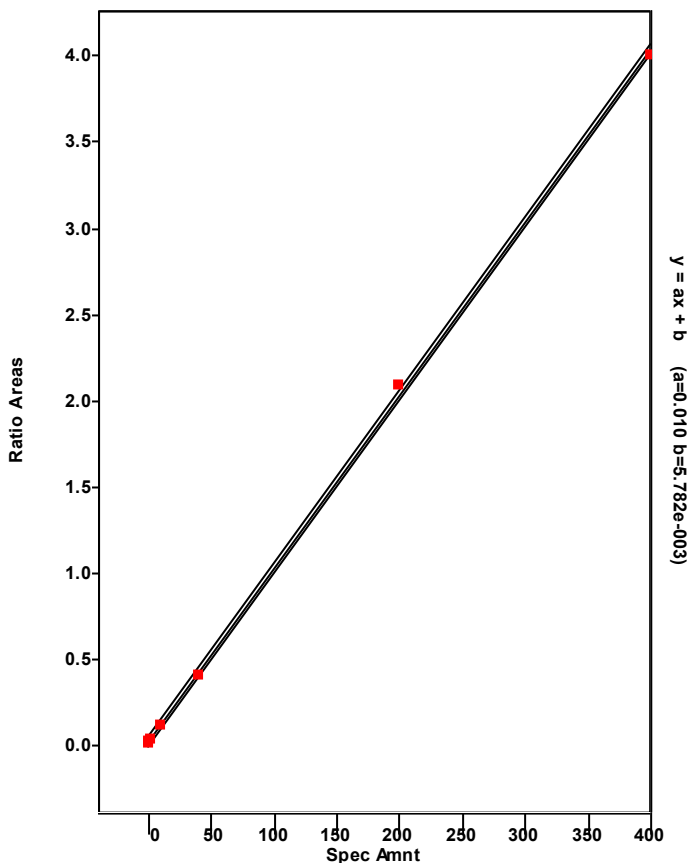


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	9889
RM1 Area	8253
RM1 Ratio (A)	0.8346
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

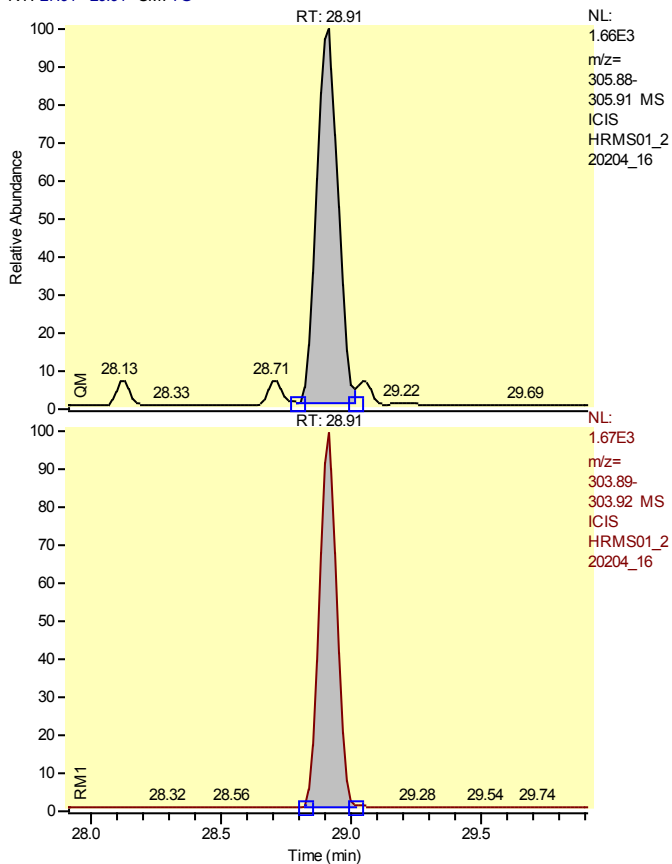
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.91 - 29.91 SM: 7G

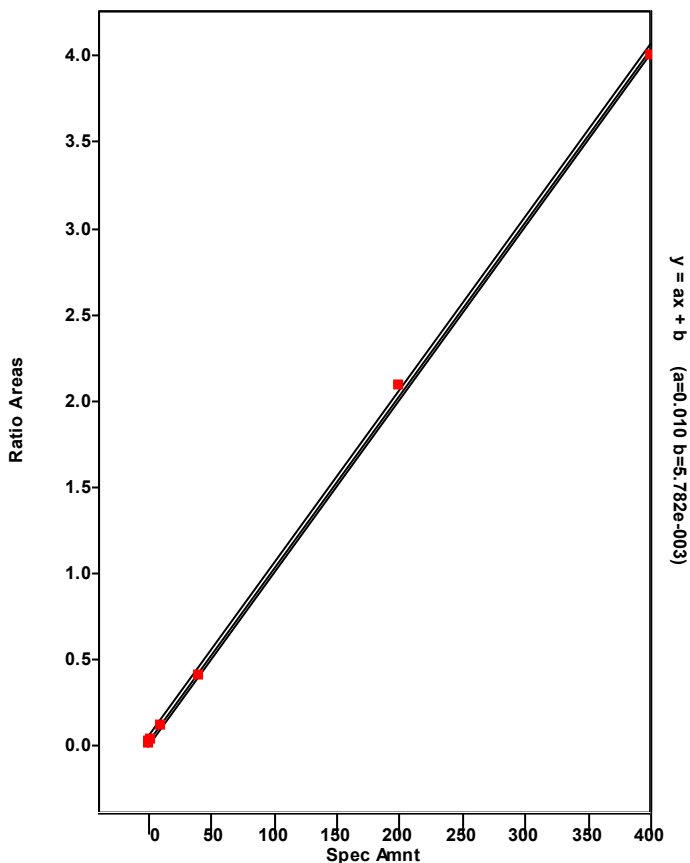


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9889
RM1 Area	8253
RM1 Ratio (A)	0.8346
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

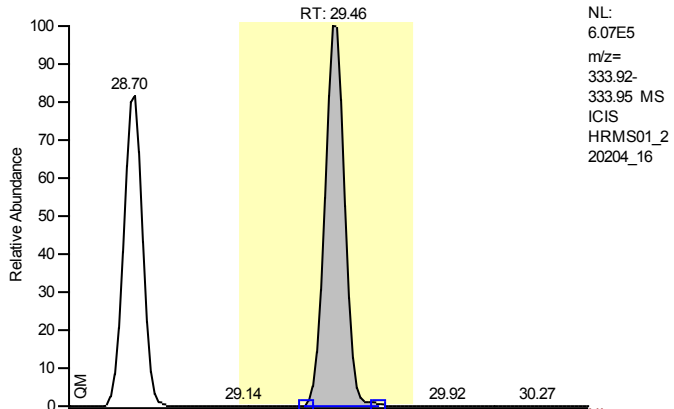
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



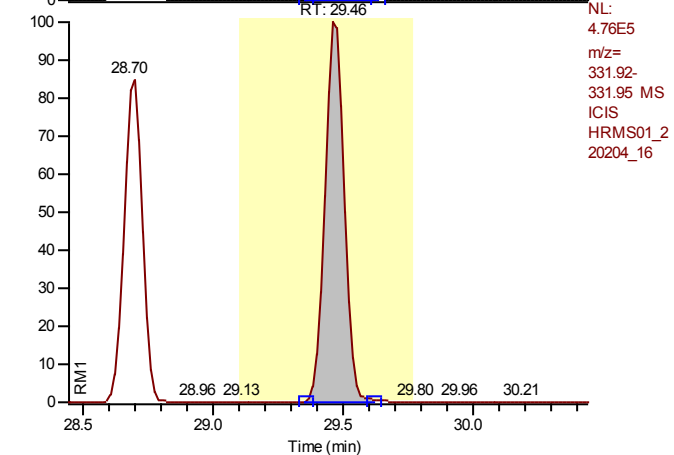
Chromatogram

Entry Parameters

RT: 28.44 - 30.44 SM: 7G



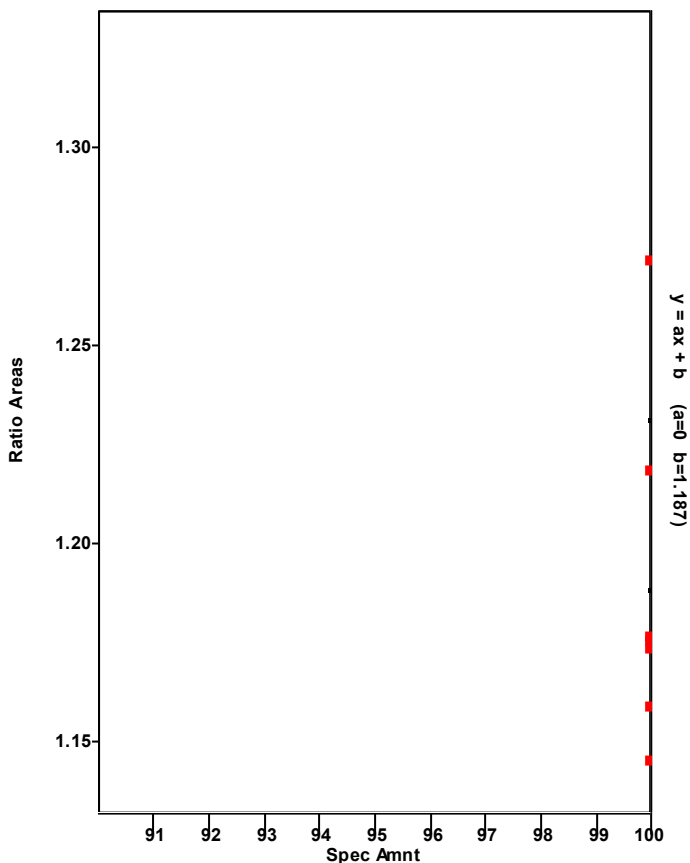
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	3202489
RM1 Area	2433767
RM1 Ratio (A)	0.7600
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

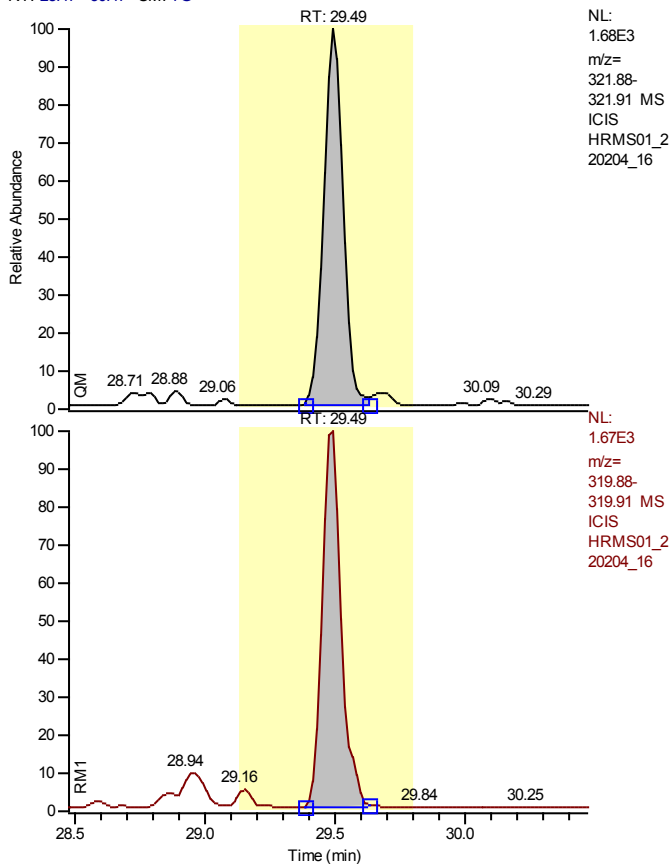
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

Entry Parameters

RT: 28.47 - 30.47 SM: 7G



NL:
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321.88-
321.91 MS
ICIS
HRMS01_2
20204_16

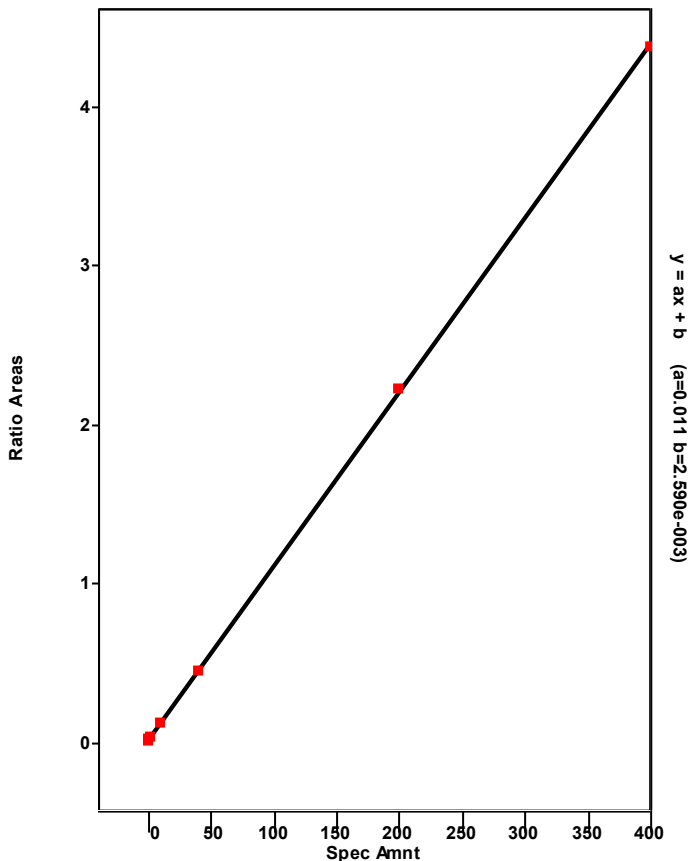
NL:
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m/z=
319.88-
319.91 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	8474
RM1 Area	8273
RM1 Ratio (A)	0.9762
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

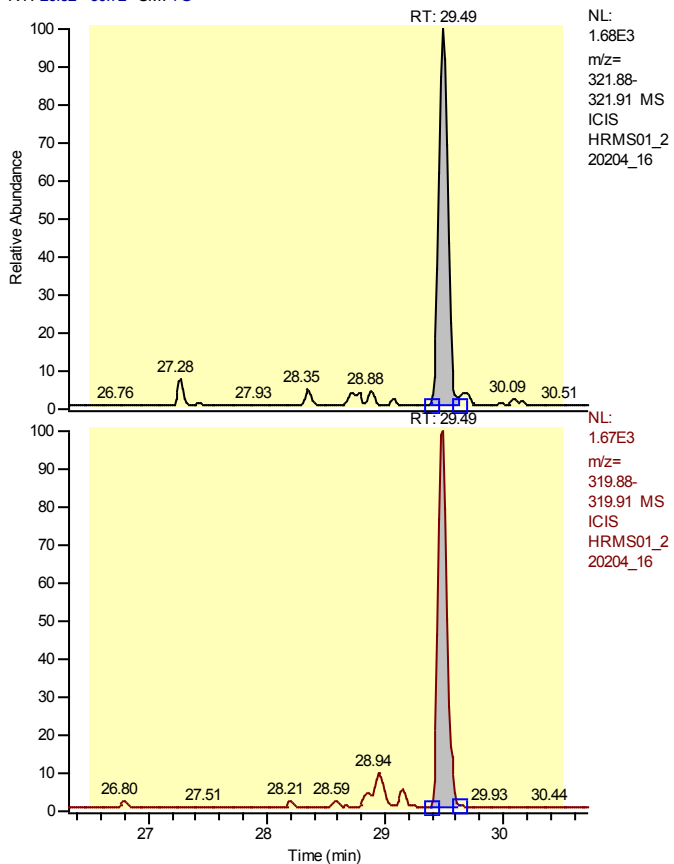
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.32 - 30.72 SM: 7G

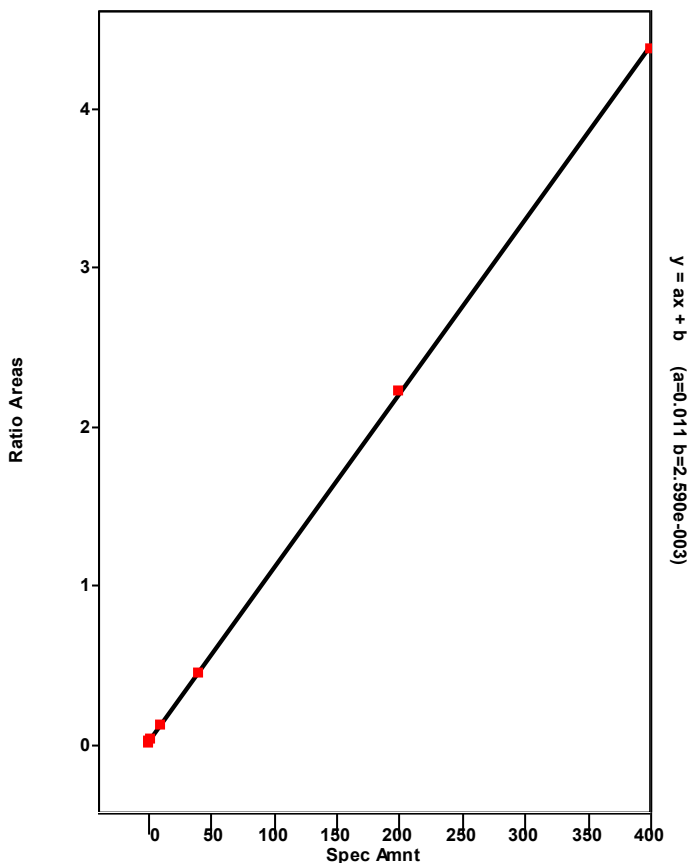


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	8474
RM1 Area	8273
RM1 Ratio (A)	0.9762
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

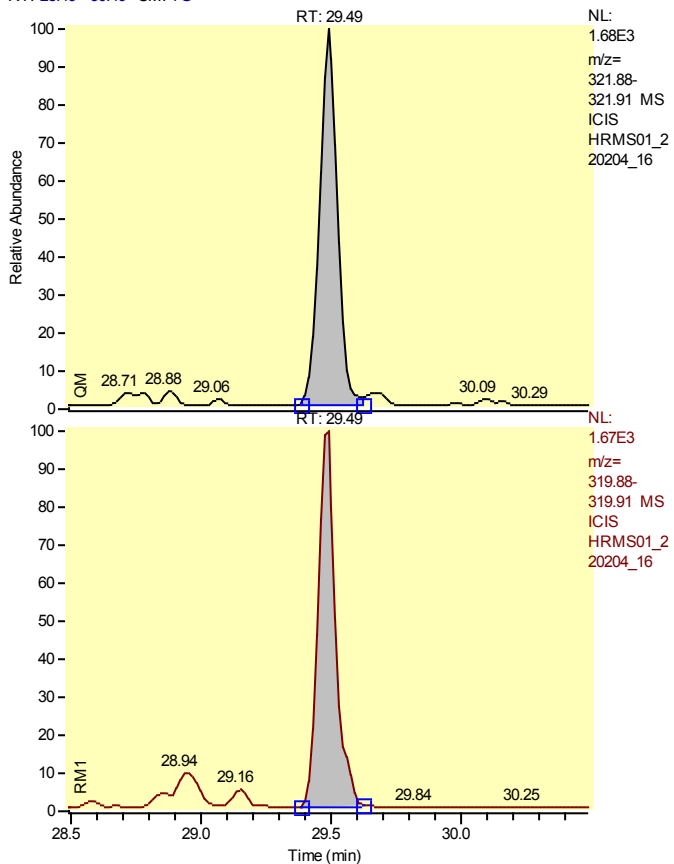
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 28.49 - 30.49 SM: 7G

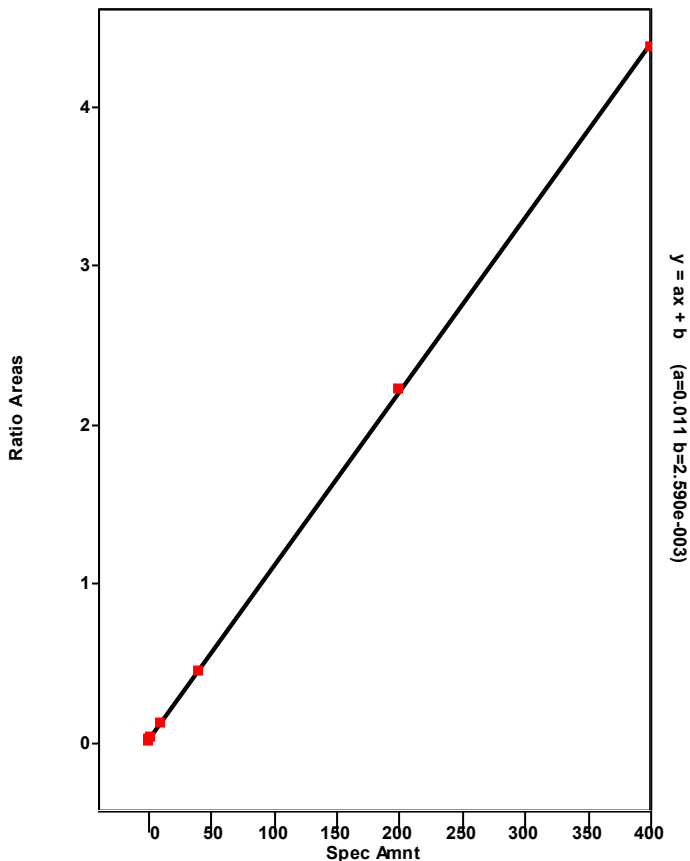


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	8474
RM1 Area	8273
RM1 Ratio (A)	0.9762
Ratio1 Limit	0.6500 - 0.9800
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

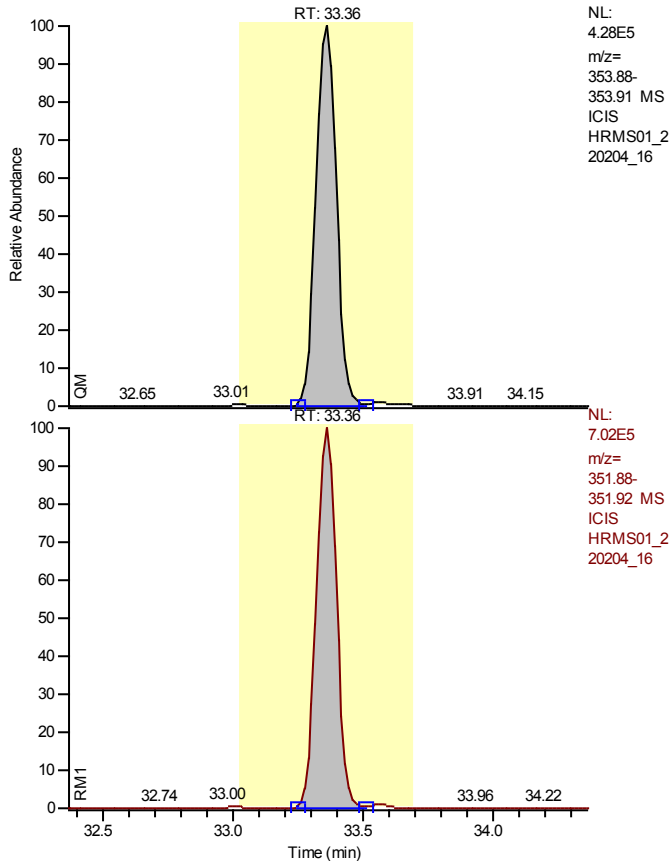
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.37 - 34.37 SM: 7G



NL:
4.28E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20204_16

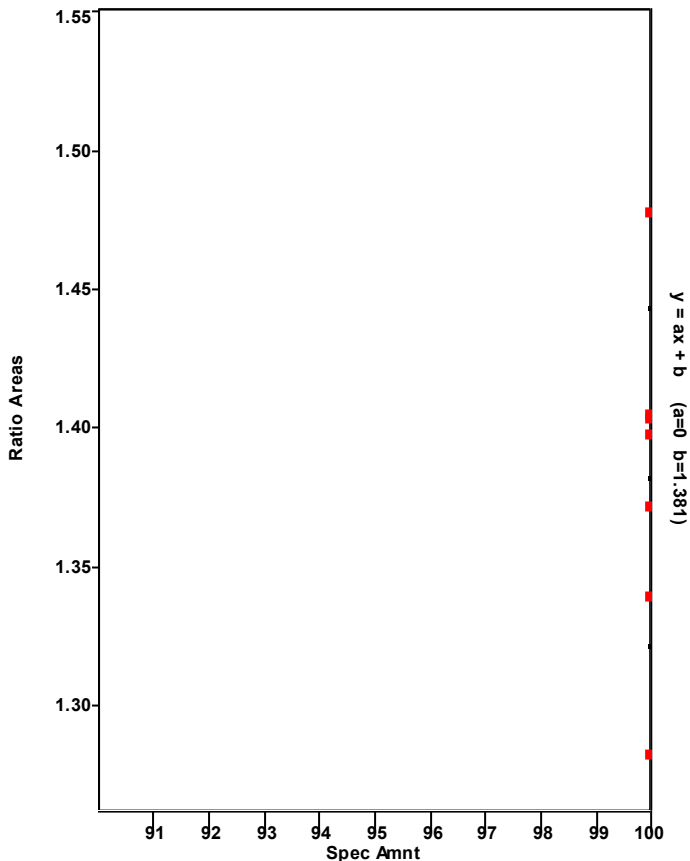
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2331661
RM1 Area	3749717
RM1 Ratio (A)	1.6082
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
7.02E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20204_16

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

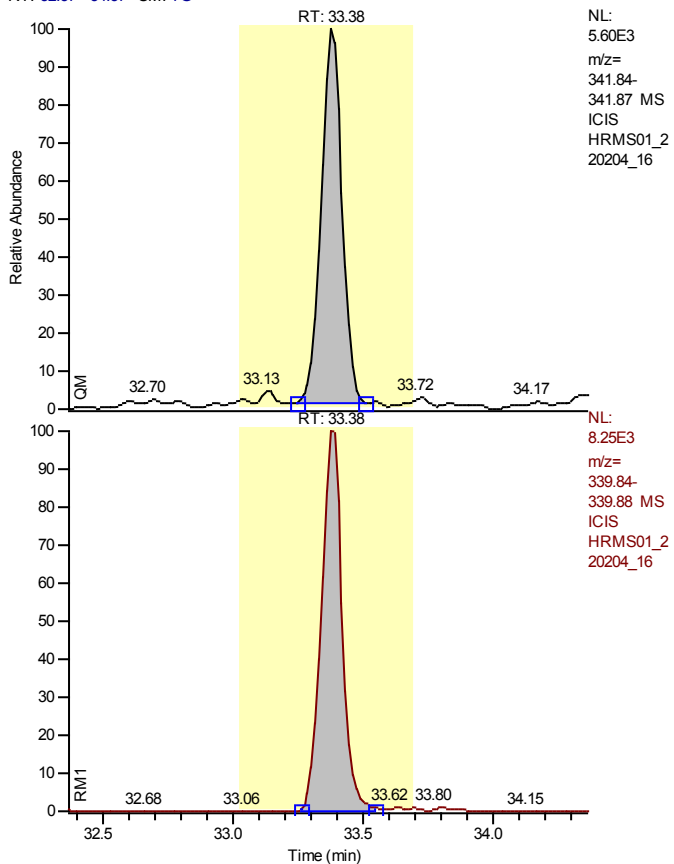
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.37 - 34.37 SM: 7G



NL:
5.60E3
m/z=
341.84-
341.87 MS
ICIS
HRMS01_2
20204_16

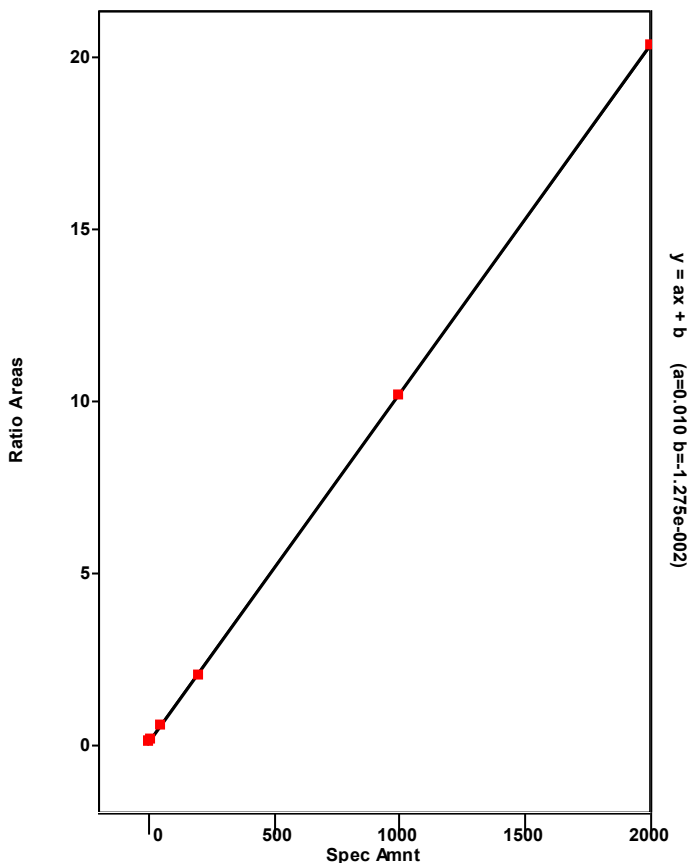
NL:
8.25E3
m/z=
339.84-
339.88 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	30433
RM1 Area	45387
RM1 Ratio (A)	1.4914
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0375
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

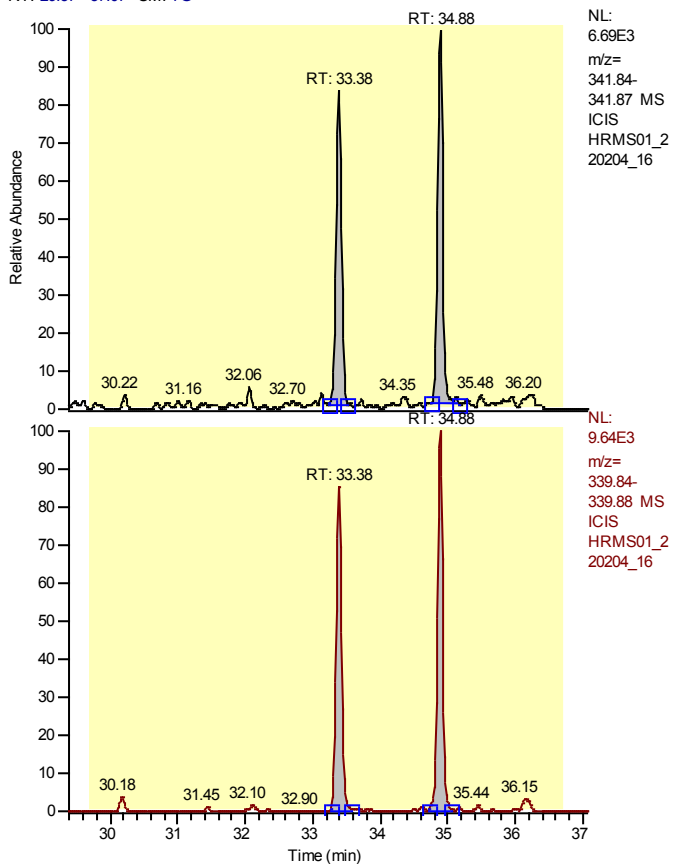
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.37 - 37.07 SM: 7G

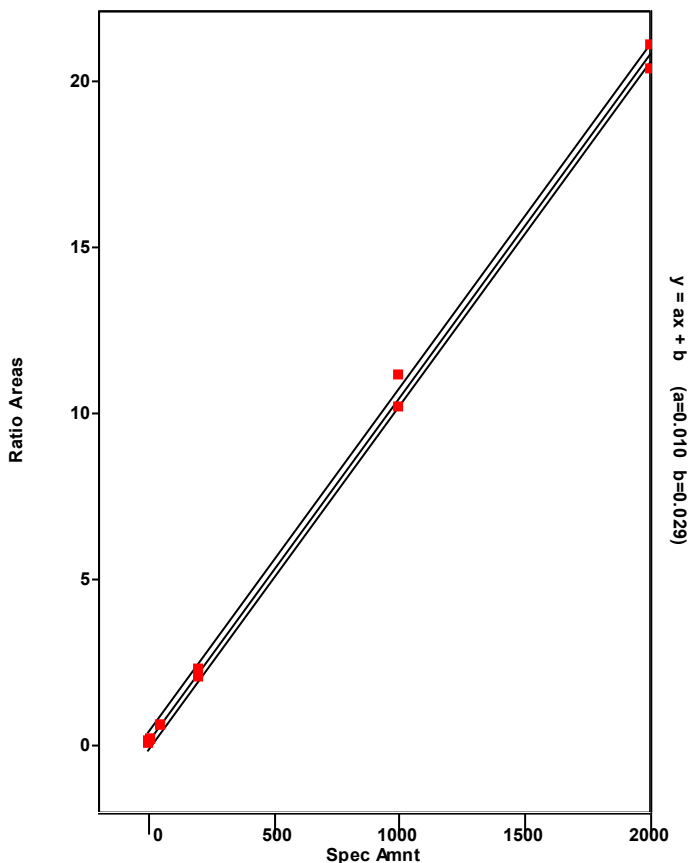


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	67527
RM1 Area	98442
RM1 Ratio (A)	1.4578
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	2.50
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

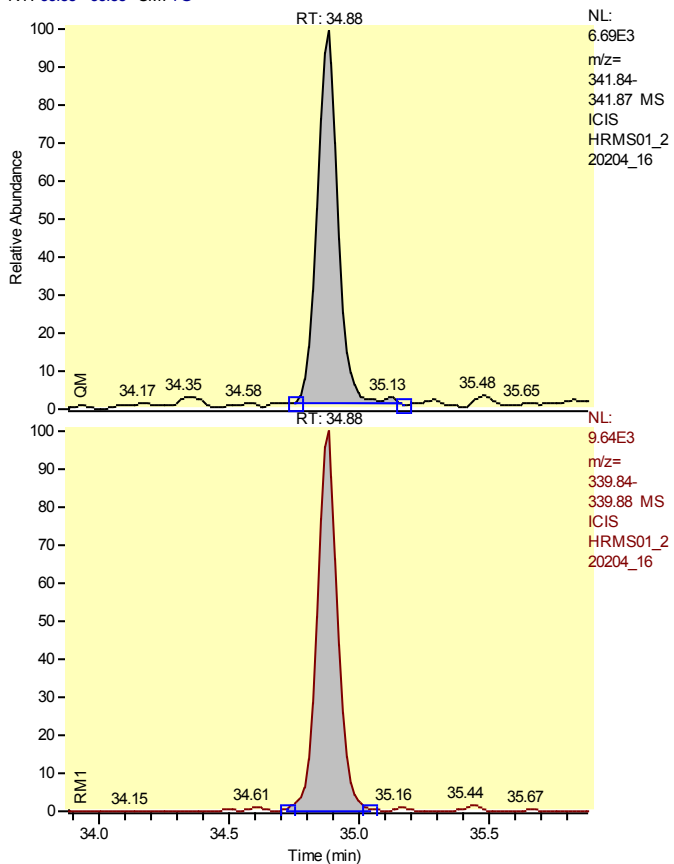
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.88 - 35.88 SM: 7G

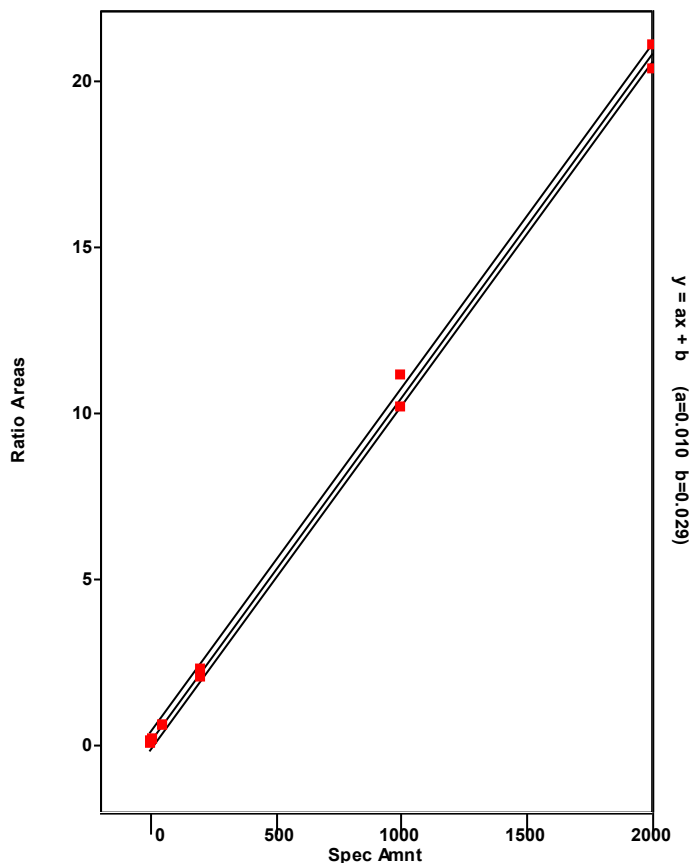


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	37094
RM1 Area	53054
RM1 Ratio (A)	1.4303
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

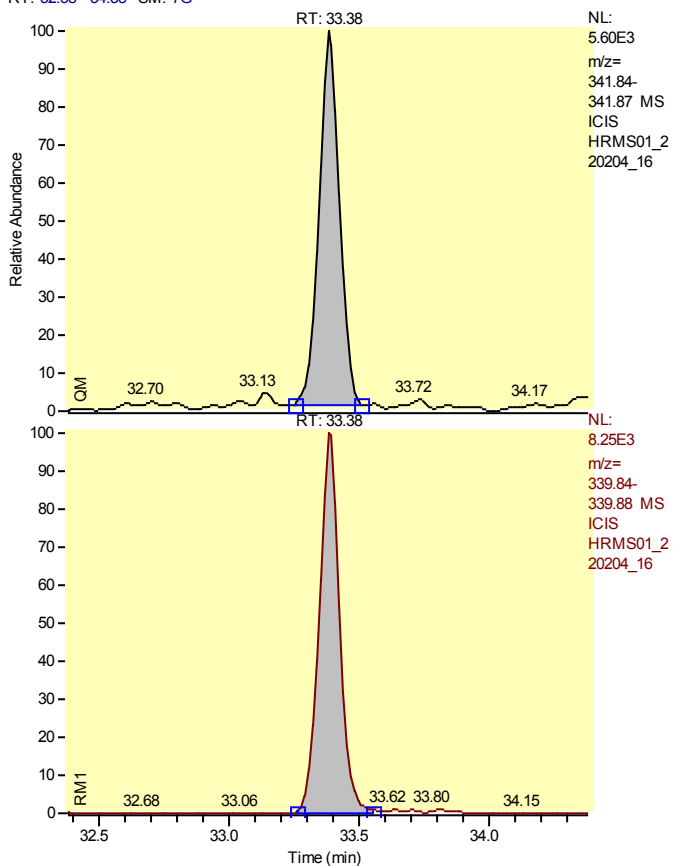
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.38 - 34.38 SM: 7G

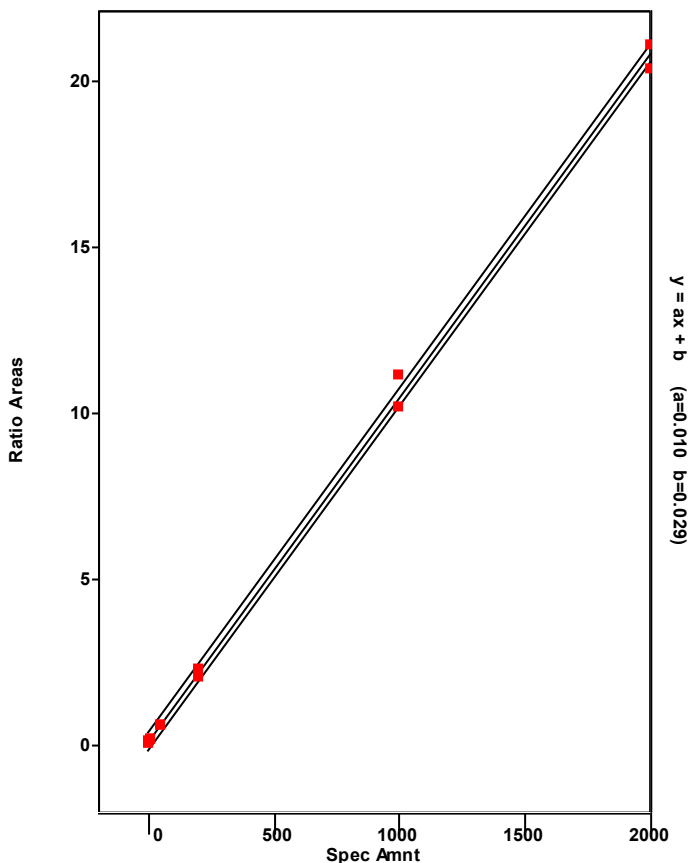


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	30433
RM1 Area	45387
RM1 Ratio (A)	1.4914
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

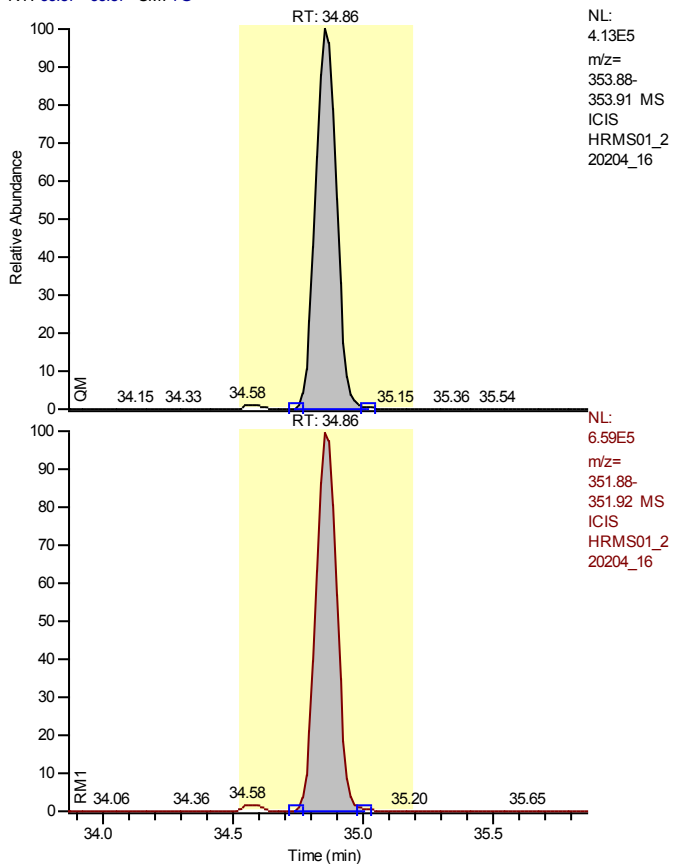
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.87 - 35.87 SM: 7G

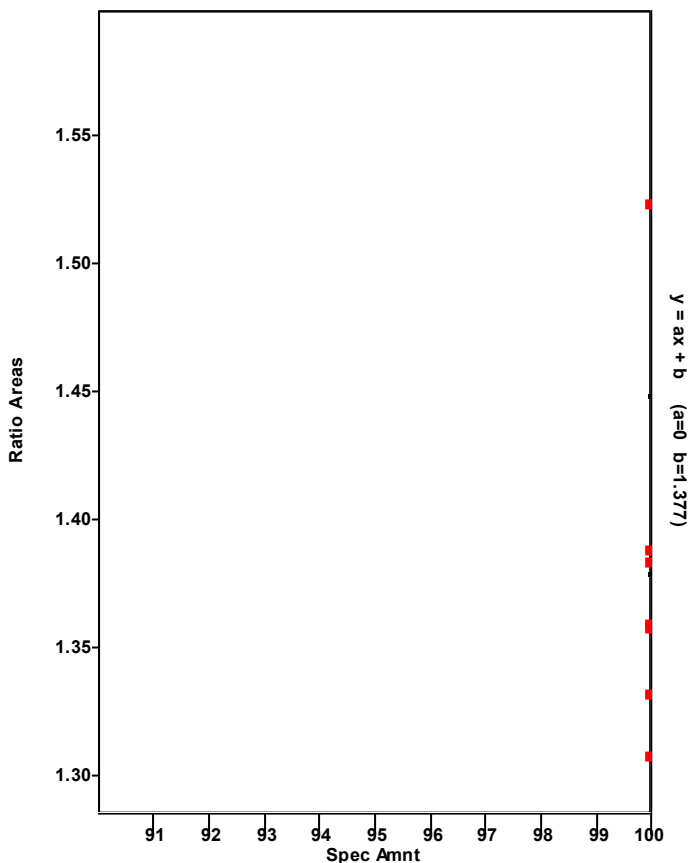


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2285399
RM1 Area	3616859
RM1 Ratio (A)	1.5826
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

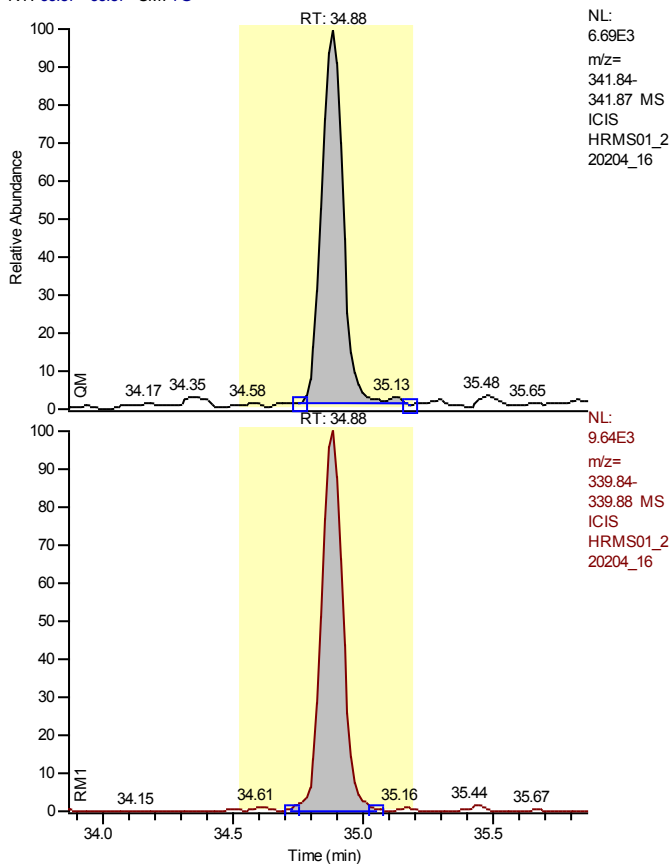
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.87 - 35.87 SM: 7G

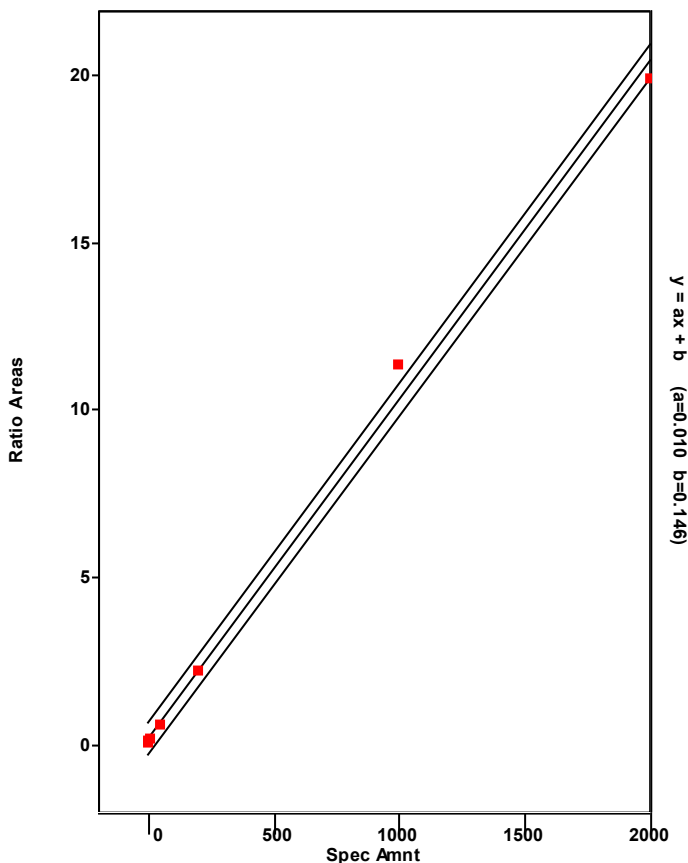


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	37094
RM1 Area	53054
RM1 Ratio (A)	1.4303
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.3750
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

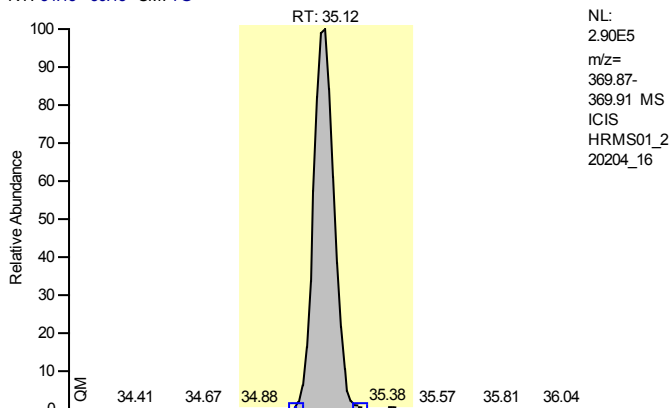
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

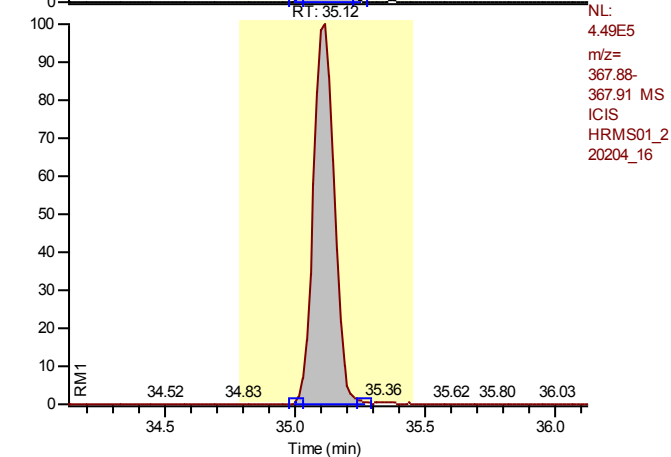
Entry Parameters

RT: 34.13 - 36.13 SM: 7G



NL:
 2.90E5
 m/z=
 369.87-
 369.91 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1572769
RM1 Area	2482950
RM1 Ratio (A)	1.5787
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

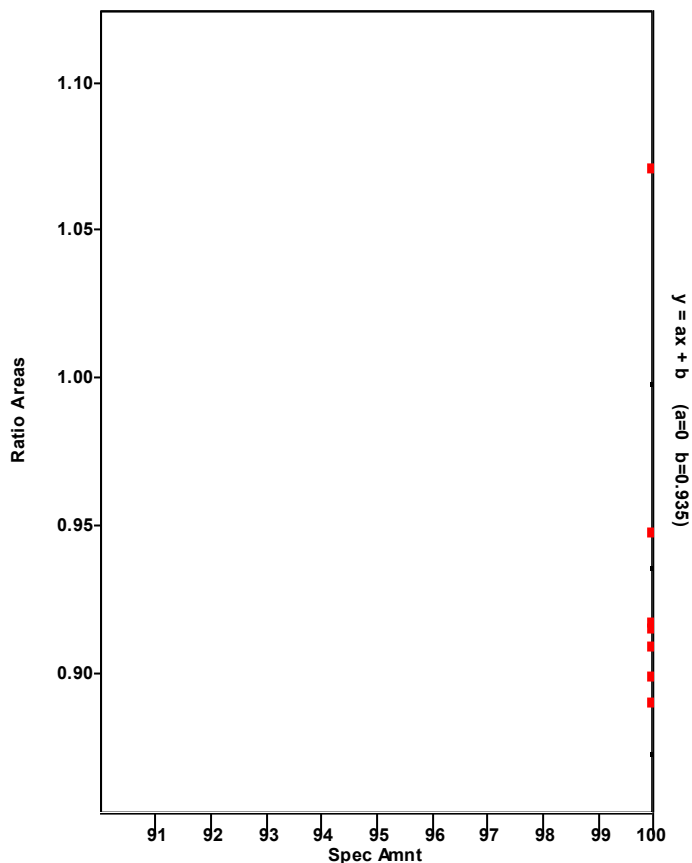


NL:
 4.49E5
 m/z=
 367.88-
 367.91 MS
 ICIS
 HRMS01_2
 20204_16

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

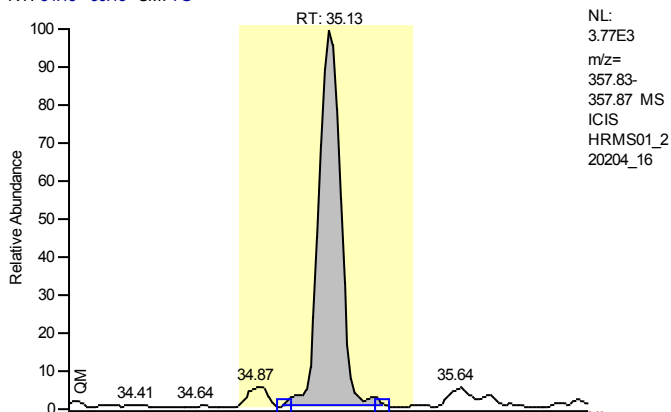
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

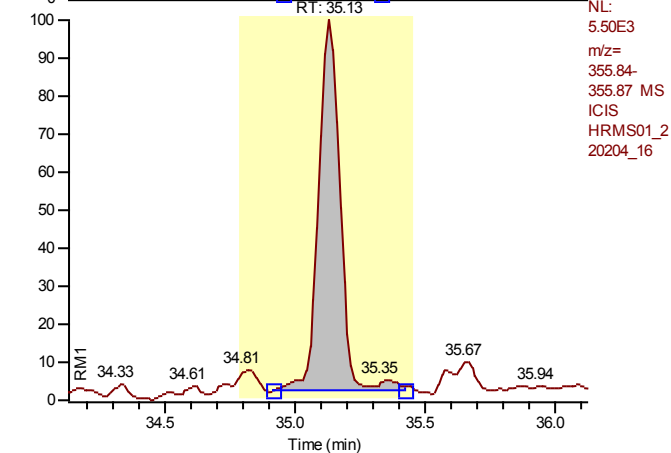
Entry Parameters

RT: 34.13 - 36.13 SM: 7G



NL:
 3.77E3
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	21258
RM1 Area	30066
RM1 Ratio (A)	1.4143
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	1.2500
Label2	

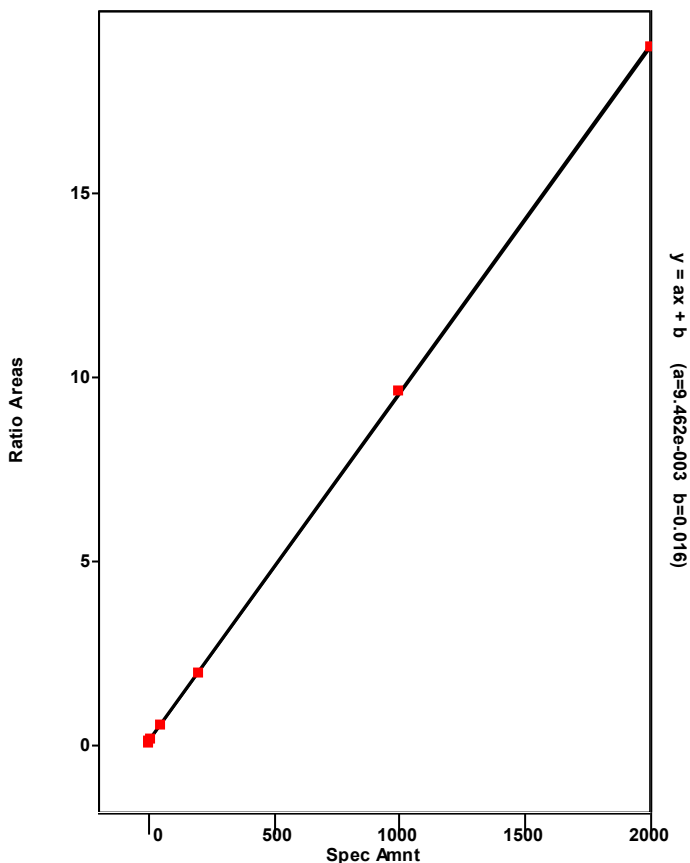


NL:
 5.50E3
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_16

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

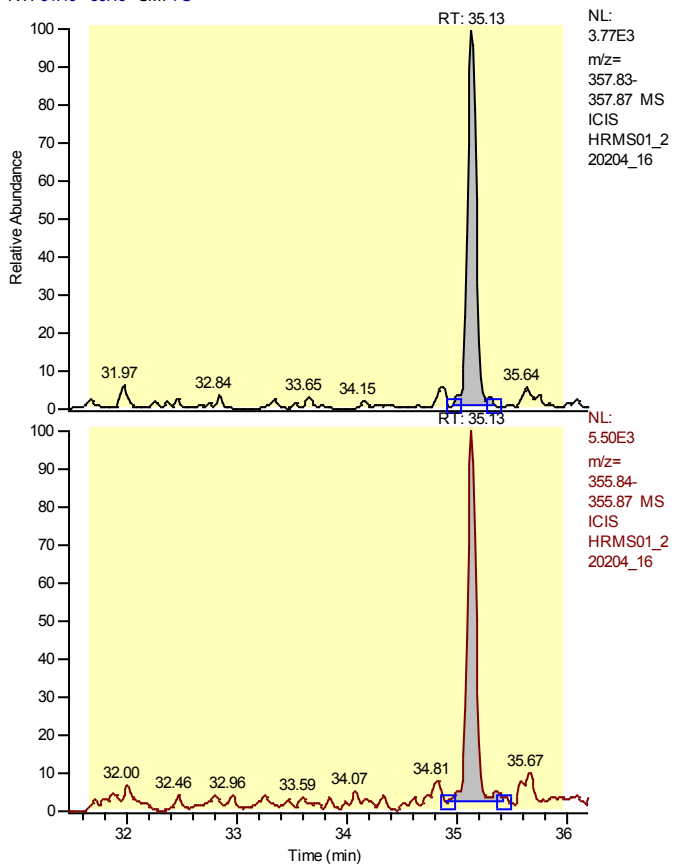
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.46 - 36.19 SM: 7G

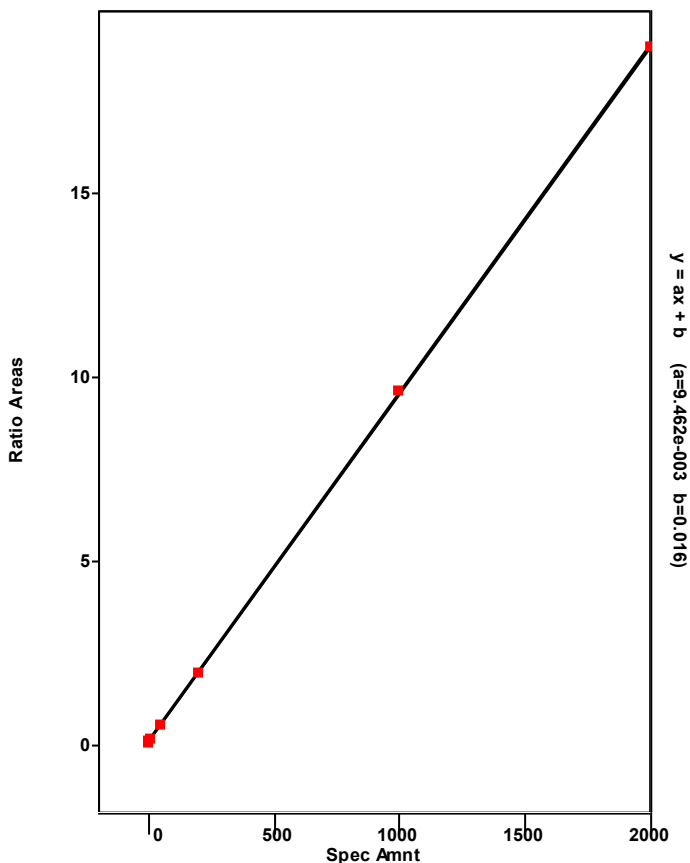


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	21258
RM1 Area	30066
RM1 Ratio (A)	1.4143
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

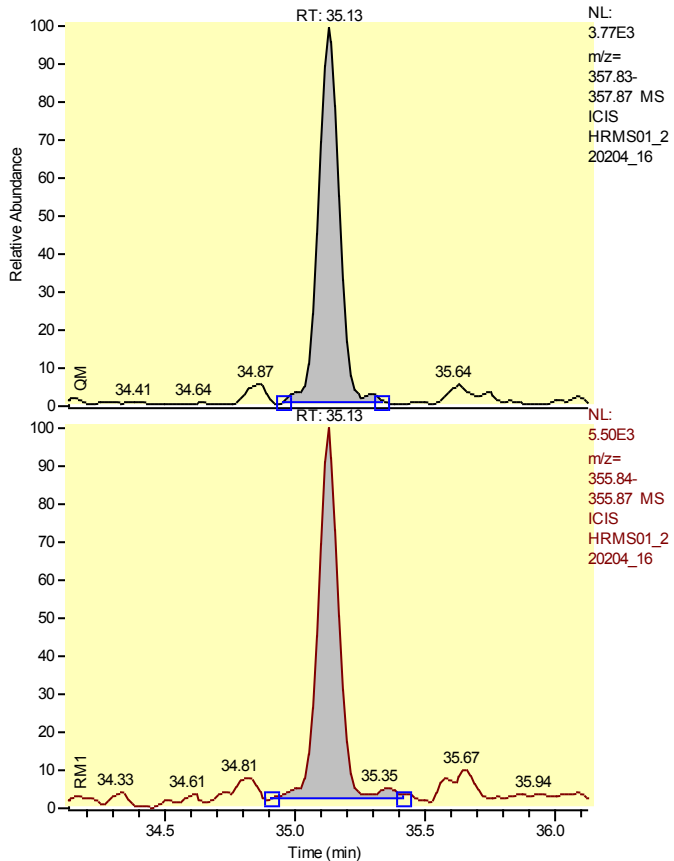
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.13 - 36.13 SM: 7G

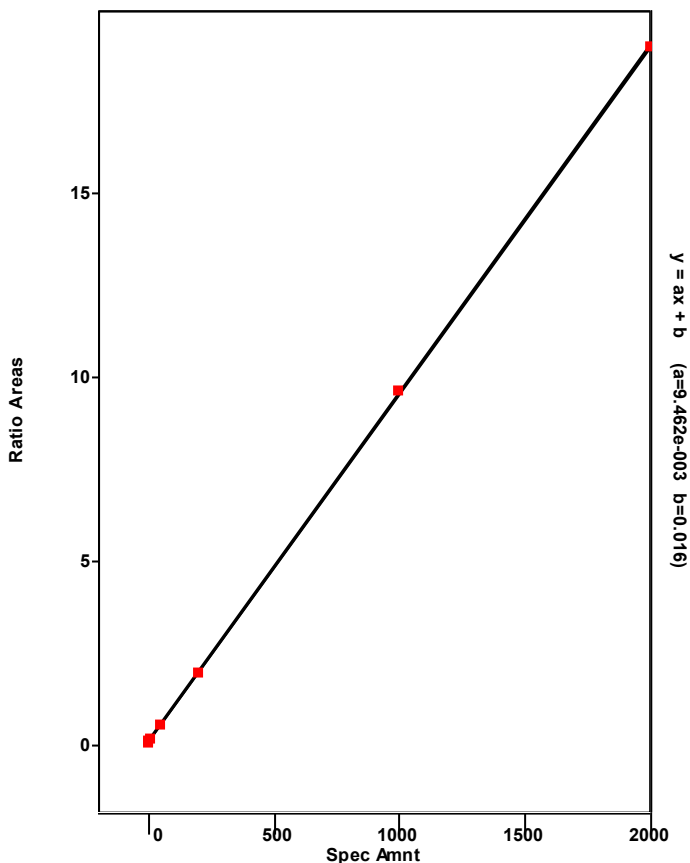


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	21258
RM1 Area	30066
RM1 Ratio (A)	1.4143
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

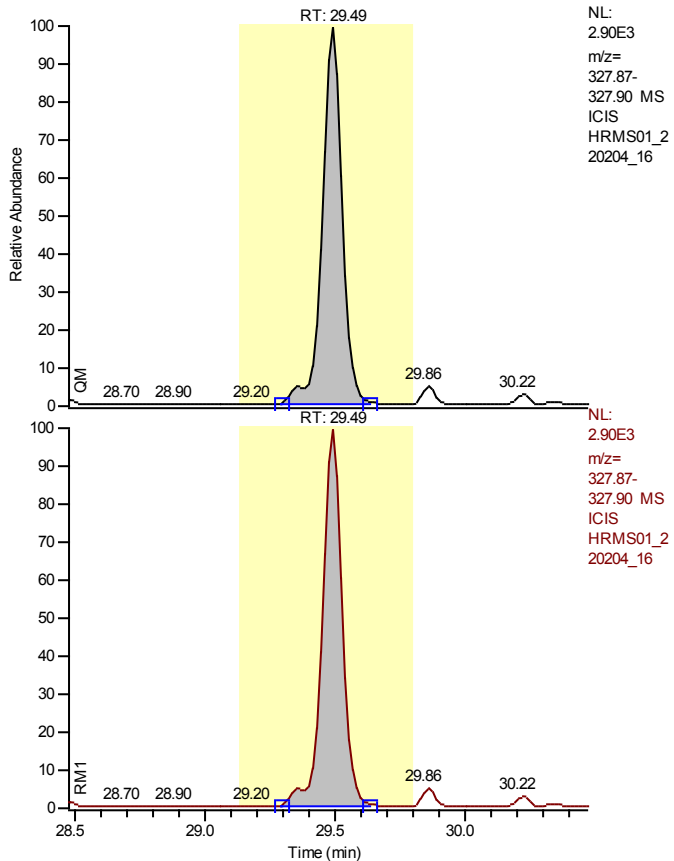
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.47 - 30.47 SM: 7G



NL:
2.90E3
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20204_16

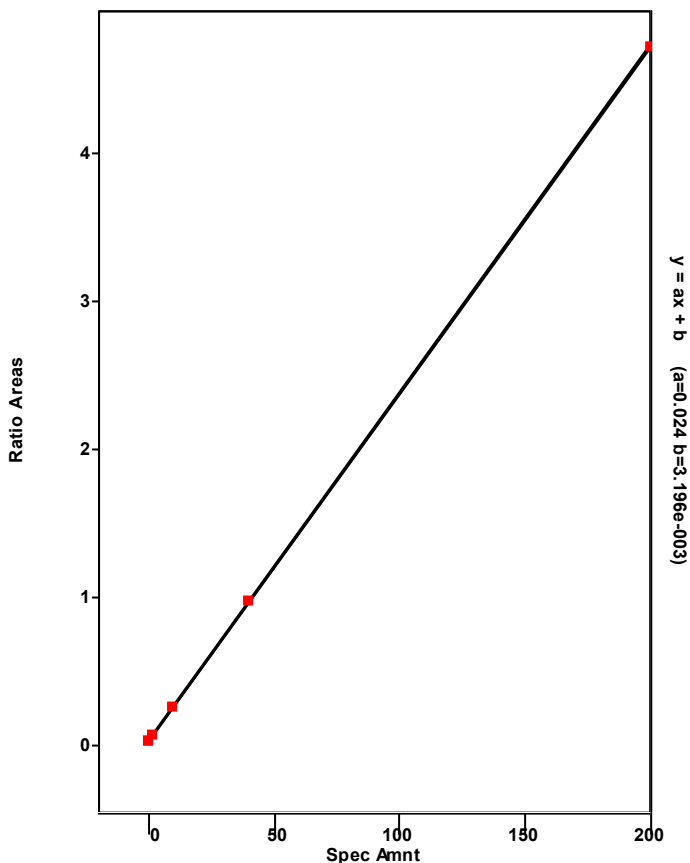
NL:
2.90E3
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	15019
RM1 Area	15019
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

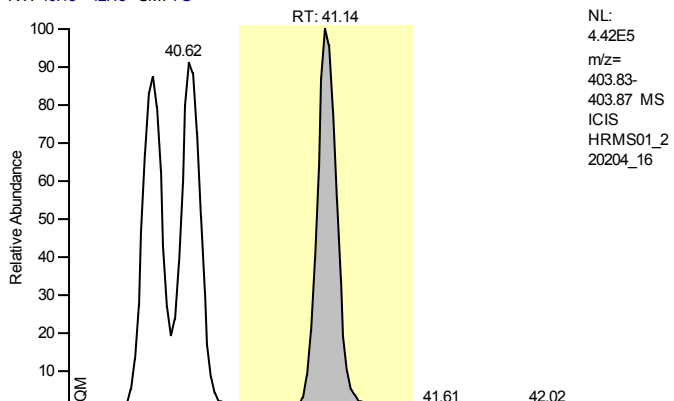
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

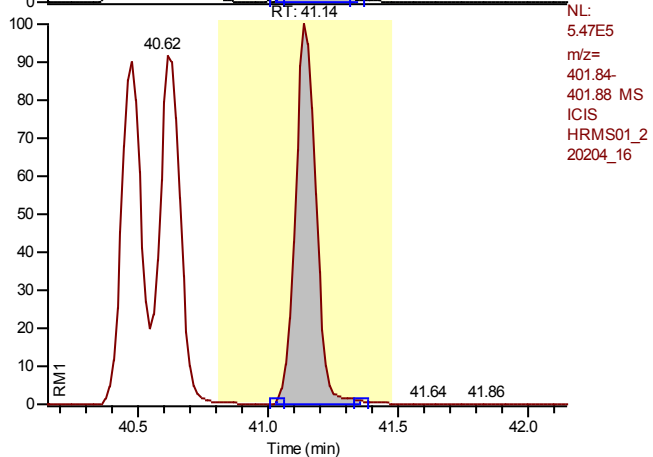
Entry Parameters

RT: 40.15 - 42.15 SM: 7G



NL:
 4.42E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2377950
RM1 Area	3000402
RM1 Ratio (A)	1.2618
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

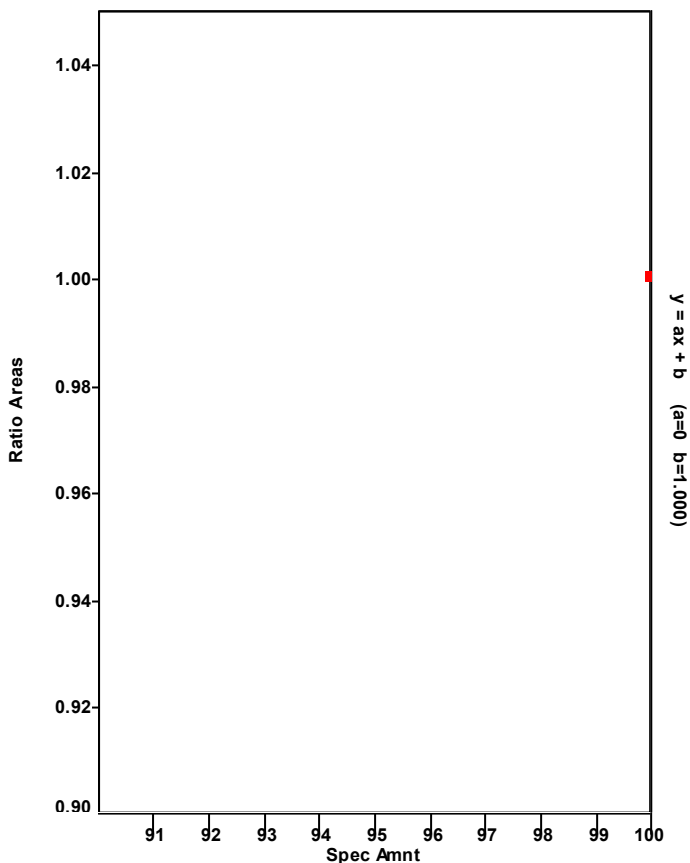


NL:
 5.47E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_16

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

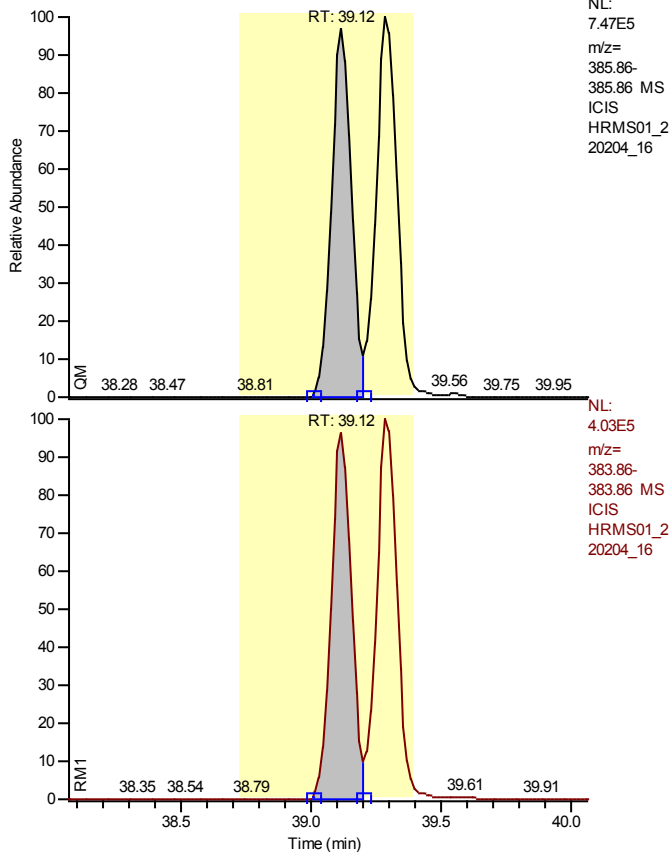
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
7.47E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20204_16

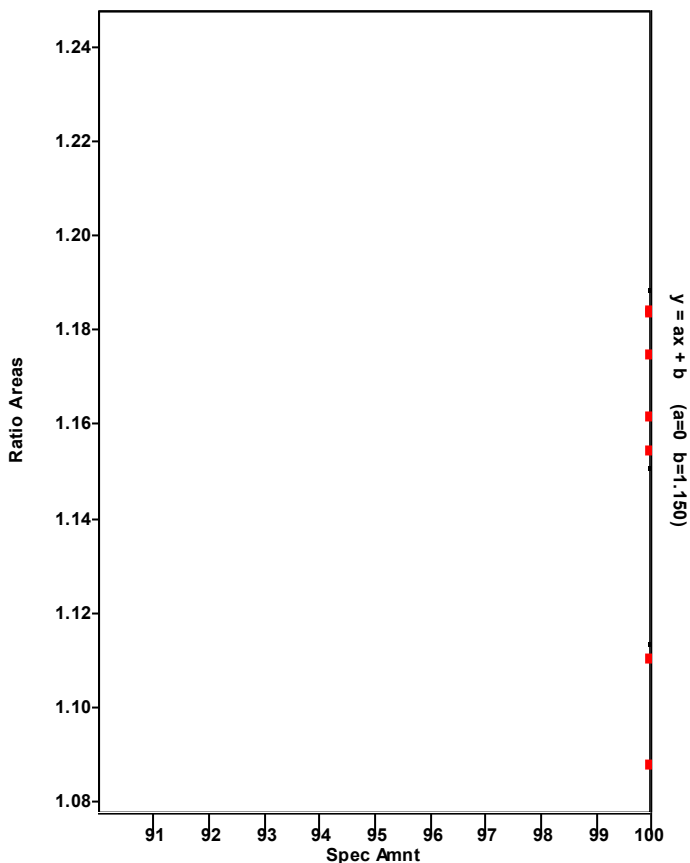
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	3866243
RM1 Area	2101946
RM1 Ratio (A)	0.5437
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
4.03E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20204_16

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

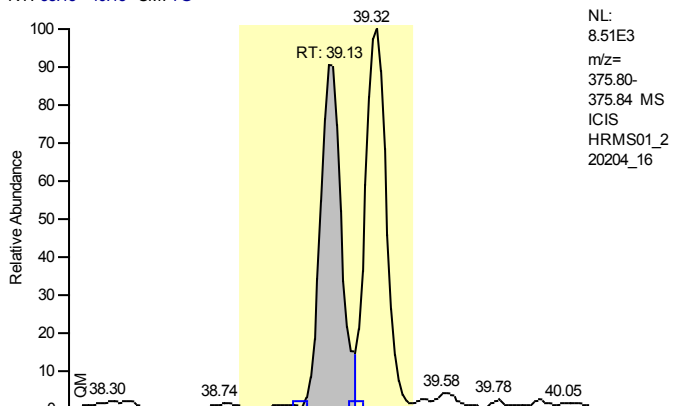
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



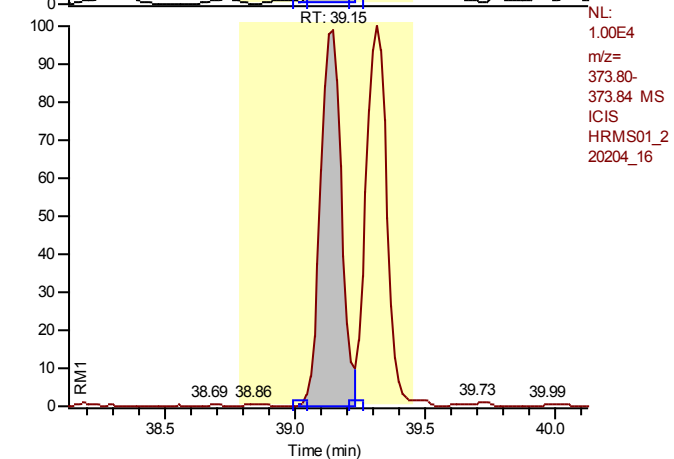
Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G



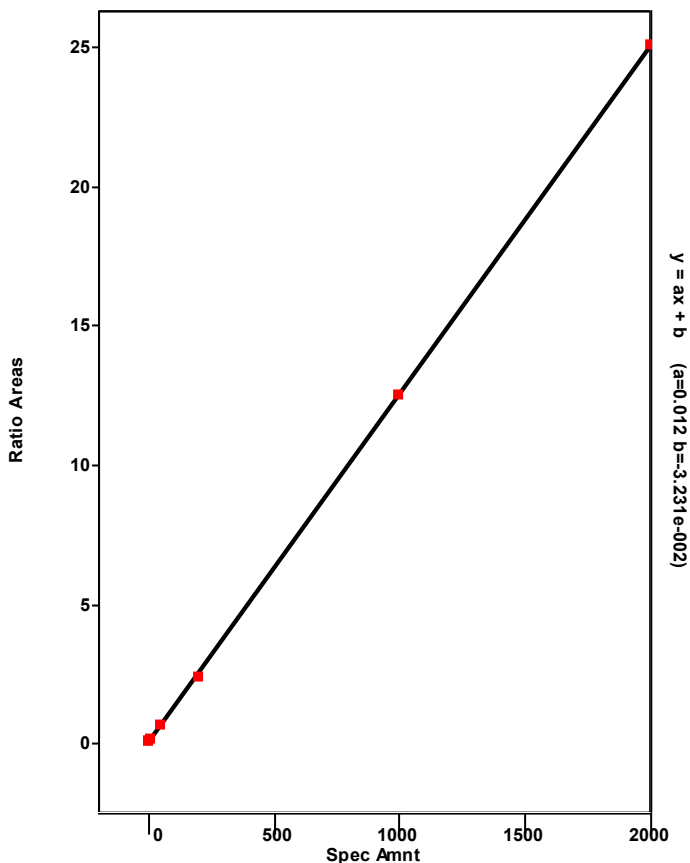
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	41283
RM1 Area	54053
RM1 Ratio (A)	1.3093
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

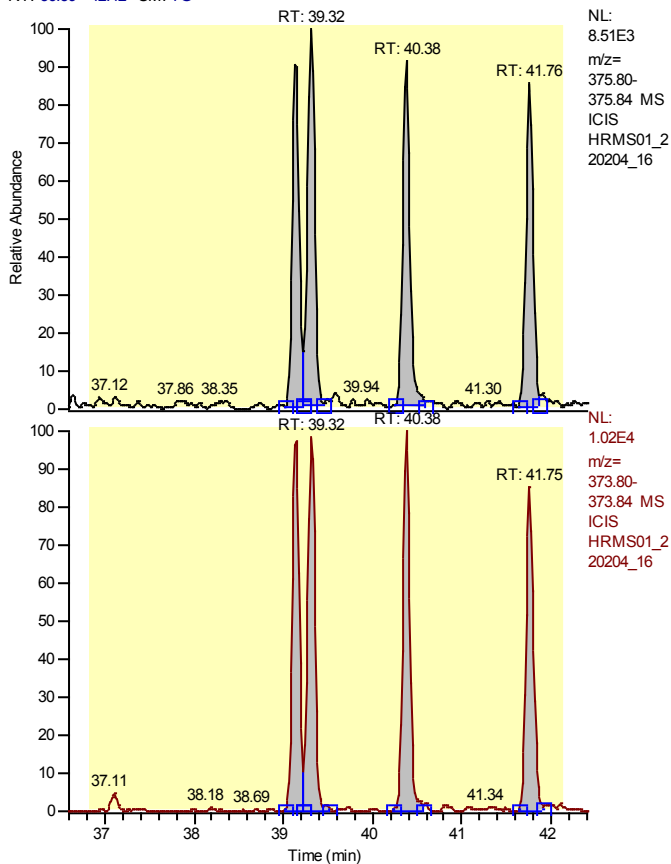
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.59 - 42.42 SM: 7G

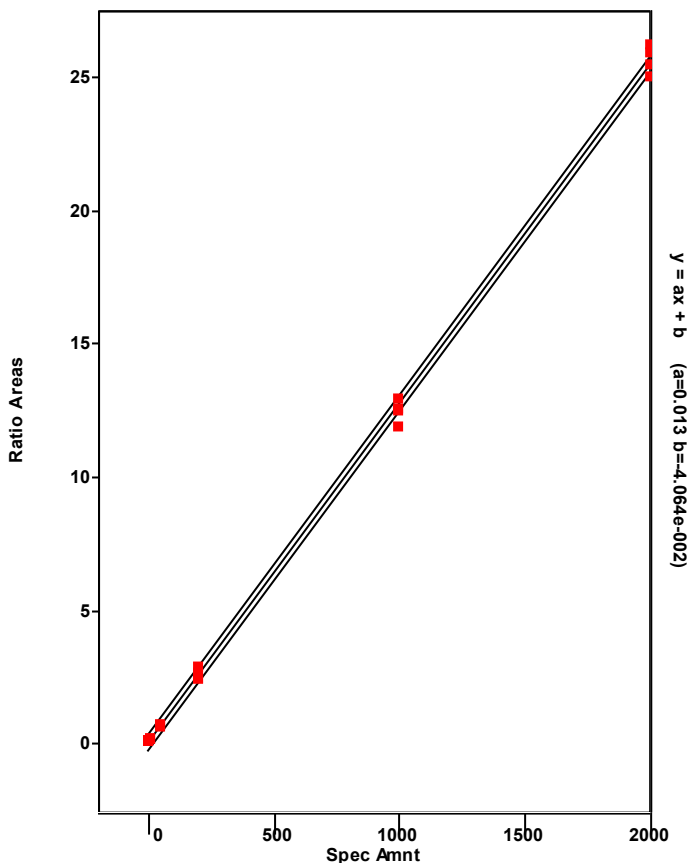


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	173668
RM1 Area	216041
RM1 Ratio (A)	1.2440
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	5.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

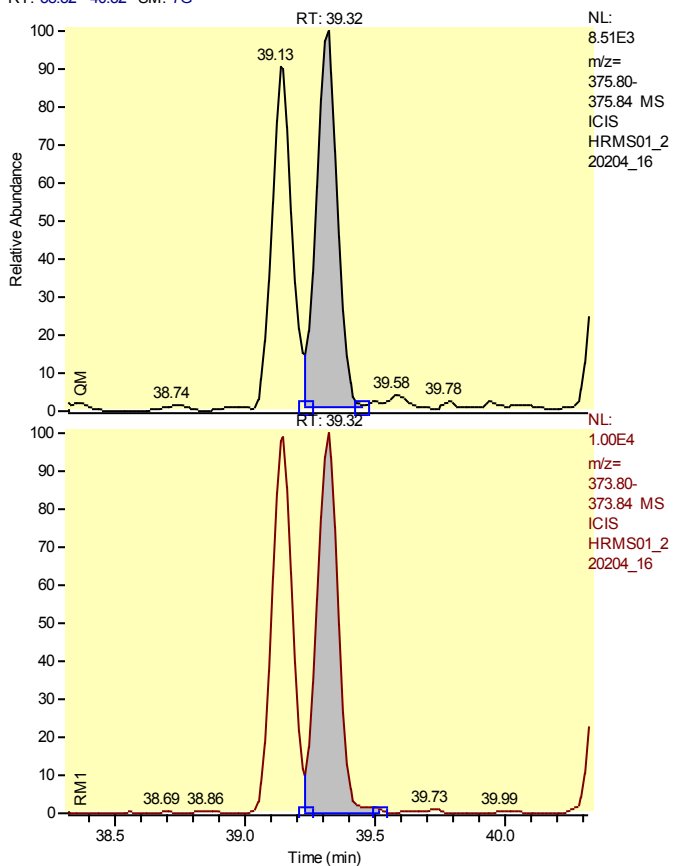
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.32 - 40.32 SM: 7G

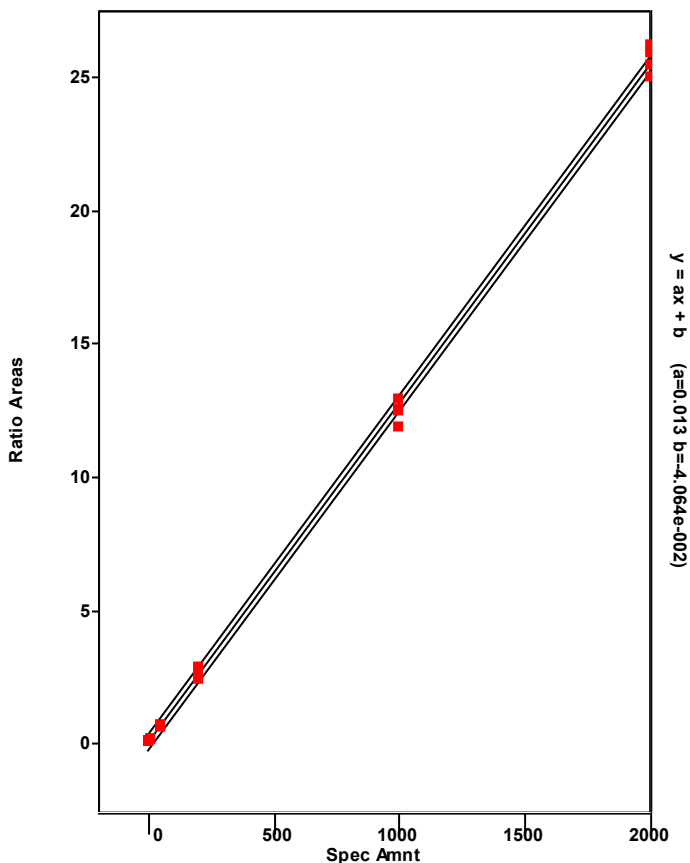


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	46812
RM1 Area	55885
RM1 Ratio (A)	1.1938
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

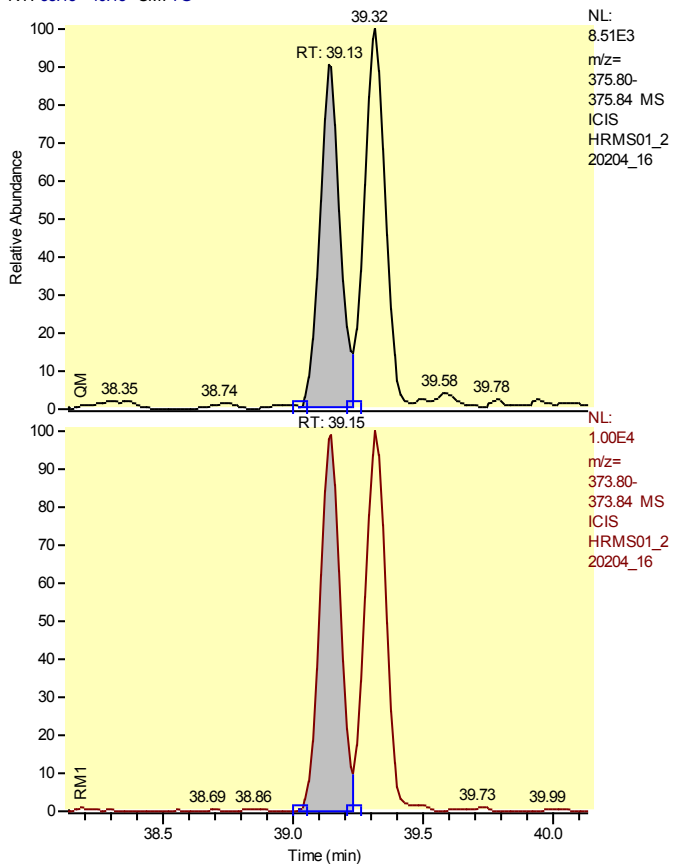
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G

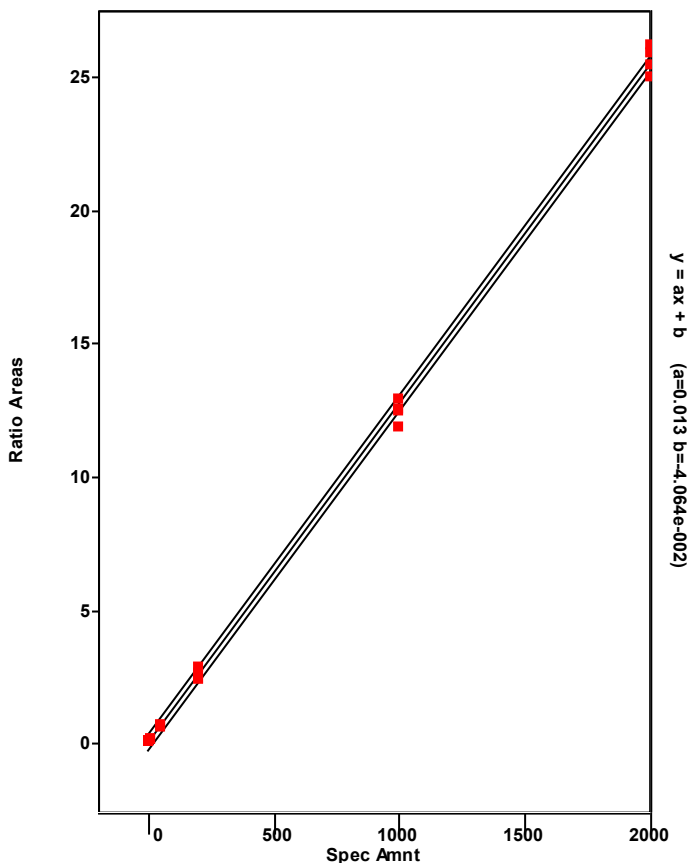


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	41283
RM1 Area	54053
RM1 Ratio (A)	1.3093
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

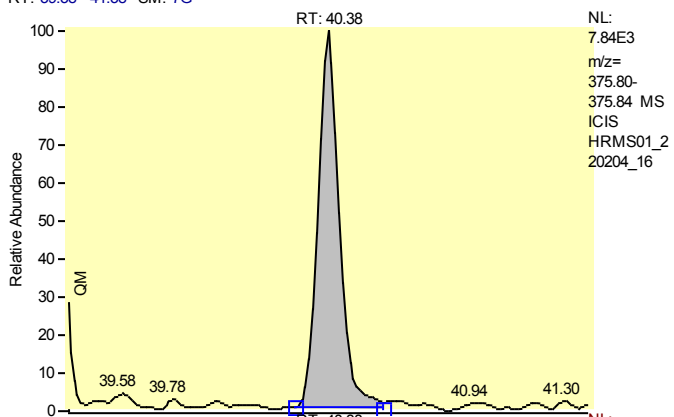
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

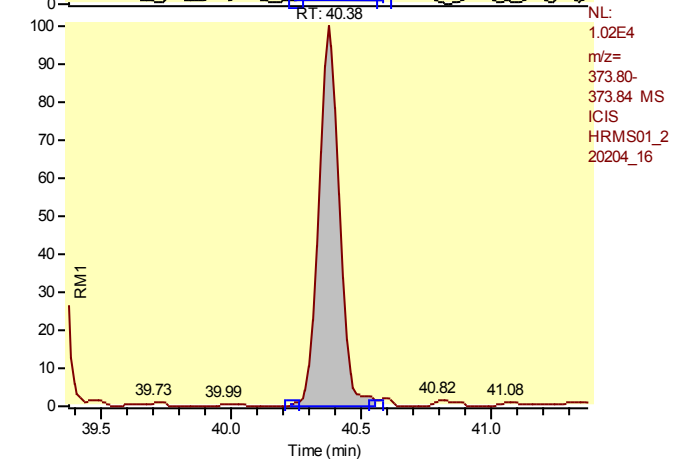
Entry Parameters

RT: 39.38 - 41.38 SM: 7G



NL:
7.84E3
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	44370
RM1 Area	55340
RM1 Ratio (A)	1.2473
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

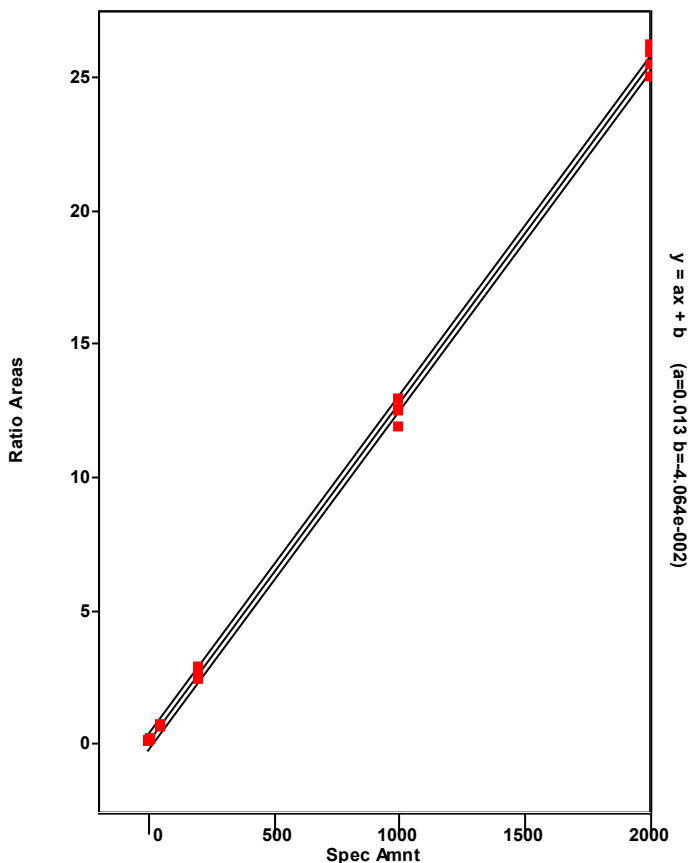


NL:
1.02E4
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_16

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

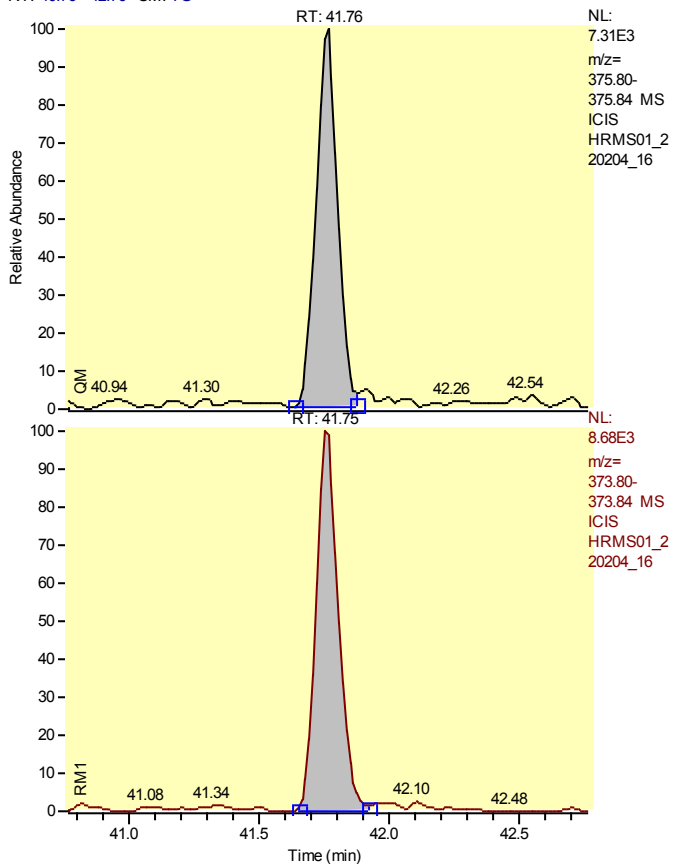
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.76 - 42.76 SM: 7G

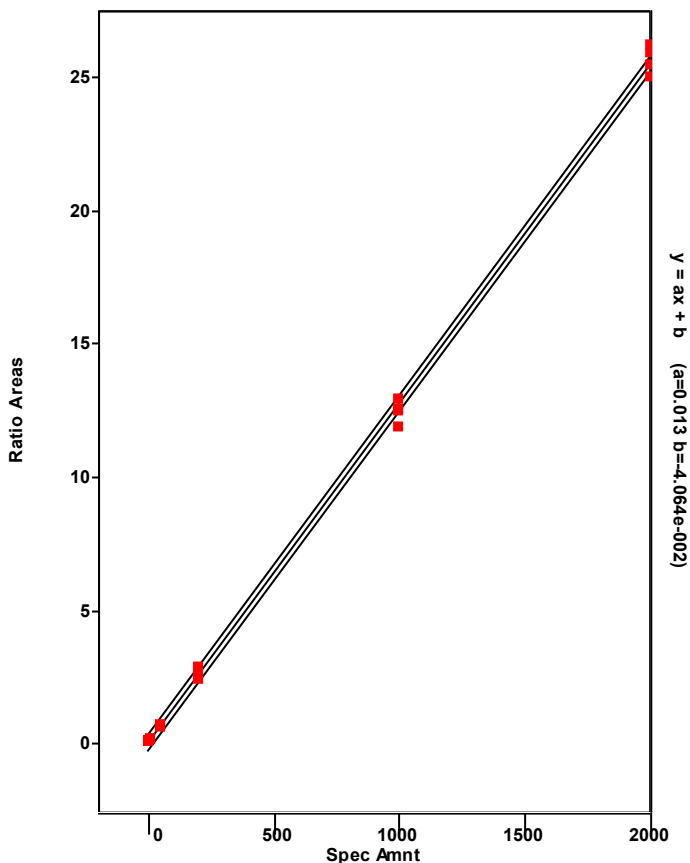


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	41204
RM1 Area	50763
RM1 Ratio (A)	1.2320
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

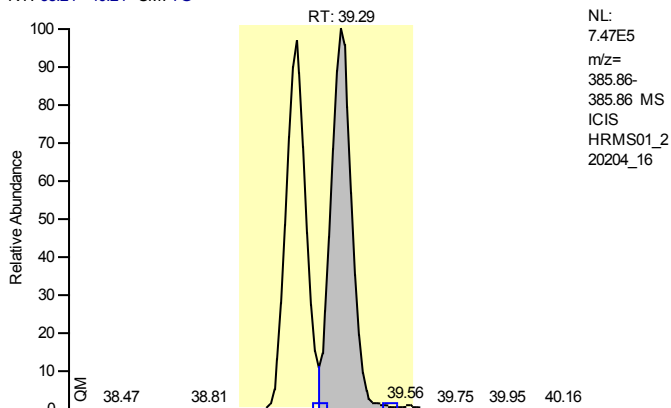
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



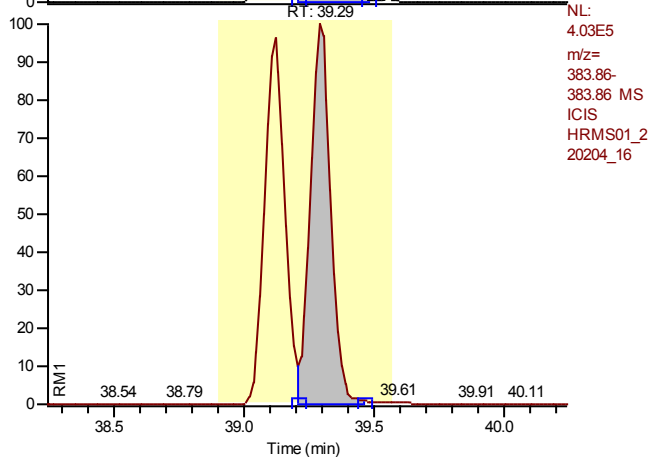
Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G



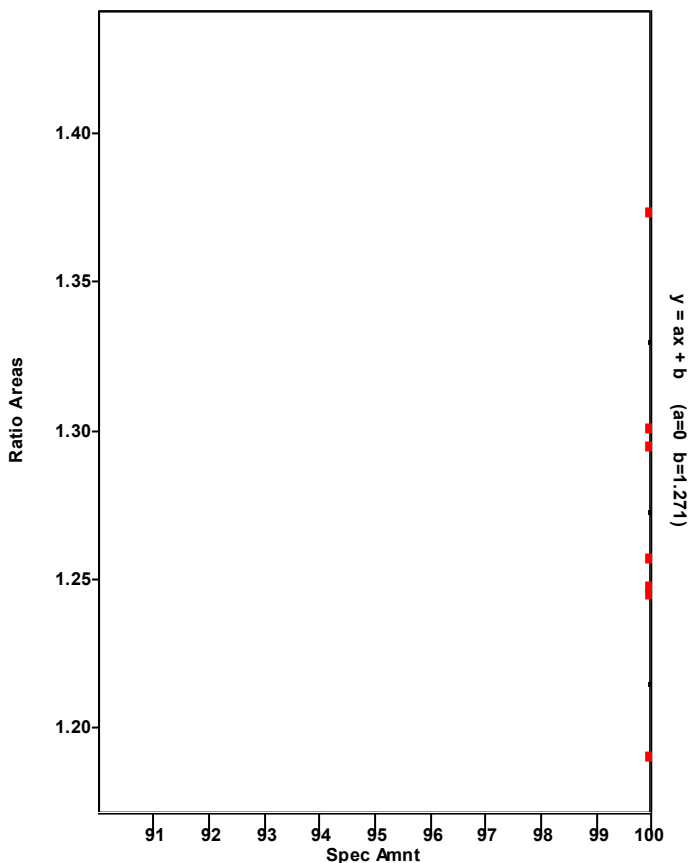
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	4188608
RM1 Area	2205883
RM1 Ratio (A)	0.5266
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

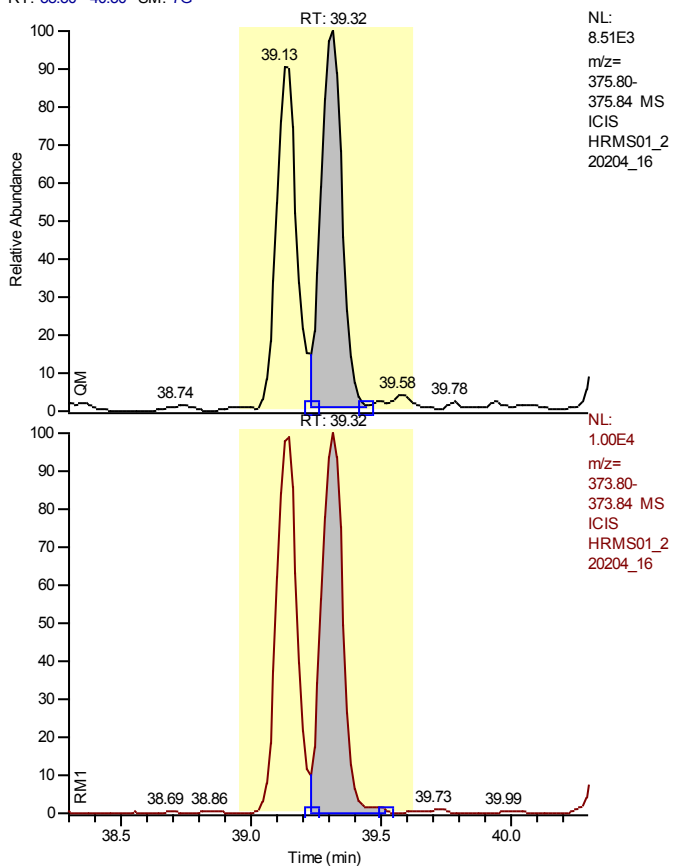
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.30 - 40.30 SM: 7G

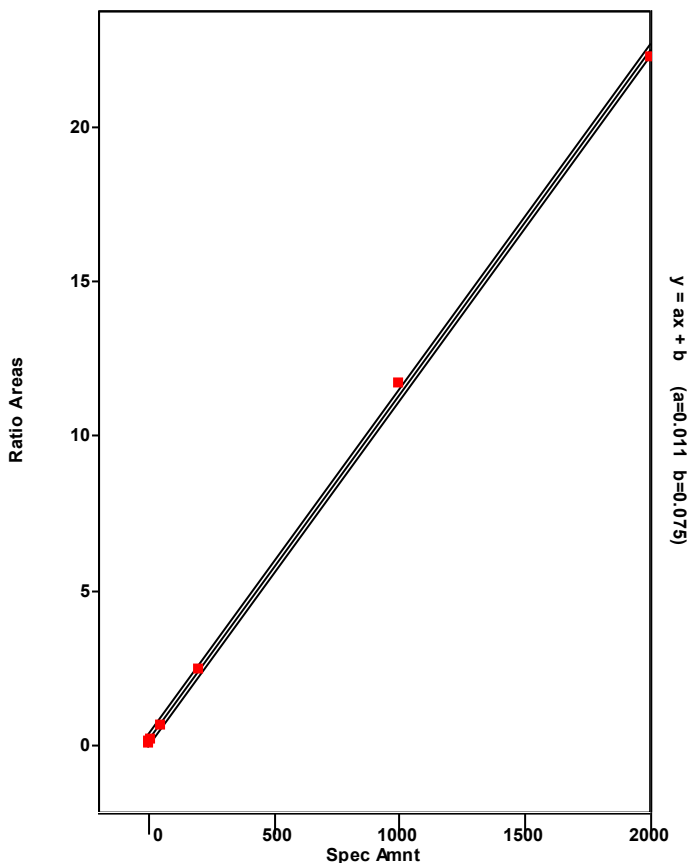


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	46812
RM1 Area	55885
RM1 Ratio (A)	1.1938
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

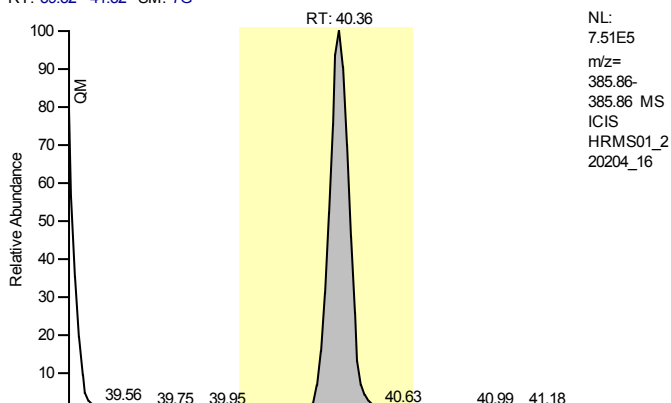
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

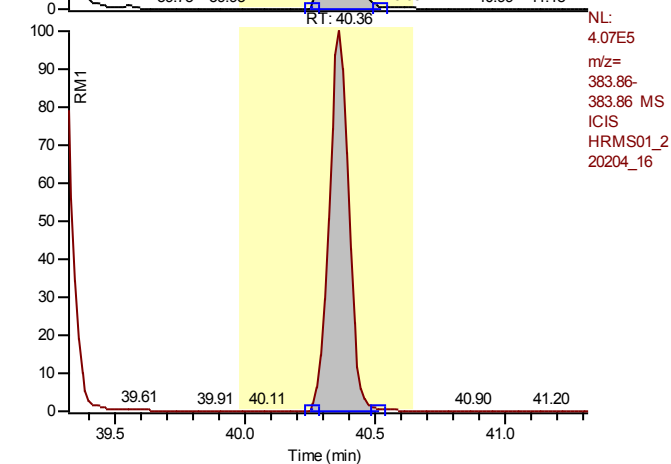
Entry Parameters

RT: 39.32 - 41.32 SM: 7G



NL:
 7.51E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	4096655
RM1 Area	2148287
RM1 Ratio (A)	0.5244
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

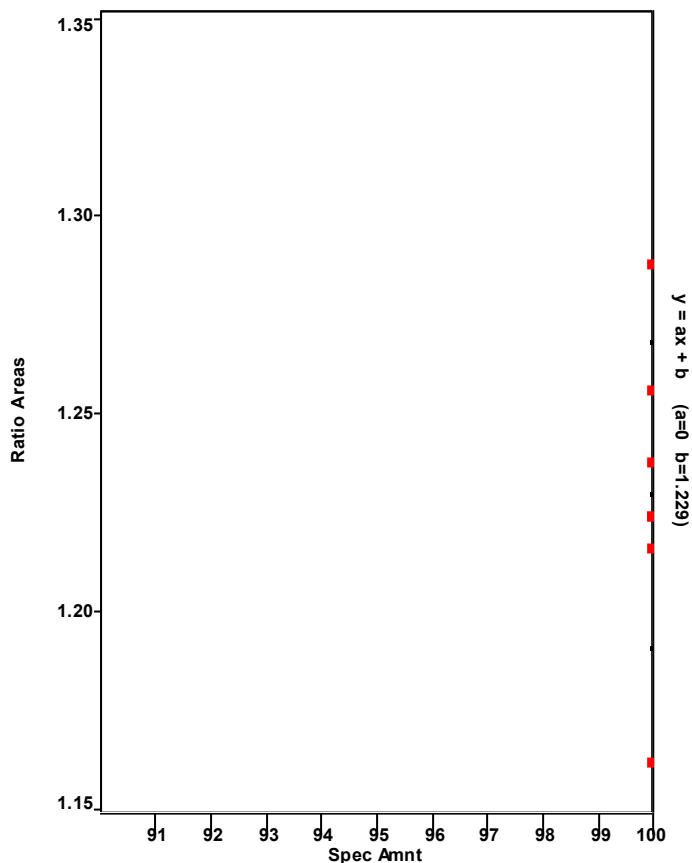


NL:
 4.07E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_16

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

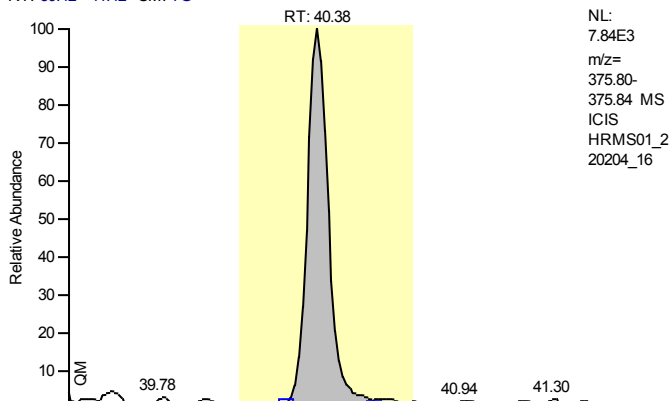
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

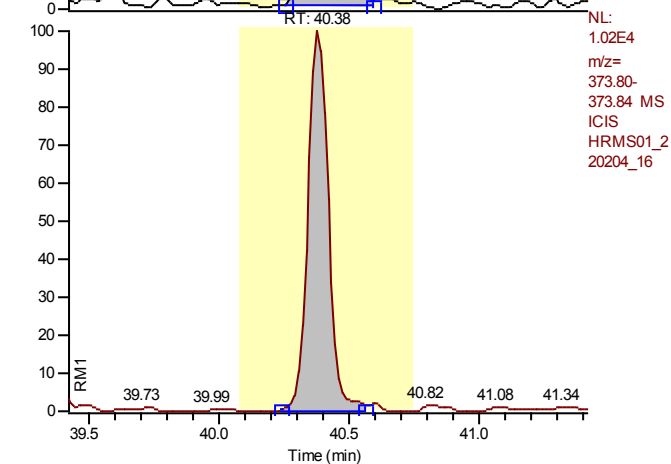
Entry Parameters

RT: 39.42 - 41.42 SM: 7G



NL:
 7.84E3
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_16

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	44370
RM1 Area	55340
RM1 Ratio (A)	1.2473
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

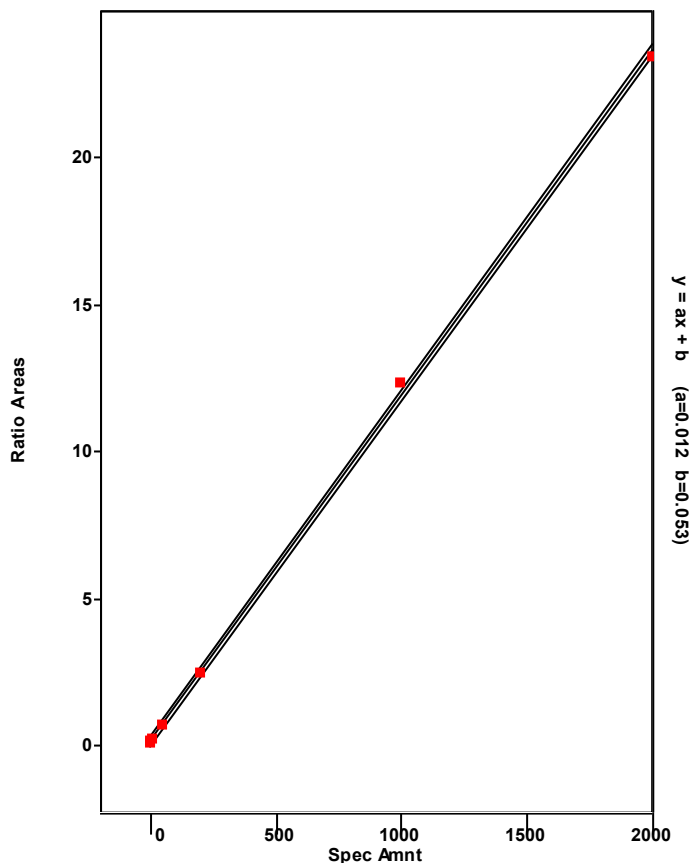


NL:
 1.02E4
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_16

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

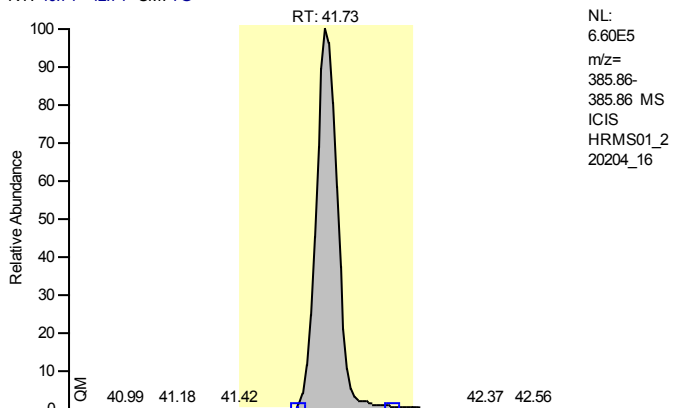
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



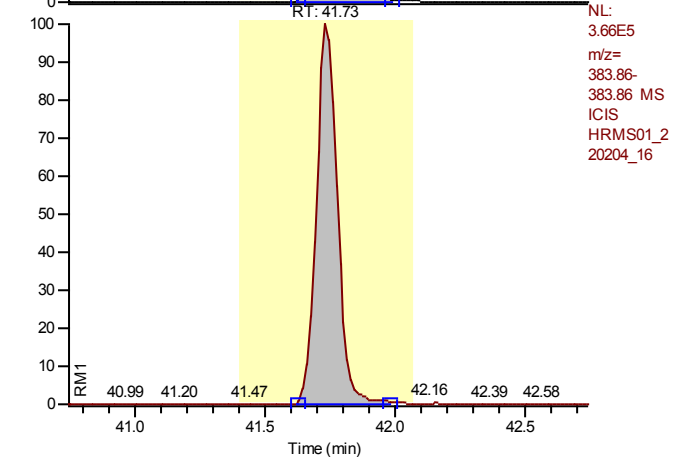
Chromatogram

Entry Parameters

RT: 40.74 - 42.74 SM: 7G



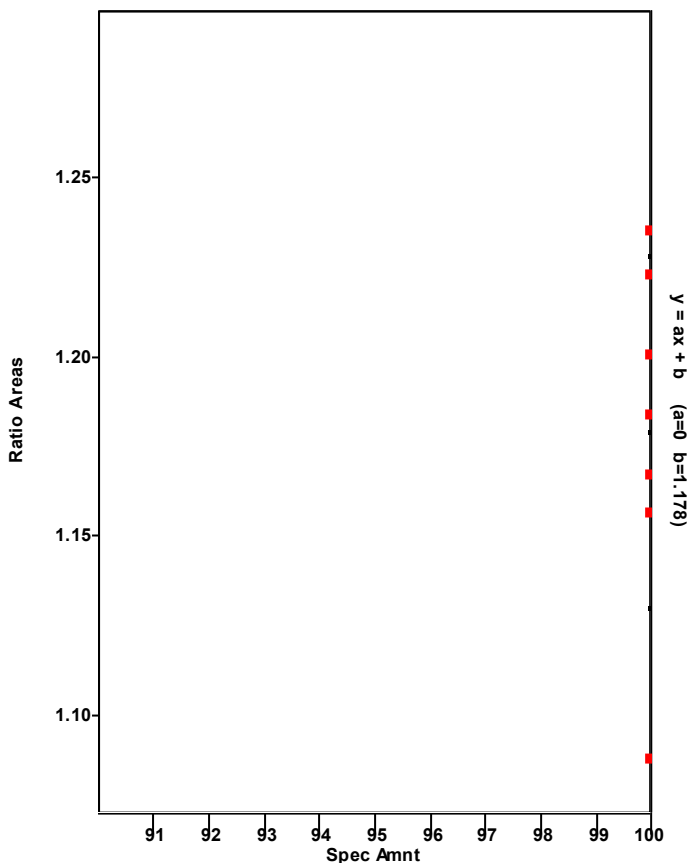
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	3781174
RM1 Area	2066938
RM1 Ratio (A)	0.5466
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

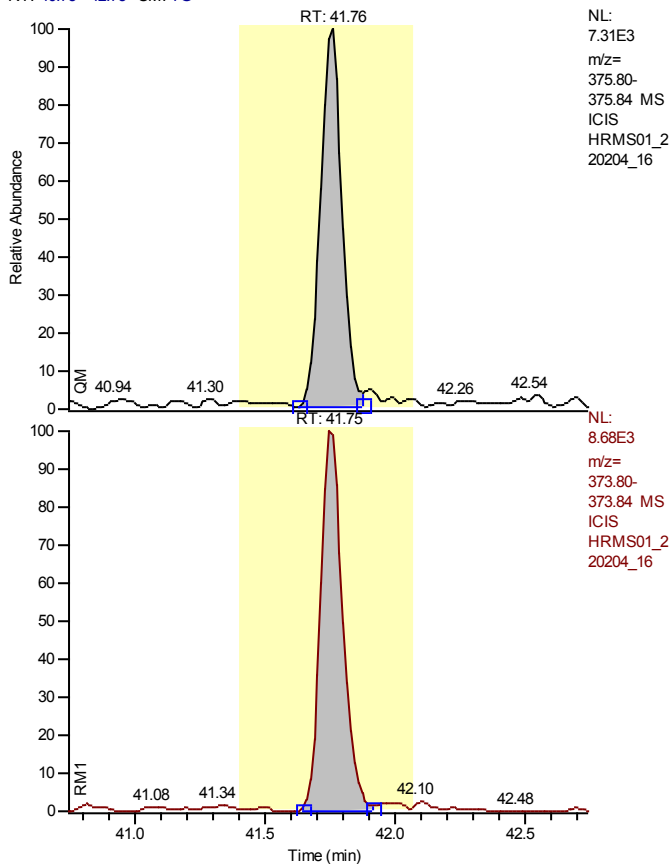
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.75-42.75 SM: 7G

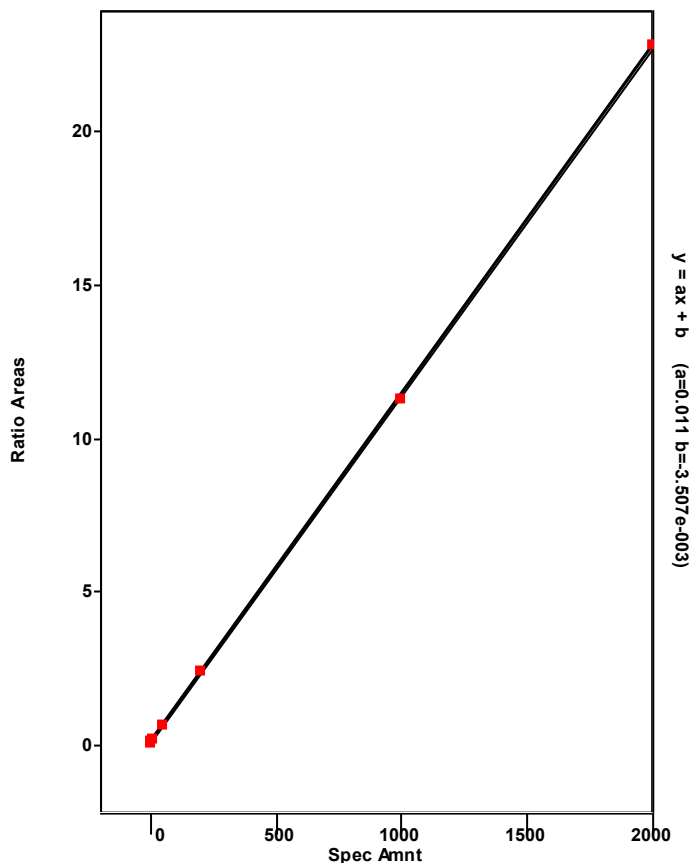


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	41204
RM1 Area	50763
RM1 Ratio (A)	1.2320
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

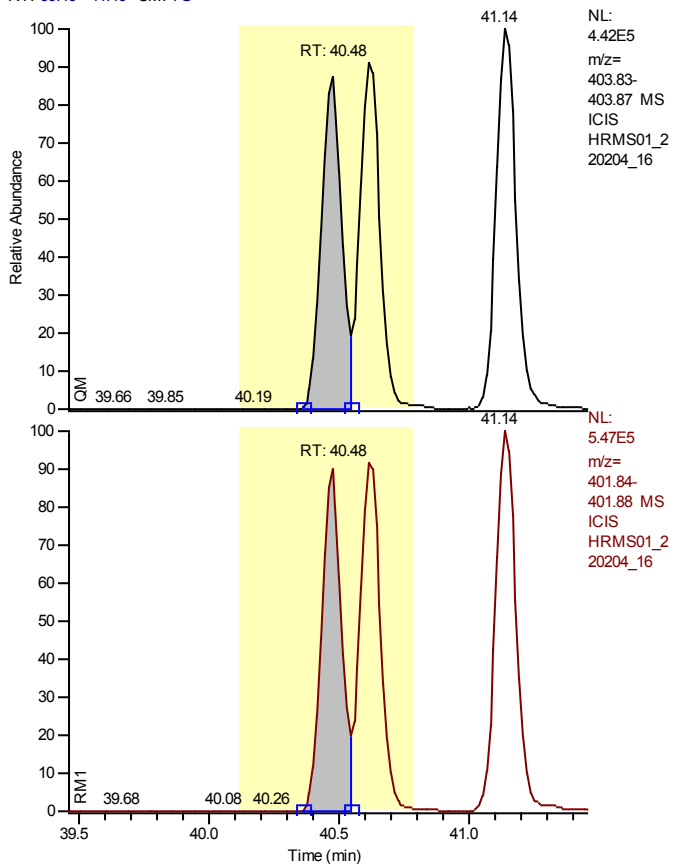
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

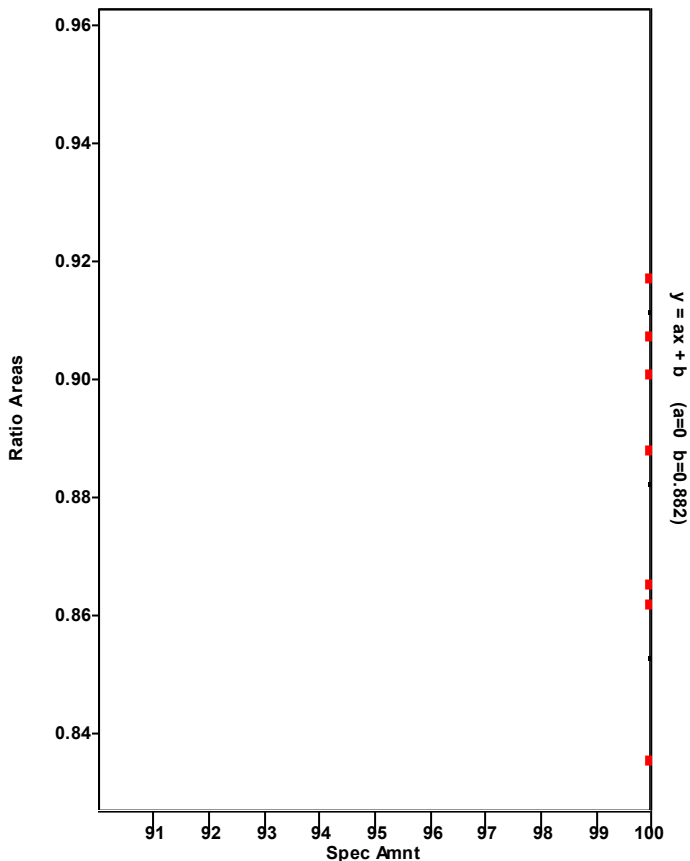
RT: 39.46 - 41.46 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2085981
RM1 Area	2563734
RM1 Ratio (A)	1.2290
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

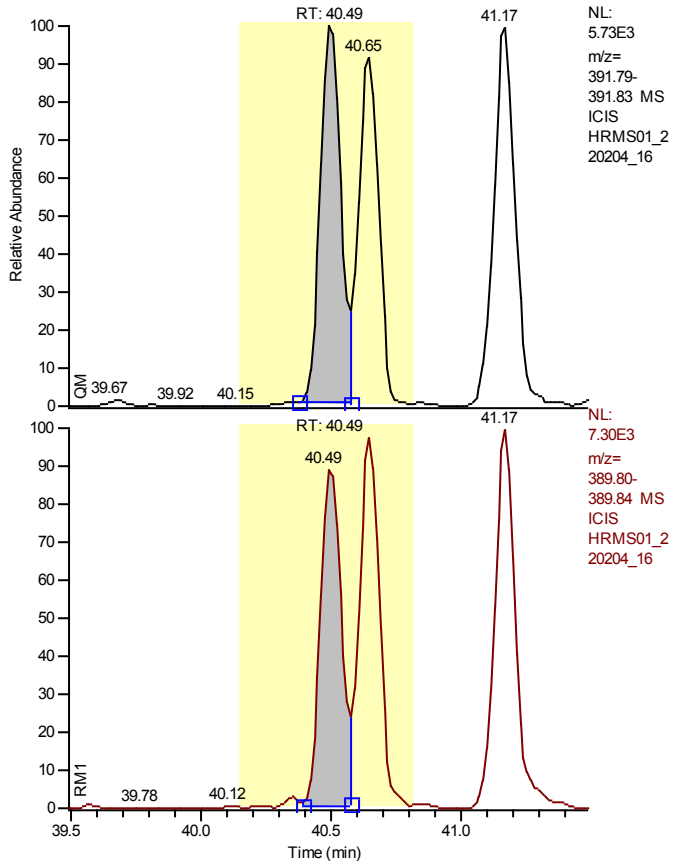
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G

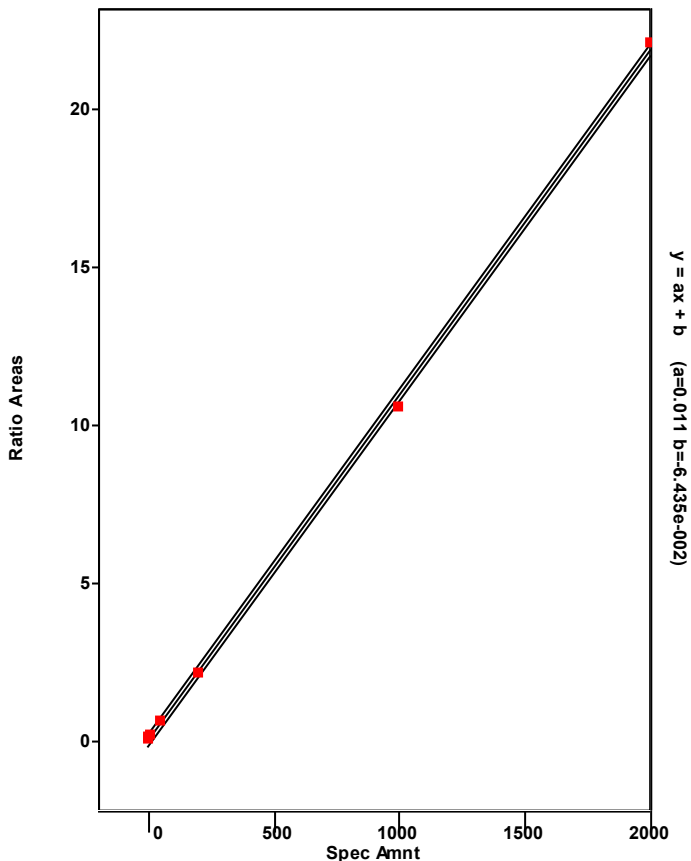


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	30746
RM1 Area	35718
RM1 Ratio (A)	1.1617
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

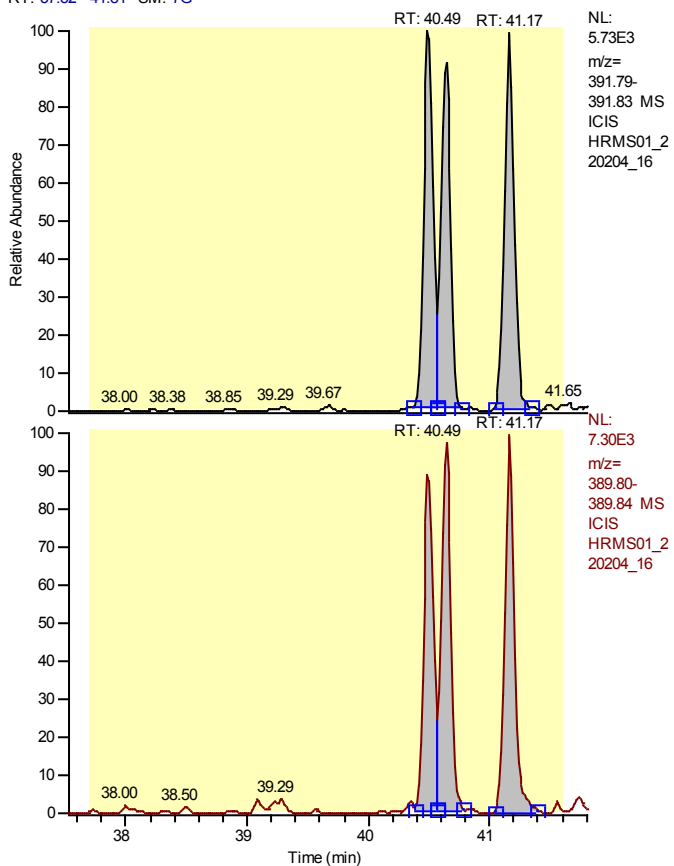
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.52 - 41.81 SM: 7G

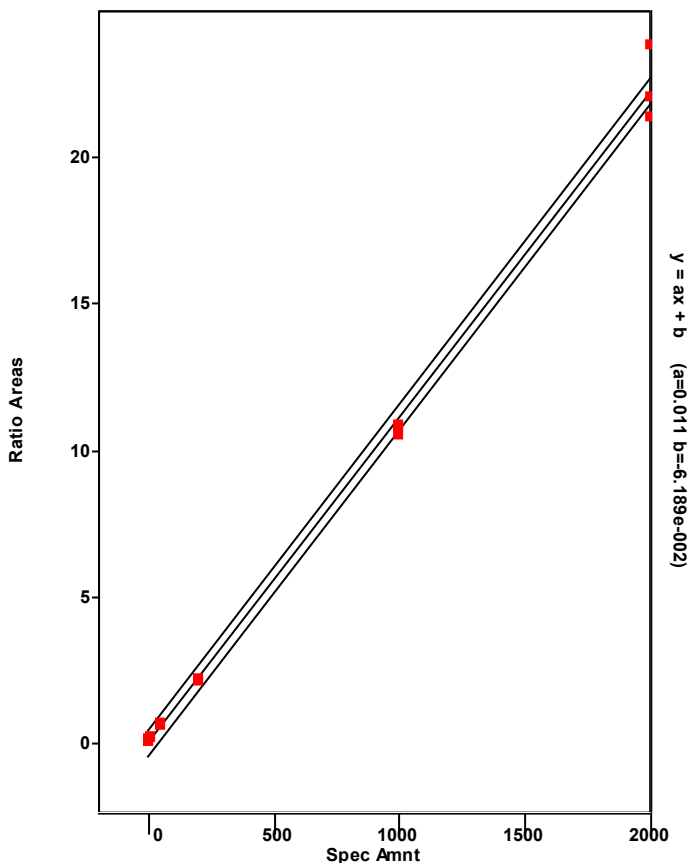


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	90551
RM1 Area	113371
RM1 Ratio (A)	1.2520
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	3.75
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

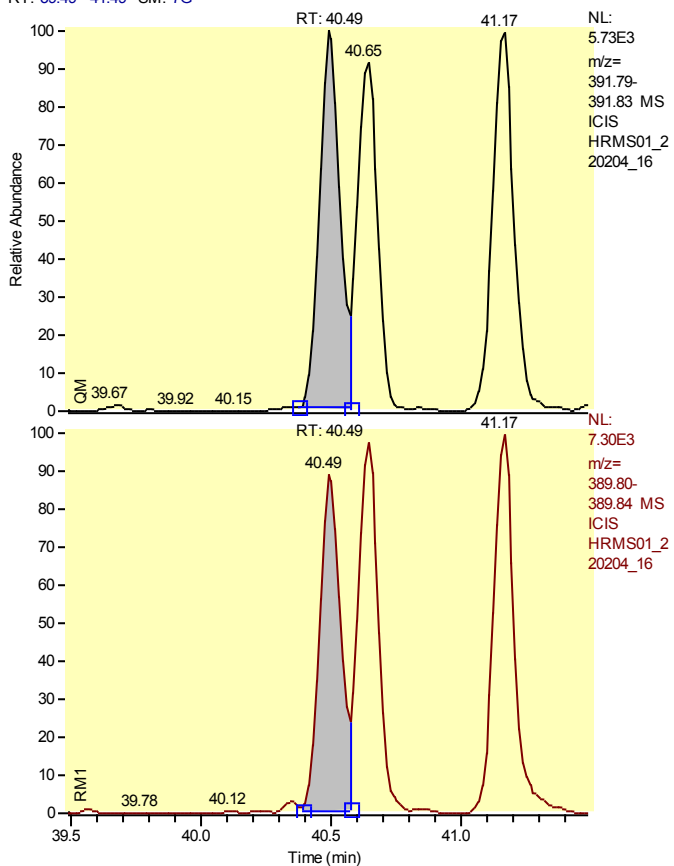
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G

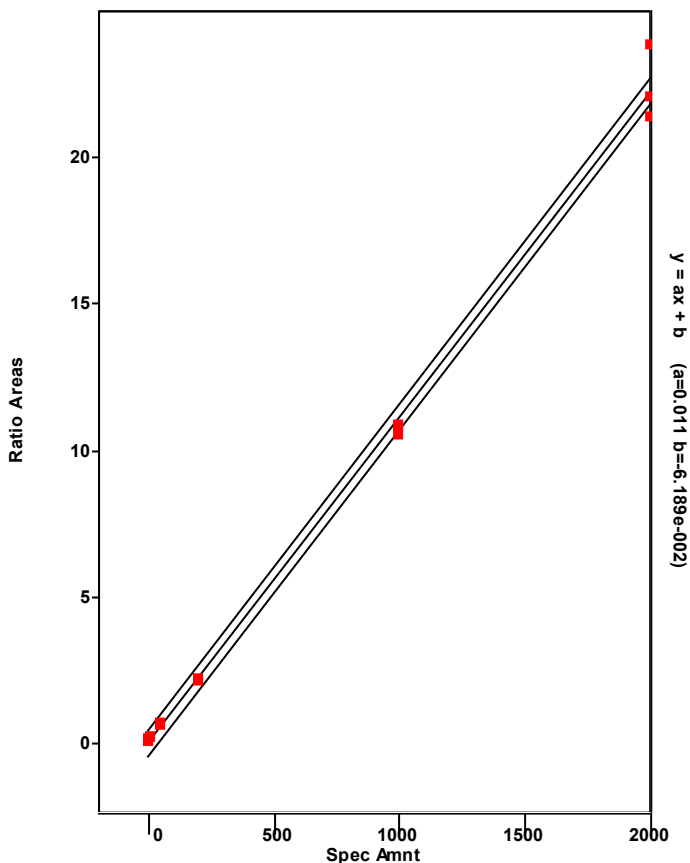


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	30746
RM1 Area	35718
RM1 Ratio (A)	1.1617
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

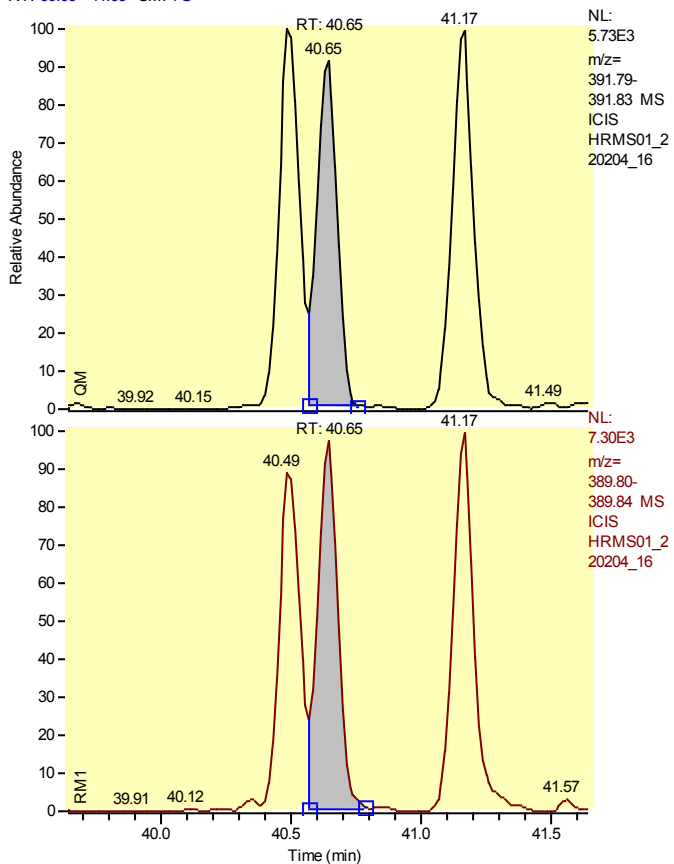
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G

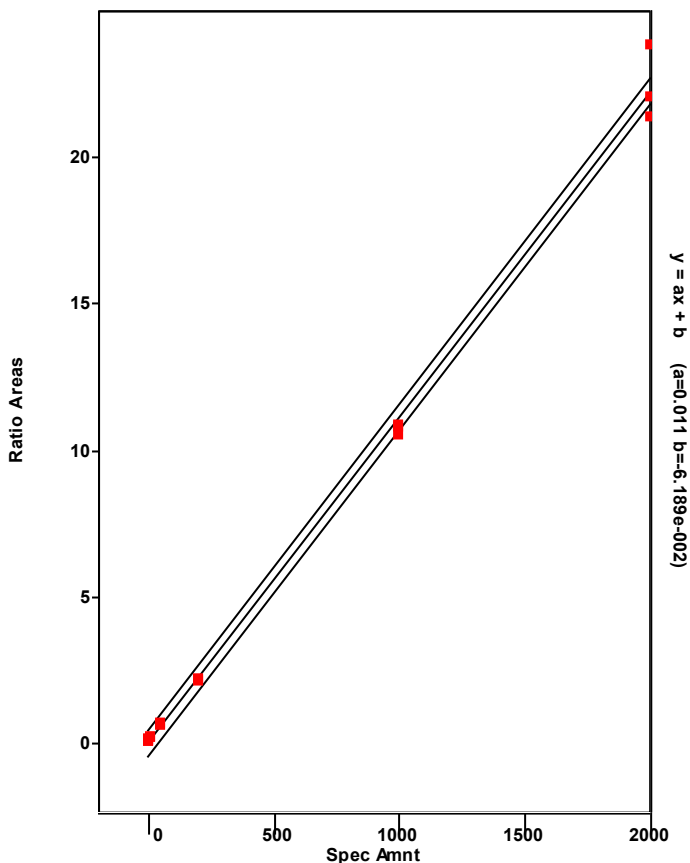


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	27818
RM1 Area	37685
RM1 Ratio (A)	1.3547
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

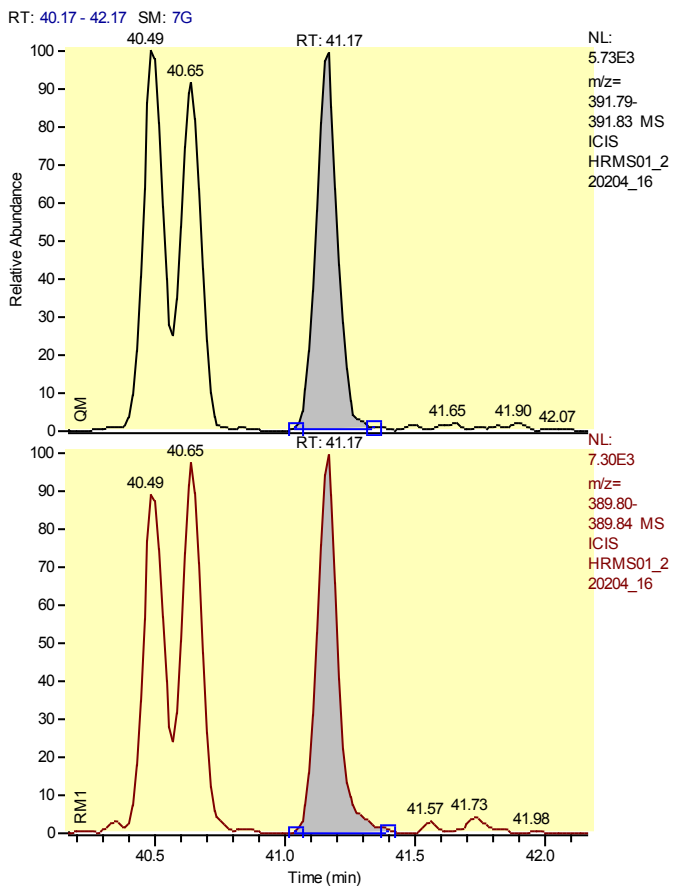
Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

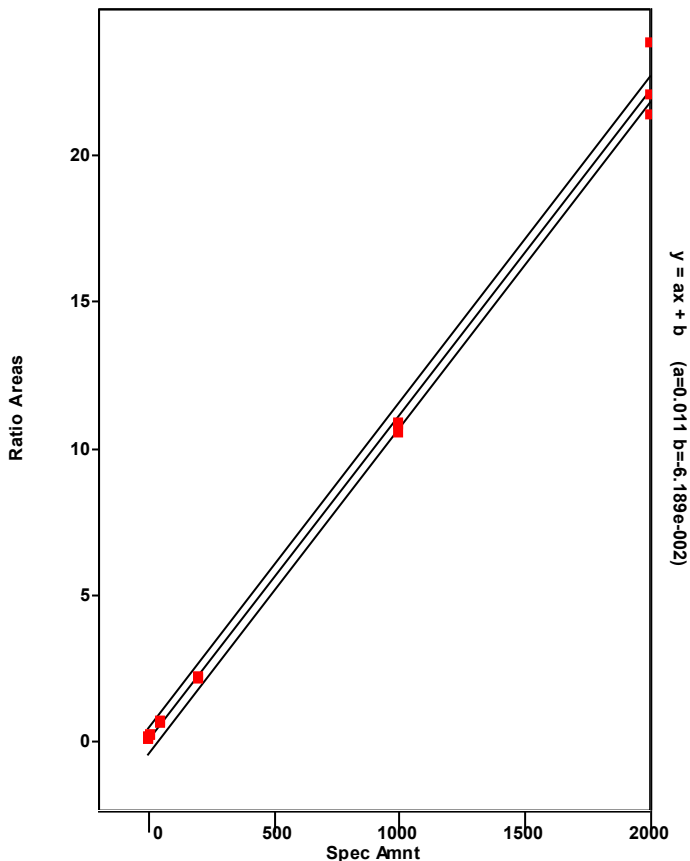


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	31986
RM1 Area	39968
RM1 Ratio (A)	1.2496
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

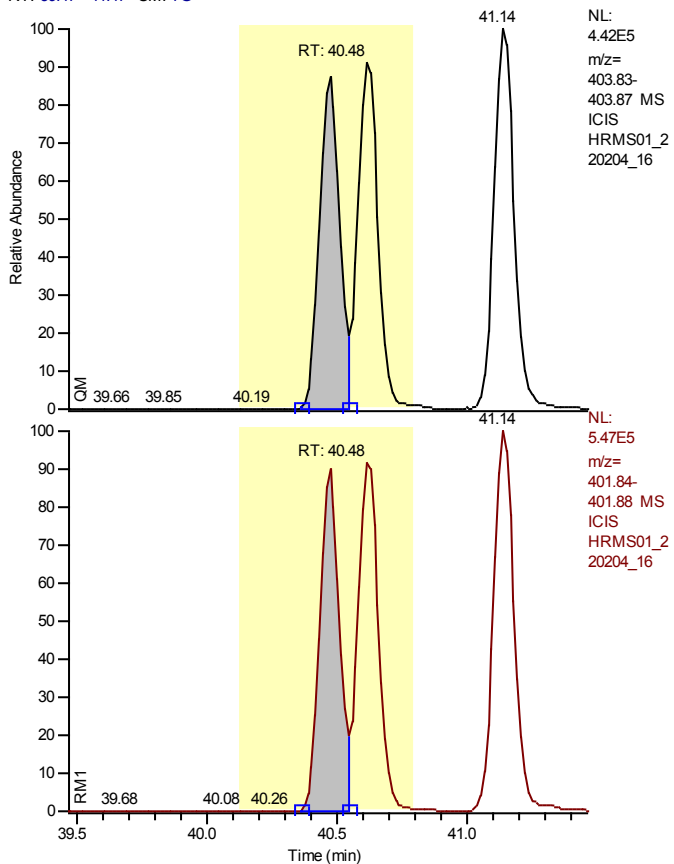
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

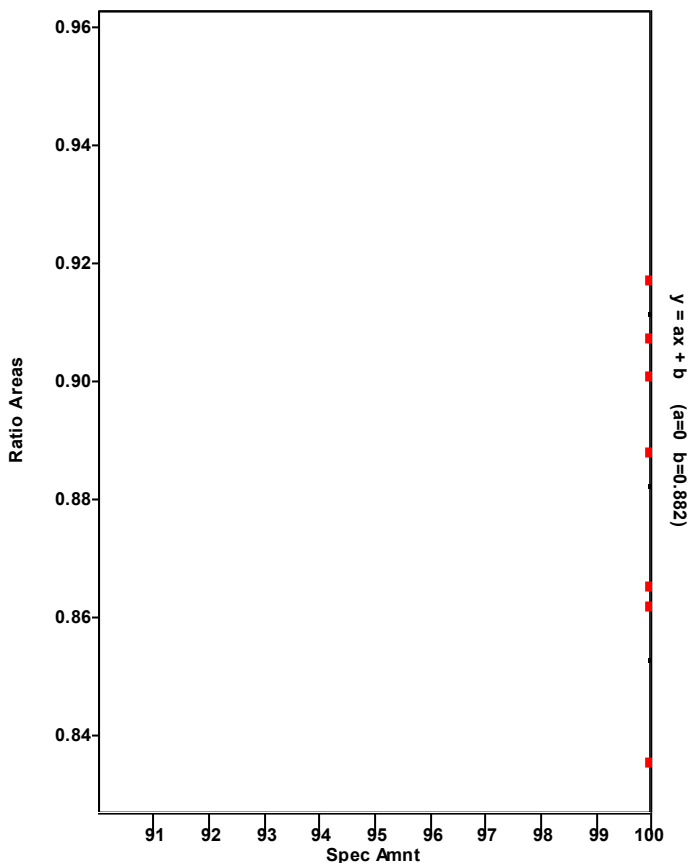
RT: 39.47 - 41.47 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2085981
RM1 Area	2563734
RM1 Ratio (A)	1.2290
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

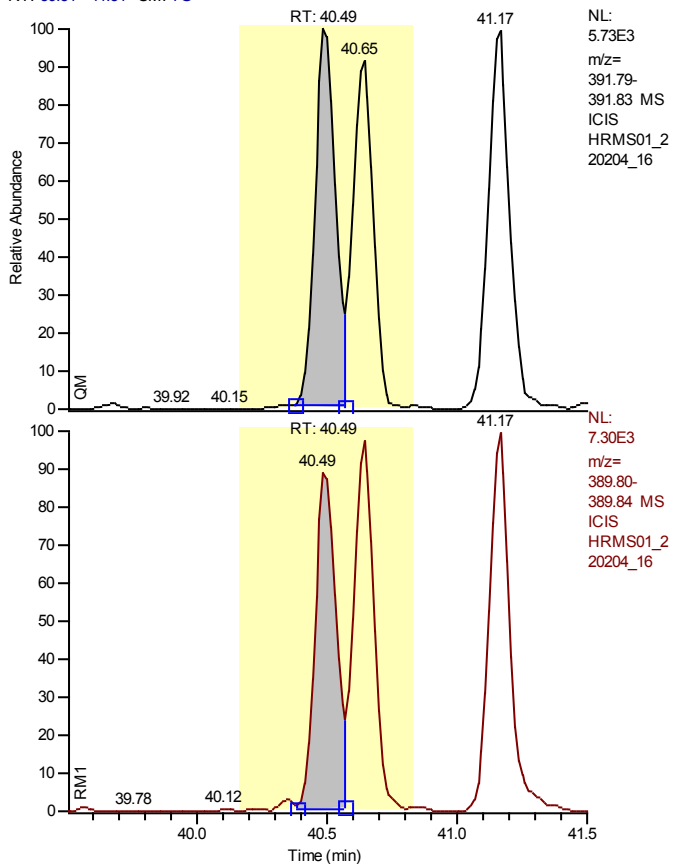
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.51 - 41.51 SM: 7G

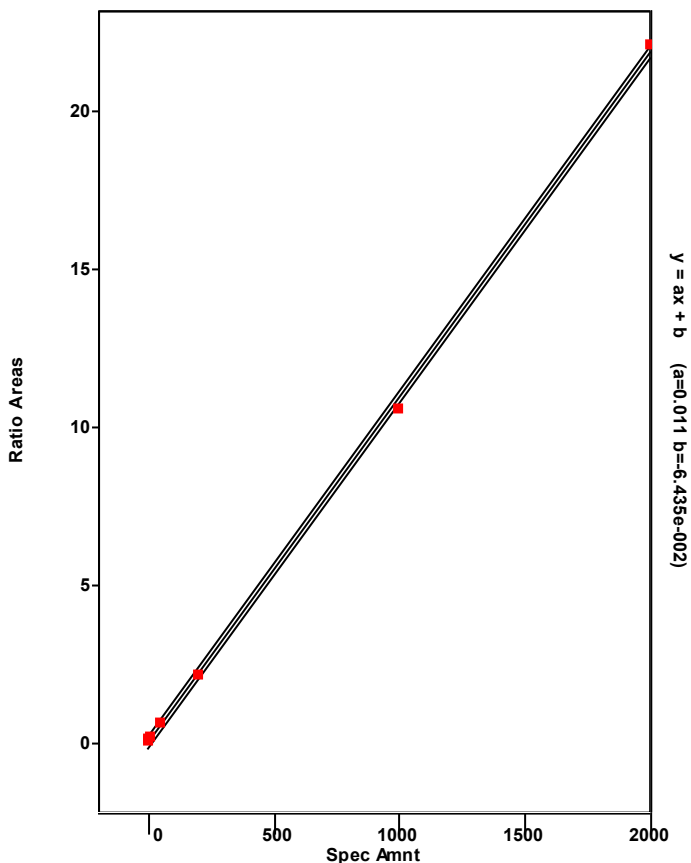


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	30746
RM1 Area	35718
RM1 Ratio (A)	1.1617
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

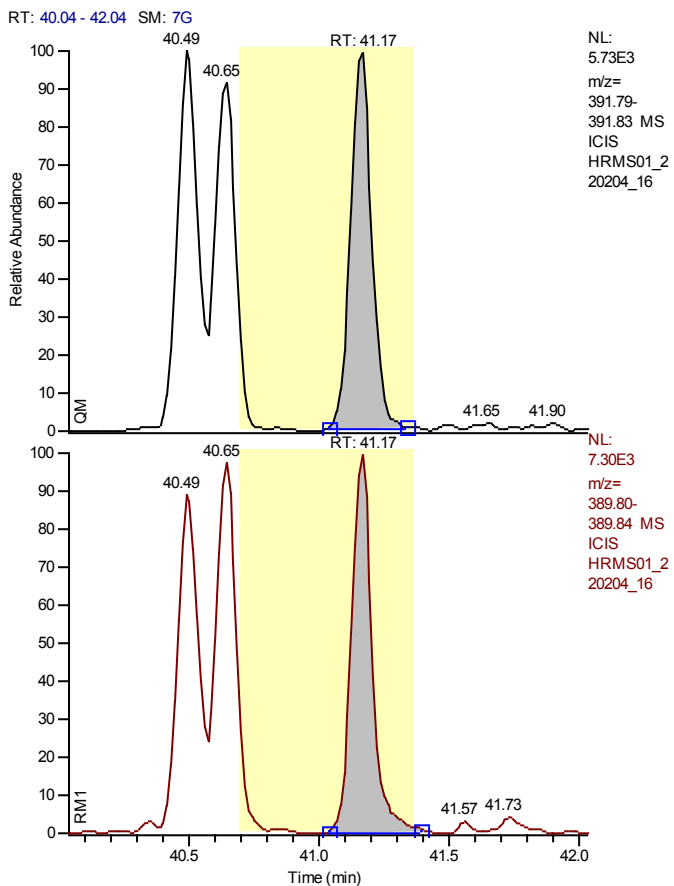
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

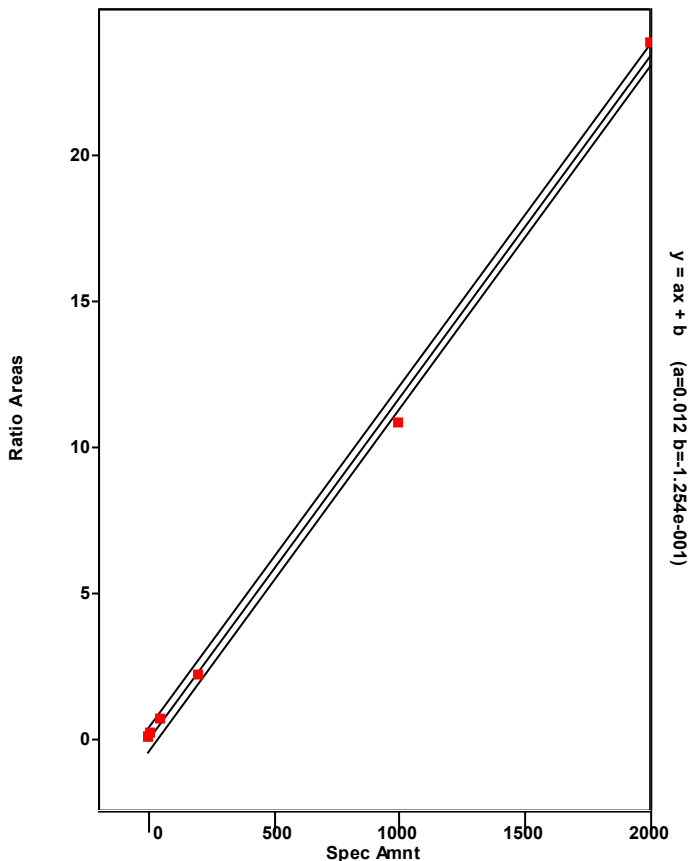


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	31986
RM1 Area	39968
RM1 Ratio (A)	1.2496
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

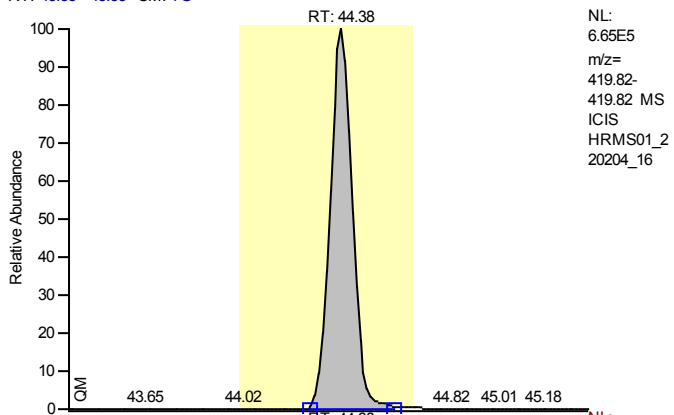
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



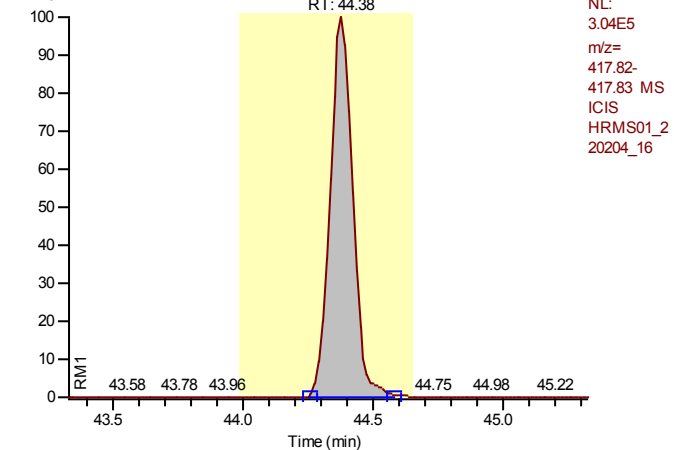
Chromatogram

Entry Parameters

RT: 43.33 - 45.33 SM: 7G

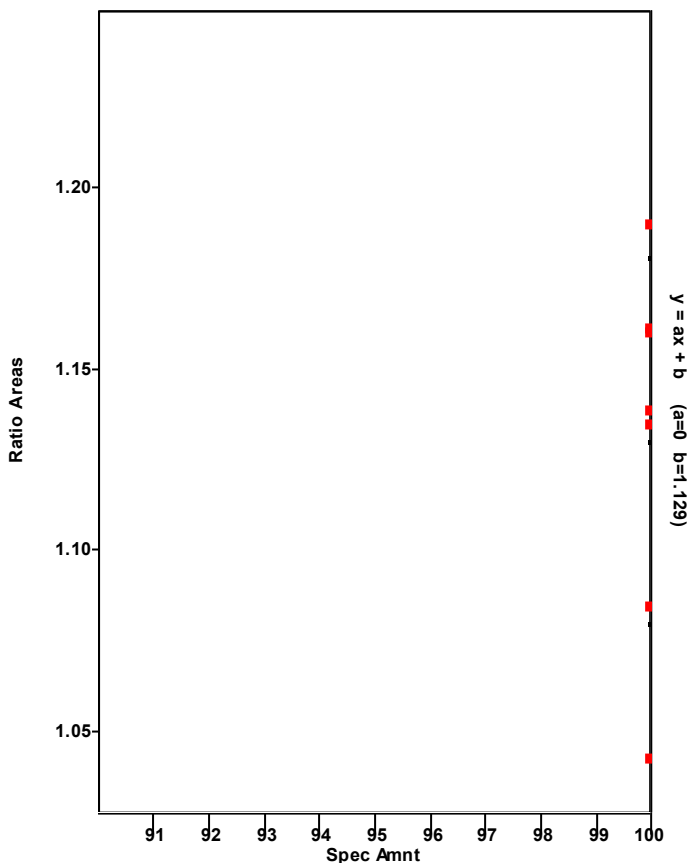


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	3977367
RM1 Area	1849614
RM1 Ratio (A)	0.4650
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

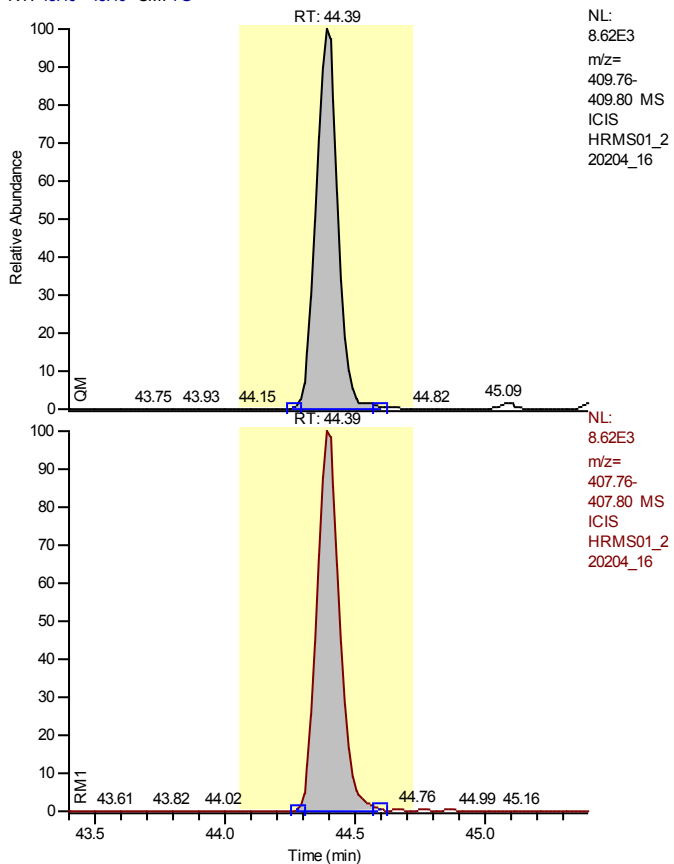
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.40 - 45.40 SM: 7G

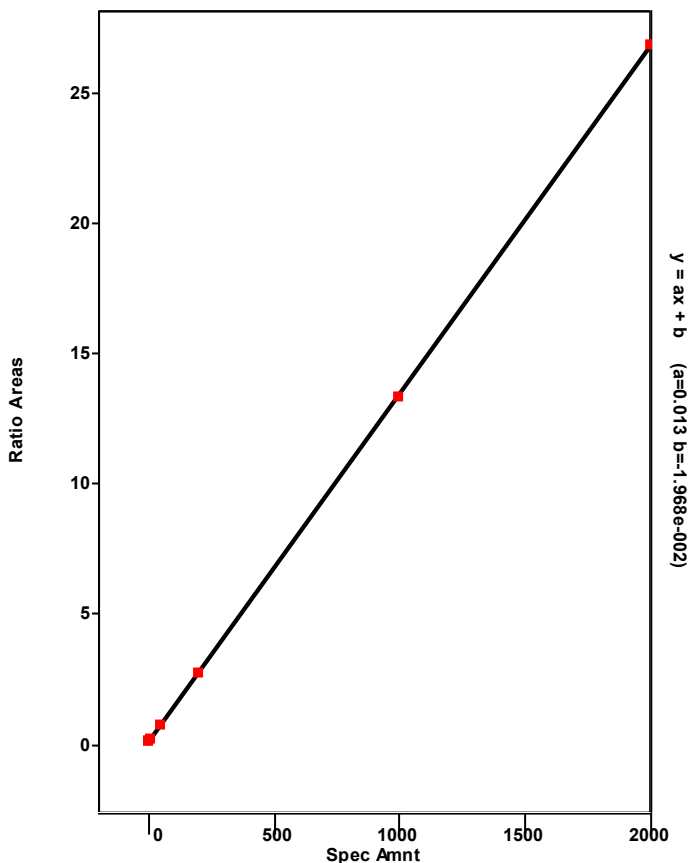


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	50267
RM1 Area	51863
RM1 Ratio (A)	1.0318
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

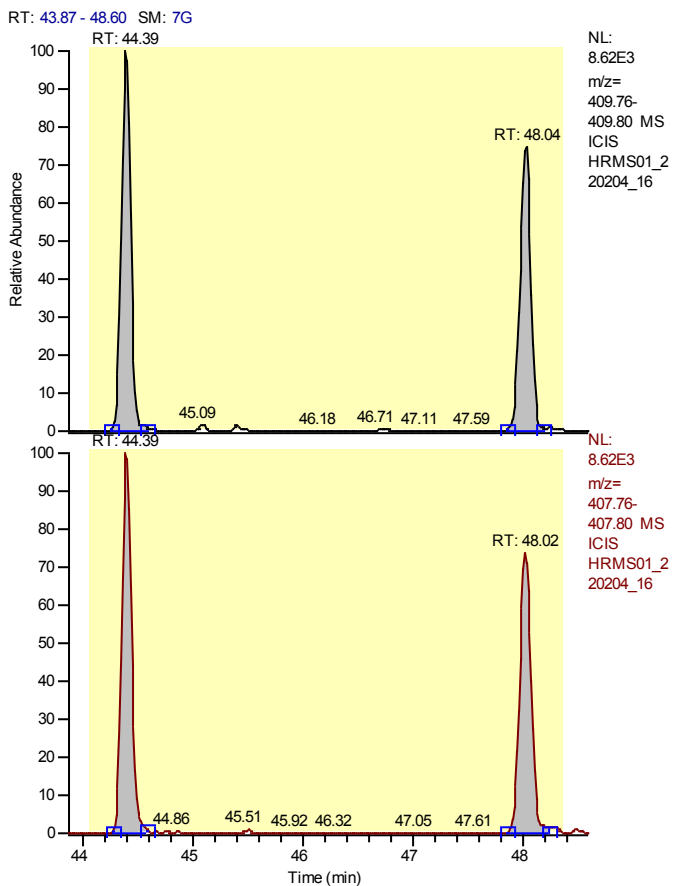
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

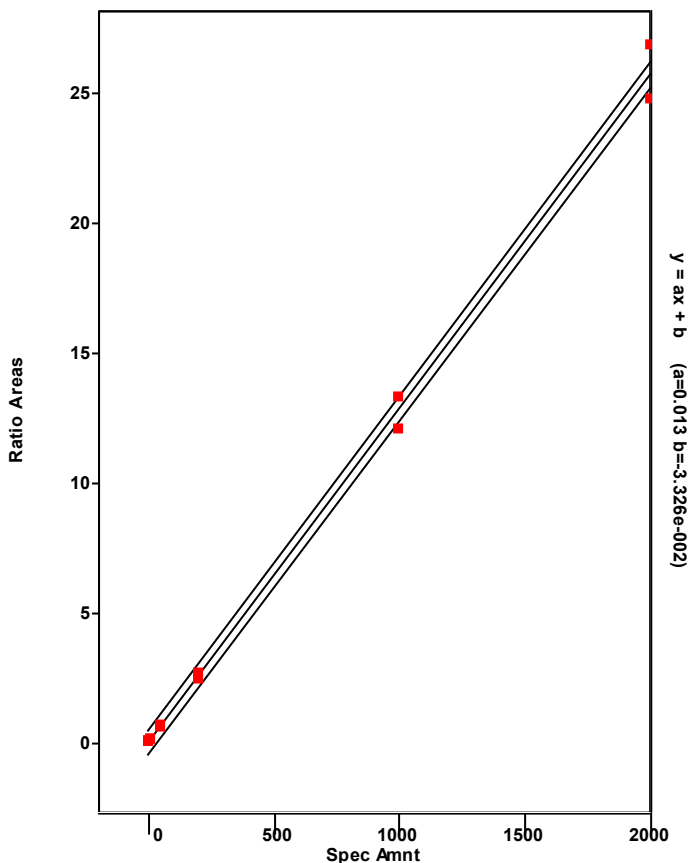


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	93952
RM1 Area	98032
RM1 Ratio (A)	1.0434
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	2.50
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

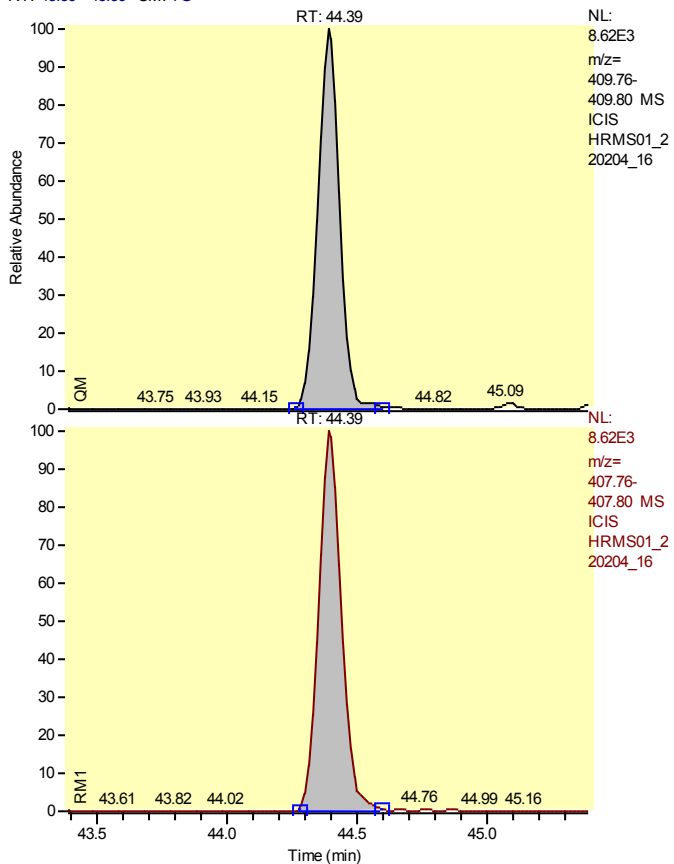
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.39 - 45.39 SM: 7G

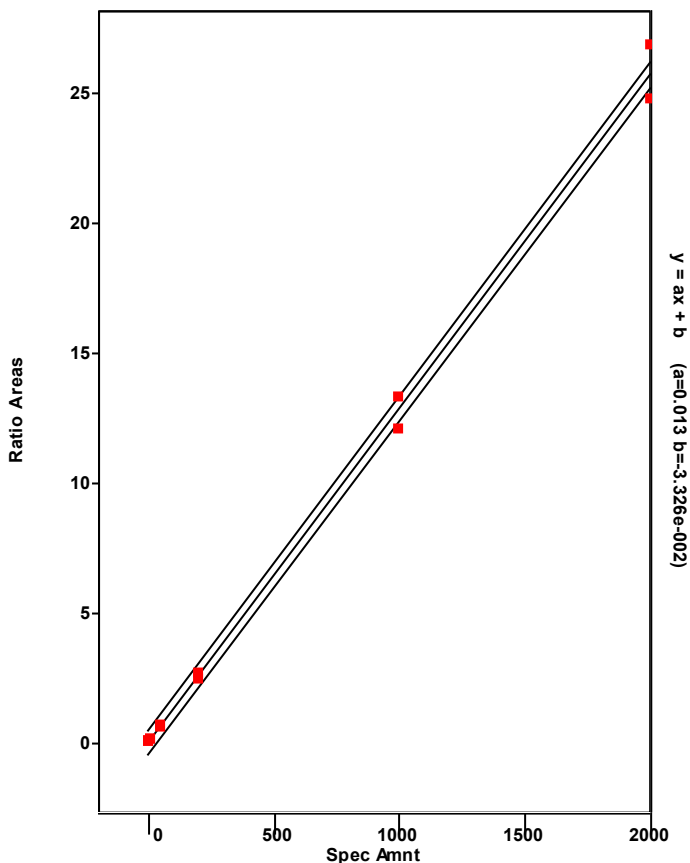


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	50267
RM1 Area	51863
RM1 Ratio (A)	1.0318
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

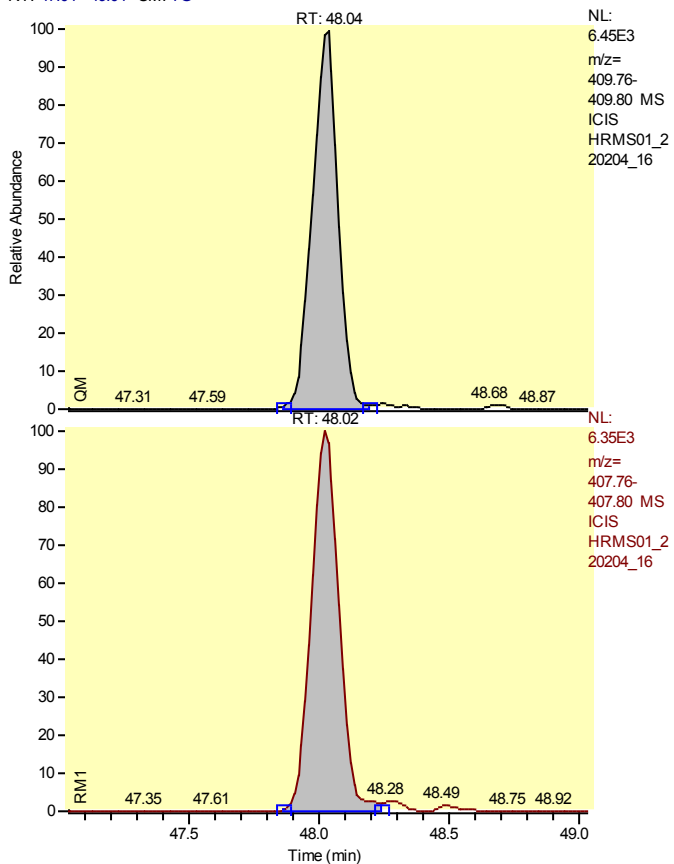
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 47.04 - 49.04 SM: 7G

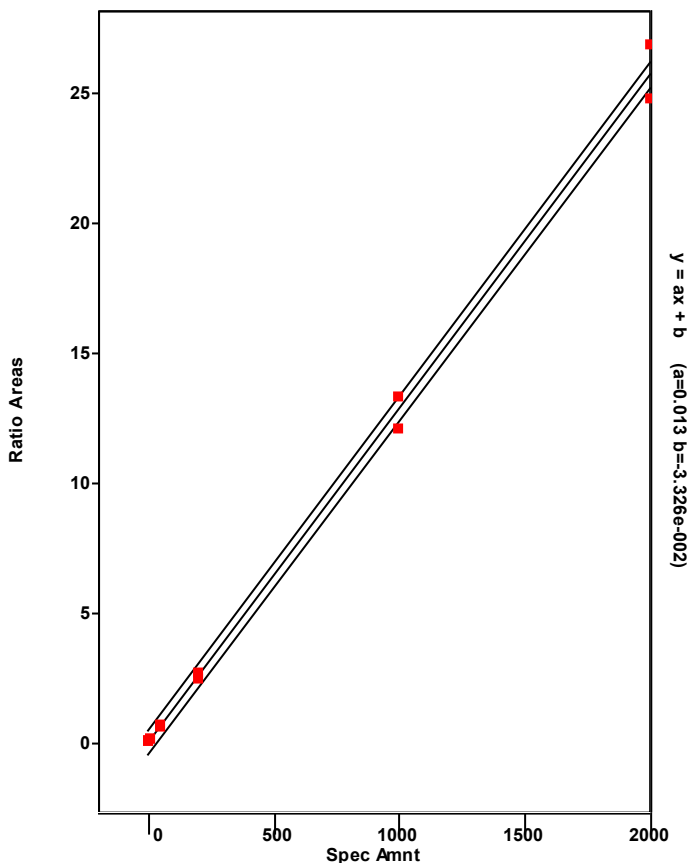


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	43686
RM1 Area	46169
RM1 Ratio (A)	1.0568
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

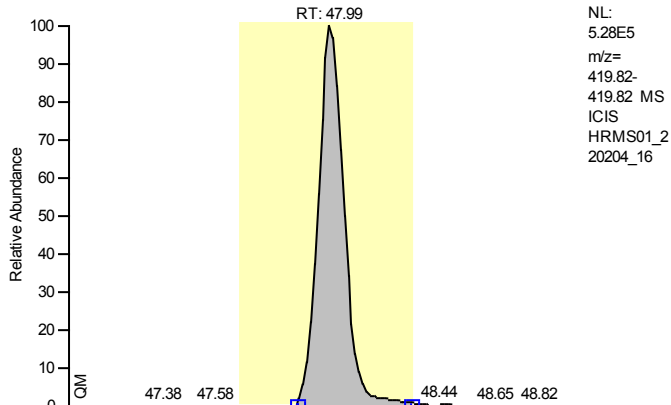
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



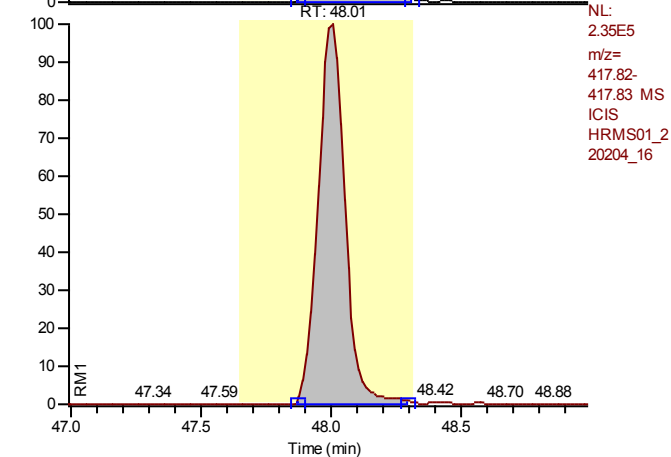
Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G

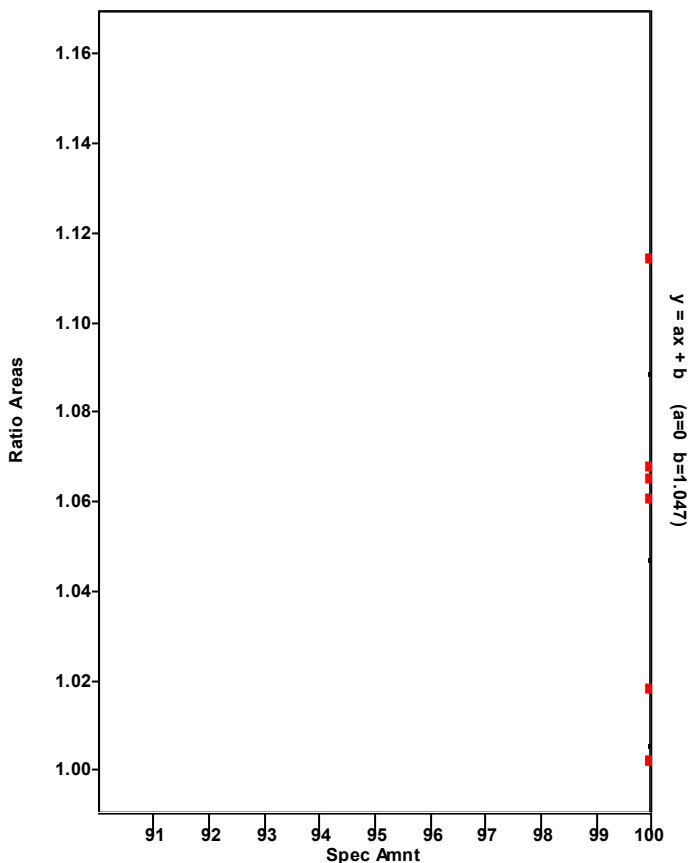


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	3688635
RM1 Area	1697085
RM1 Ratio (A)	0.4601
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

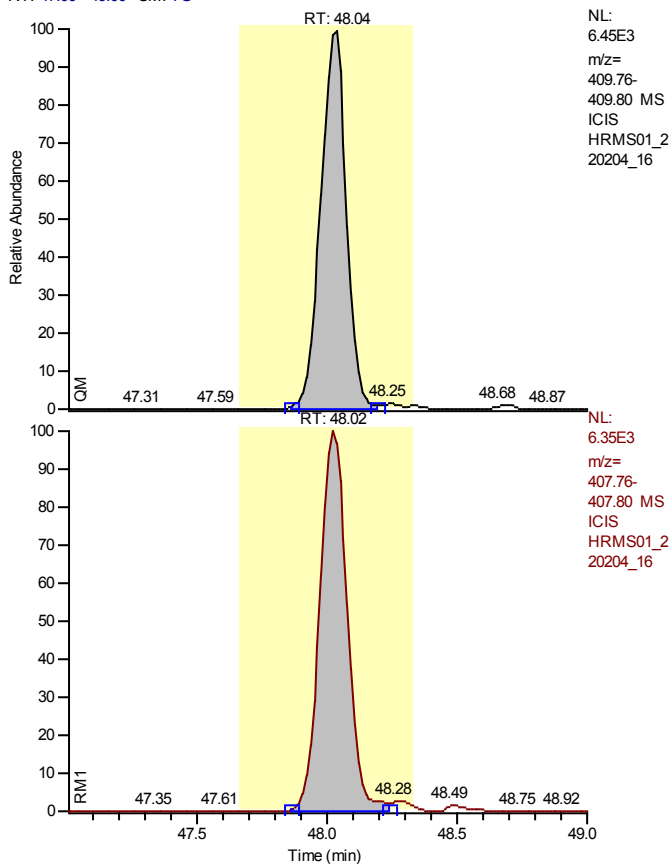
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.00 - 49.00 SM: 7G

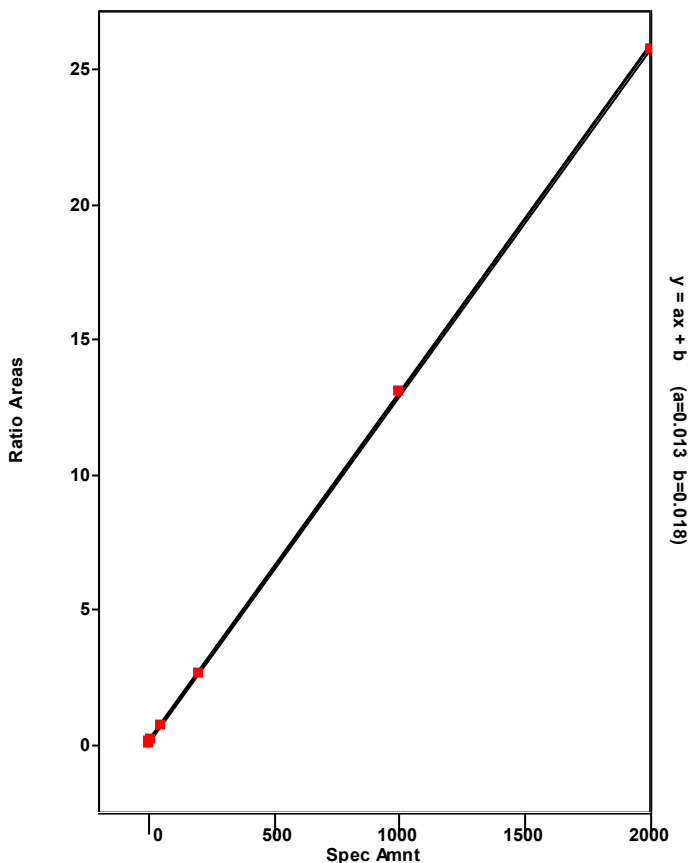


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	43686
RM1 Area	46169
RM1 Ratio (A)	1.0568
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

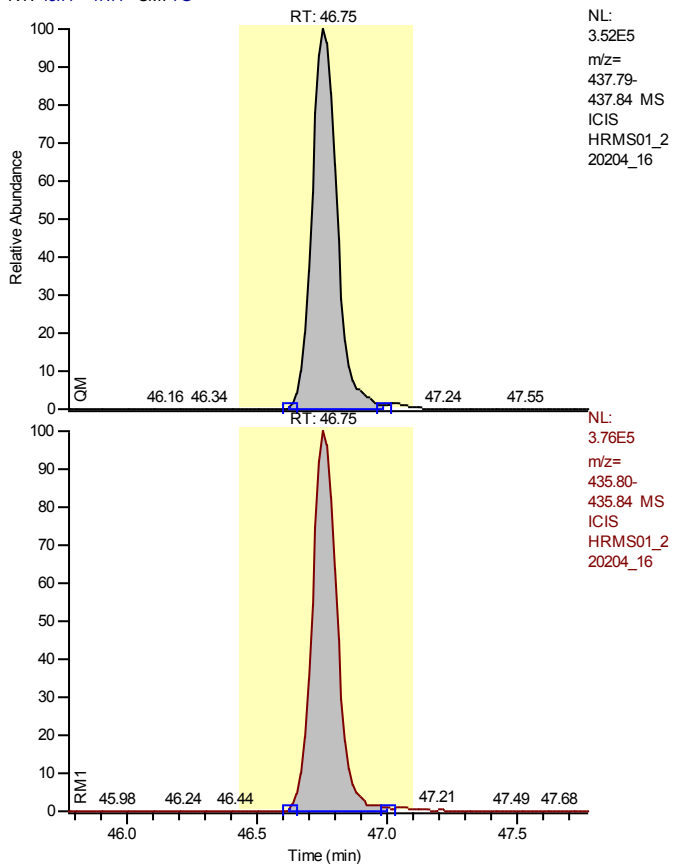
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.77 - 47.77 SM: 7G



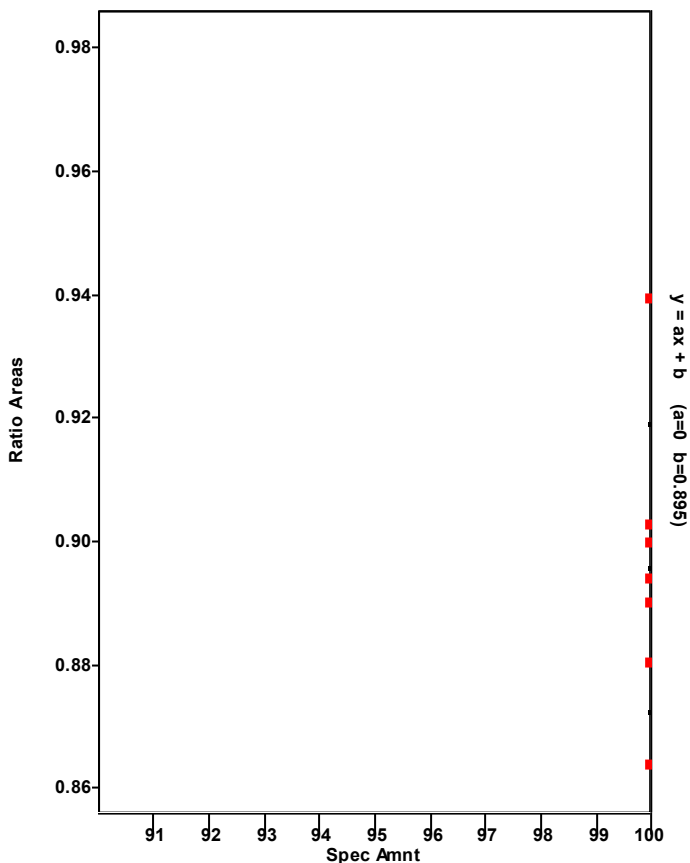
NL:
3.52E5
m/z=
437.79-
437.84 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2355206
RM1 Area	2481415
RM1 Ratio (A)	1.0536
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
3.76E5
m/z=
435.80-
435.84 MS
ICIS
HRMS01_2
20204_16

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

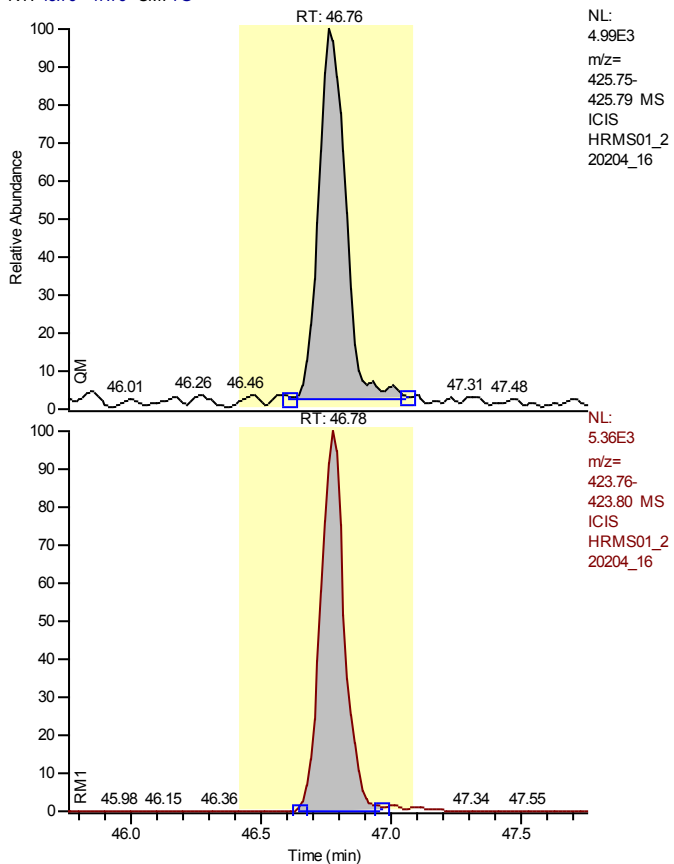
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.76 - 47.76 SM: 7G

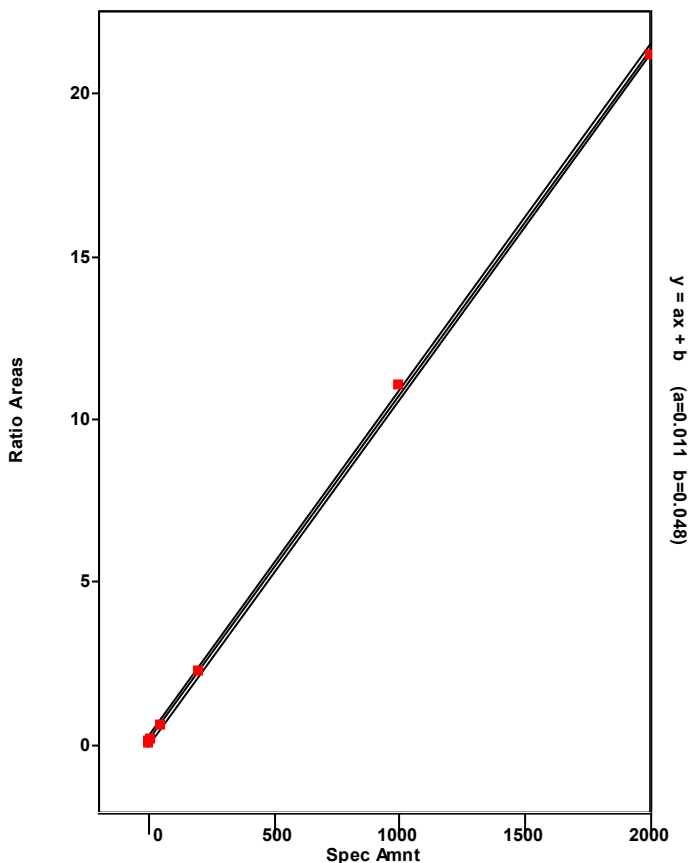


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	34376
RM1 Area	33589
RM1 Ratio (A)	0.9771
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

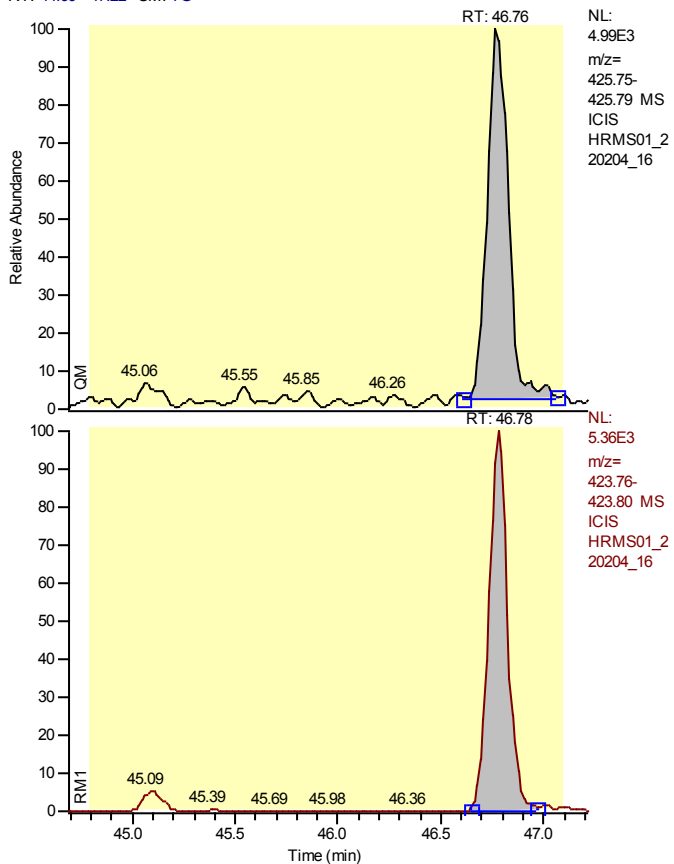
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.69 - 47.22 SM: 7G

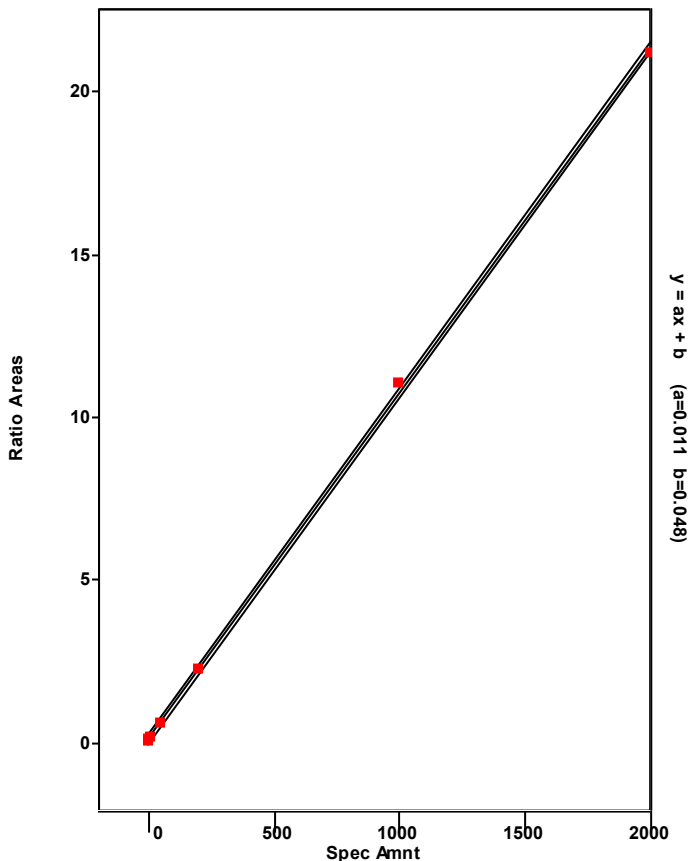


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	34376
RM1 Area	33589
RM1 Ratio (A)	0.9771
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

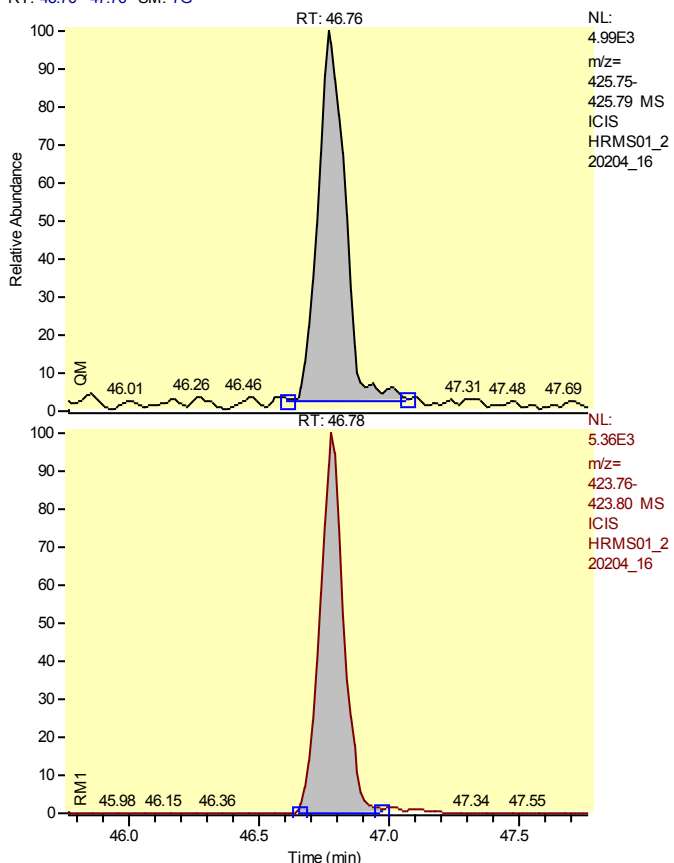
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.76 - 47.76 SM: 7G

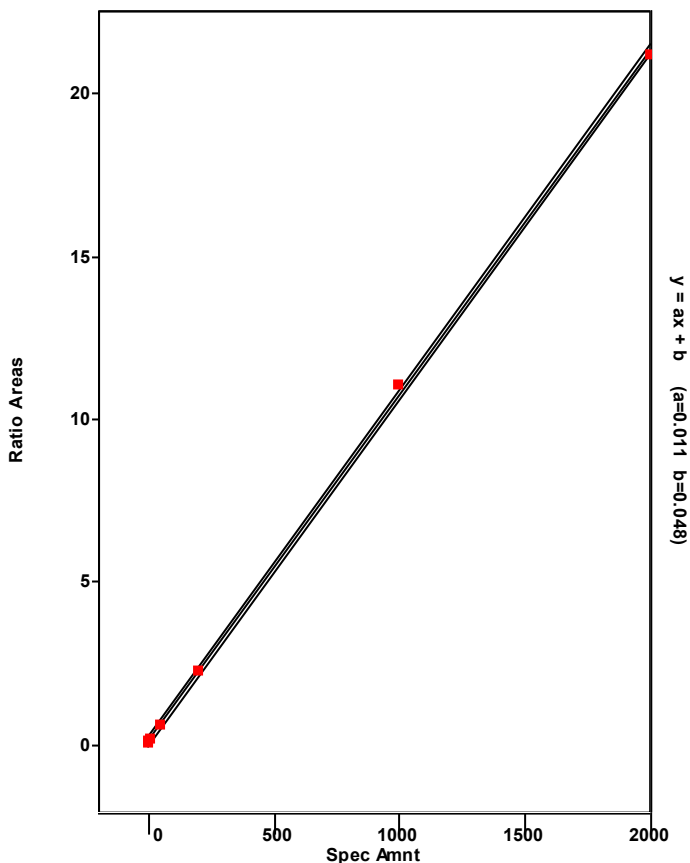


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	34376
RM1 Area	33589
RM1 Ratio (A)	0.9771
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

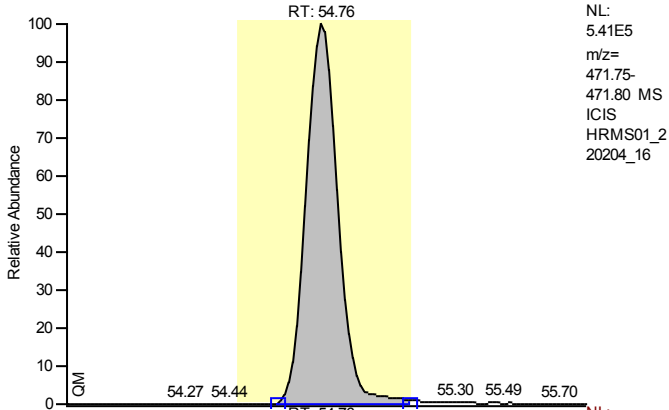
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



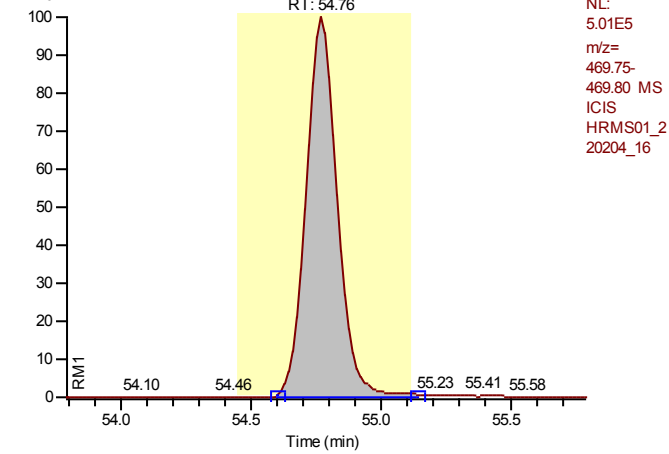
Chromatogram

Entry Parameters

RT: 53.79 - 55.79 SM: 7G



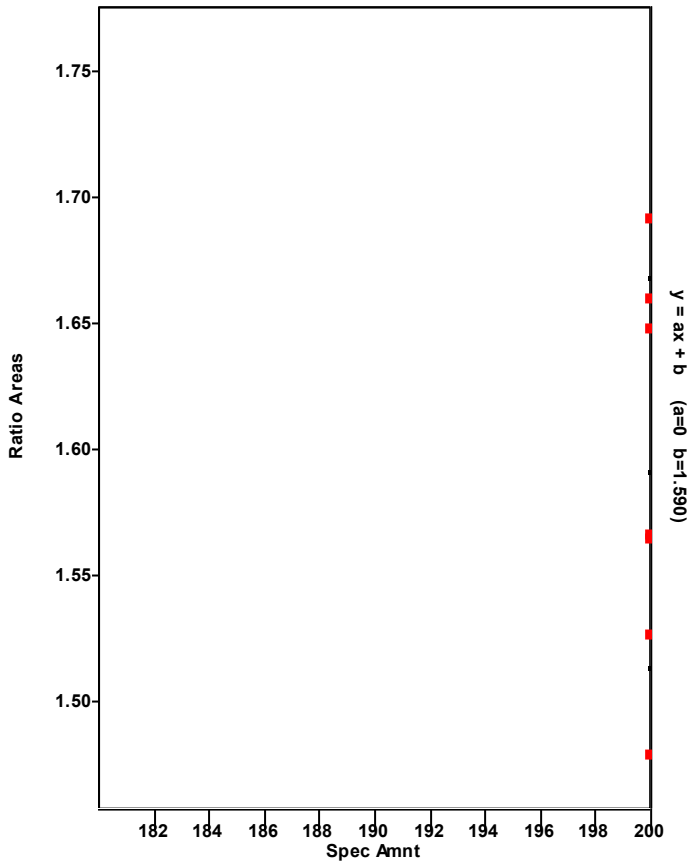
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4640238
RM1 Area	4214924
RM1 Ratio (A)	0.9083
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

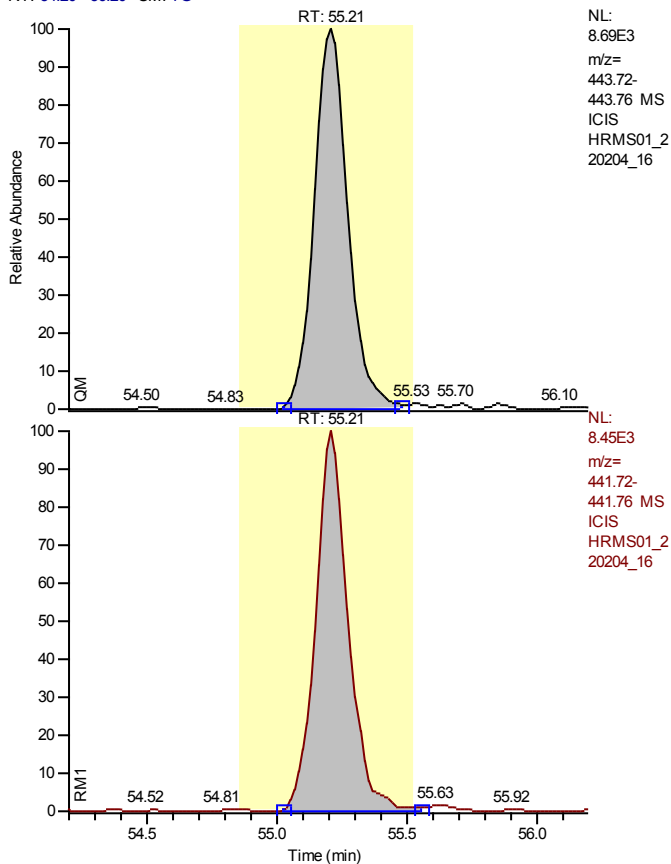
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.20 - 56.20 SM: 7G



NL:
8.69E3
m/z=
443.72-
443.76 MS
ICIS
HRMS01_2
20204_16

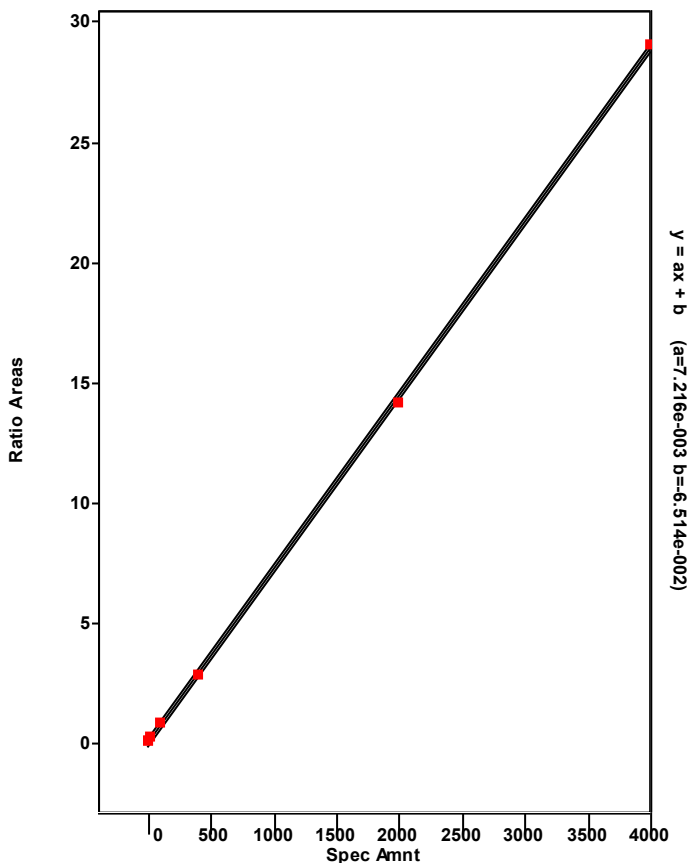
NL:
8.45E3
m/z=
441.72-
441.76 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	76247
RM1 Area	71750
RM1 Ratio (A)	0.9410
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0007
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

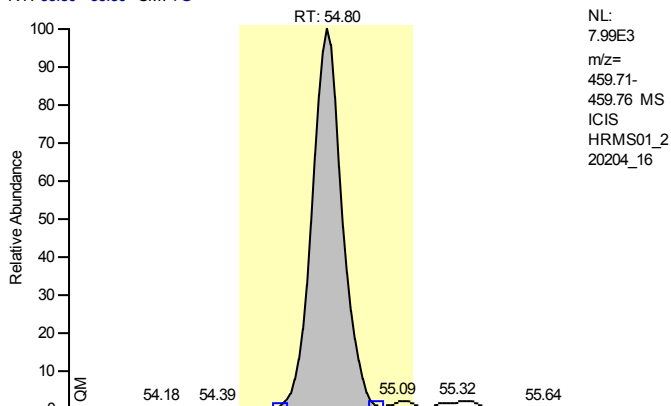
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

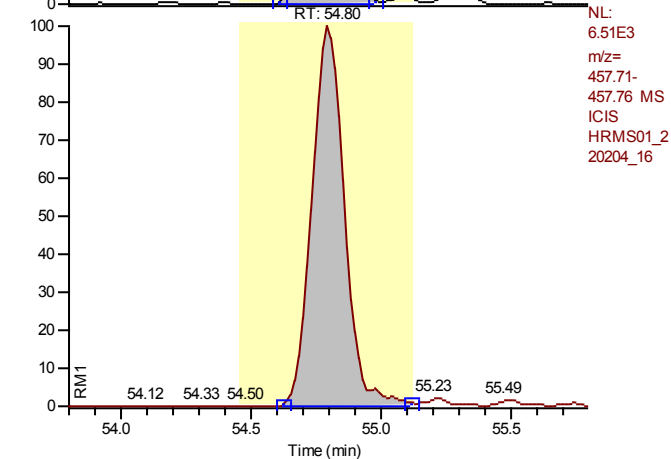
Entry Parameters

RT: 53.80 - 55.80 SM: 7G



NL:
7.99E3
m/z=
459.71-
459.76 MS
ICIS
HRMS01_2
20204_16

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	63596
RM1 Area	55728
RM1 Ratio (A)	0.8763
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0007
Label2	

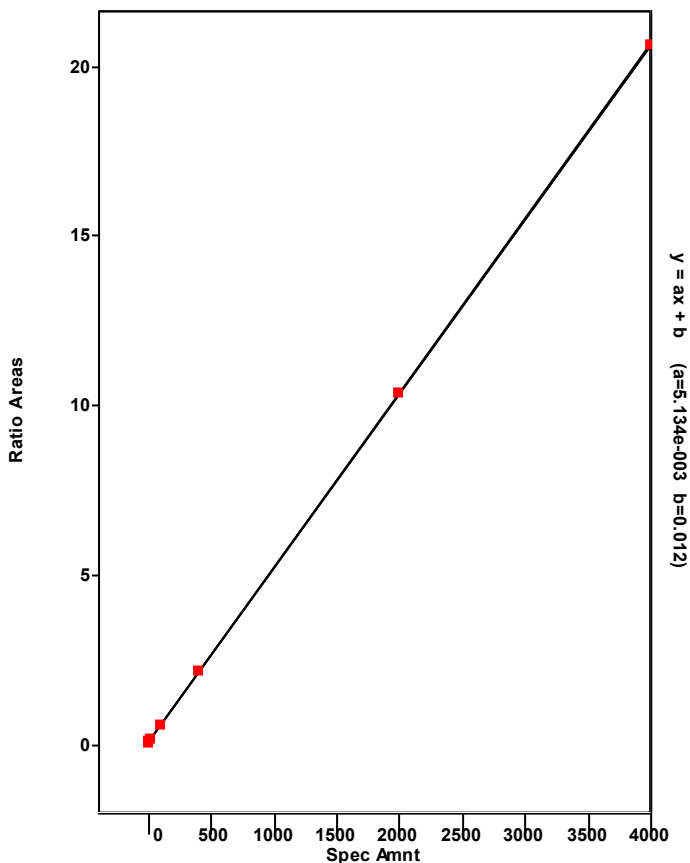


NL:
6.51E3
m/z=
457.71-
457.76 MS
ICIS
HRMS01_2
20204_16

Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

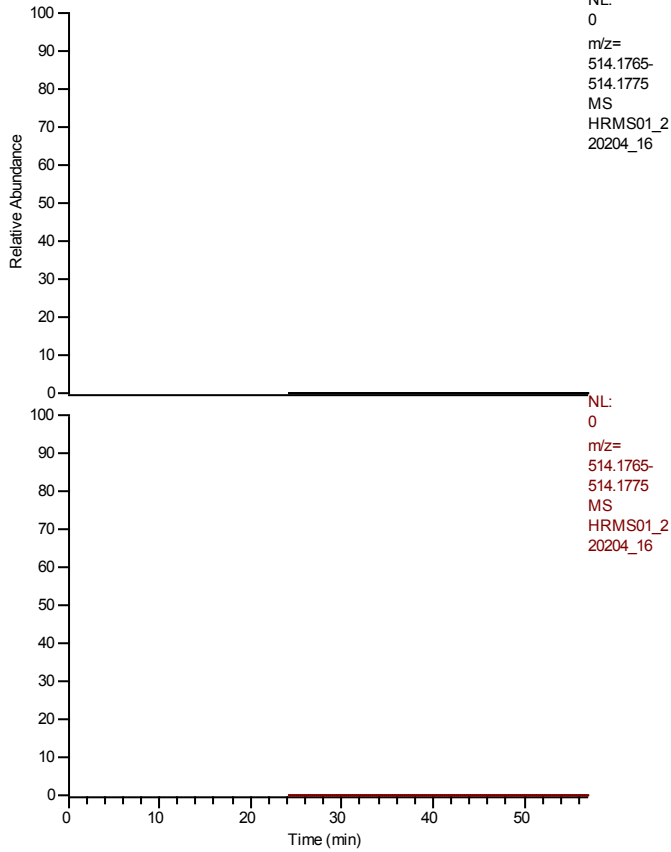
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.00 SM: 5G



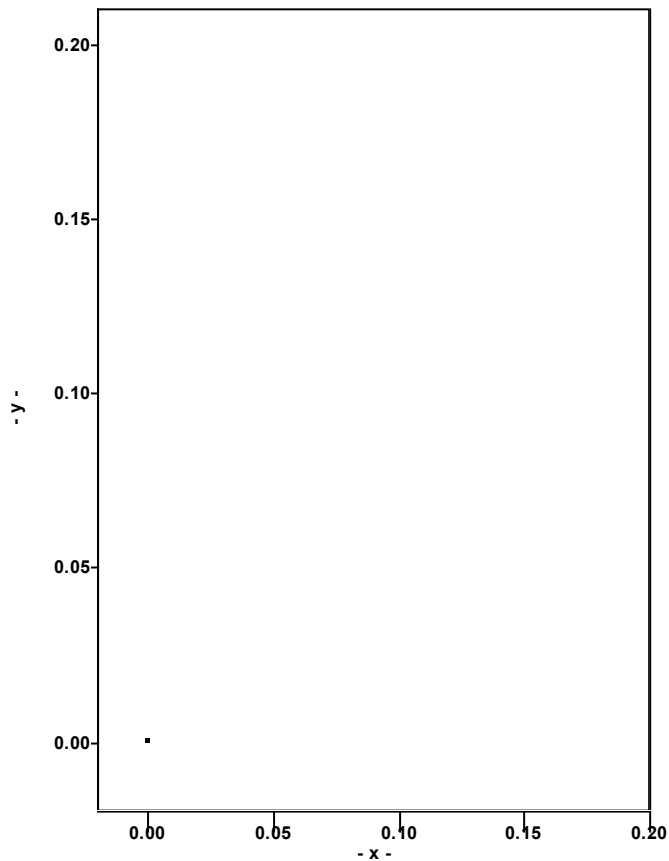
Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	642466
RM1 Area	731577
RM1 Ratio (A)	1.1387
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	21.75
Percent Recovery (A)	---
TEQ (A)	2.8515
Label2	

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_16

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_16

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 02:54
Number of Entries	59
Comment	HRMS200402A
Vial	5
Sample Name	IA1613STD-.5
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_18_seq
Data	hrms01_220204_18
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

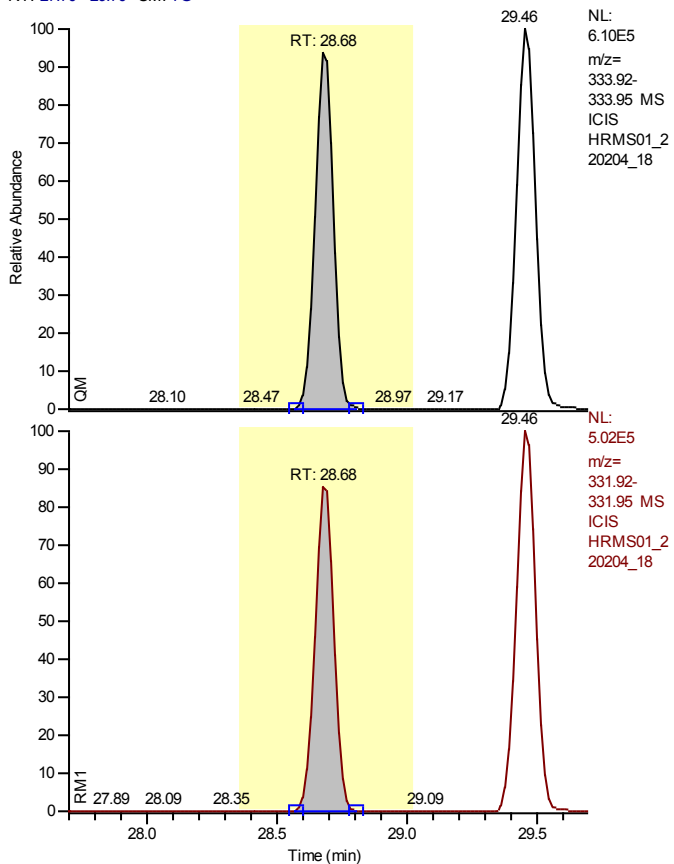
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2781246	2151999	0.7738	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		4628637	3785909	0.8179	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	25295	20487	0.8099	0.6500 - 0.8900	0.50	0.50	100	0.0500
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	25295	20487	0.8099	0.6500 - 0.8900	0.50	0.50	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	25295	20487	0.8099	0.6500 - 0.8900	0.50	0.50	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		3082893	2560951	0.8307	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	15904	12165	0.7649	0.6500 - 0.8900	0.50	0.50	100	0.5000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	15904	12165	0.7649	0.6500 - 0.8900	0.50	0.50	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	15904	12165	0.7649	0.6500 - 0.8900	0.50	0.50	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2644938	4280406	1.6183	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	64074	107906	1.6841	1.3200 - 1.7800	2.50	2.50	100	0.0750
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	140397	230126	1.6391	1.3200 - 1.7800	2.50	5.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	76323	122220	1.6013	1.3200 - 1.7800	2.50	2.50	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	64074	107906	1.6841	1.3200 - 1.7800	2.50	2.50	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2684452	4155572	1.5480	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	76323	122220	1.6013	1.3200 - 1.7800	2.50	2.50	100	0.7500
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1786688	2642108	1.4788	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	45477	78446	1.7250	1.3200 - 1.7800	2.50	2.50	100	2.5000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	45477	78446	1.7250	1.3200 - 1.7800	2.50	2.50	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	45477	78446	1.7250	1.3200 - 1.7800	2.50	2.50	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		28485	28485	1.0000	0.8500 - 1.1500	0.50	0.50	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2697648	3338602	1.2376	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		4697963	2446011	0.5207	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	104859	127438	1.2153	1.0500 - 1.4300	2.50	2.50	100	0.2500
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	415267	515724	1.2419	1.0500 - 1.4300	2.50	10.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	109875	141639	1.2891	1.0500 - 1.4300	2.50	2.50	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	104859	127438	1.2153	1.0500 - 1.4300	2.50	2.50	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	105145	128739	1.2244	1.0500 - 1.4300	2.50	2.50	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	95388	117907	1.2361	1.0500 - 1.4300	2.50	2.50	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		5009083	2799846	0.5590	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	105145	128739	1.2244	1.0500 - 1.4300	2.50	2.50	100	0.2500
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		5074686	2695300	0.5311	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	109875	141639	1.2891	1.0500 - 1.4300	2.50	2.50	100	0.2500
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		4718849	2522938	0.5347	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	95388	117907	1.2361	1.0500 - 1.4300	2.50	2.50	100	0.2500
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2346468	3008947	1.2823	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	67133	89298	1.3302	1.0500 - 1.4300	2.50	2.50	100	0.2500
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	201580	263205	1.3057	1.0500 - 1.4300	2.50	7.50	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	67133	89298	1.3302	1.0500 - 1.4300	2.50	2.50	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	67503	85270	1.2632	1.0500 - 1.4300	2.50	2.50	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	66945	88638	1.3240	1.0500 - 1.4300	2.50	2.50	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2346468	3008947	1.2823	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	67133	89298	1.3302	1.0500 - 1.4300	2.50	2.50	100	0.2500
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	66945	88638	1.3240	1.0500 - 1.4300	2.50	2.50	100	0.2500
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4638436	2230004	0.4808	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	107930	125514	1.1629	0.8800 - 1.2000	2.50	2.50	100	0.0250
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	210931	238802	1.1321	0.8800 - 1.2000	2.50	5.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	107930	125514	1.1629	0.8800 - 1.2000	2.50	2.50	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	103000	113289	1.0999	0.8800 - 1.2000	2.50	2.50	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		4395670	2002072	0.4555	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	103000	113289	1.0999	0.8800 - 1.2000	2.50	2.50	100	0.0250
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2624042	2769337	1.0554	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	77131	80842	1.0481	0.8800 - 1.2000	2.50	2.50	100	0.0250
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	77131	80842	1.0481	0.8800 - 1.2000	2.50	2.50	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	77131	80842	1.0481	0.8800 - 1.2000	2.50	2.50	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4999048	4447410	0.8897	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	176597	162124	0.9180	0.7600 - 1.0200	5.00	5.00	100	0.0015
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	137534	122792	0.8928	0.7600 - 1.0200	5.00	5.00	100	0.0015
59	overall TEQ	overall TEQ test		1445744	1728741	1.1957	0.0000 - 0.0000	0.00	43.50	---	5.7030

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

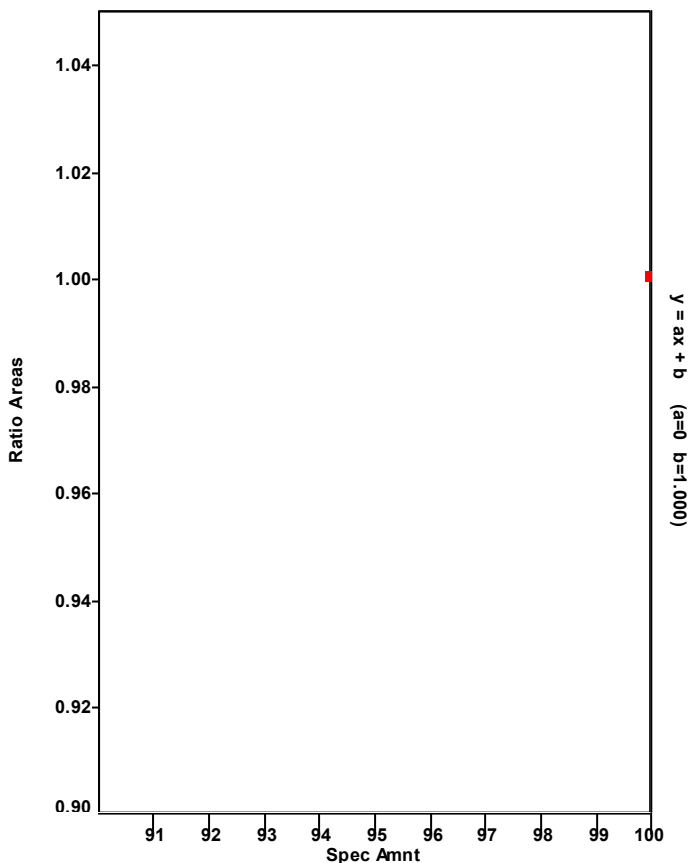


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2781246
RM1 Area	2151999
RM1 Ratio (A)	0.7738
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

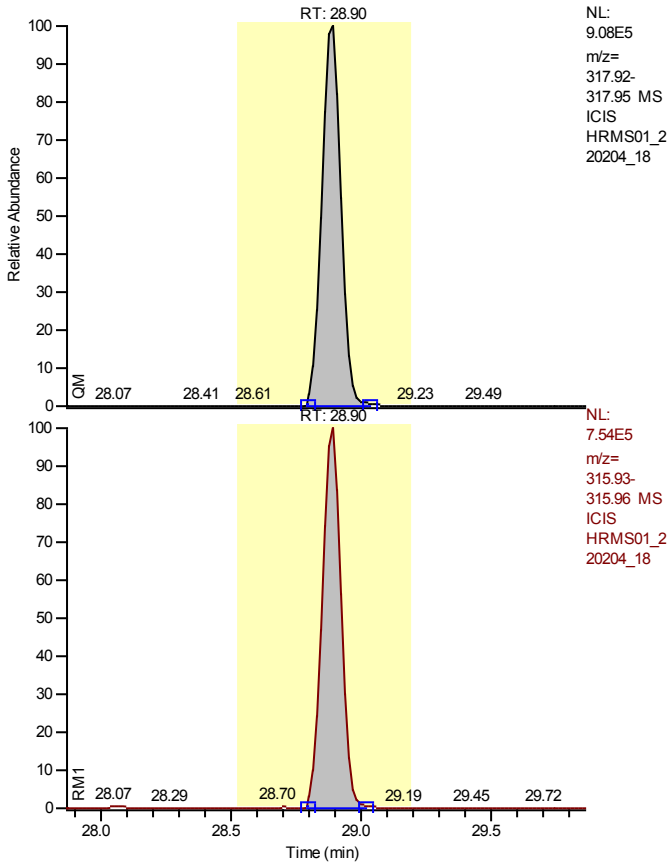
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.87 - 29.87 SM: 7G

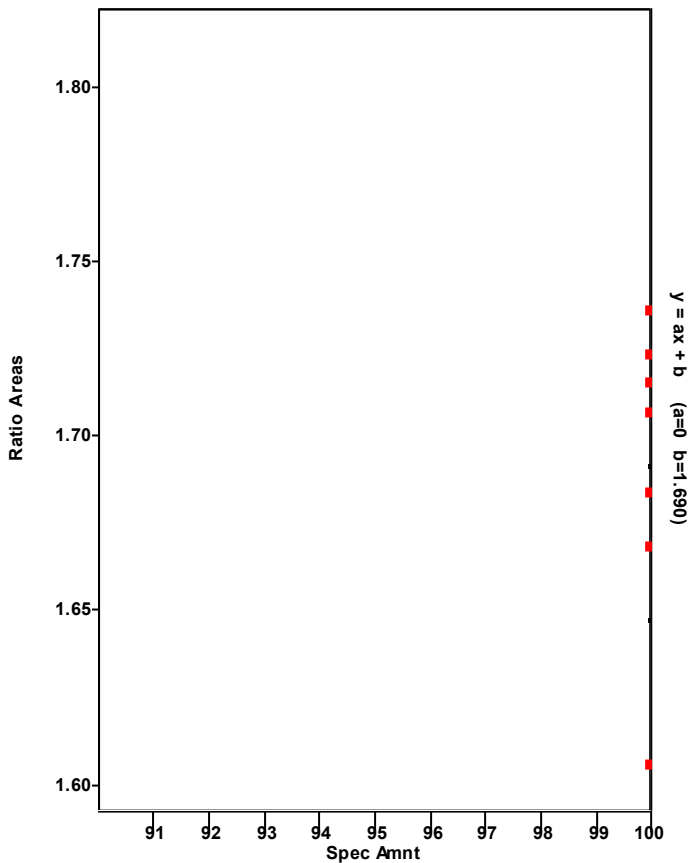


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	4628637
RM1 Area	3785909
RM1 Ratio (A)	0.8179
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

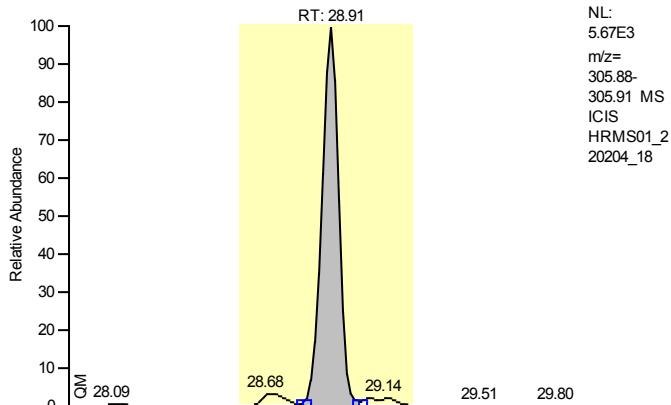
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



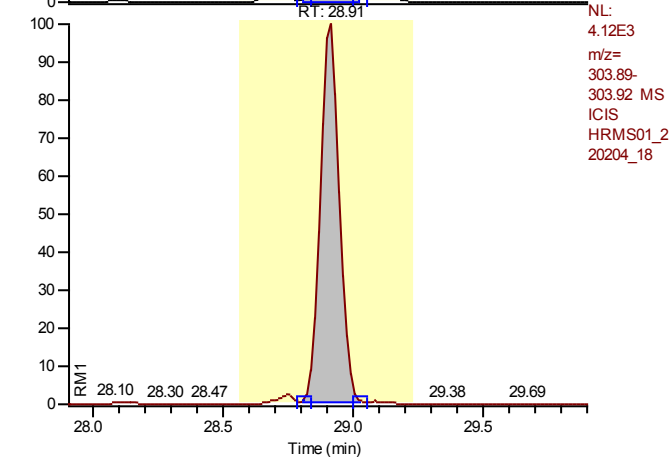
Chromatogram

Entry Parameters

RT: 27.90 - 29.90 SM: 7G



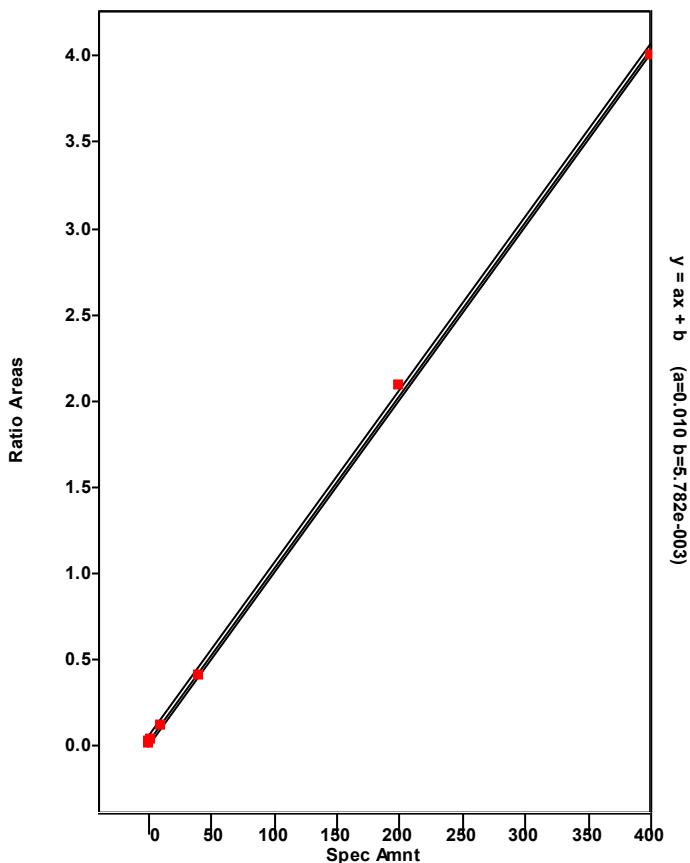
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	25295
RM1 Area	20487
RM1 Ratio (A)	0.8099
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0500
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

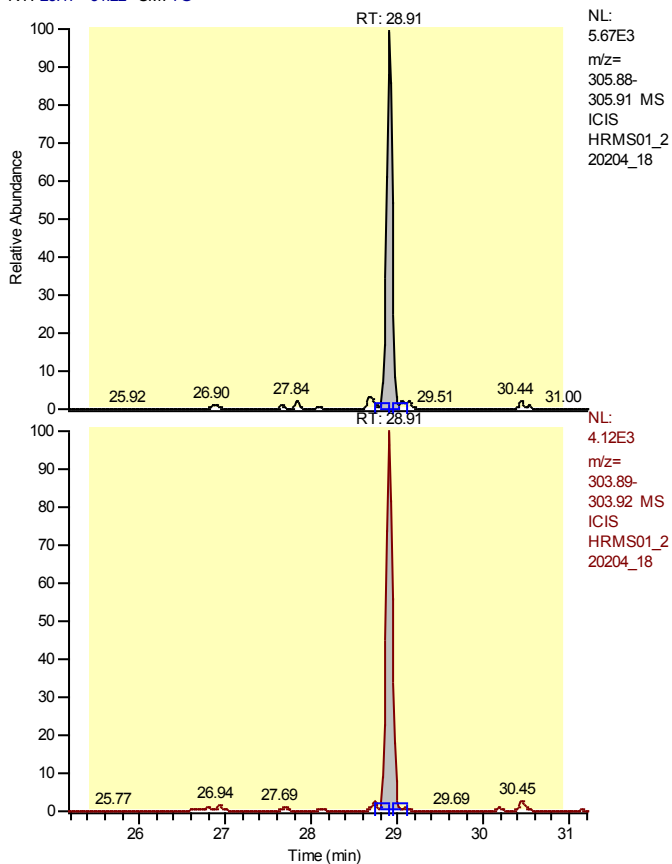
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.17 - 31.22 SM: 7G

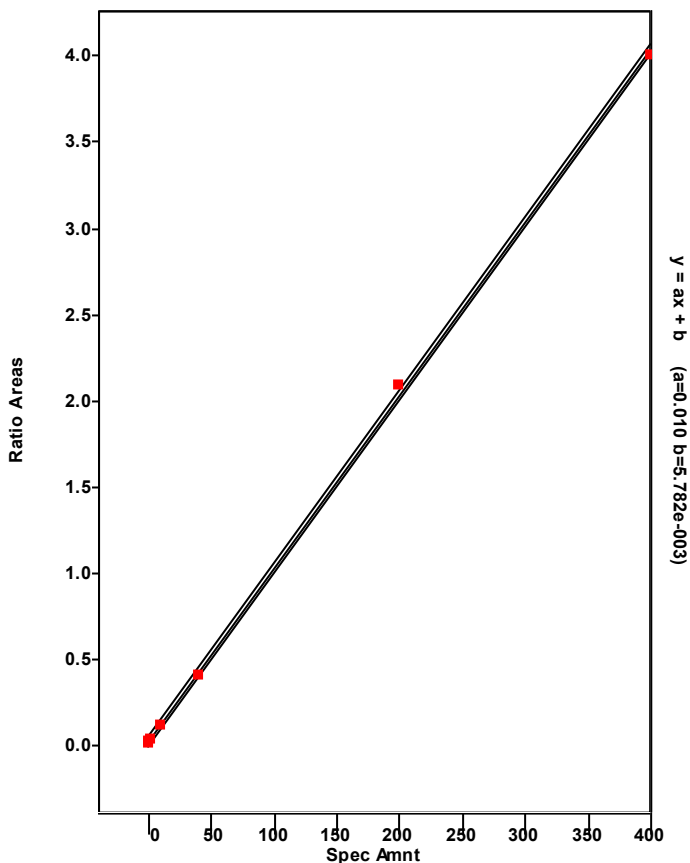


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	25295
RM1 Area	20487
RM1 Ratio (A)	0.8099
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

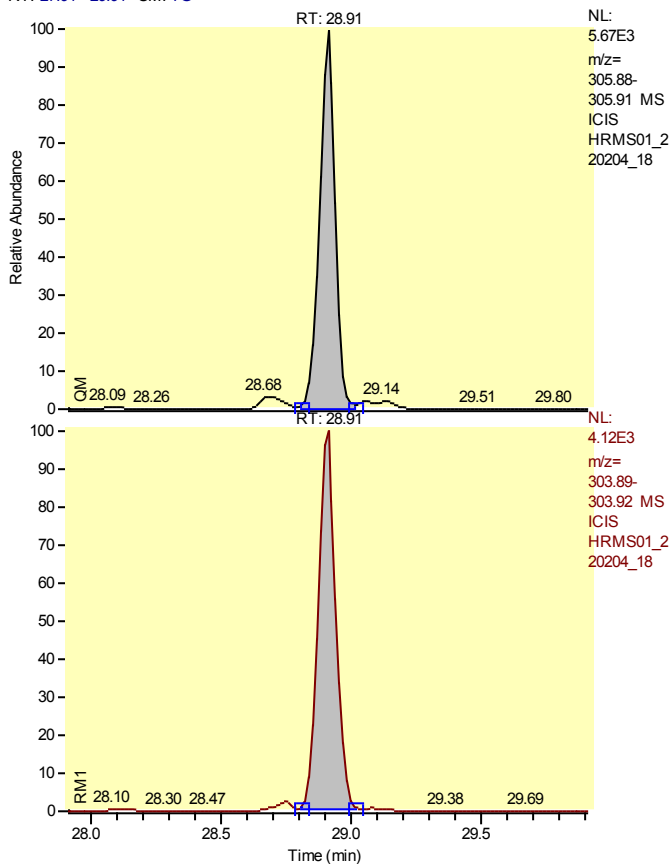
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.91 - 29.91 SM: 7G

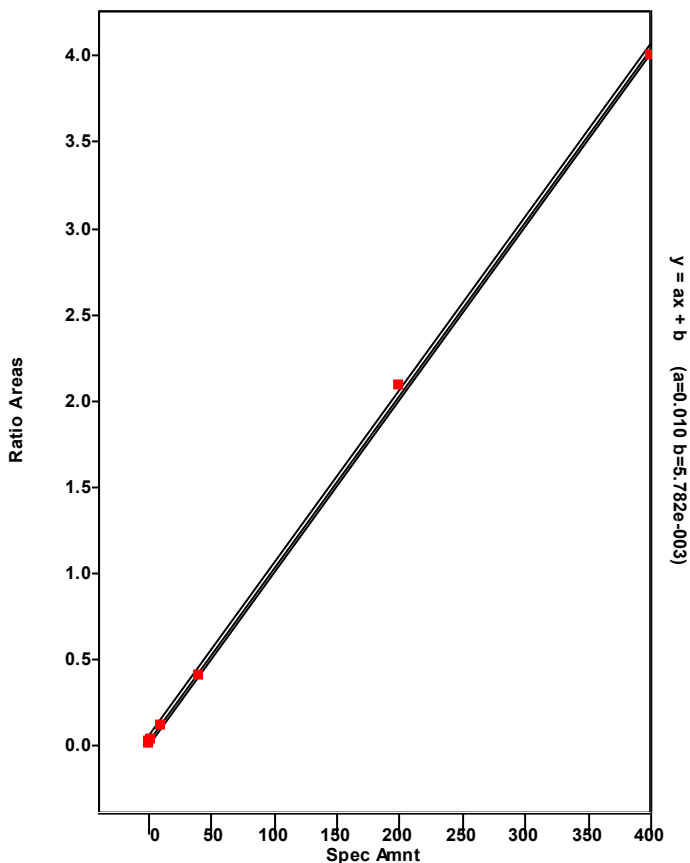


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	25295
RM1 Area	20487
RM1 Ratio (A)	0.8099
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

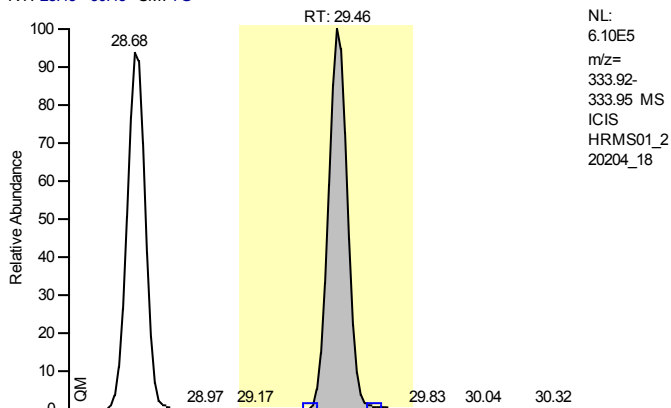
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

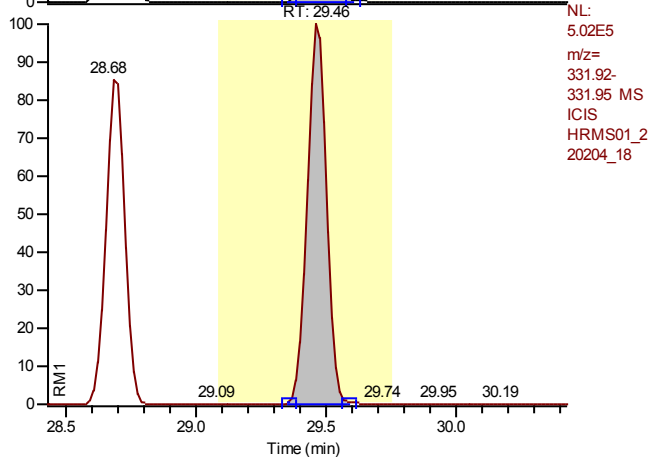
Entry Parameters

RT: 28.43 - 30.43 SM: 7G



NL: 6.10E5
 m/z= 333.92-333.95 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	3082893
RM1 Area	2560951
RM1 Ratio (A)	0.8307
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

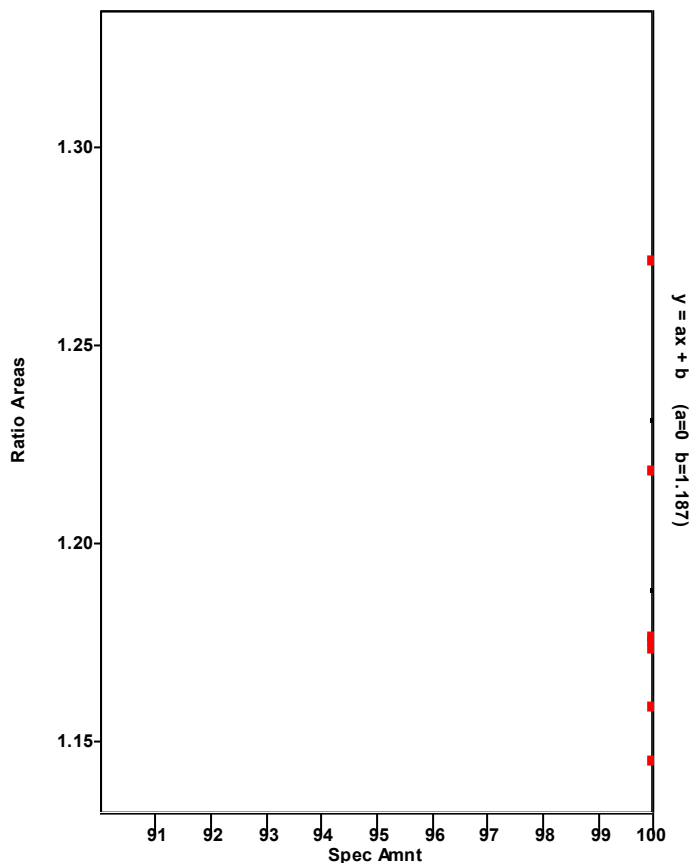


NL: 5.02E5
 m/z= 331.92-331.95 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

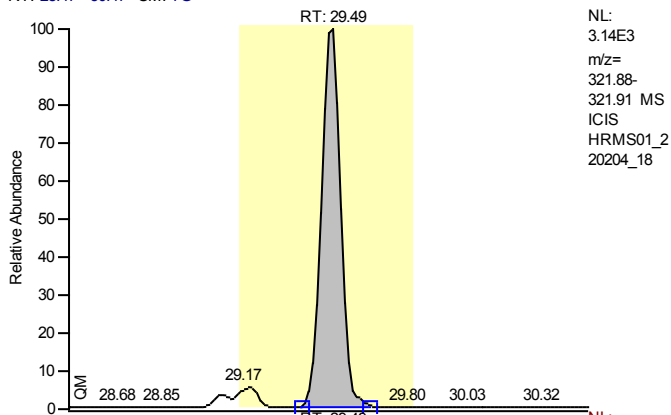
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

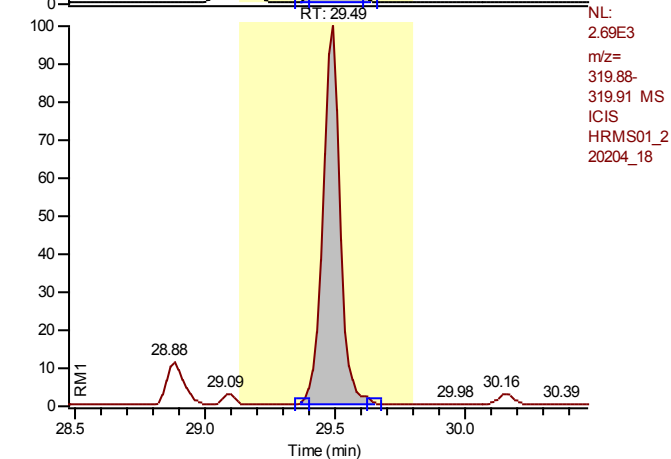
Entry Parameters

RT: 28.47 - 30.47 SM: 7G



NL:
 3.14E3
 m/z=
 321.88-
 321.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	15904
RM1 Area	12165
RM1 Ratio (A)	0.7649
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	

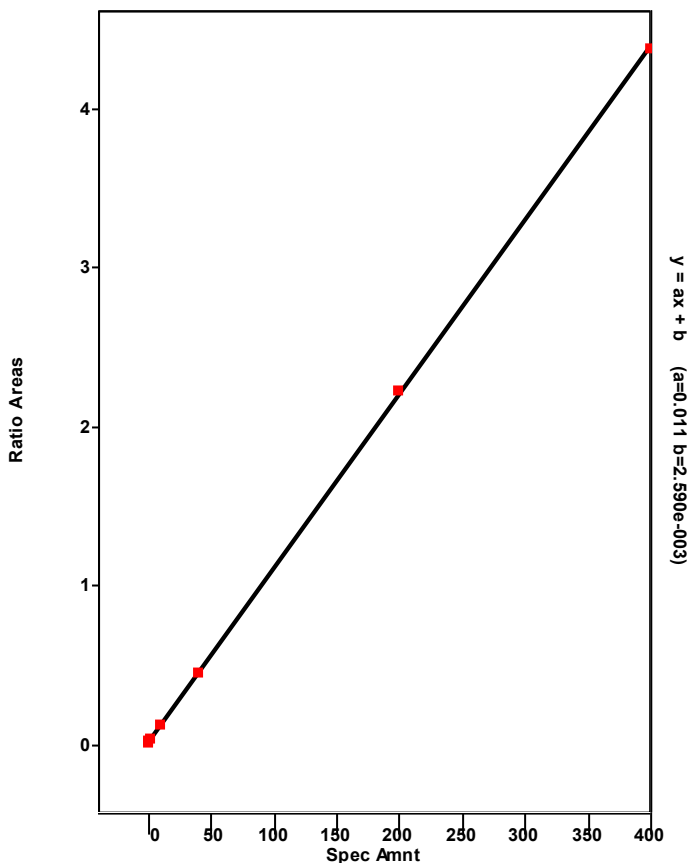


NL:
 2.69E3
 m/z=
 319.88-
 319.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

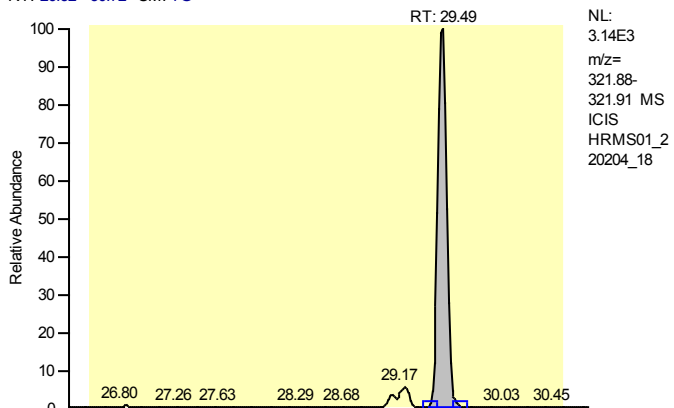
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

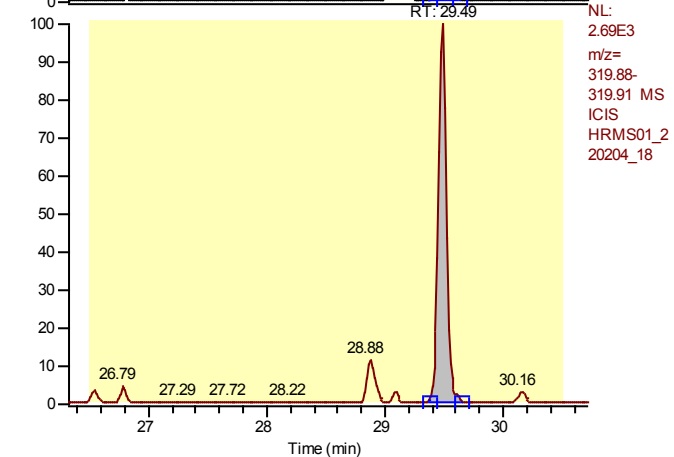
Entry Parameters

RT: 26.32 - 30.72 SM: 7G



NL:
 3.14E3
 m/z=
 321.88-
 321.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	15904
RM1 Area	12165
RM1 Ratio (A)	0.7649
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

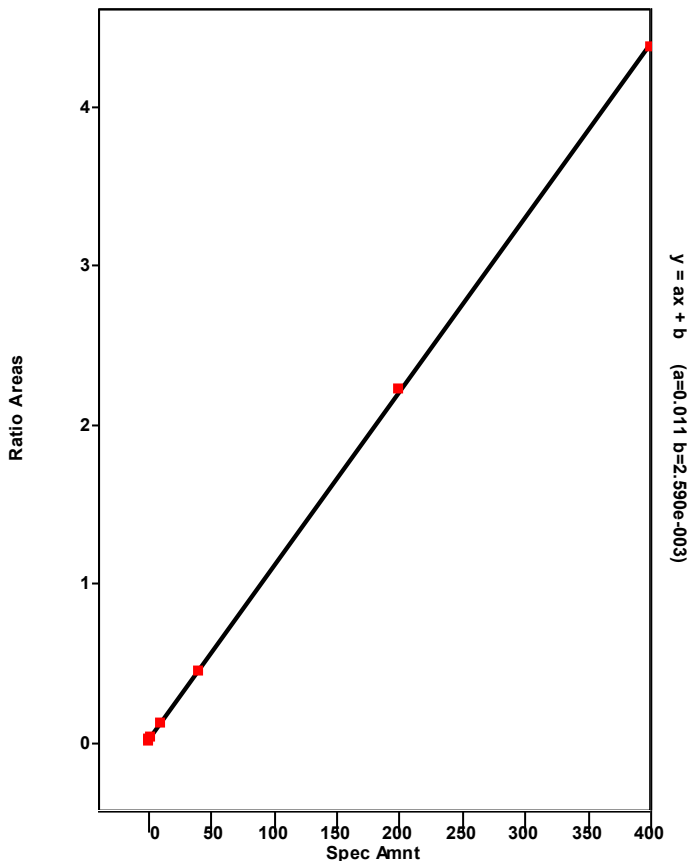


NL:
 2.69E3
 m/z=
 319.88-
 319.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

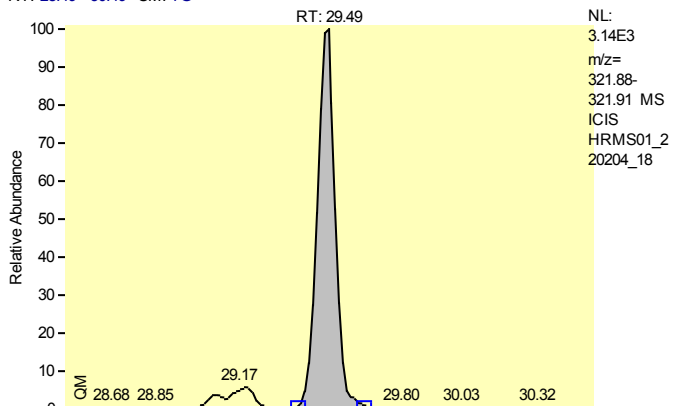
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

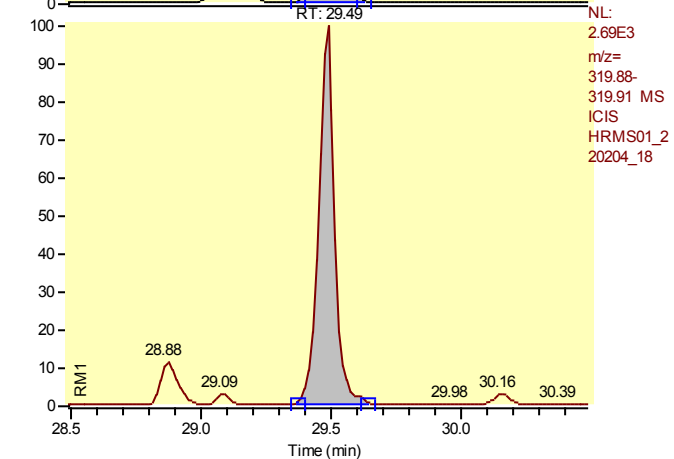
Entry Parameters

RT: 28.49 - 30.49 SM: 7G



NL:
 3.14E3
 m/z=
 321.88-
 321.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	15904
RM1 Area	12165
RM1 Ratio (A)	0.7649
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

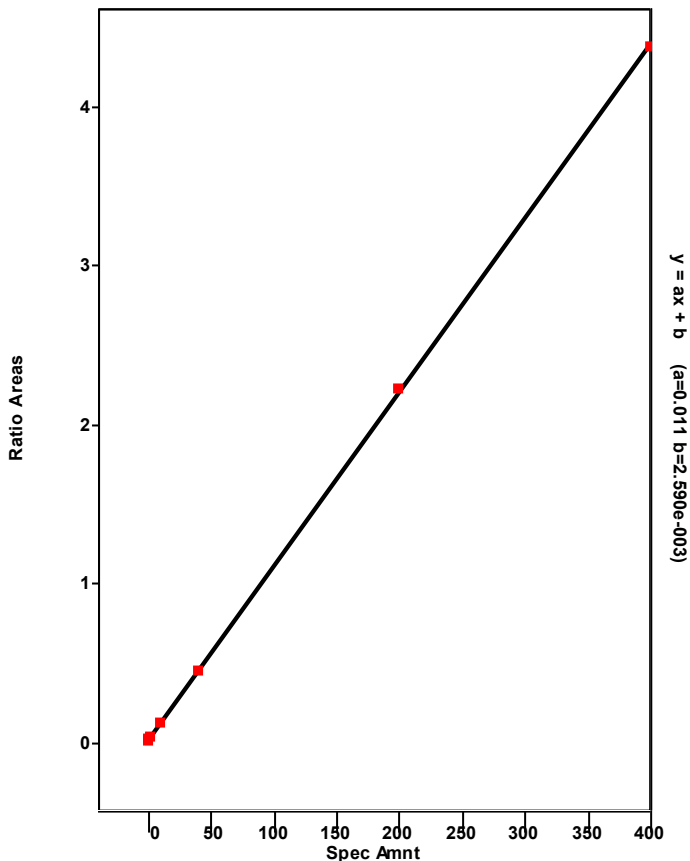


NL:
 2.69E3
 m/z=
 319.88-
 319.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

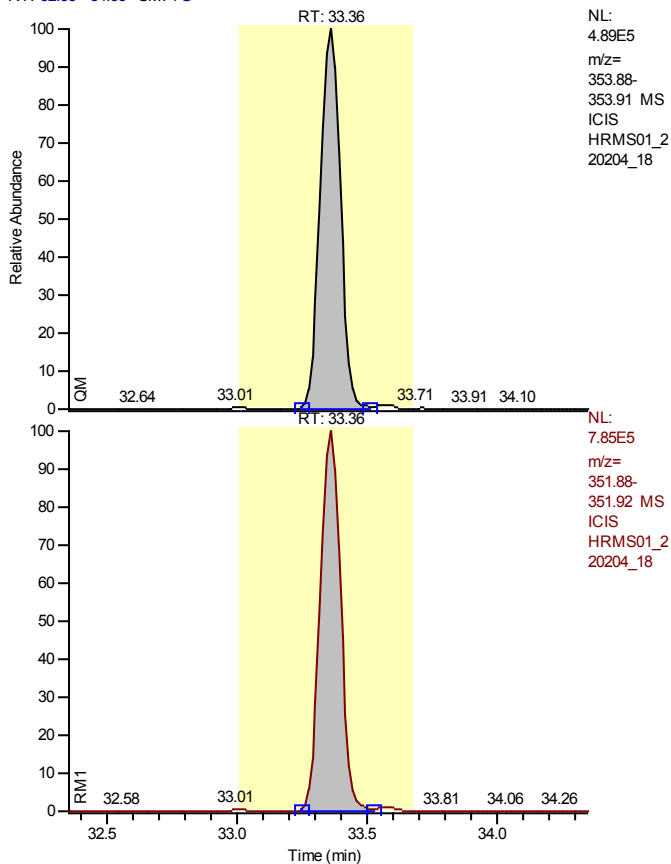
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.35 - 34.35 SM: 7G



NL:
4.89E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20204_18

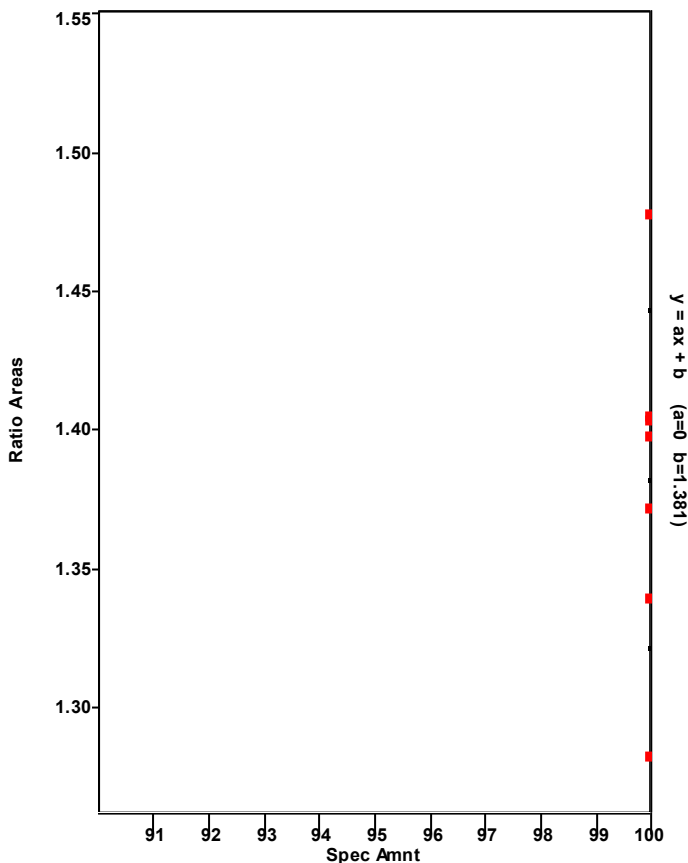
NL:
7.85E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20204_18

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2644938
RM1 Area	4280406
RM1 Ratio (A)	1.6183
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

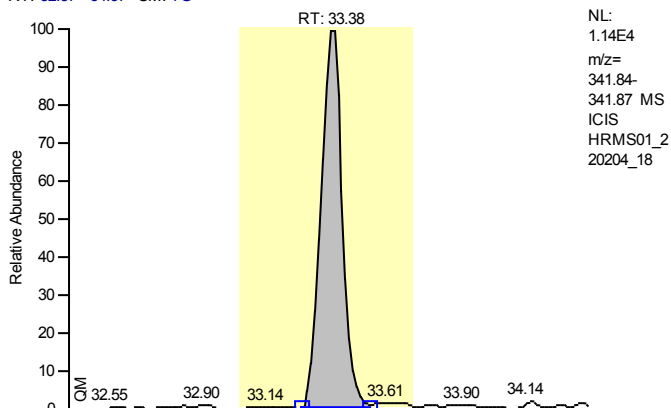
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



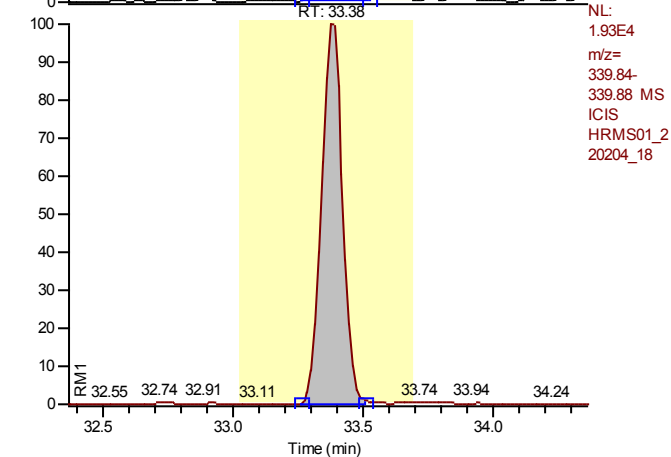
Chromatogram

Entry Parameters

RT: 32.37 - 34.37 SM: 7G



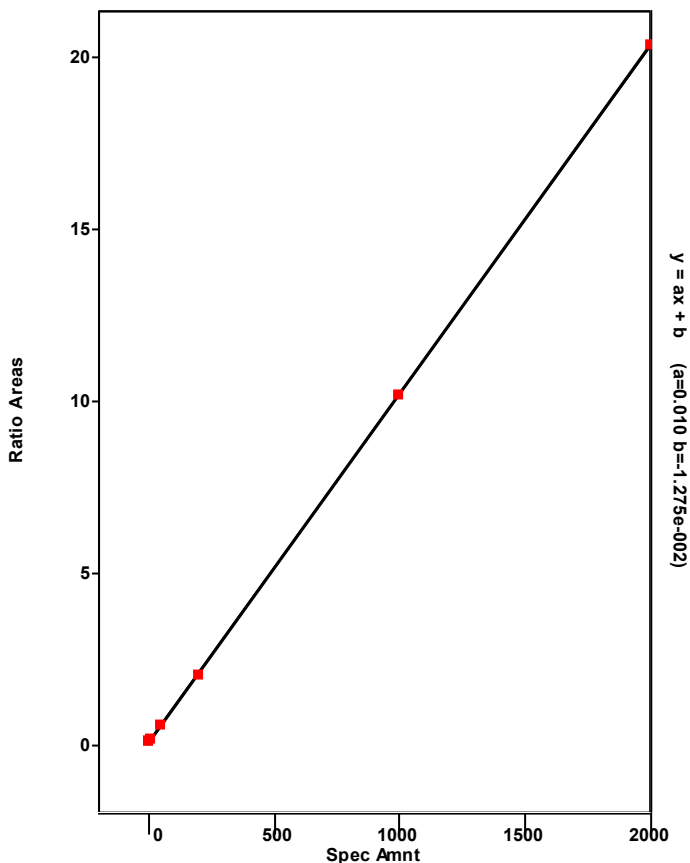
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	64074
RM1 Area	107906
RM1 Ratio (A)	1.6841
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0750
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

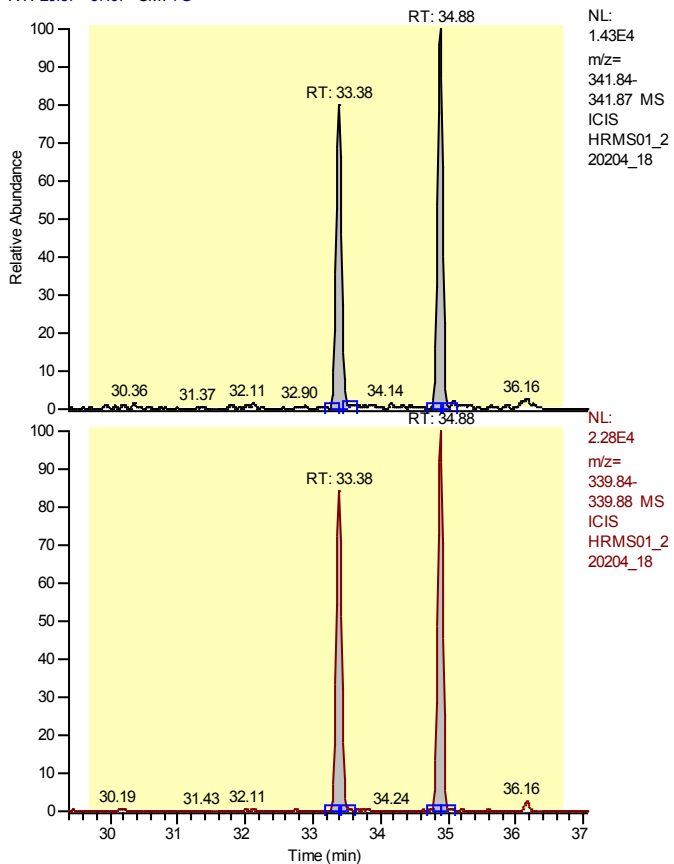
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.37 - 37.07 SM: 7G

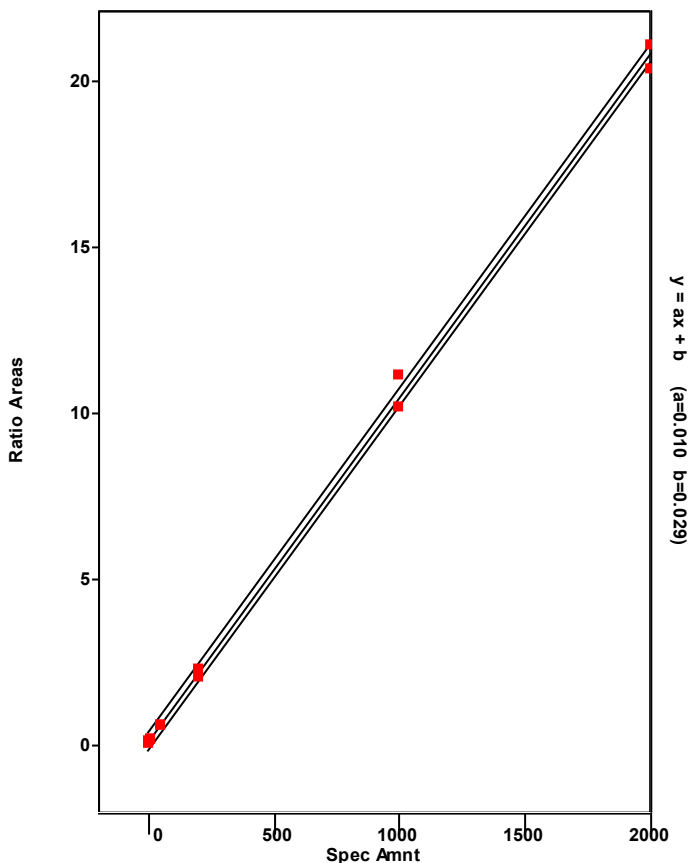


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	140397
RM1 Area	230126
RM1 Ratio (A)	1.6391
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	5.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

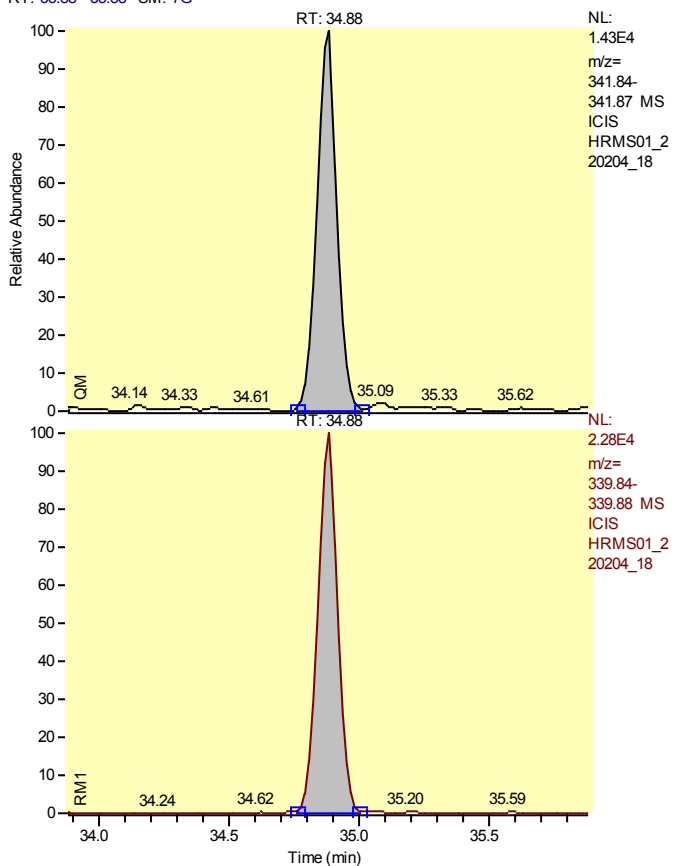
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.88 - 35.88 SM: 7G

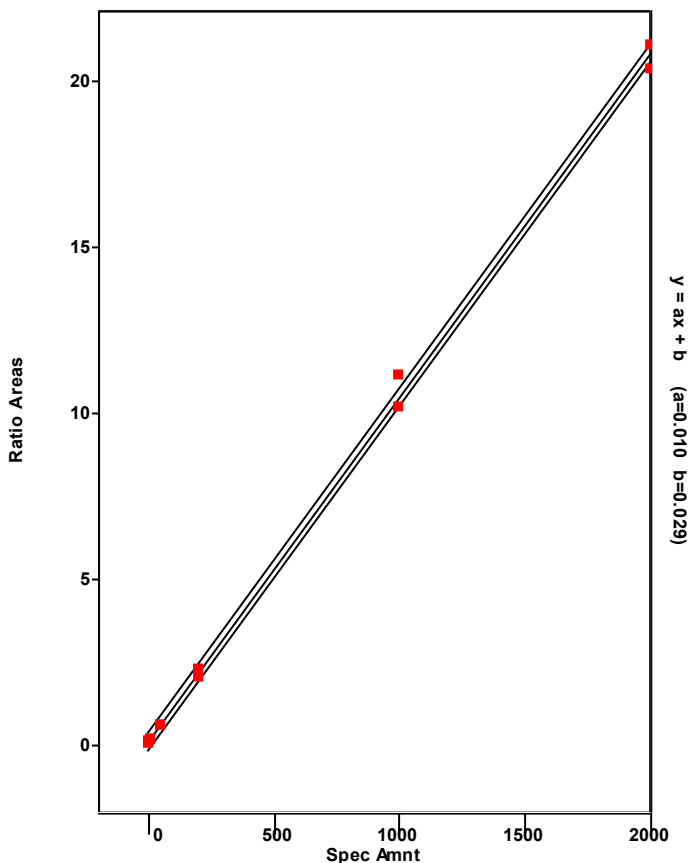


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	76323
RM1 Area	122220
RM1 Ratio (A)	1.6013
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

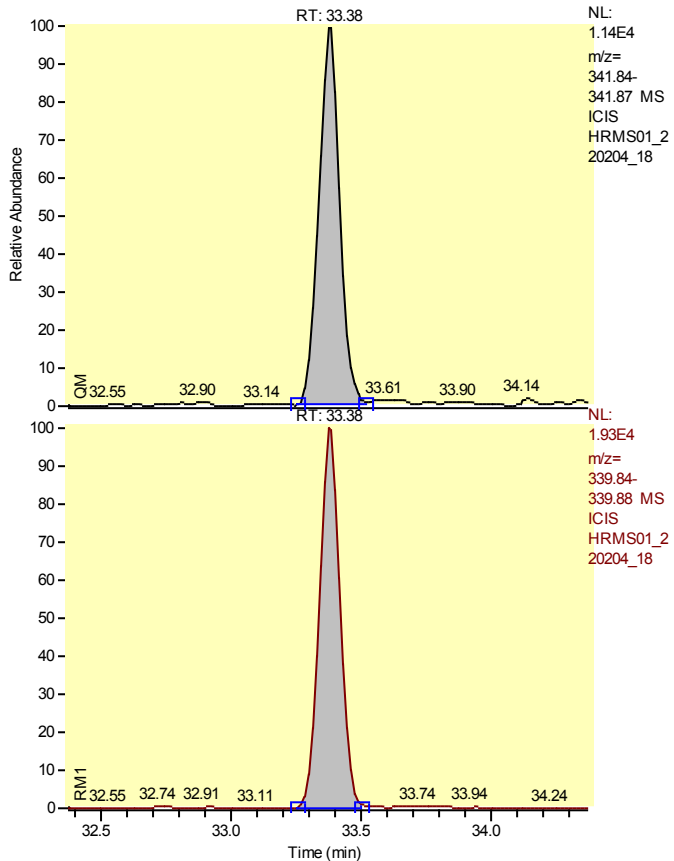
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.38 - 34.38 SM: 7G

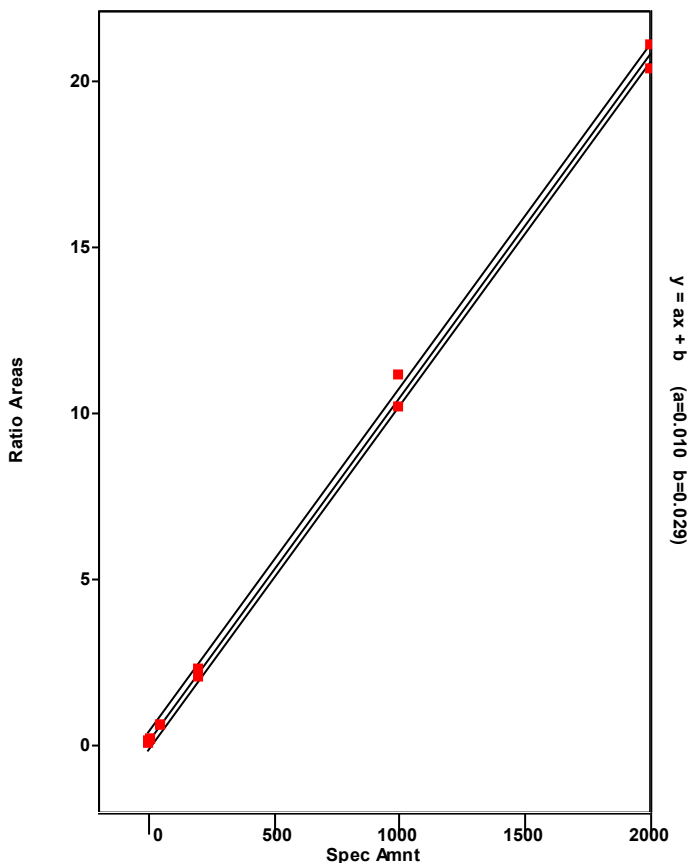


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	64074
RM1 Area	107906
RM1 Ratio (A)	1.6841
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

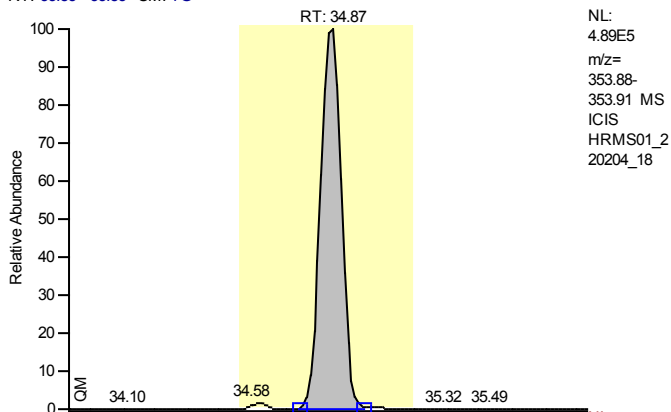
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



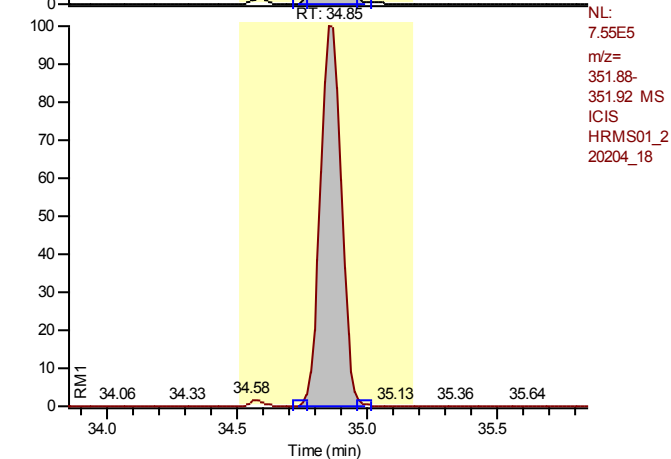
Chromatogram

Entry Parameters

RT: 33.85 - 35.85 SM: 7G



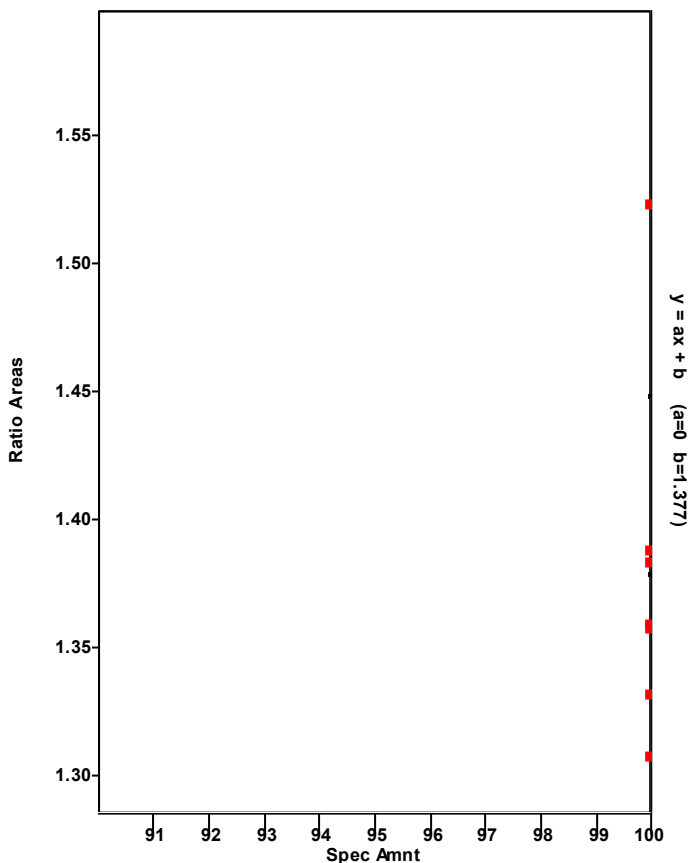
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2684452
RM1 Area	4155572
RM1 Ratio (A)	1.5480
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

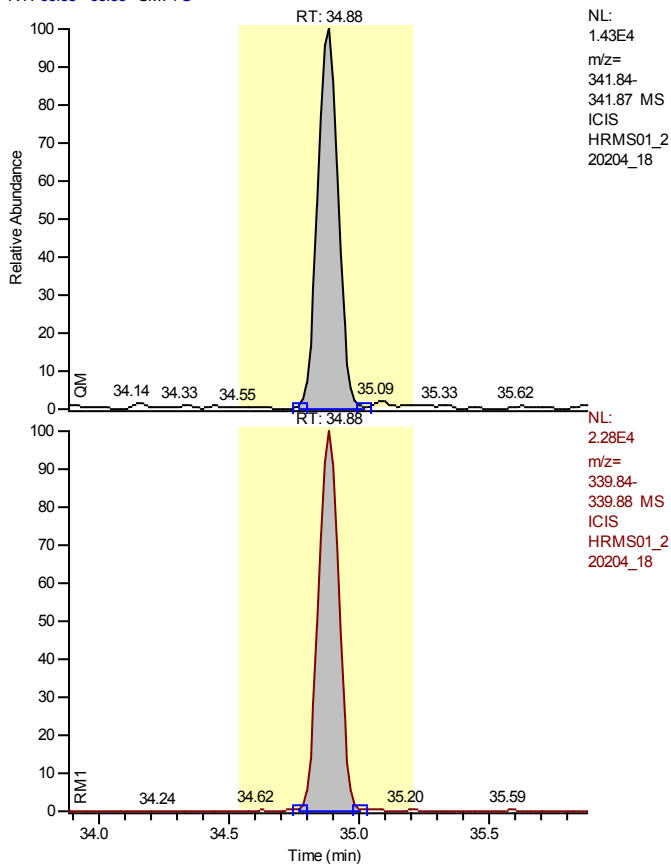
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.88 - 35.88 SM: 7G

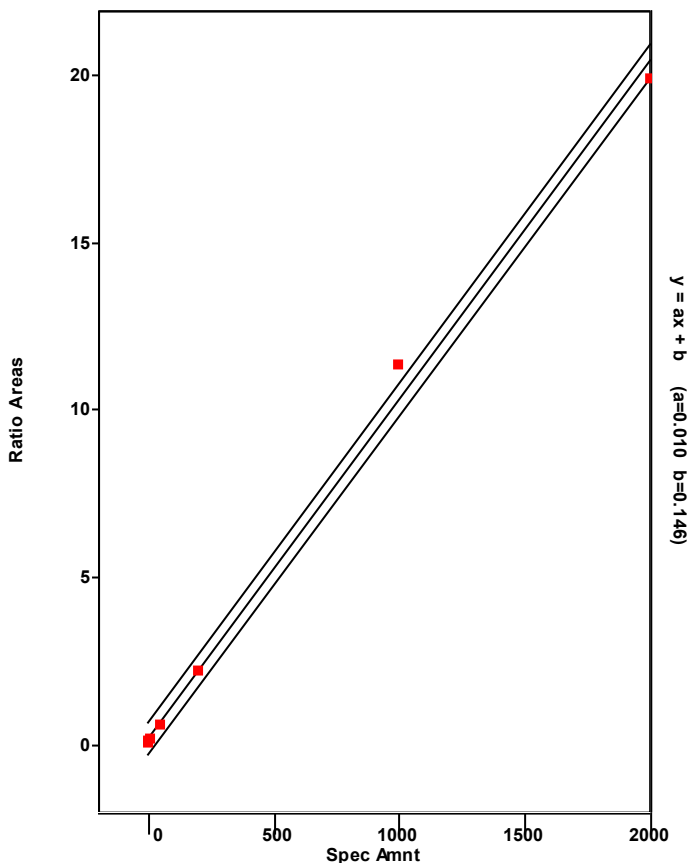


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	76323
RM1 Area	122220
RM1 Ratio (A)	1.6013
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.7500
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

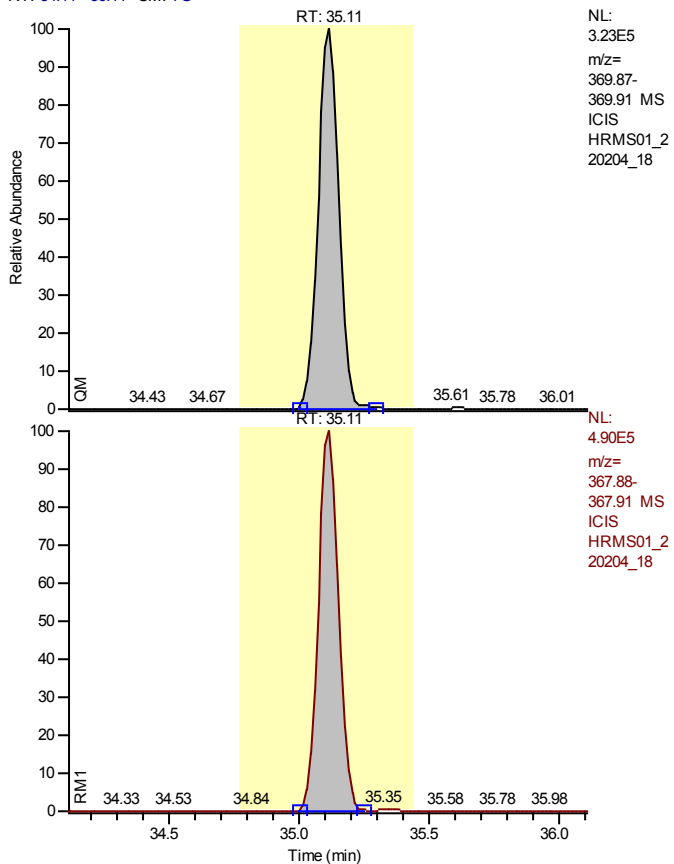
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.11 - 36.11 SM: 7G



NL:
 3.23E5
 m/z=
 369.87-
 369.91 MS
 ICIS
 HRMS01_2
 20204_18

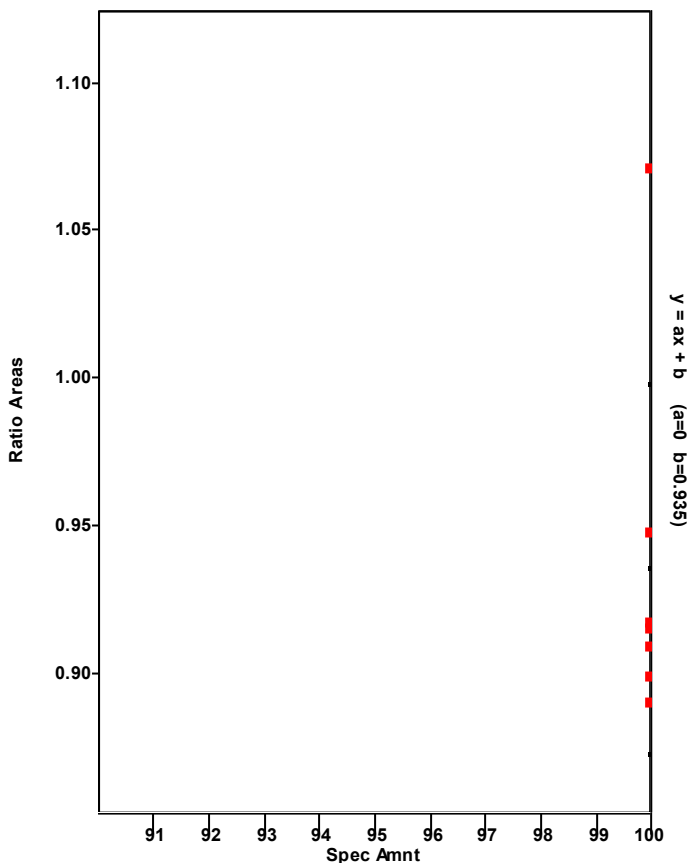
NL:
 4.90E5
 m/z=
 367.88-
 367.91 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1786688
RM1 Area	2642108
RM1 Ratio (A)	1.4788
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

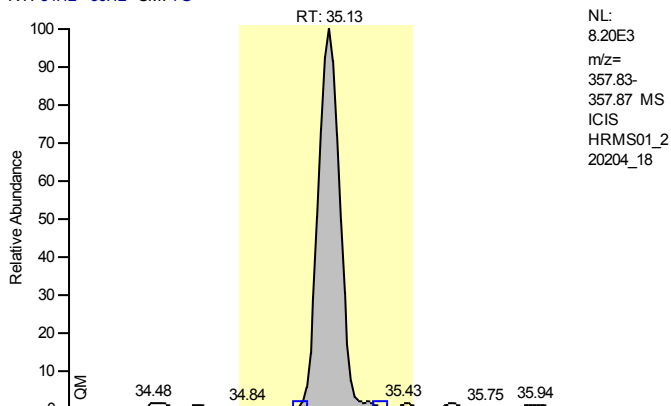
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

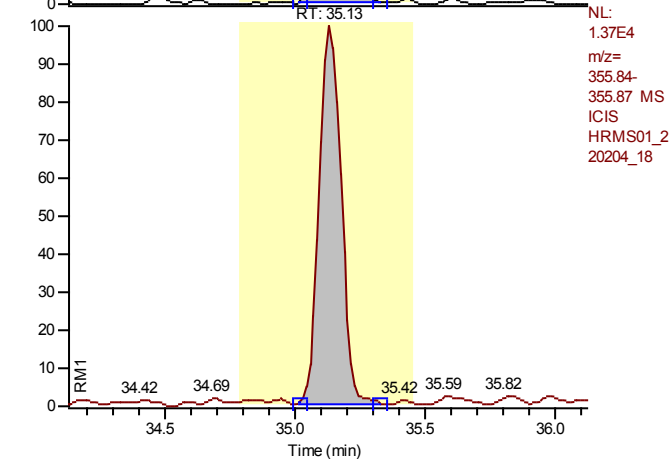
Entry Parameters

RT: 34.12- 36.12 SM: 7G



NL:
 8.20E3
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	45477
RM1 Area	78446
RM1 Ratio (A)	1.7250
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	2.5000
Label2	

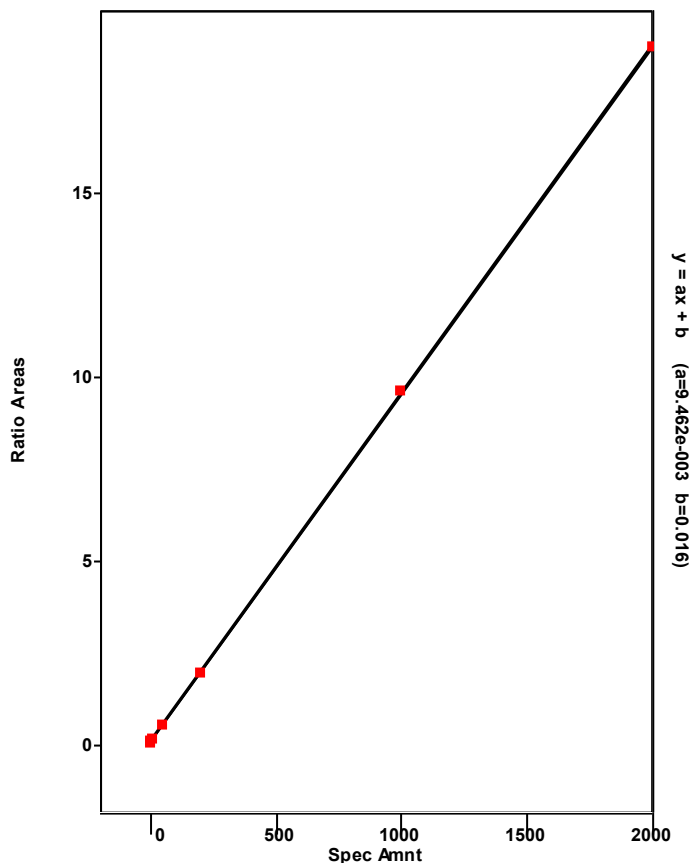


NL:
 1.37E4
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

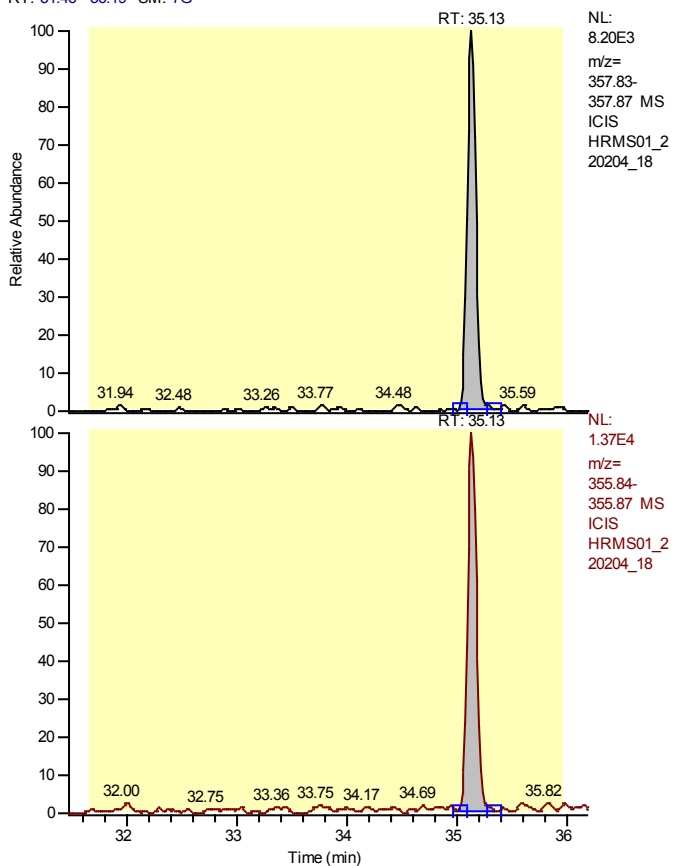
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.46 - 36.19 SM: 7G

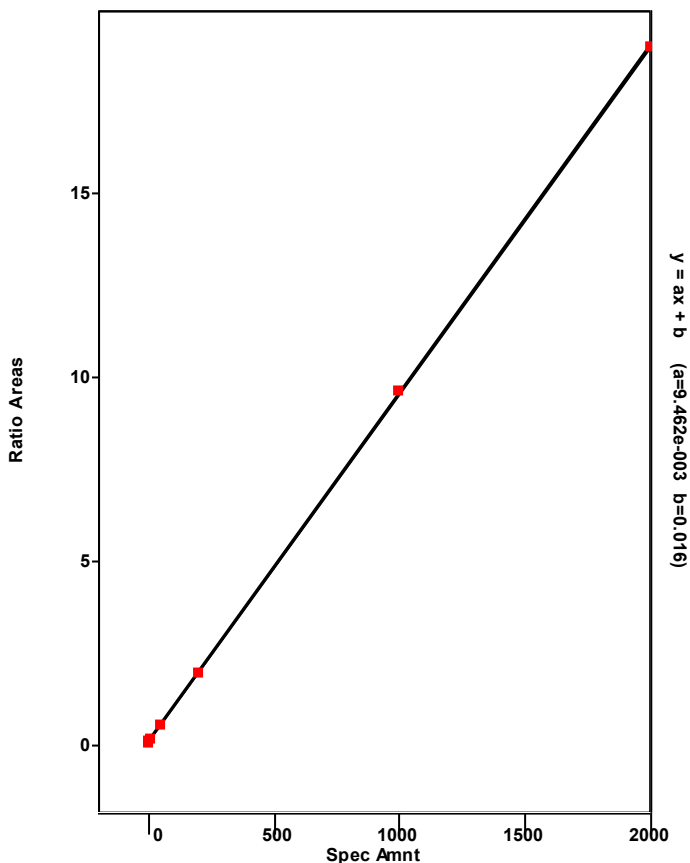


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	45477
RM1 Area	78446
RM1 Ratio (A)	1.7250
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

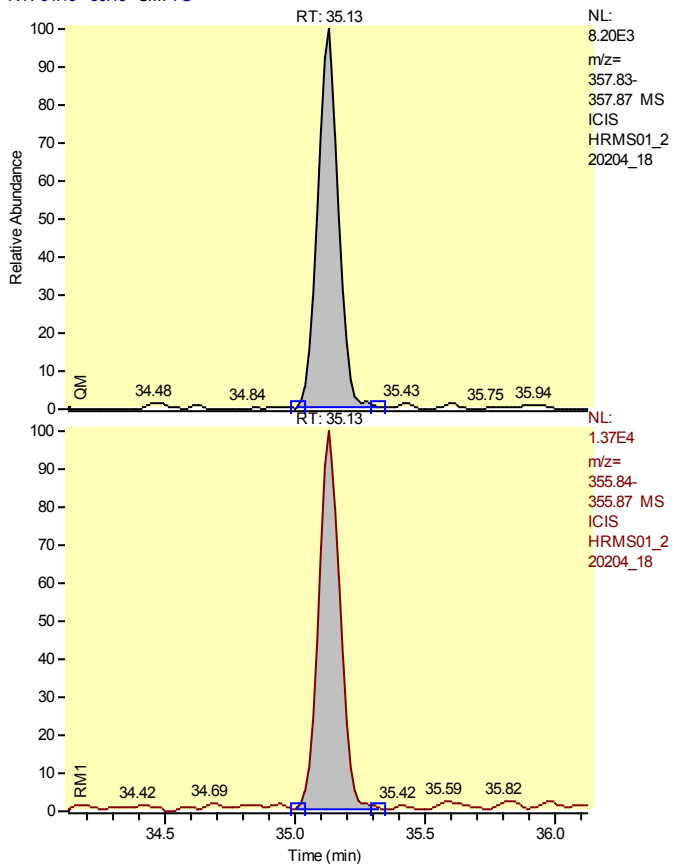
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.13 - 36.13 SM: 7G

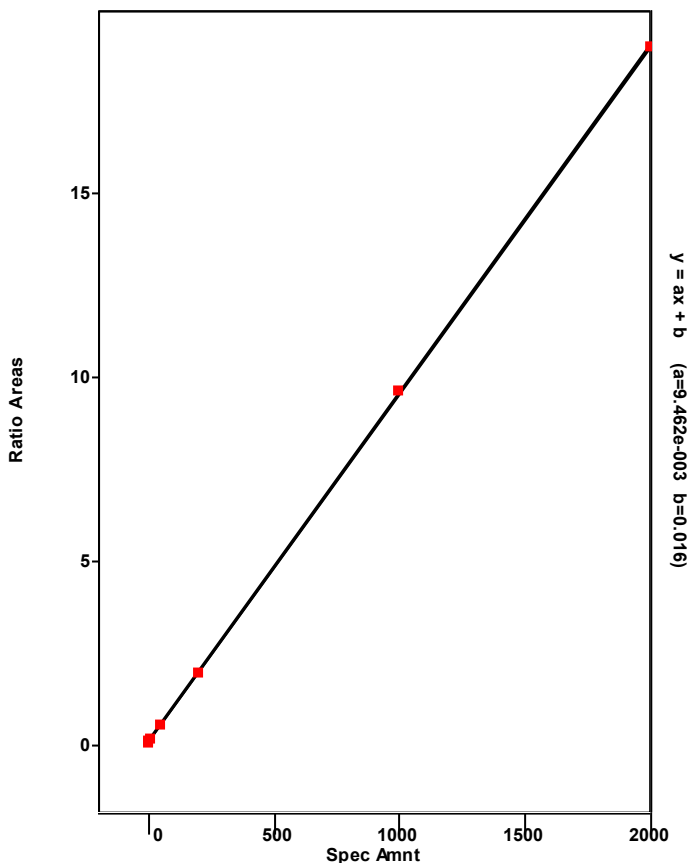


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	45477
RM1 Area	78446
RM1 Ratio (A)	1.7250
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

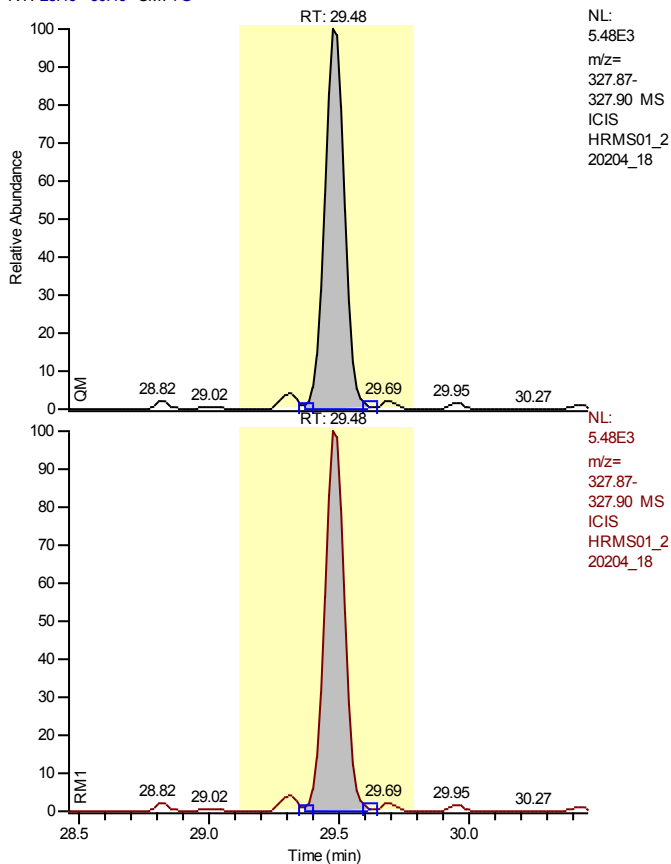
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.46 - 30.46 SM: 7G



NL:
 5.48E3
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_18

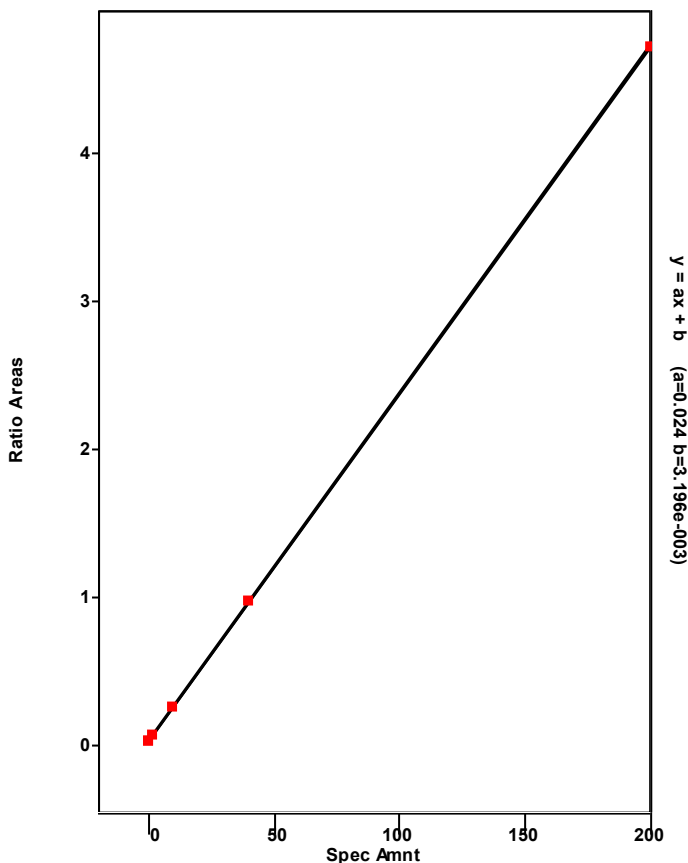
NL:
 5.48E3
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	28485
RM1 Area	28485
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

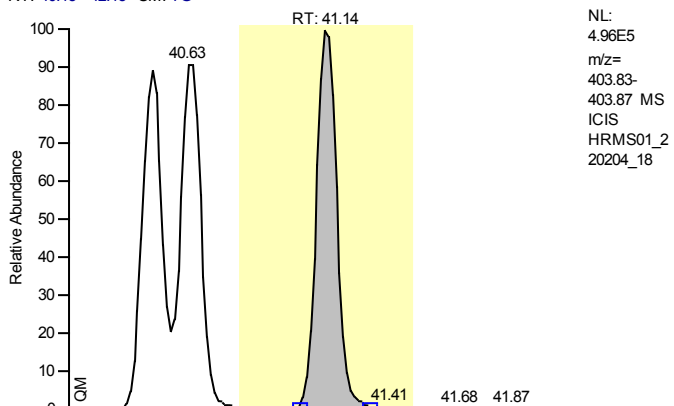
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

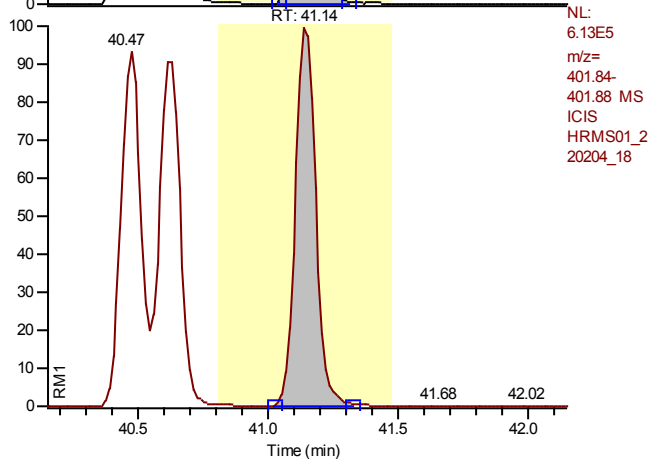
Entry Parameters

RT: 40.15 - 42.15 SM: 7G



NL:
 4.96E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2697648
RM1 Area	3338602
RM1 Ratio (A)	1.2376
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

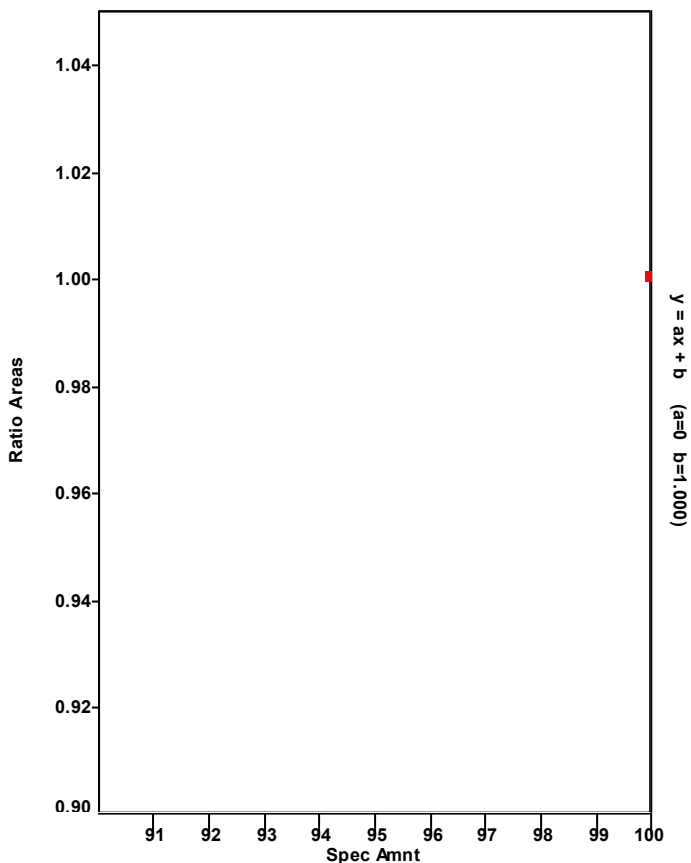


NL:
 6.13E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

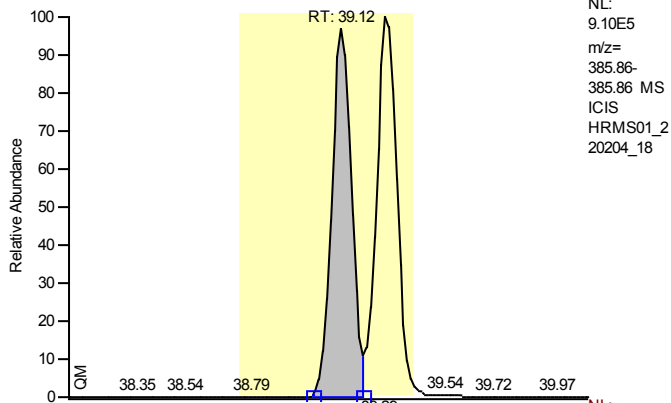
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

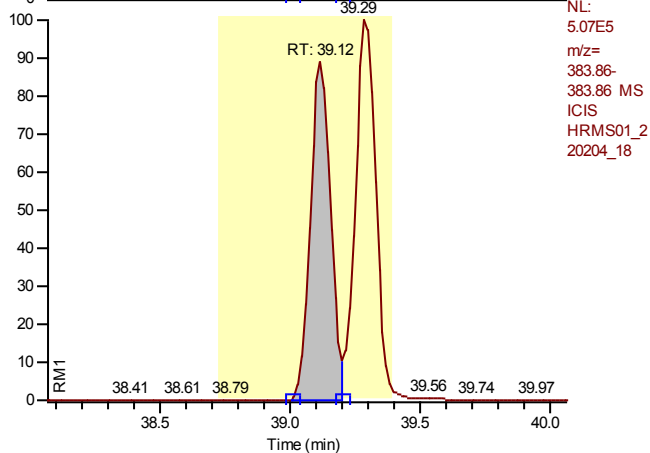
Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
 9.10E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	4697963
RM1 Area	2446011
RM1 Ratio (A)	0.5207
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

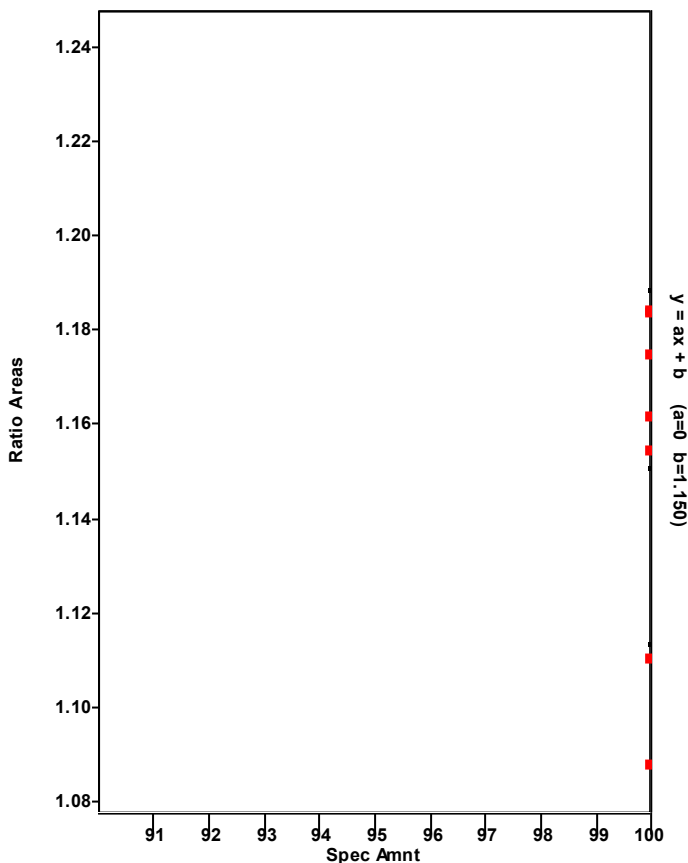


NL:
 5.07E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

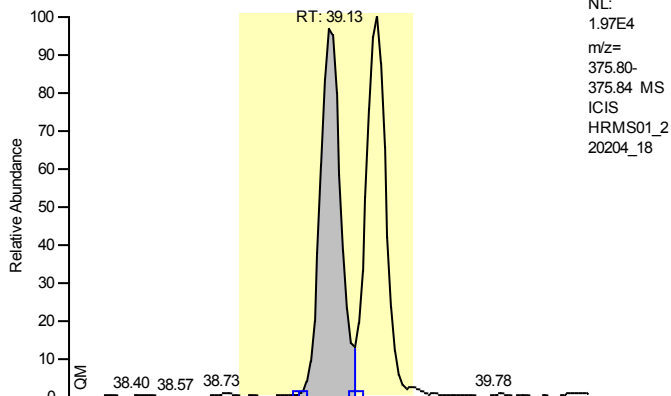
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



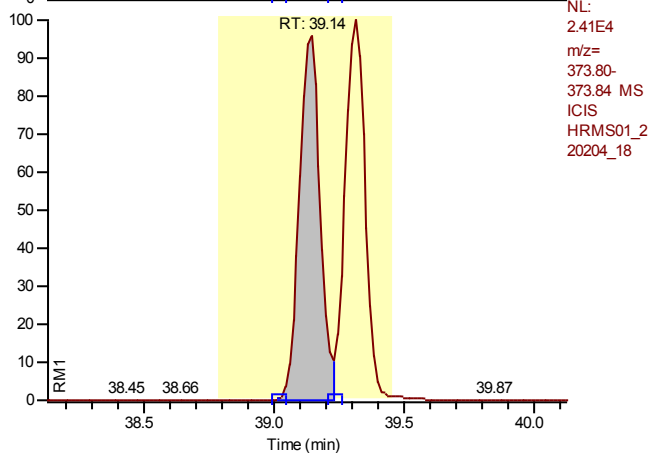
Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G



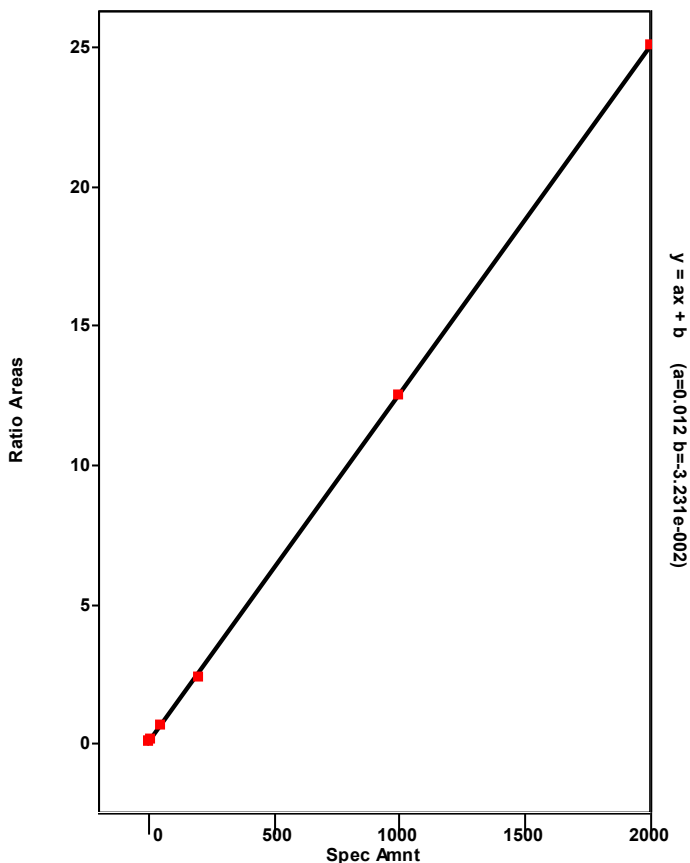
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	104859
RM1 Area	127438
RM1 Ratio (A)	1.2153
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

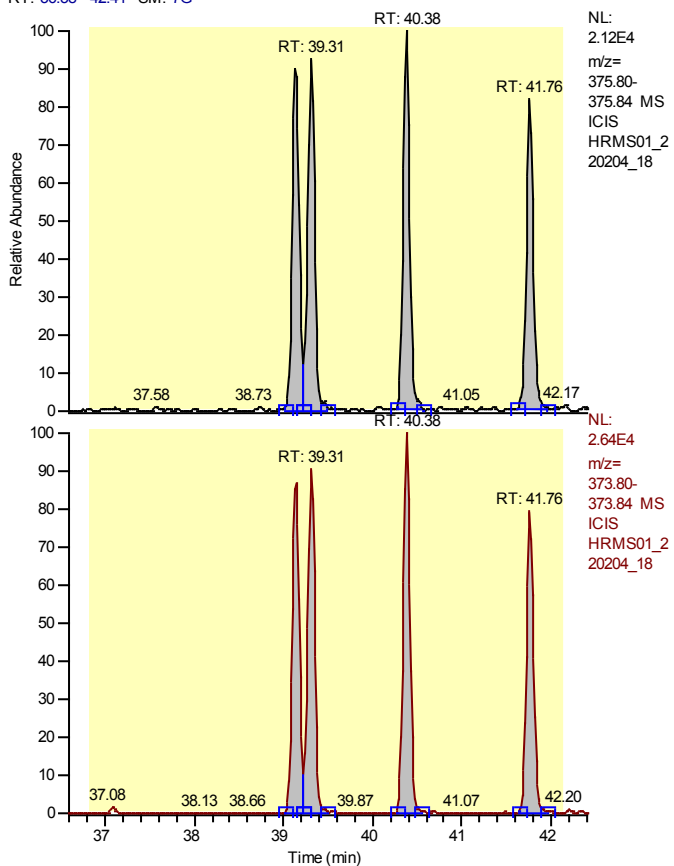
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.58 - 42.41 SM: 7G

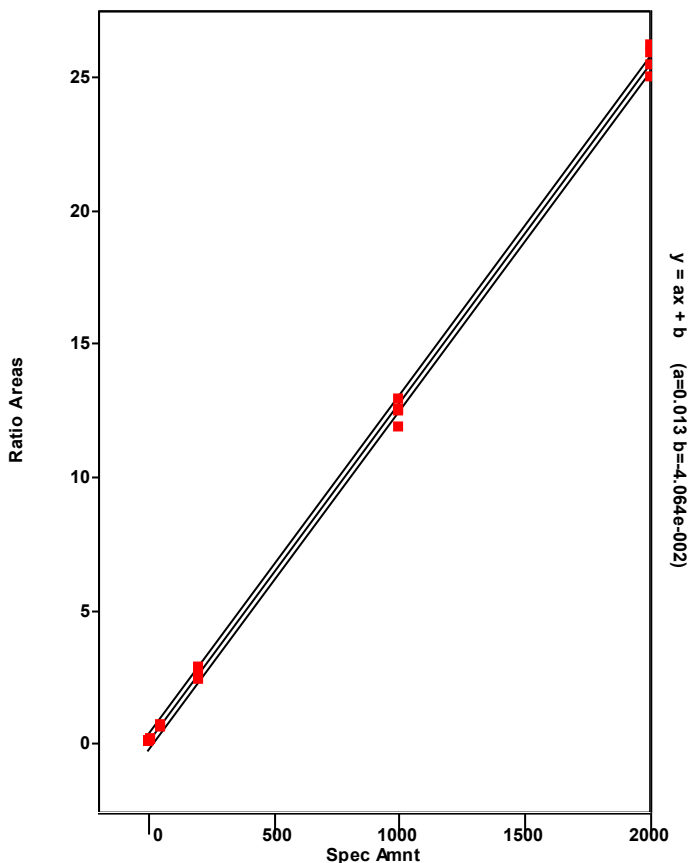


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	415267
RM1 Area	515724
RM1 Ratio (A)	1.2419
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	10.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

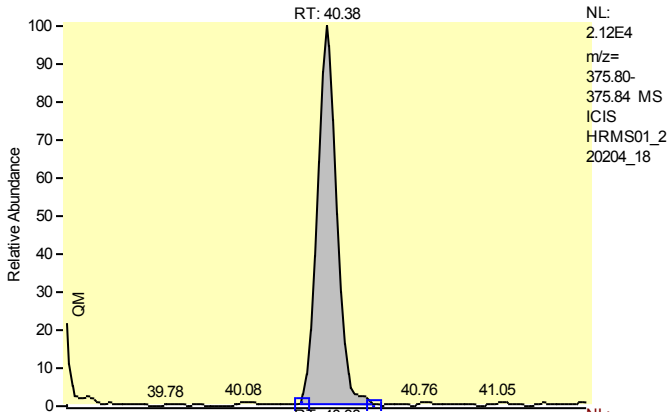
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

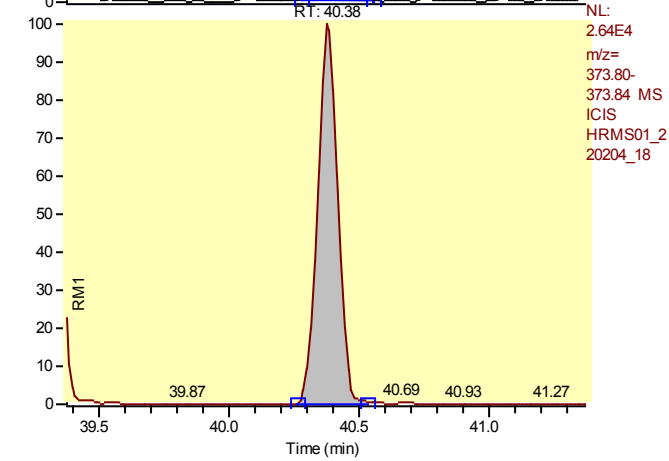
Entry Parameters

RT: 39.38 - 41.38 SM: 7G



NL:
2.12E4
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_18

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	109875
RM1 Area	141639
RM1 Ratio (A)	1.2891
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

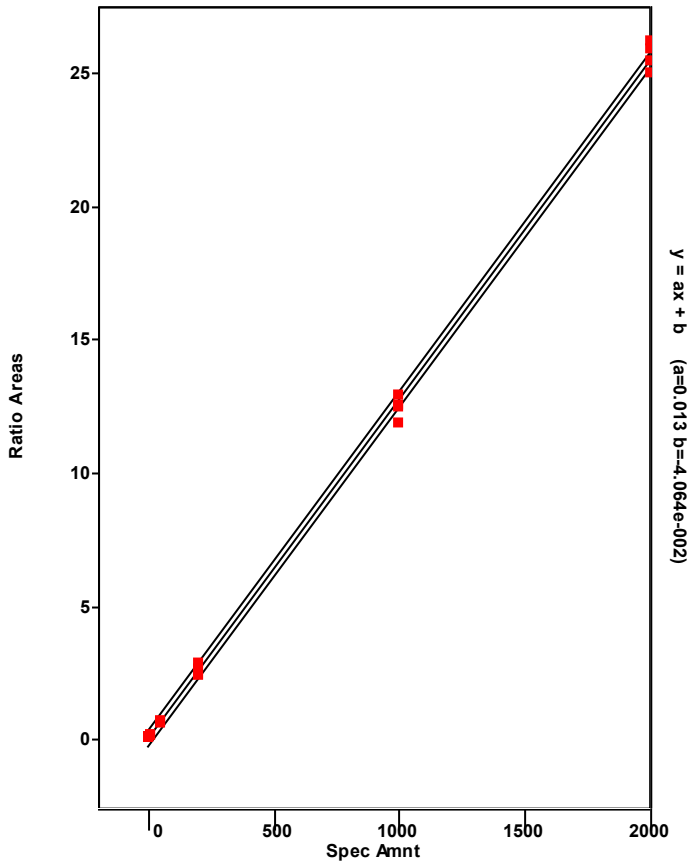


NL:
2.64E4
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_18

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

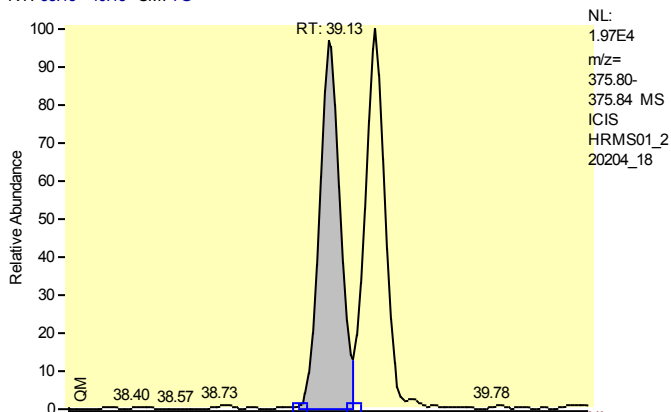
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



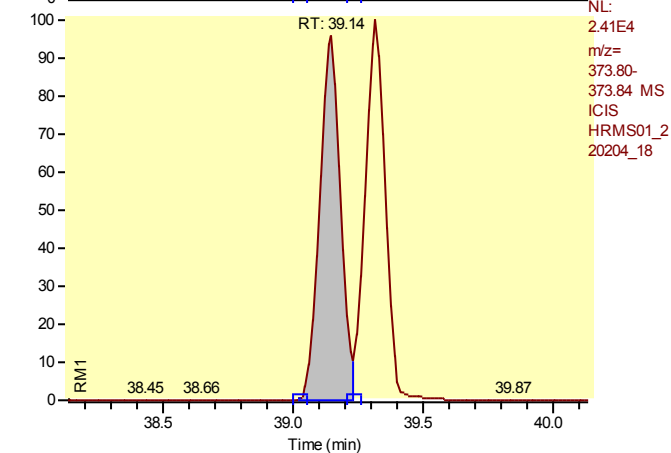
Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G



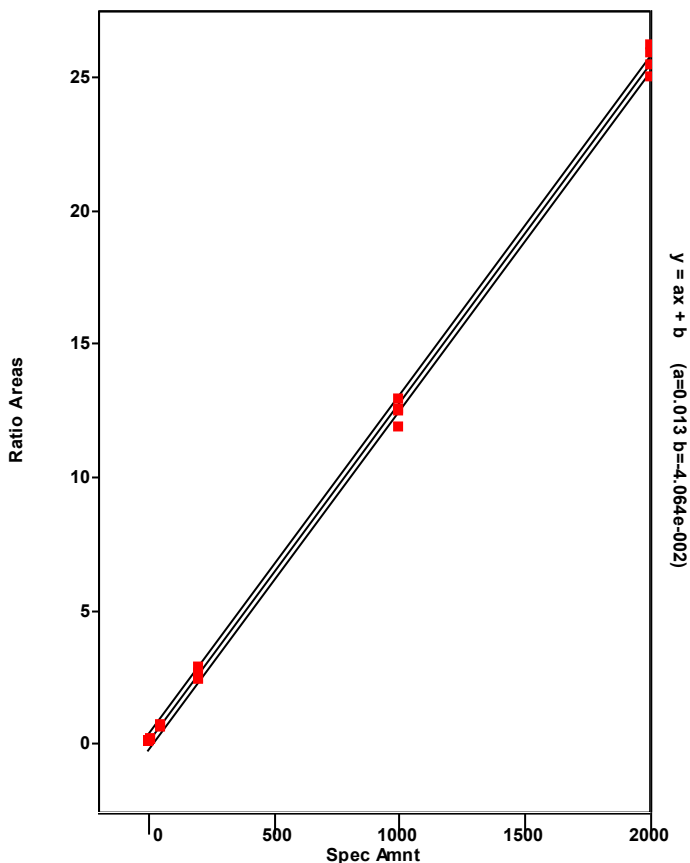
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	104859
RM1 Area	127438
RM1 Ratio (A)	1.2153
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

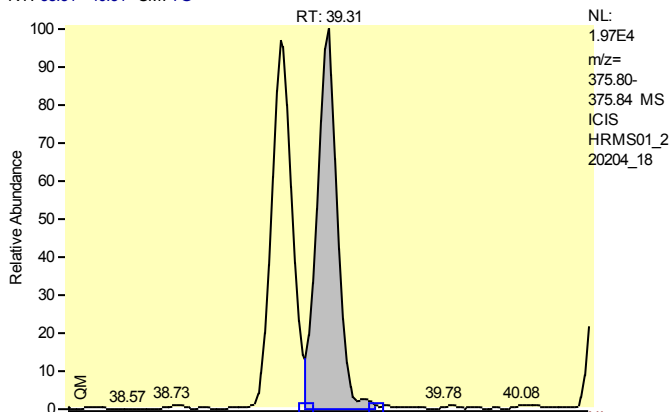
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



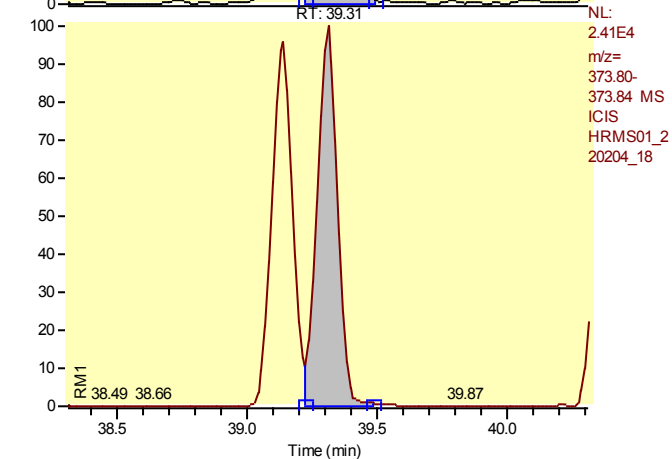
Chromatogram

Entry Parameters

RT: 38.31 - 40.31 SM: 7G



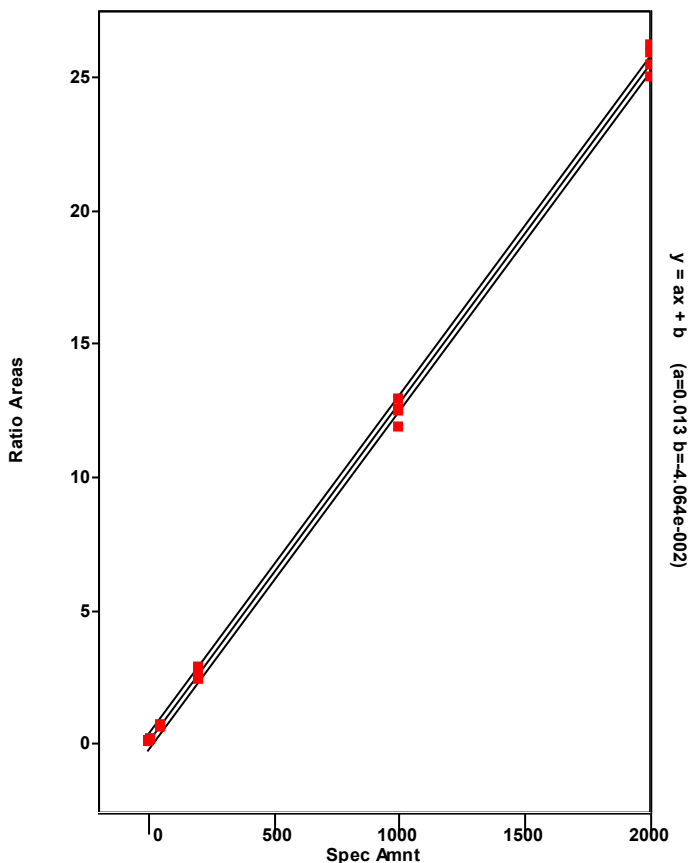
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	105145
RM1 Area	128739
RM1 Ratio (A)	1.2244
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

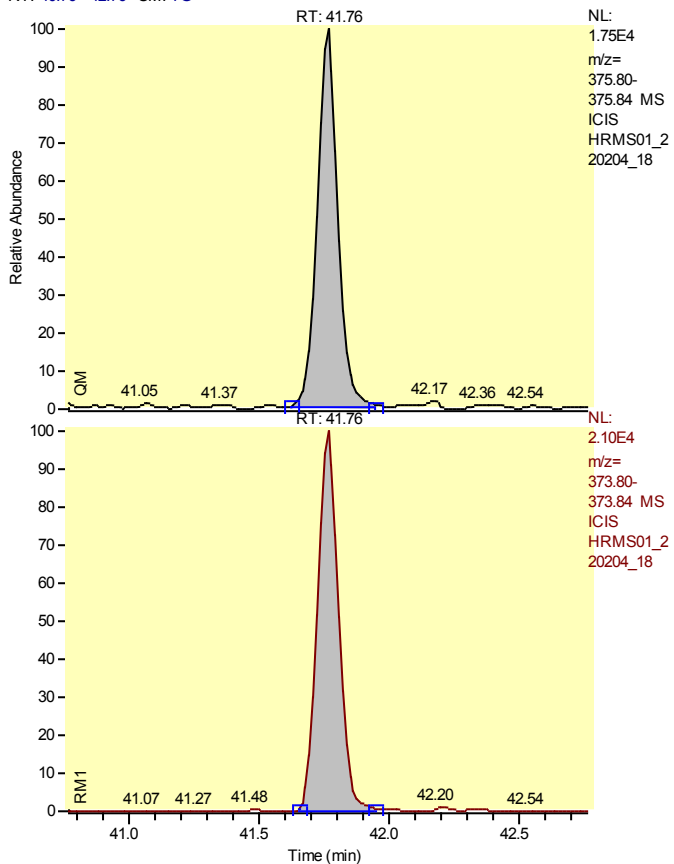
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.76 - 42.76 SM: 7G

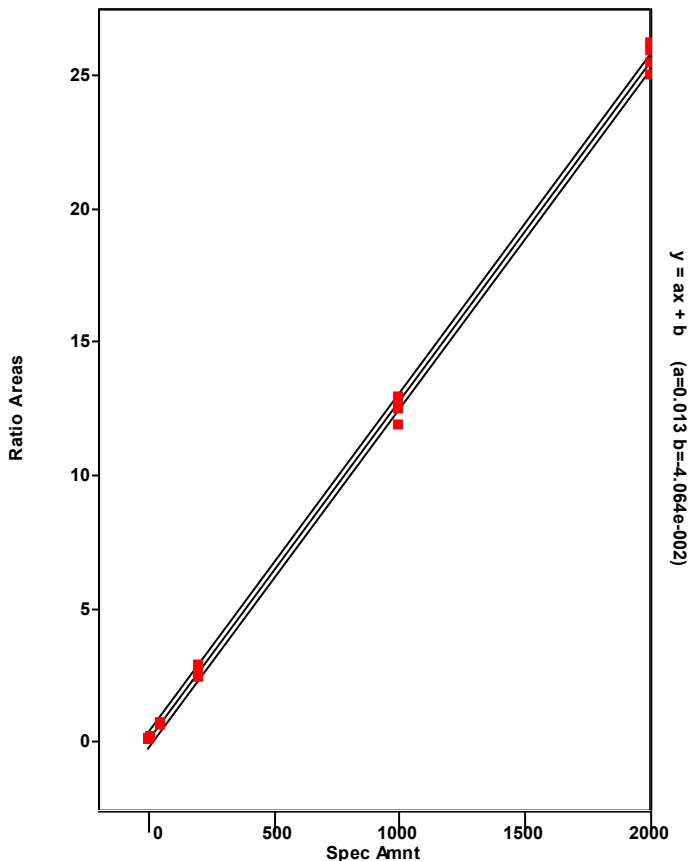


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	95388
RM1 Area	117907
RM1 Ratio (A)	1.2361
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

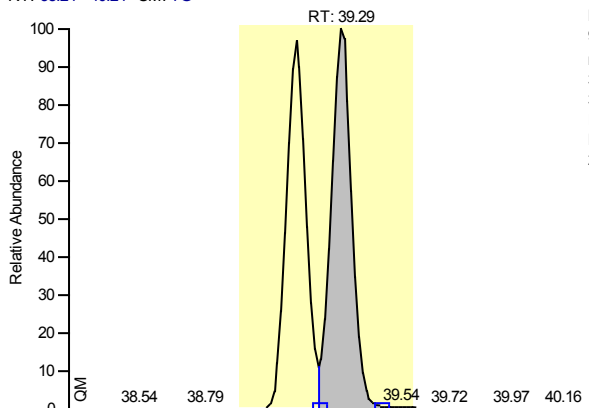
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

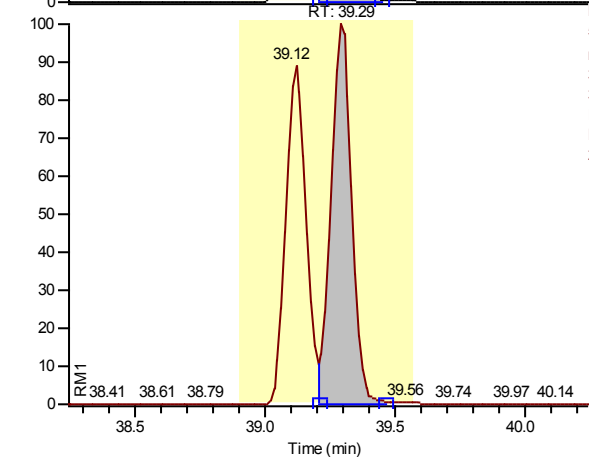
Entry Parameters

RT: 38.24 - 40.24 SM: 7G



NL: 9.10E5
 m/z= 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	5009083
RM1 Area	2799846
RM1 Ratio (A)	0.5590
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

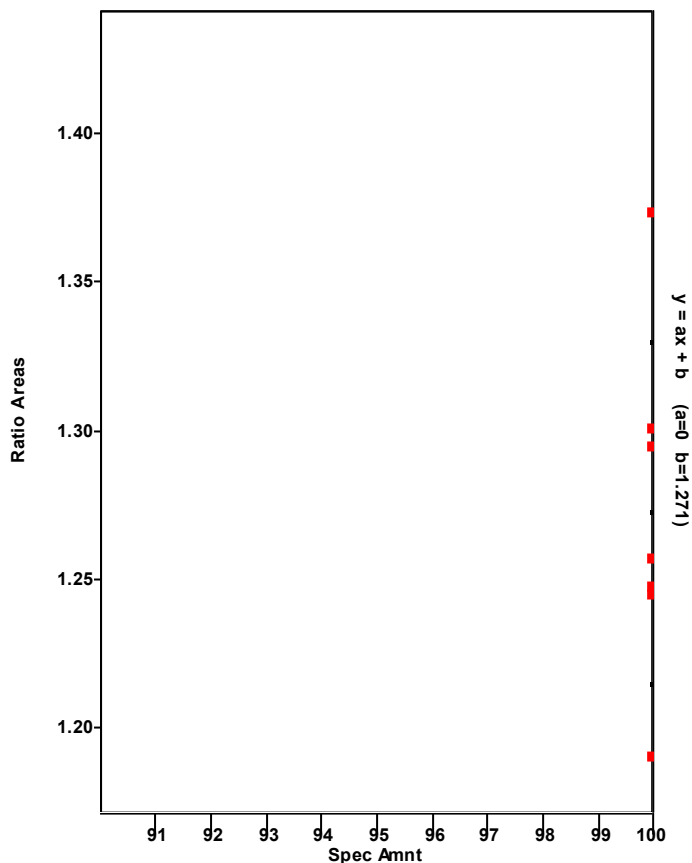


NL: 5.07E5
 m/z= 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

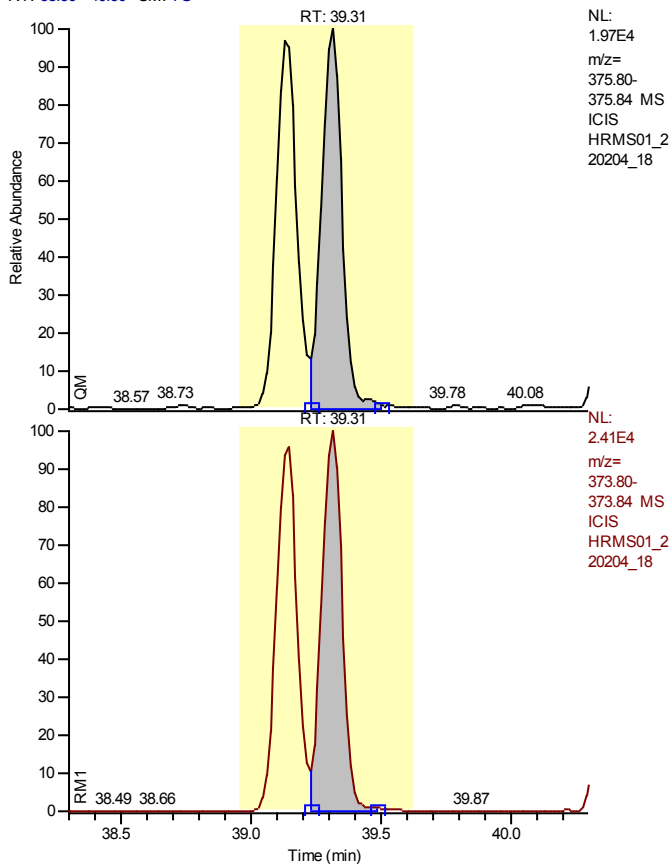
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.30 - 40.30 SM: 7G

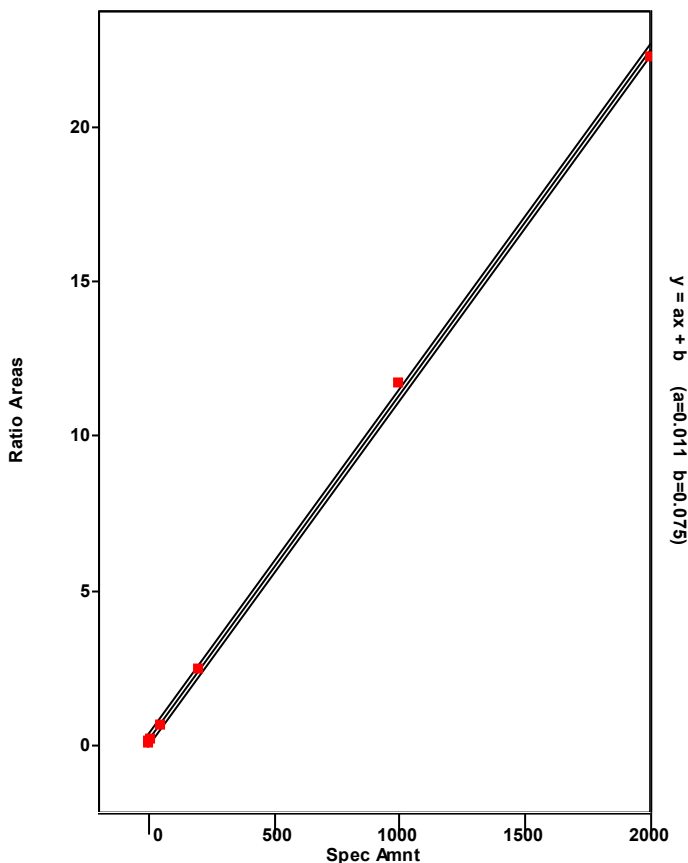


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	105145
RM1 Area	128739
RM1 Ratio (A)	1.2244
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

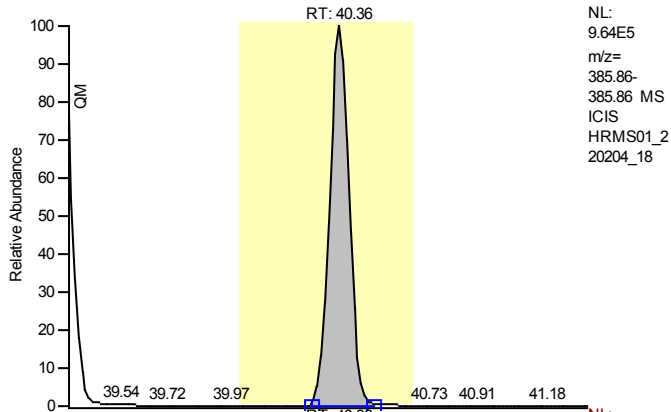
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

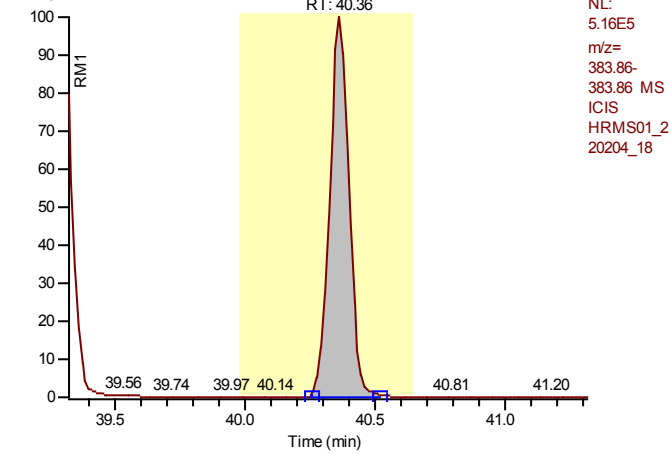
Entry Parameters

RT: 39.32 - 41.32 SM: 7G



NL:
 9.64E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	5074686
RM1 Area	2695300
RM1 Ratio (A)	0.5311
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

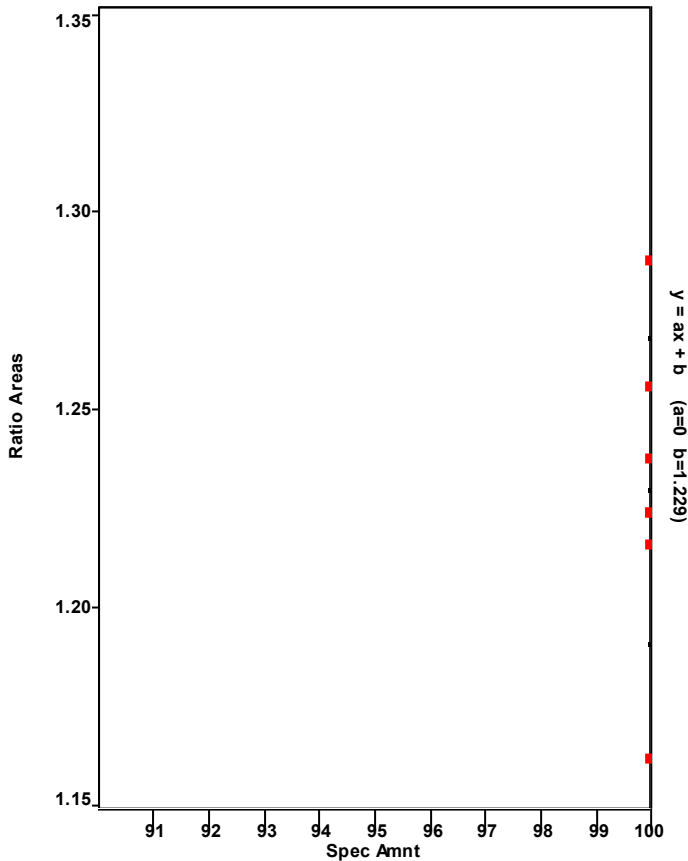


NL:
 5.16E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

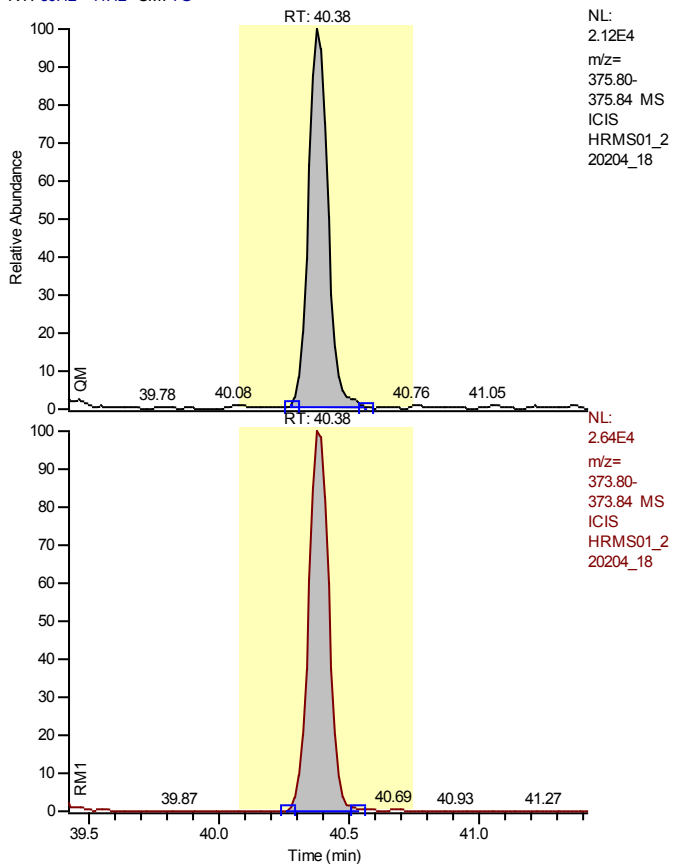
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.42 - 41.42 SM: 7G

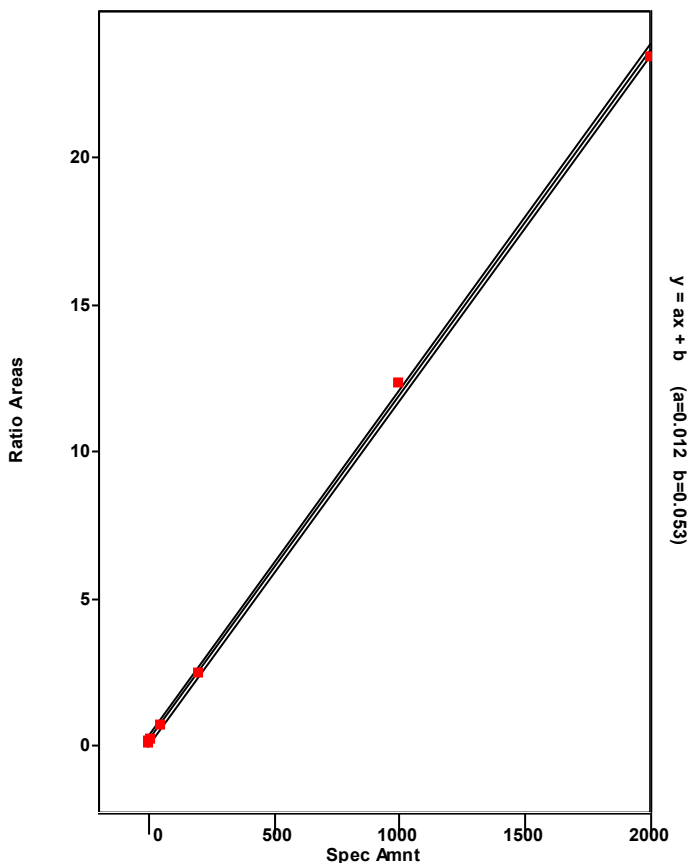


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	109875
RM1 Area	141639
RM1 Ratio (A)	1.2891
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

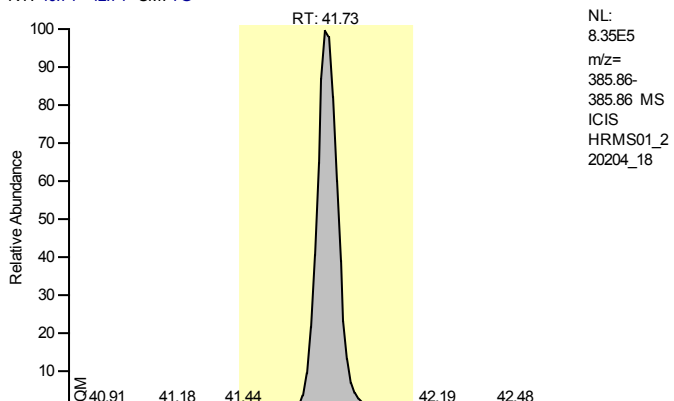
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



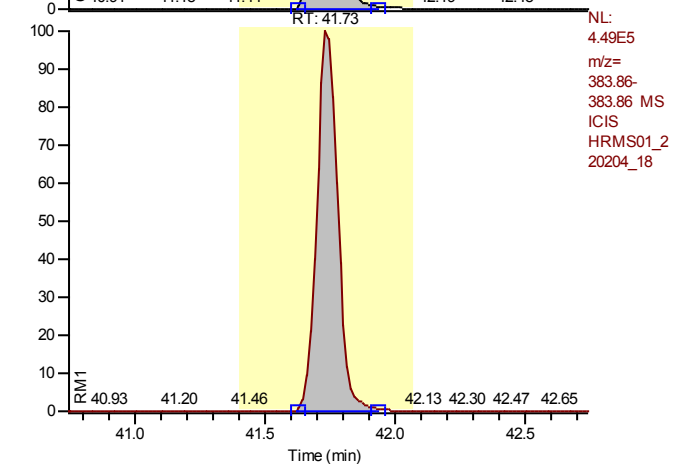
Chromatogram

Entry Parameters

RT: 40.74 - 42.74 SM: 7G



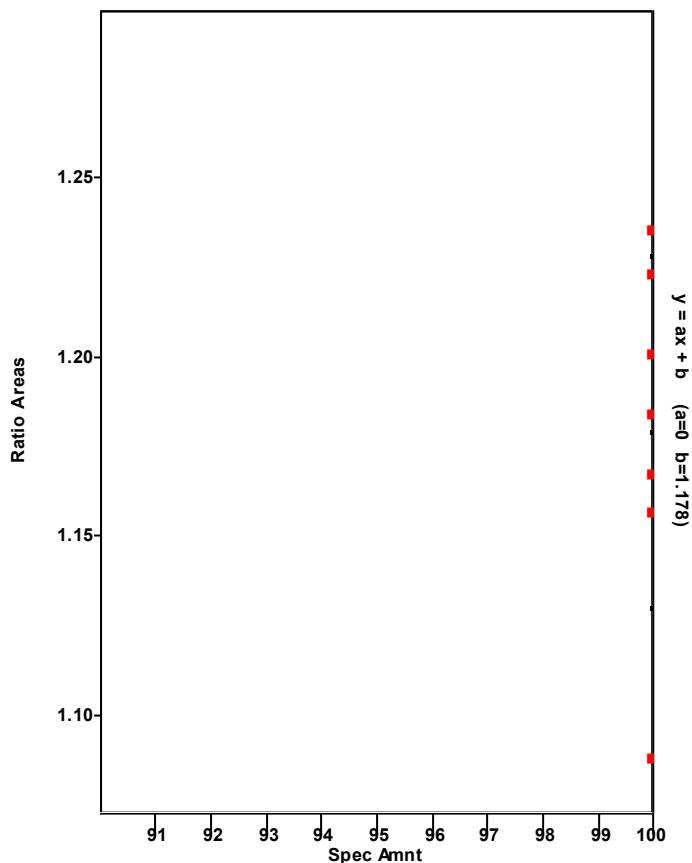
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	4718849
RM1 Area	2522938
RM1 Ratio (A)	0.5347
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

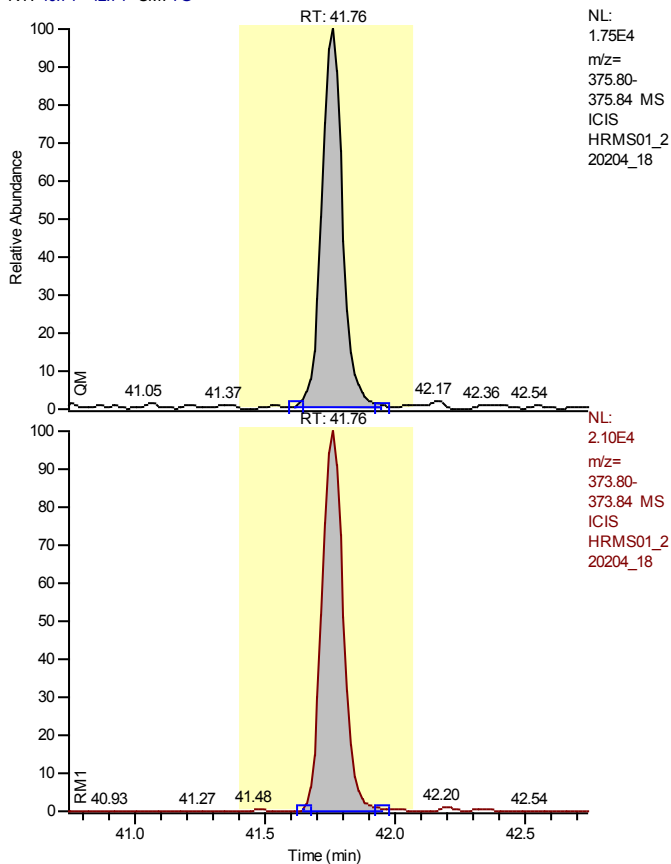
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.74 - 42.74 SM: 7G

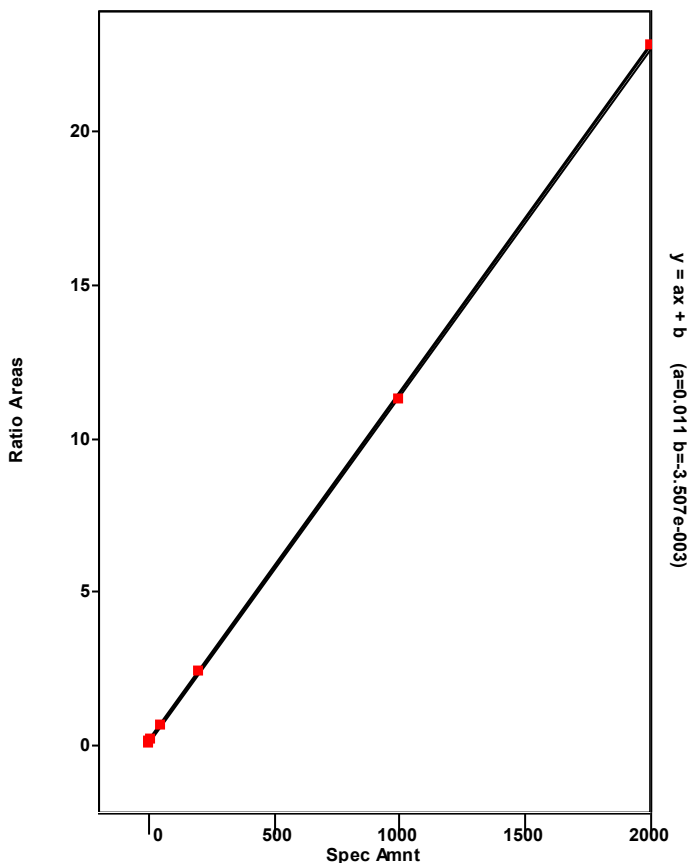


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	95388
RM1 Area	117907
RM1 Ratio (A)	1.2361
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

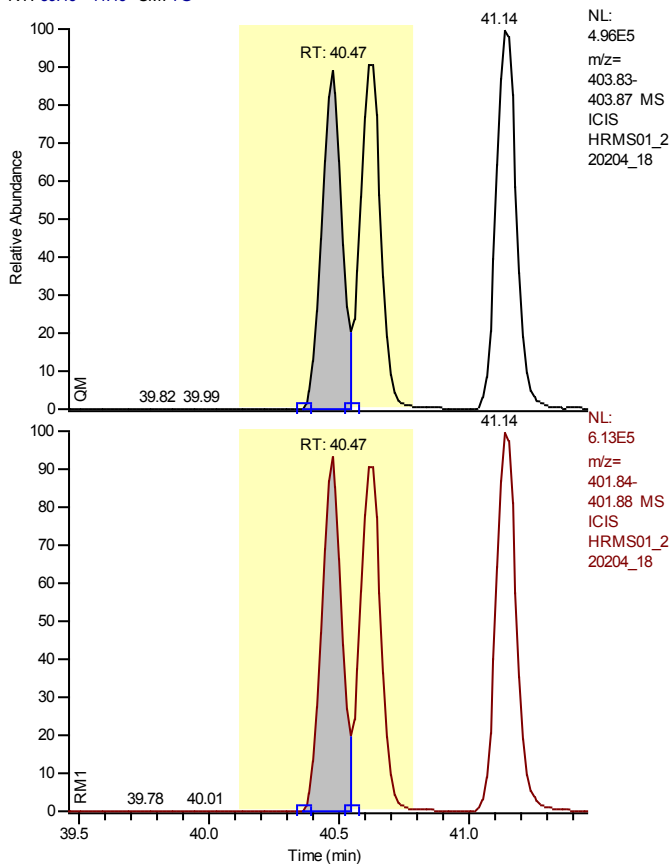
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

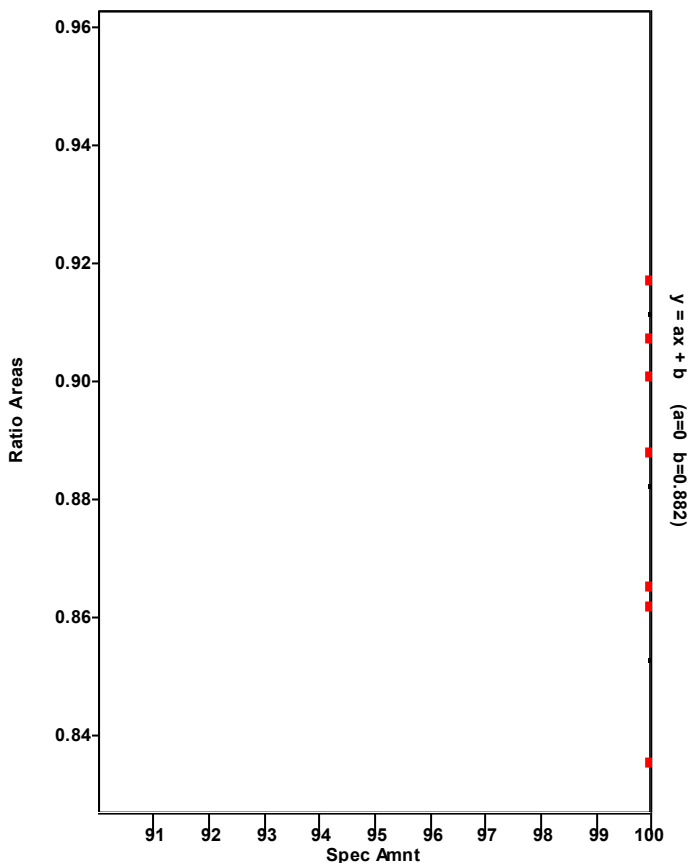
RT: 39.46 - 41.46 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2346468
RM1 Area	3008947
RM1 Ratio (A)	1.2823
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

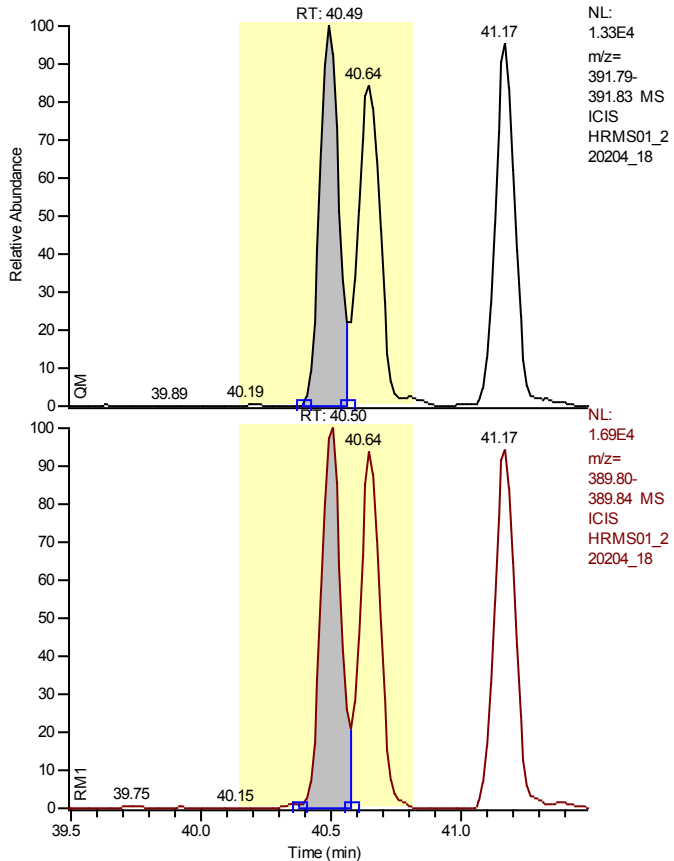
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G

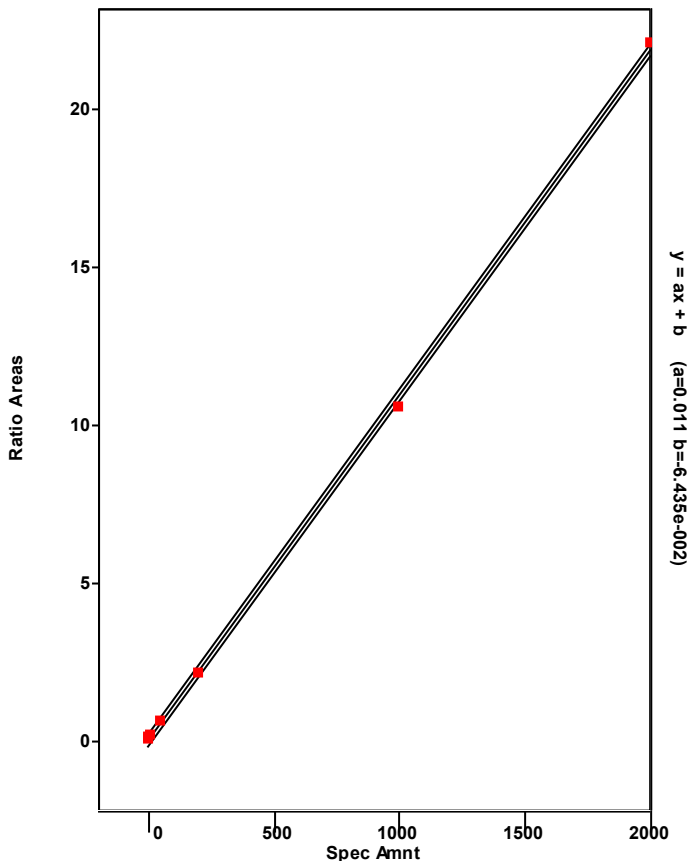


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	67133
RM1 Area	89298
RM1 Ratio (A)	1.3302
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

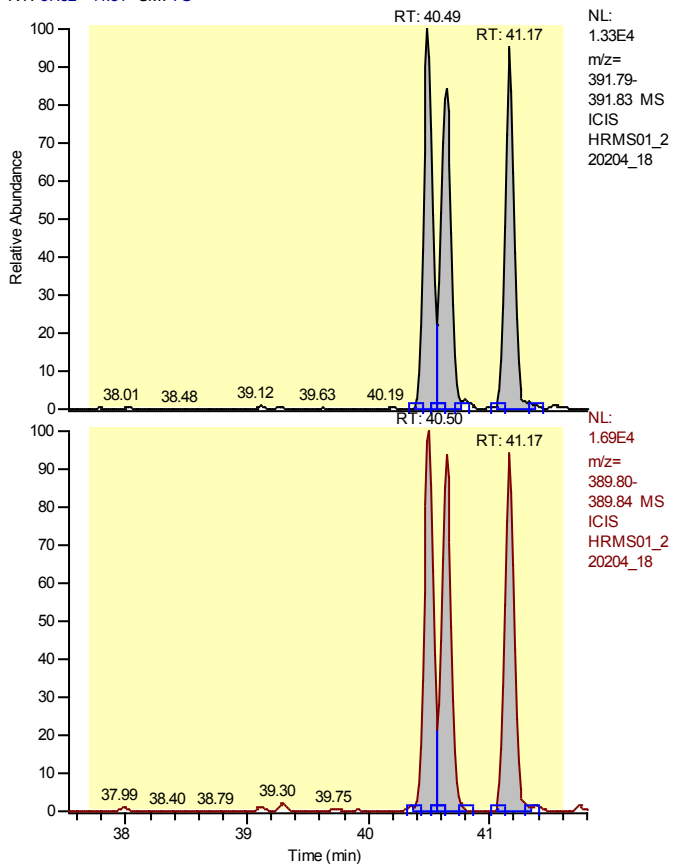
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.52 - 41.81 SM: 7G

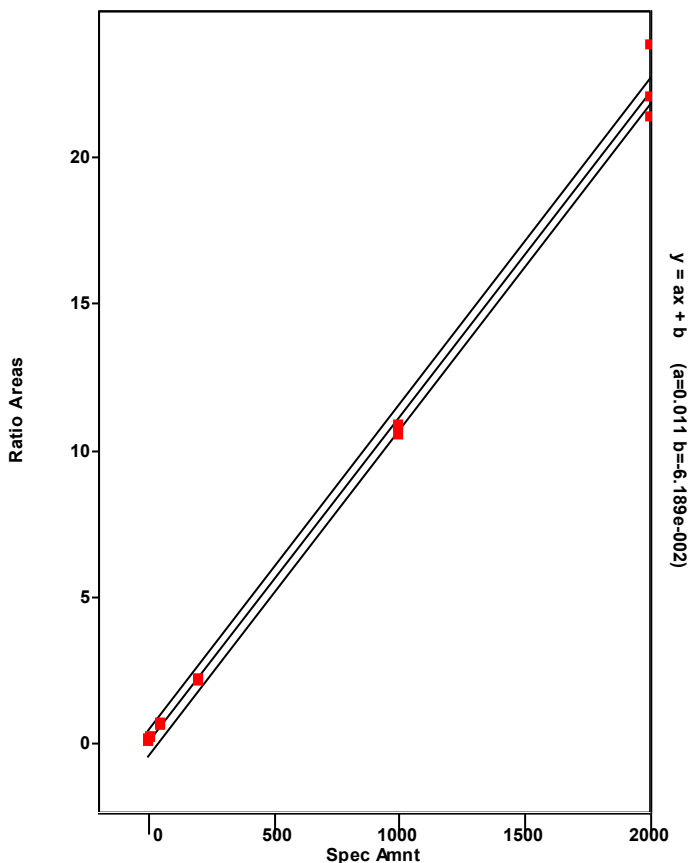


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	201580
RM1 Area	263205
RM1 Ratio (A)	1.3057
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	7.50
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

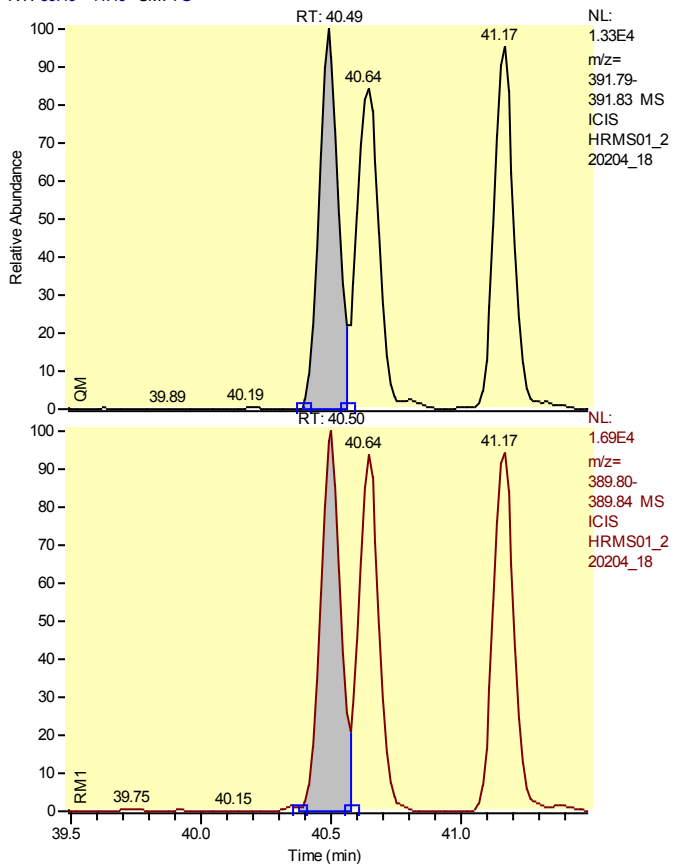
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G

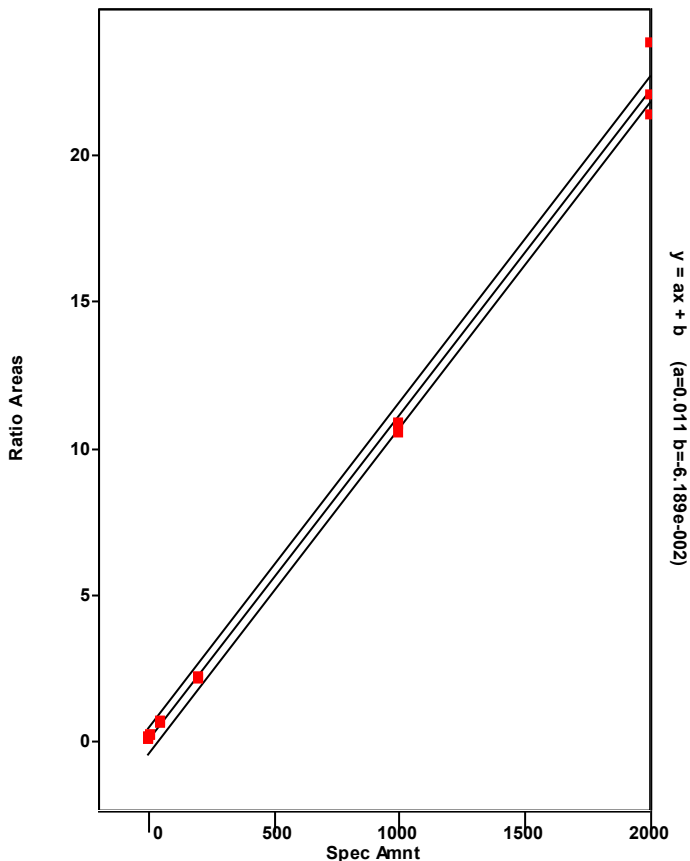


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	67133
RM1 Area	89298
RM1 Ratio (A)	1.3302
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

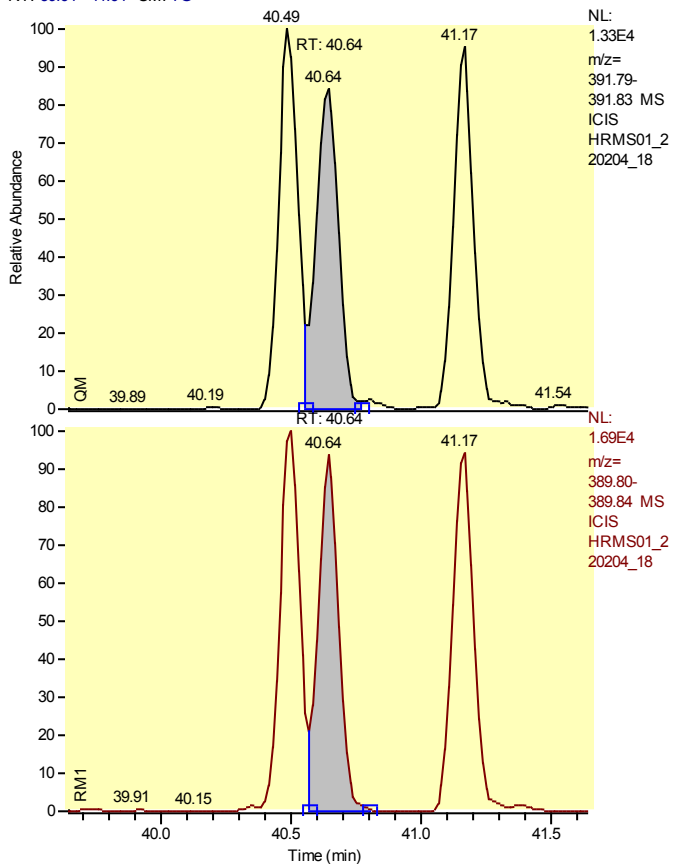
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G

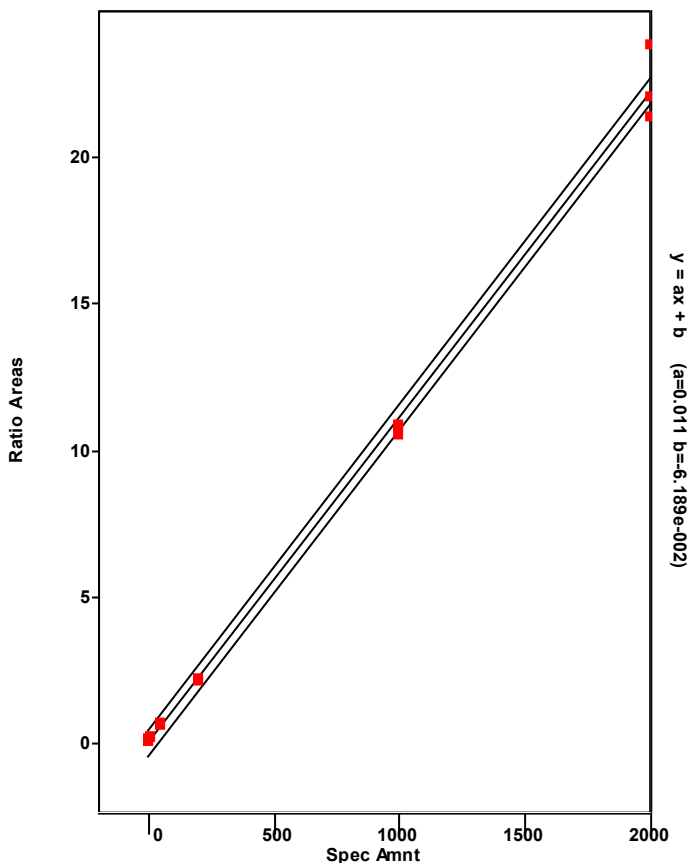


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	67503
RM1 Area	85270
RM1 Ratio (A)	1.2632
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

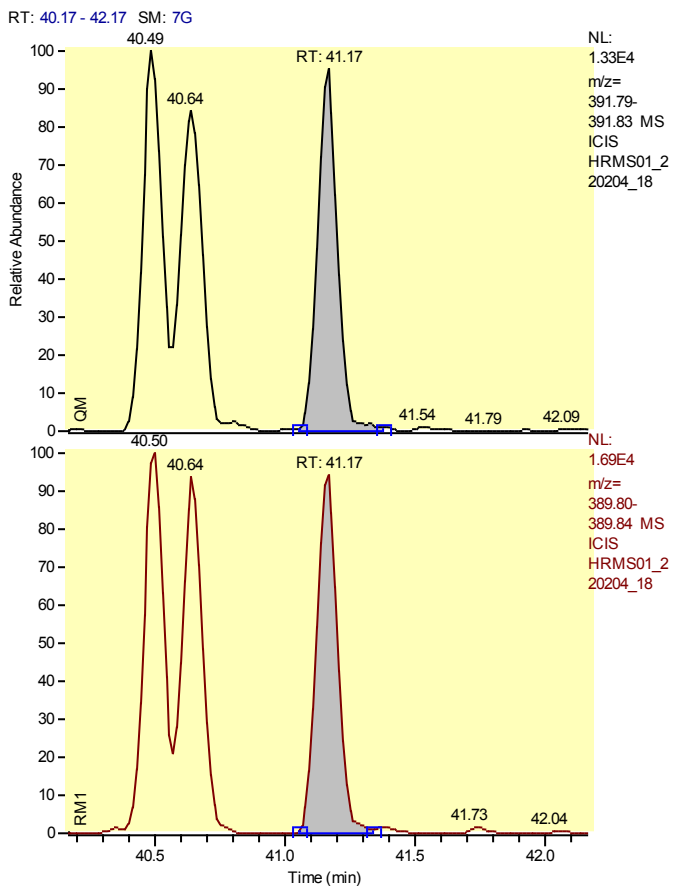
Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

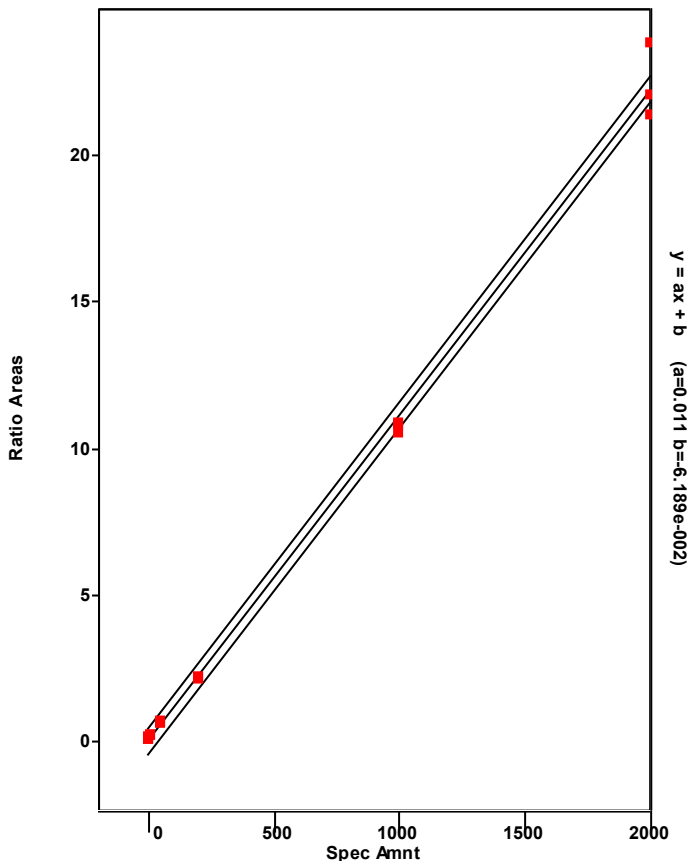


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	66945
RM1 Area	88638
RM1 Ratio (A)	1.3240
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

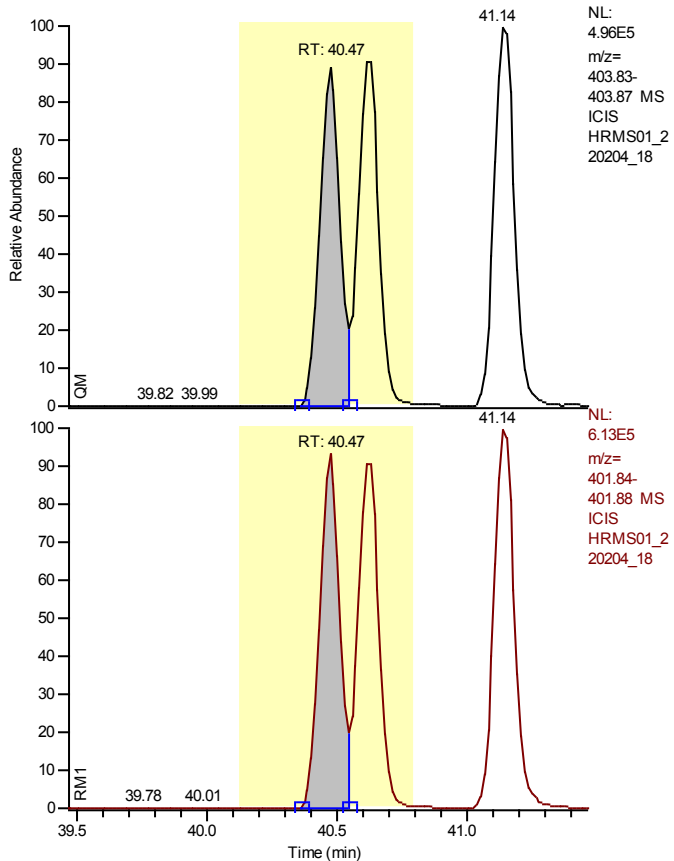
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

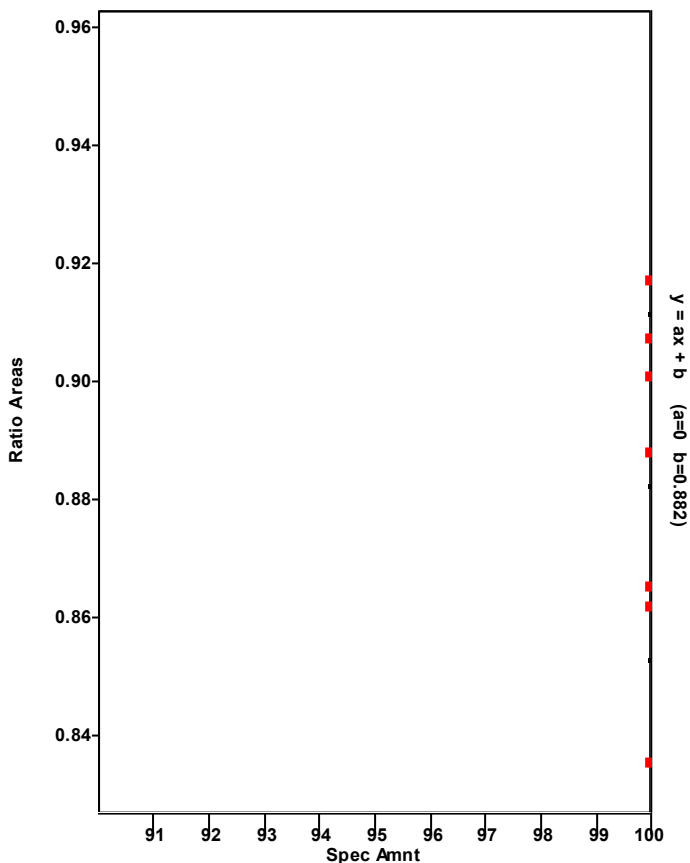
RT: 39.47 - 41.47 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2346468
RM1 Area	3008947
RM1 Ratio (A)	1.2823
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

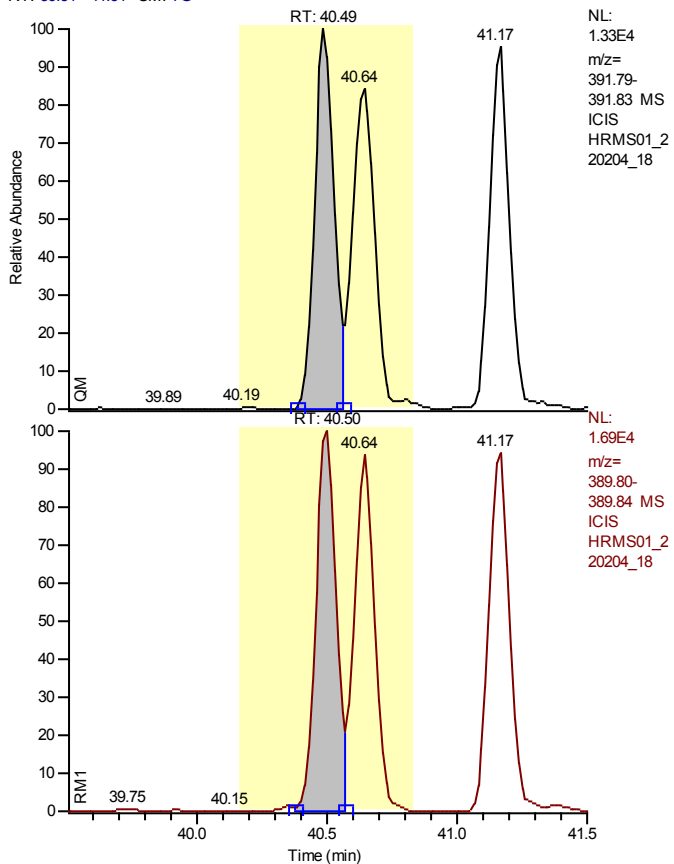
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.51 - 41.51 SM: 7G

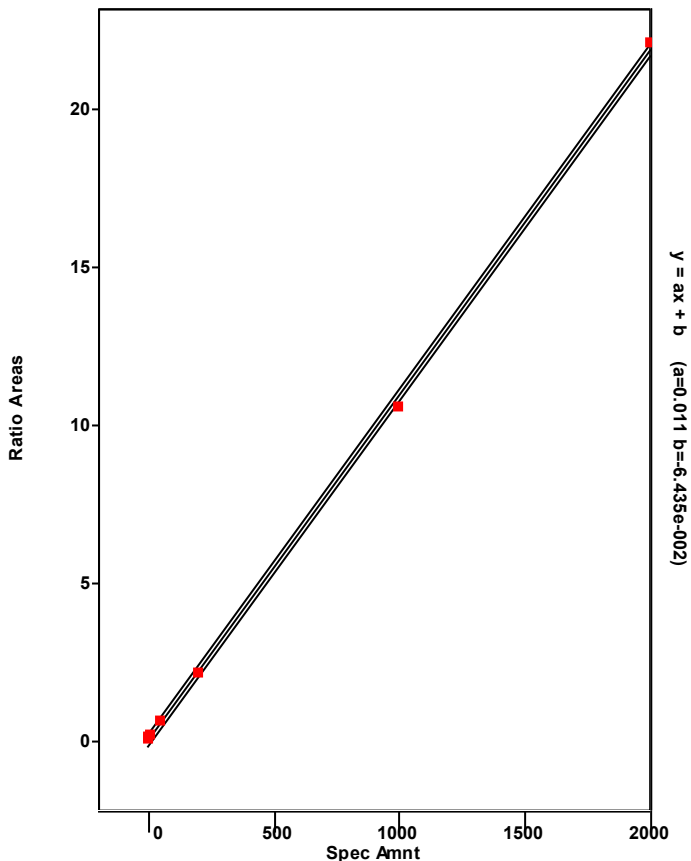


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	67133
RM1 Area	89298
RM1 Ratio (A)	1.3302
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

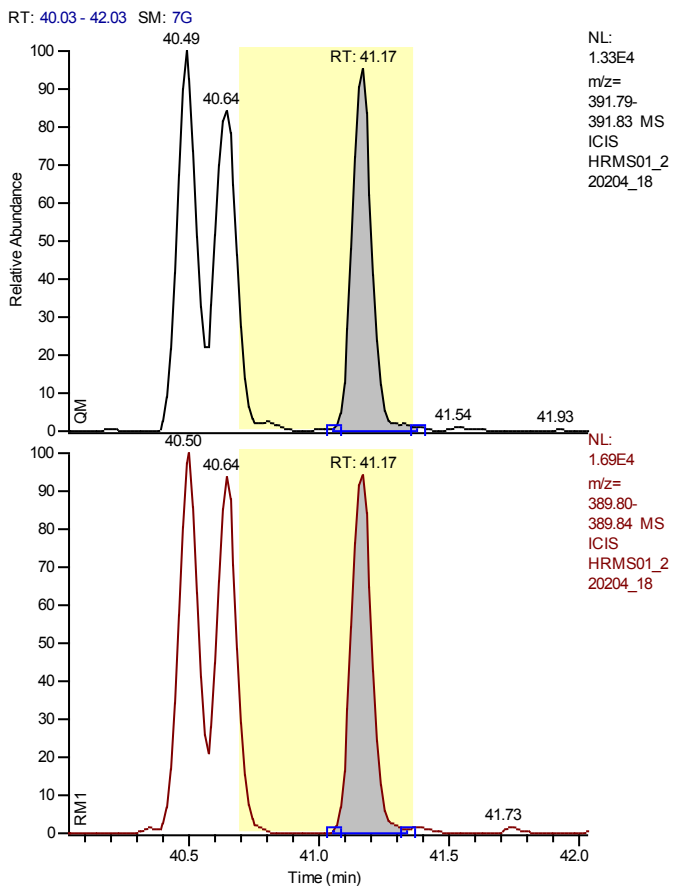
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters



NL:
 1.33E4
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20204_18

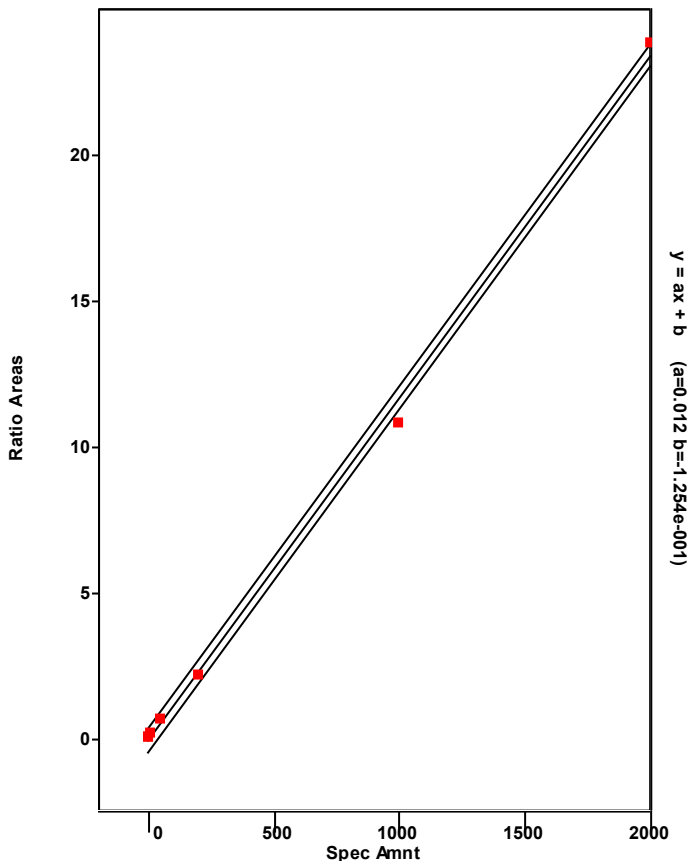
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	66945
RM1 Area	88638
RM1 Ratio (A)	1.3240
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

NL:
 1.69E4
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

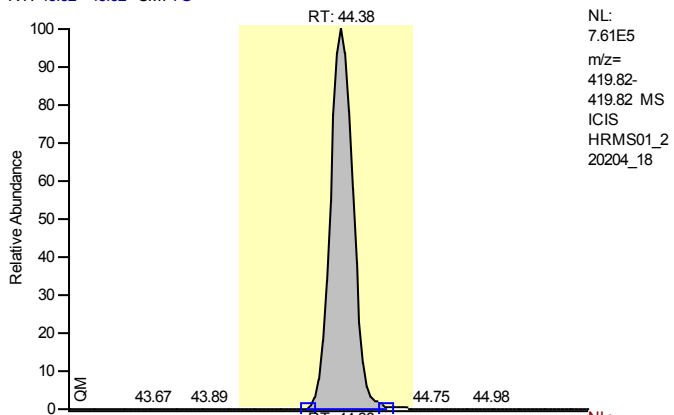
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



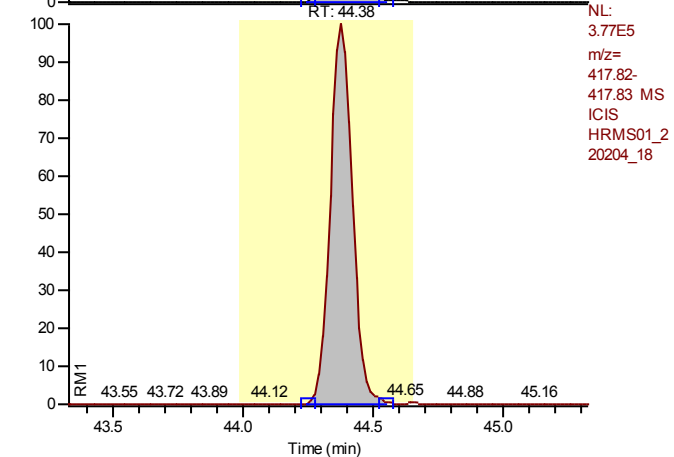
Chromatogram

Entry Parameters

RT: 43.32 - 45.32 SM: 7G

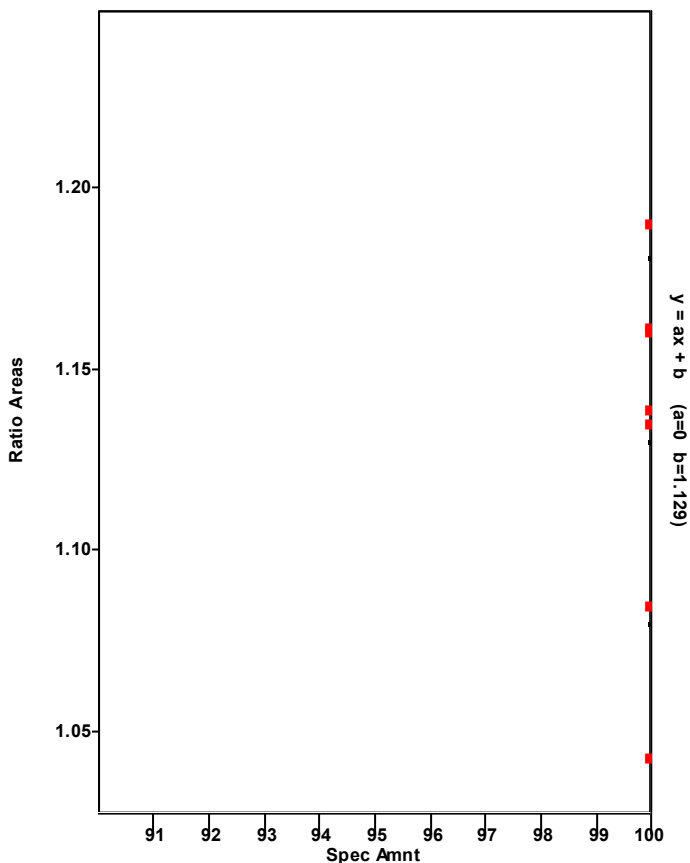


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4638436
RM1 Area	2230004
RM1 Ratio (A)	0.4808
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

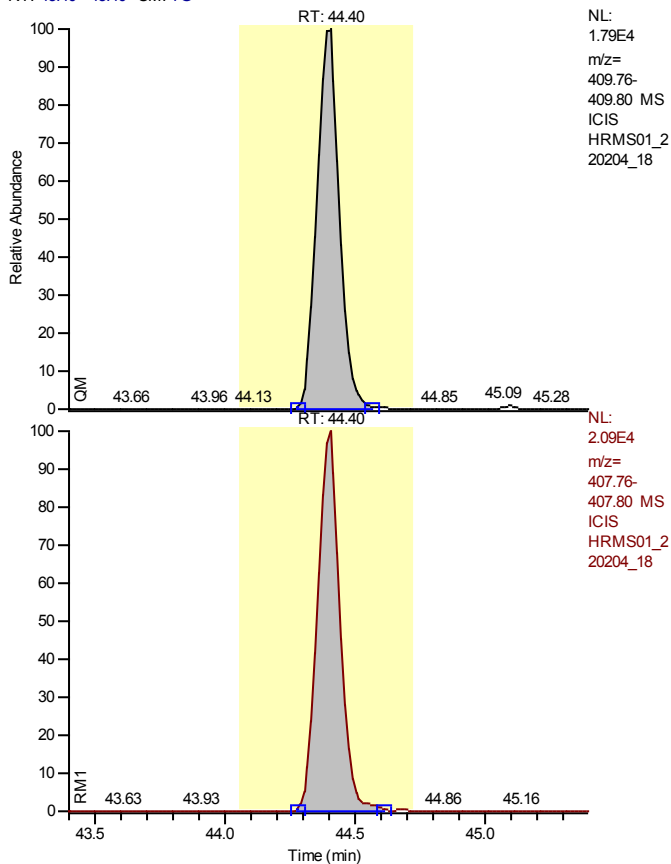
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.40 - 45.40 SM: 7G



NL:
 1.79E4
 m/z=
 409.76-
 409.80 MS
 ICIS
 HRMS01_2
 20204_18

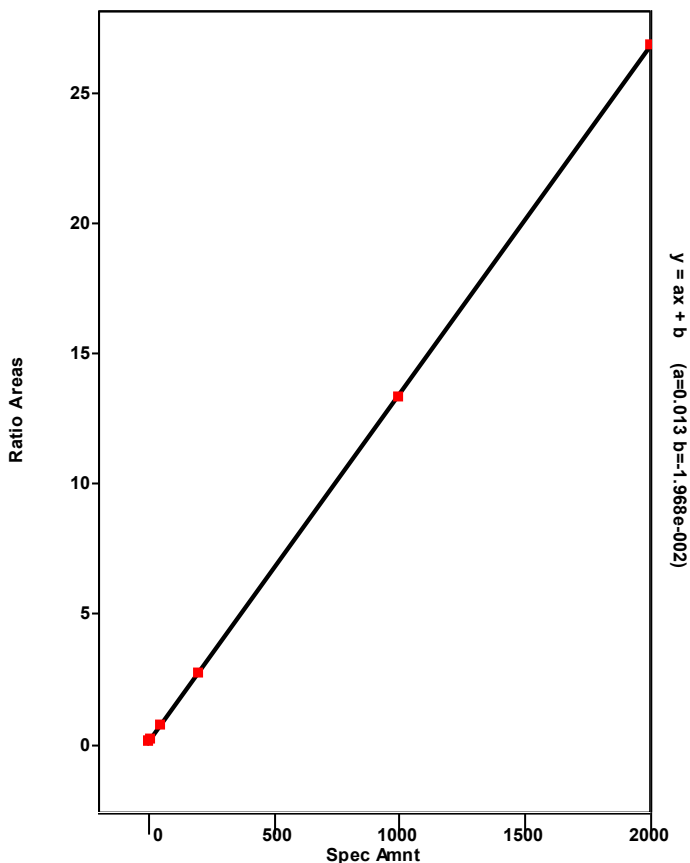
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	107930
RM1 Area	125514
RM1 Ratio (A)	1.1629
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

NL:
 2.09E4
 m/z=
 407.76-
 407.80 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

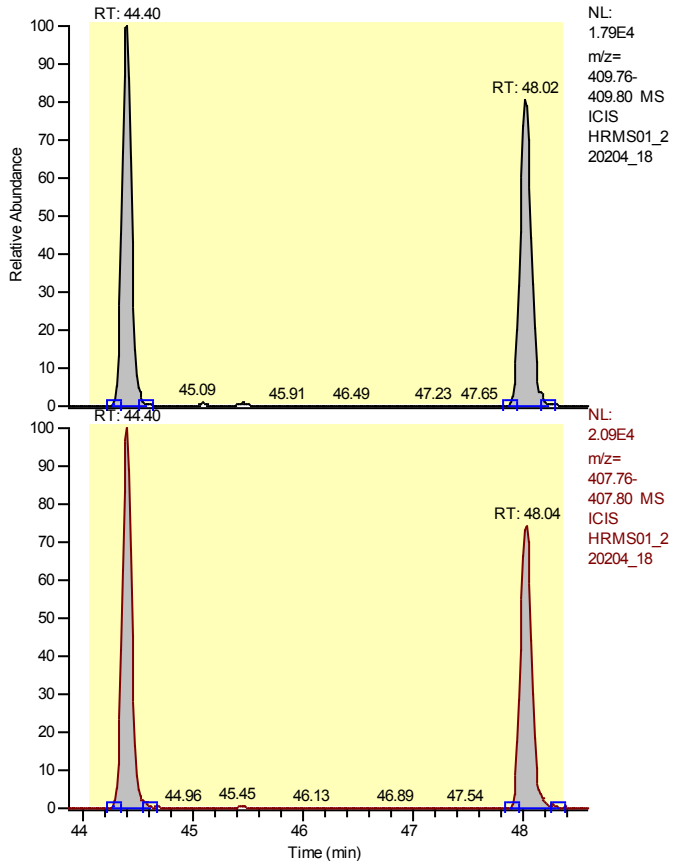
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

RT: 43.86 - 48.59 SM: 7G



NL:
1.79E4
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20204_18

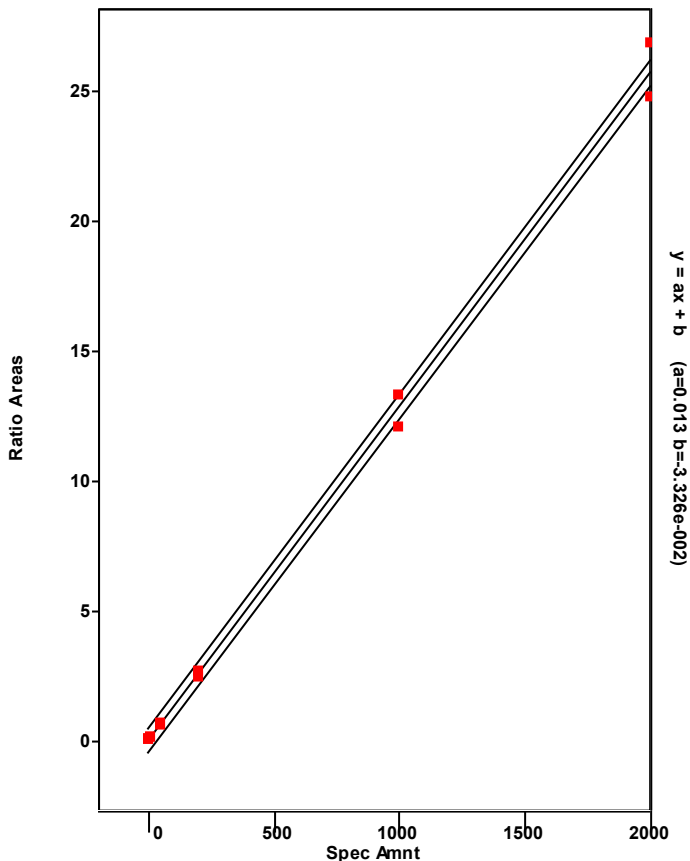
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	210931
RM1 Area	238802
RM1 Ratio (A)	1.1321
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	5.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

NL:
2.09E4
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20204_18

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

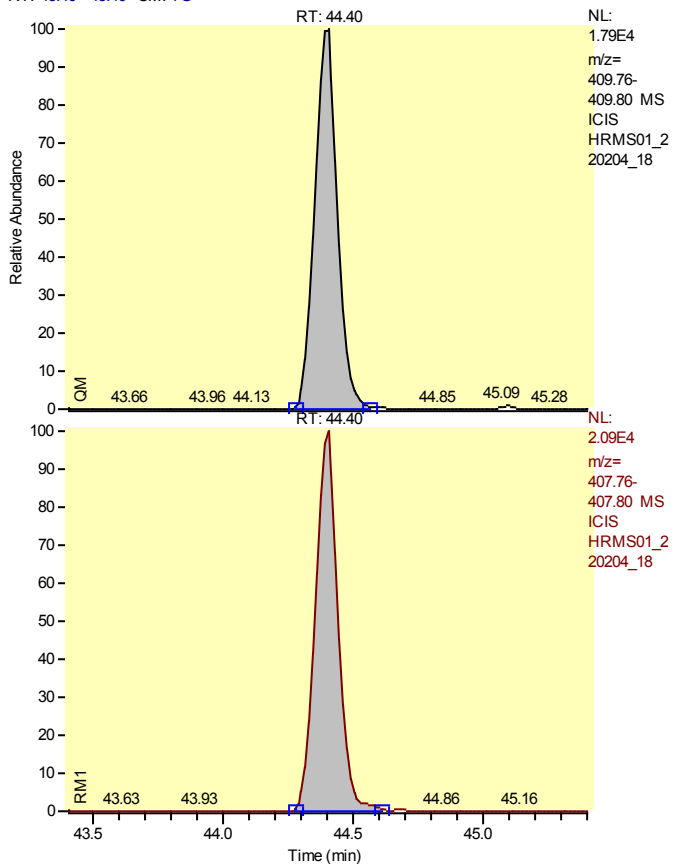
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.40 - 45.40 SM: 7G

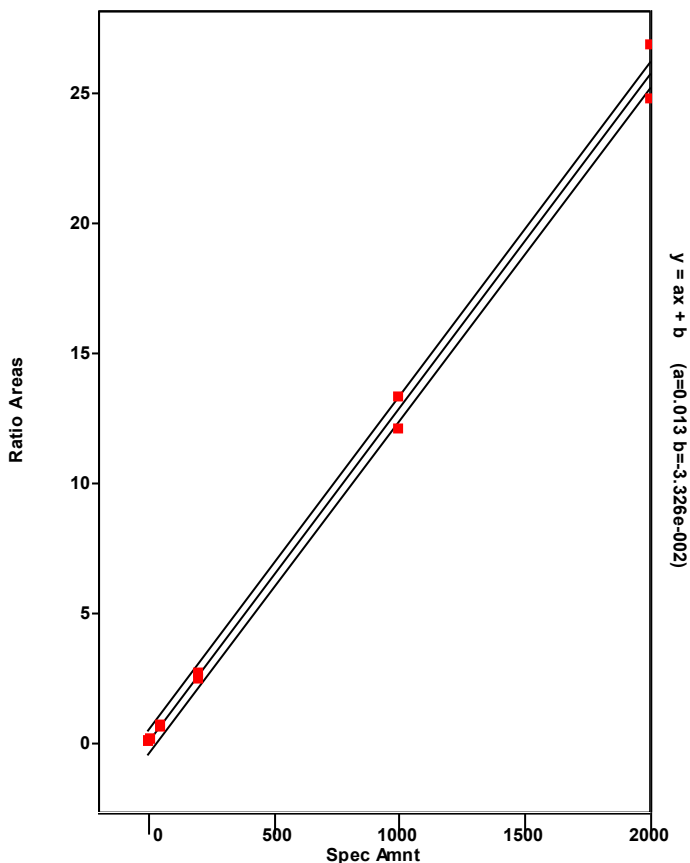


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	107930
RM1 Area	125514
RM1 Ratio (A)	1.1629
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

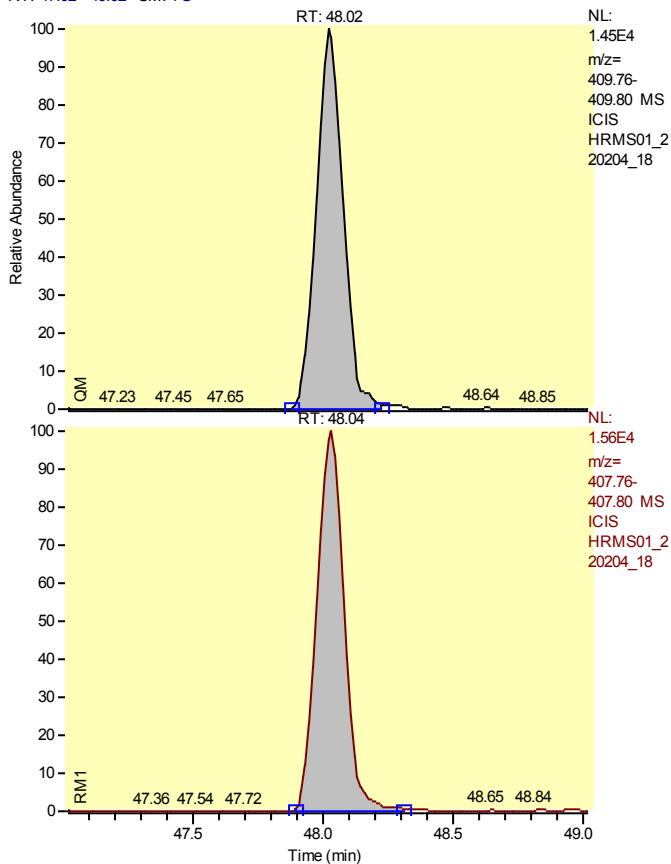
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 47.02 - 49.02 SM: 7G

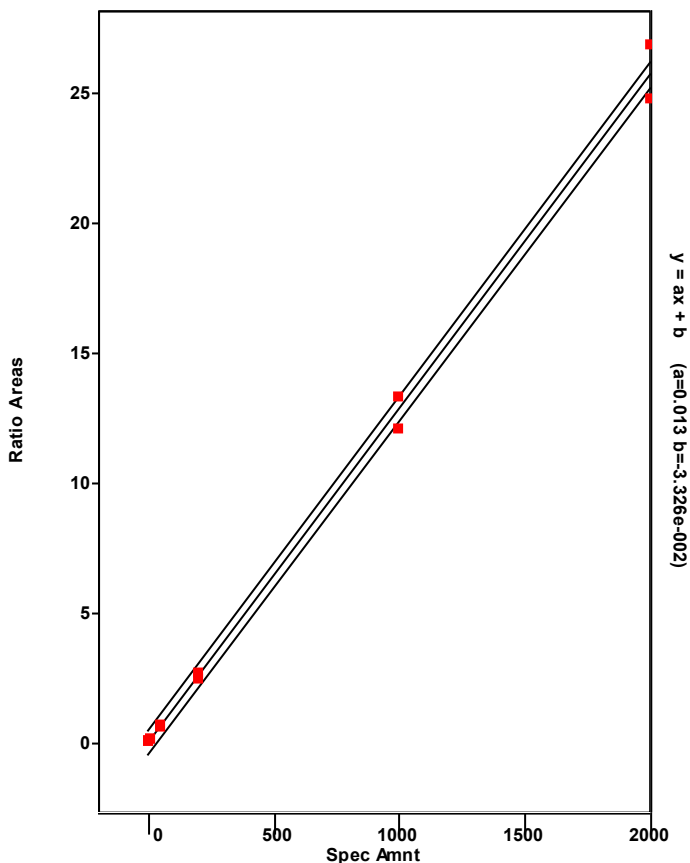


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	103000
RM1 Area	113289
RM1 Ratio (A)	1.0999
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

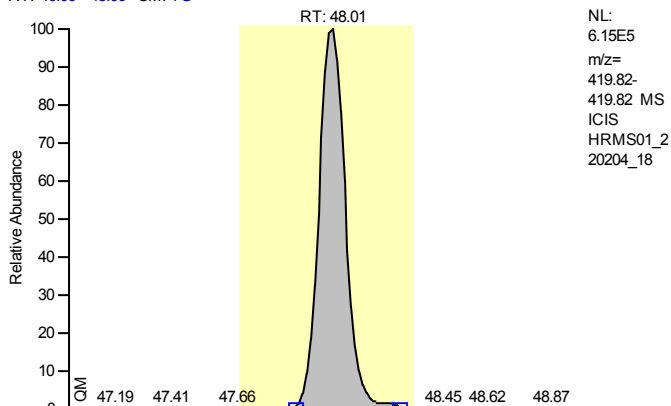
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



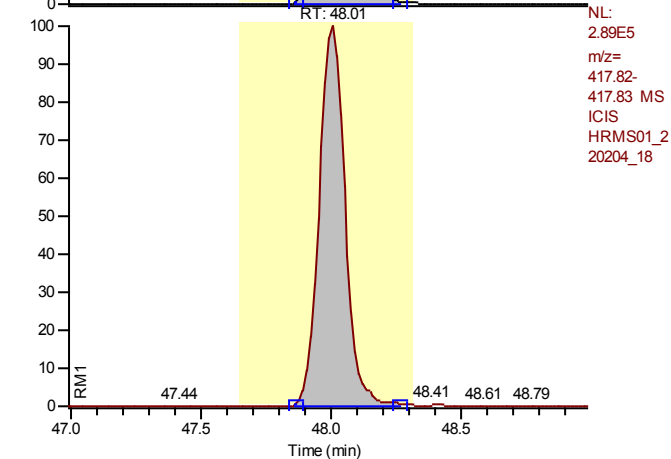
Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G

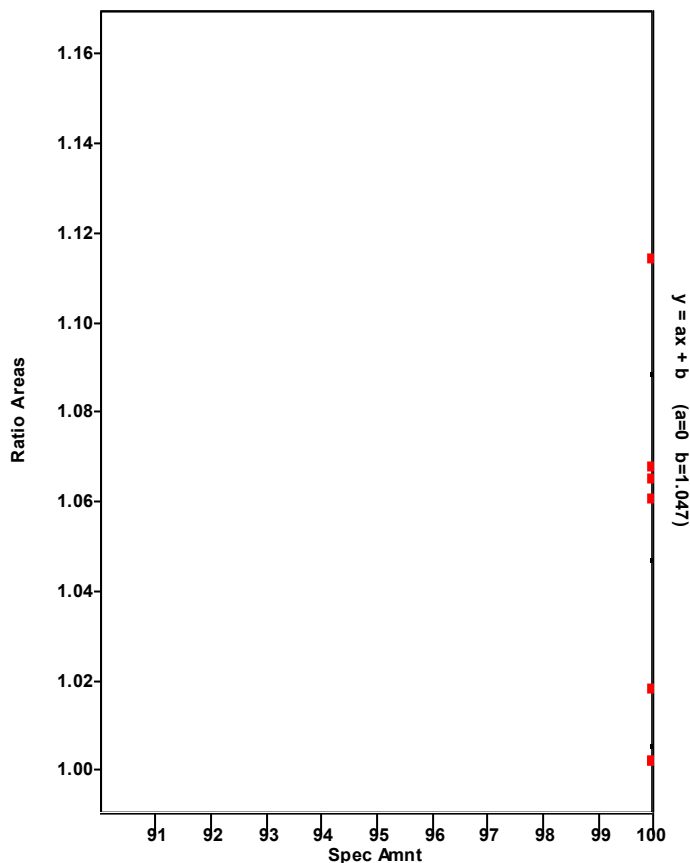


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	4395670
RM1 Area	2002072
RM1 Ratio (A)	0.4555
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

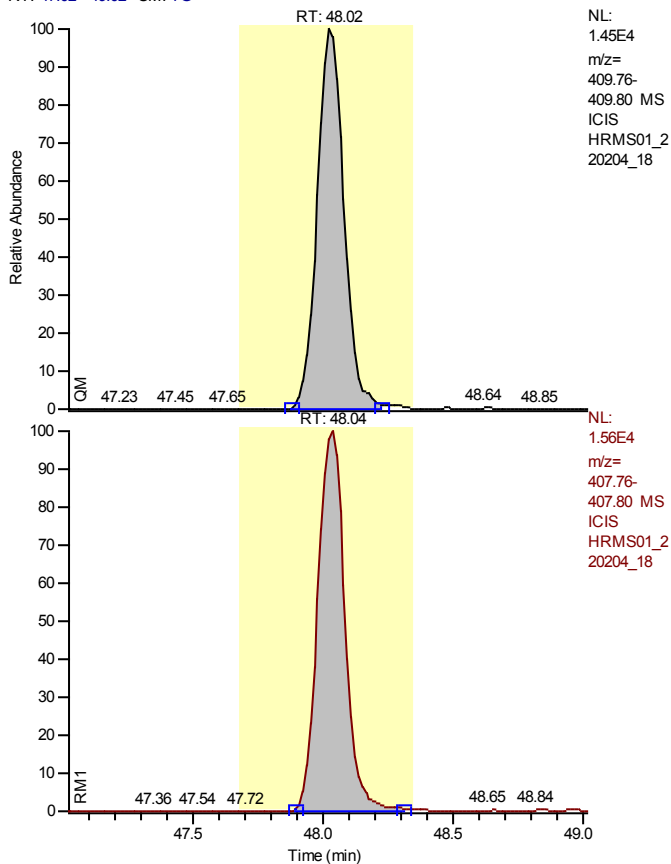
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.02 - 49.02 SM: 7G



NL:
 1.45E4
 m/z=
 409.76-
 409.80 MS
 ICIS
 HRMS01_2
 20204_18

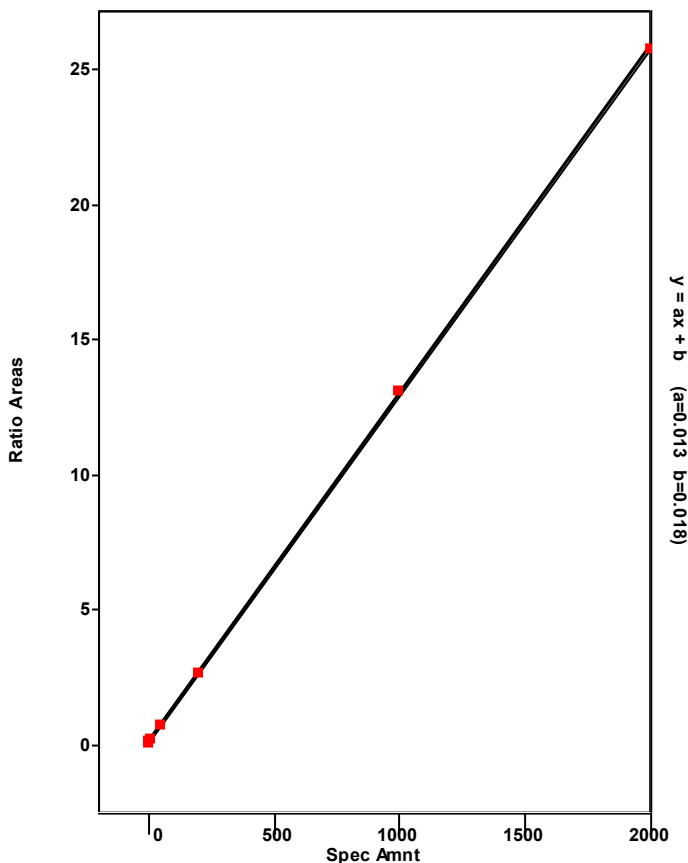
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	103000
RM1 Area	113289
RM1 Ratio (A)	1.0999
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

NL:
 1.56E4
 m/z=
 407.76-
 407.80 MS
 ICIS
 HRMS01_2
 20204_18

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

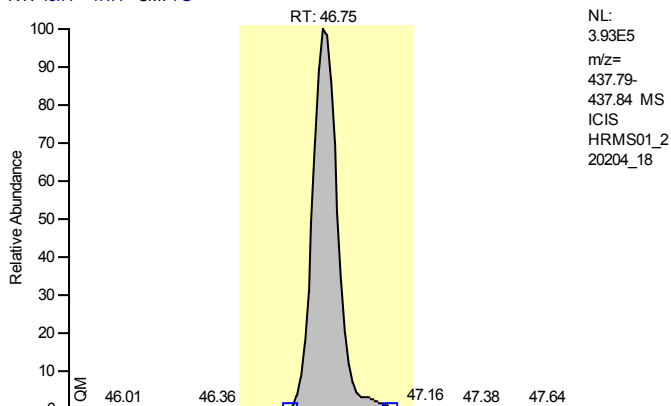
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



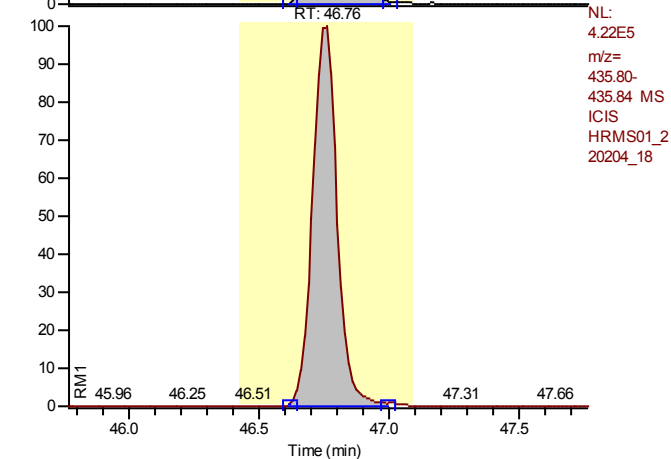
Chromatogram

Entry Parameters

RT: 45.77 - 47.77 SM: 7G

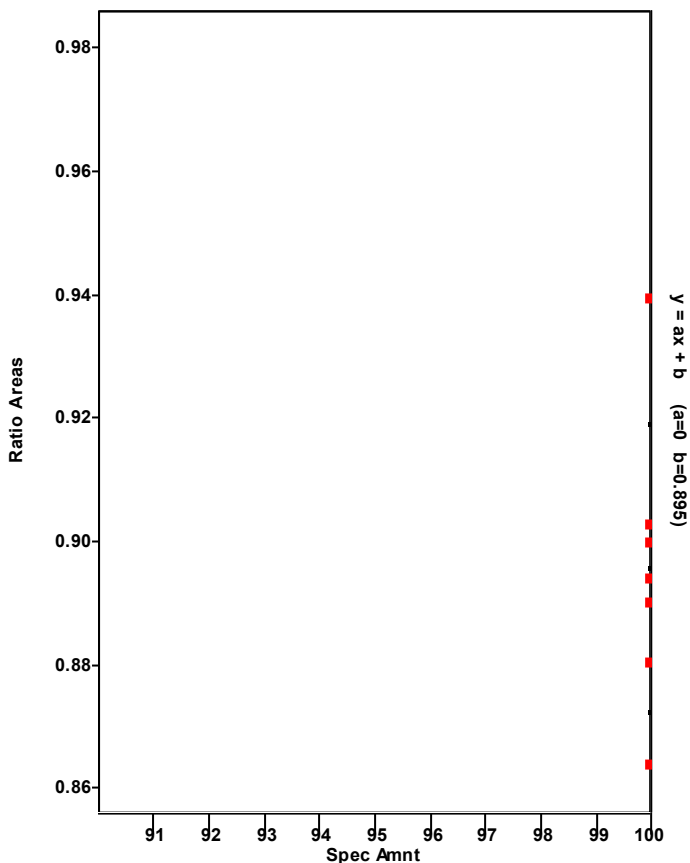


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2624042
RM1 Area	2769337
RM1 Ratio (A)	1.0554
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

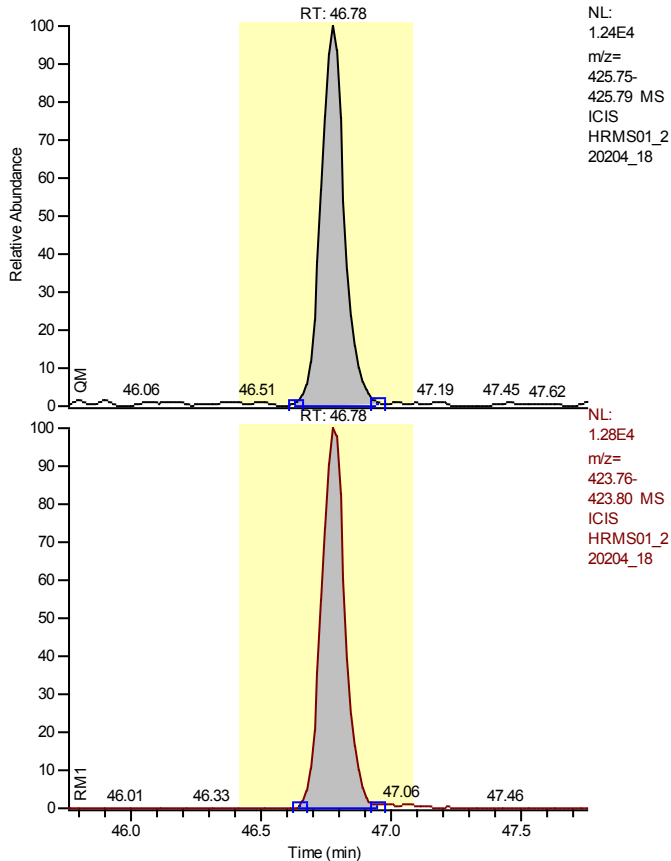
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.76 - 47.76 SM: 7G



NL:
 1.24E4
 m/z=
 425.75-
 425.79 MS
 ICIS
 HRMS01_2
 20204_18

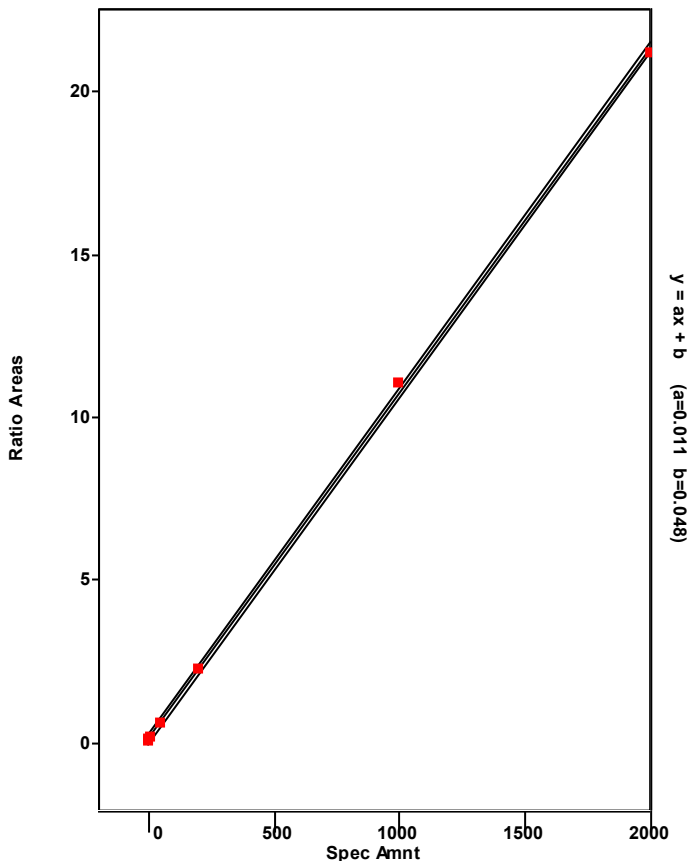
NL:
 1.28E4
 m/z=
 423.76-
 423.80 MS
 ICIS
 HRMS01_2
 20204_18

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	77131
RM1 Area	80842
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

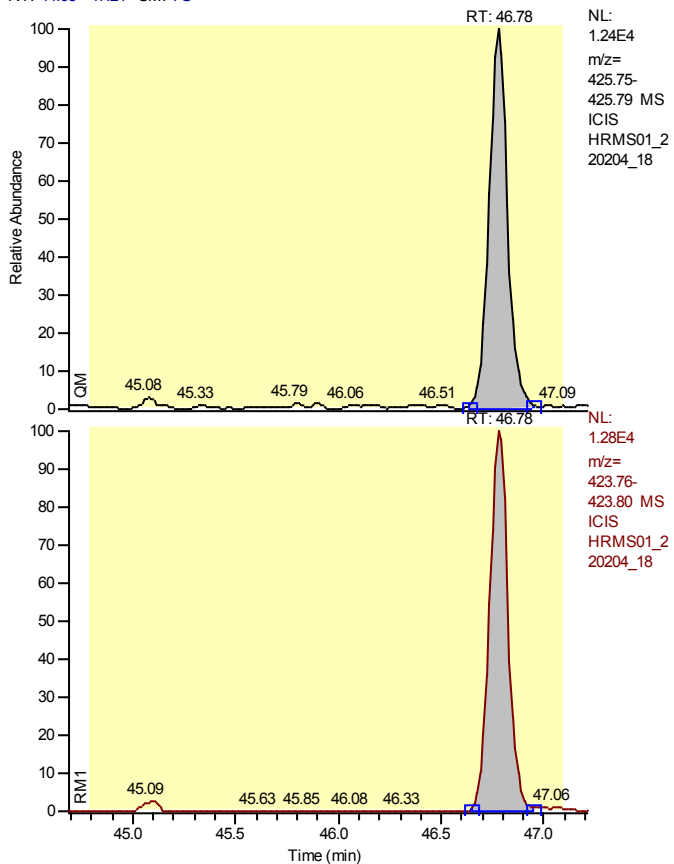
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.68 - 47.21 SM: 7G

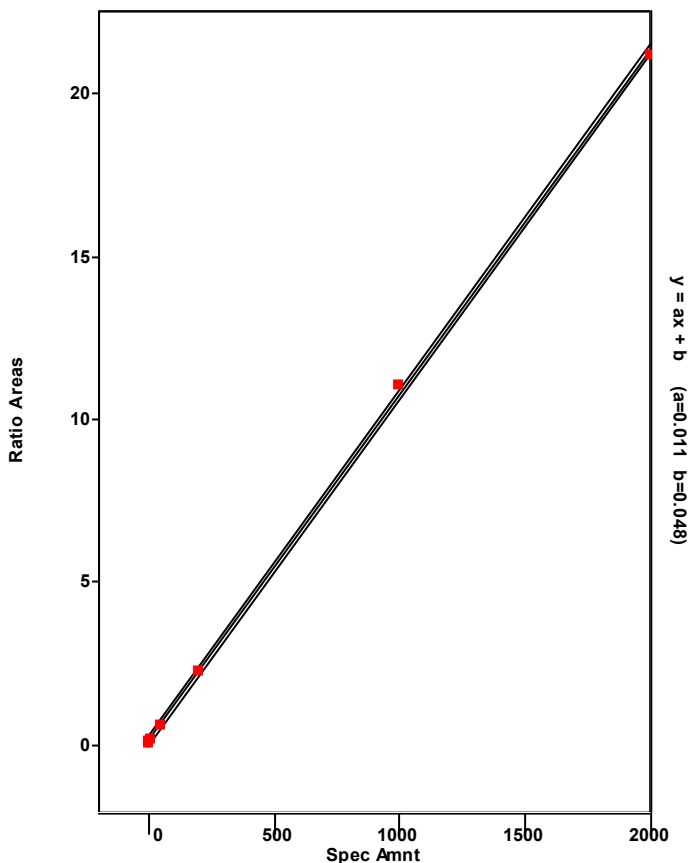


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	77131
RM1 Area	80842
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

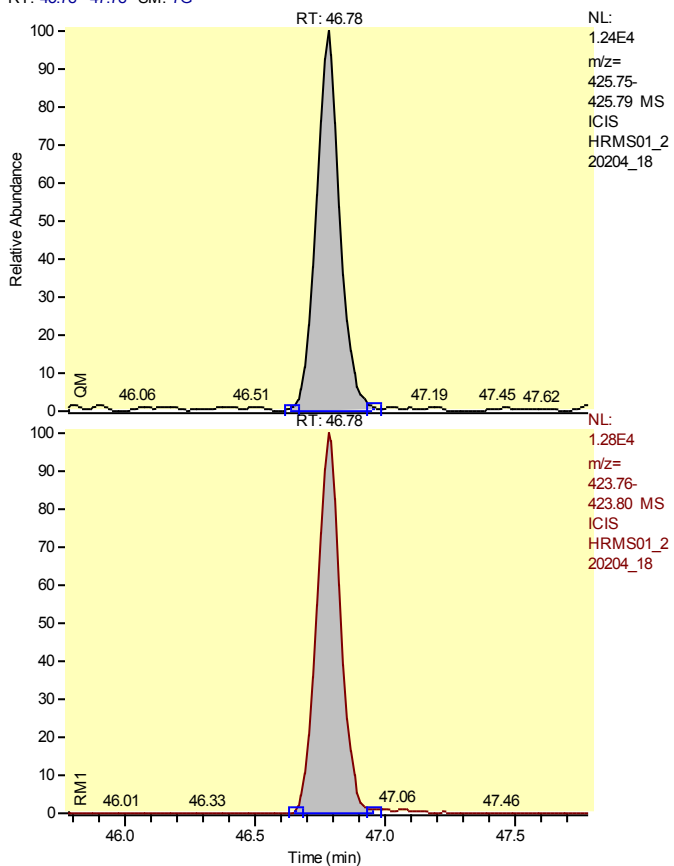
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.78 - 47.78 SM: 7G

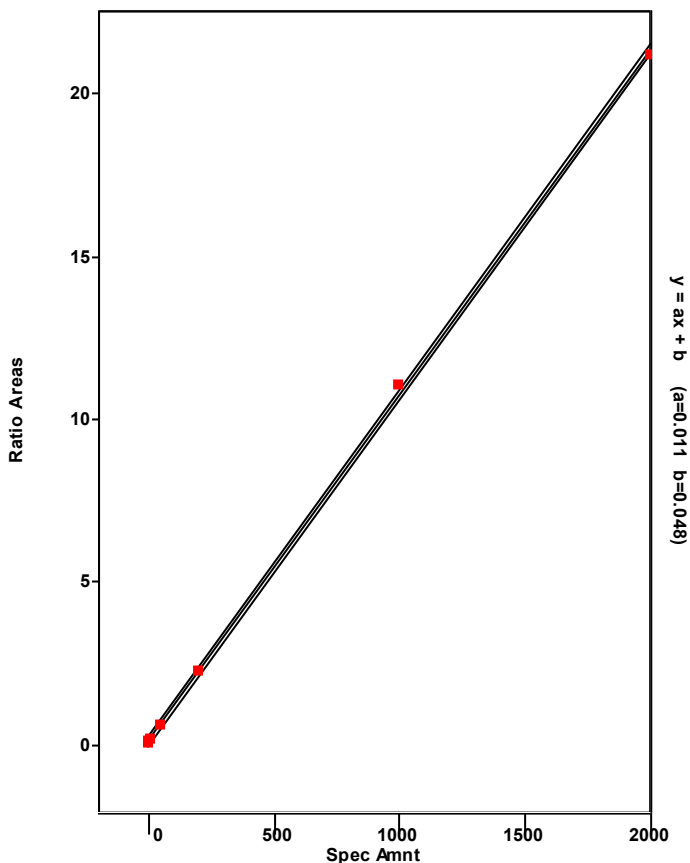


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	77131
RM1 Area	80842
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

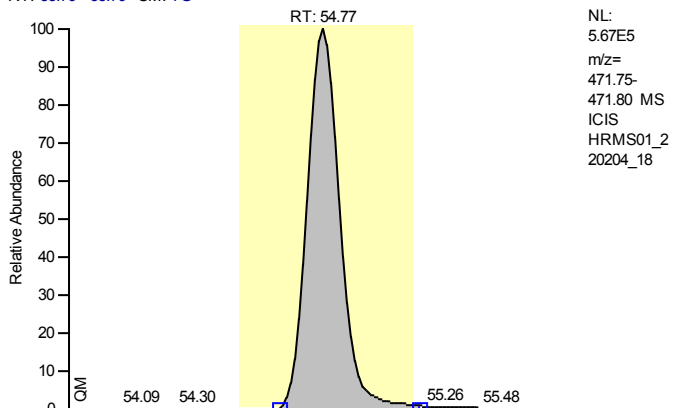
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



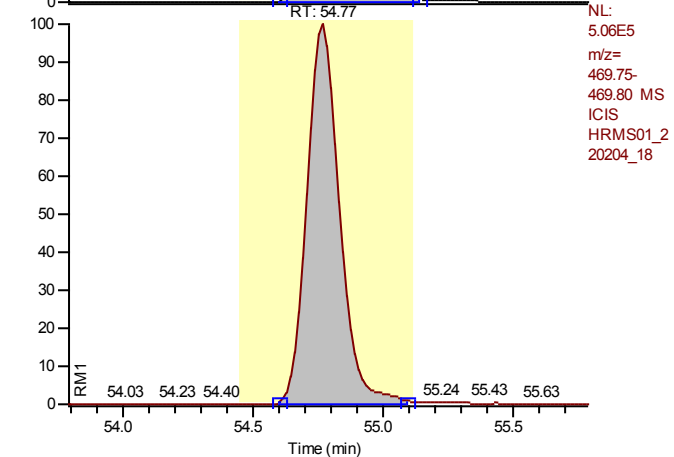
Chromatogram

Entry Parameters

RT: 53.79 - 55.79 SM: 7G



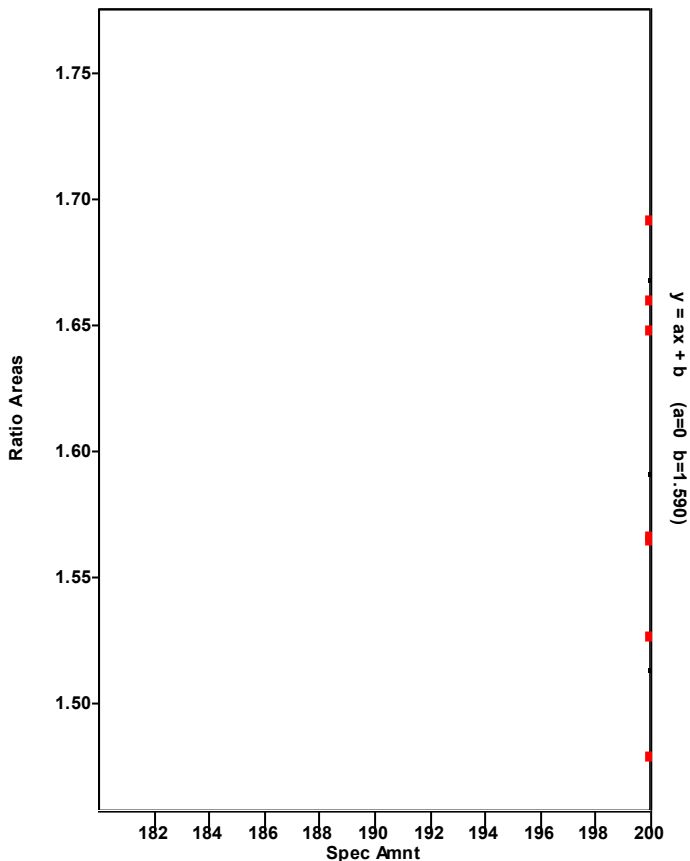
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4999048
RM1 Area	4447410
RM1 Ratio (A)	0.8897
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

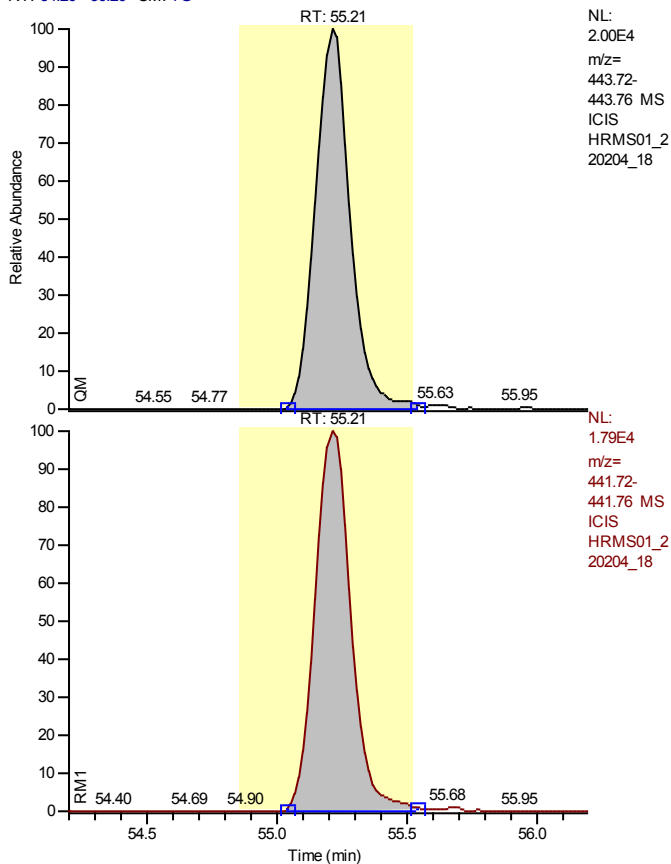
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.20 - 56.20 SM: 7G

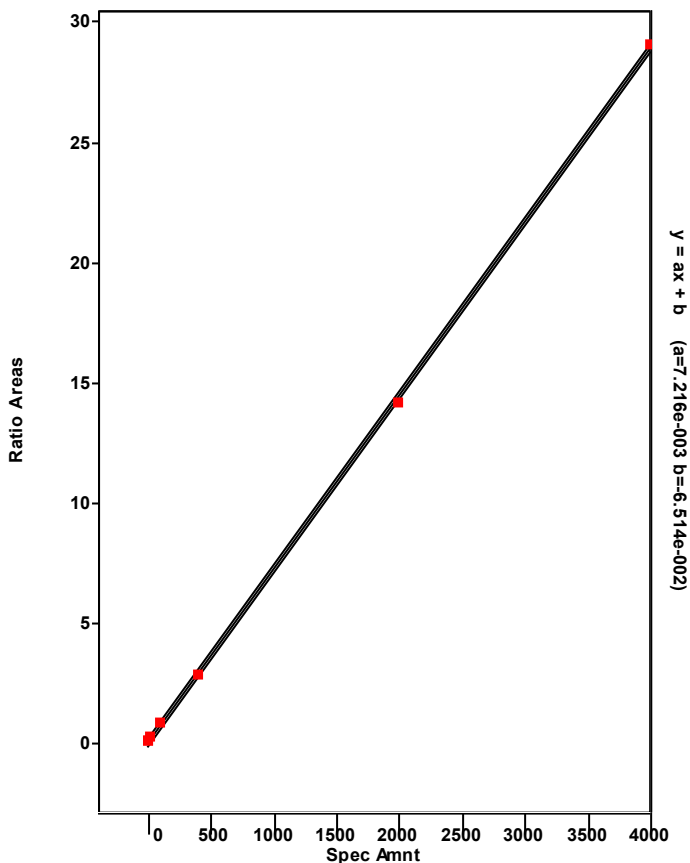


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	176597
RM1 Area	162124
RM1 Ratio (A)	0.9180
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	5.00
Calculated Amount (A)	5.00
Percent Recovery (A)	100
TEQ (A)	0.0015
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

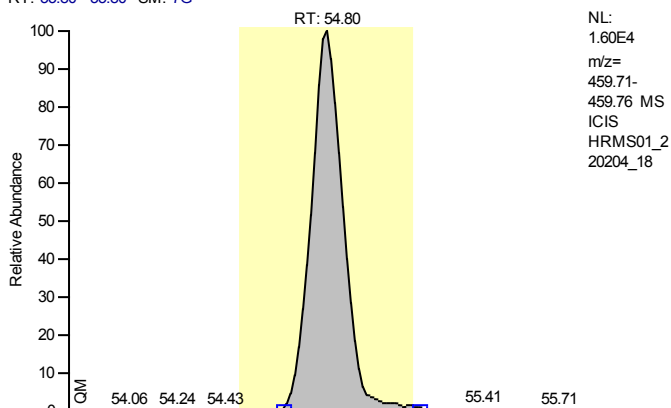
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



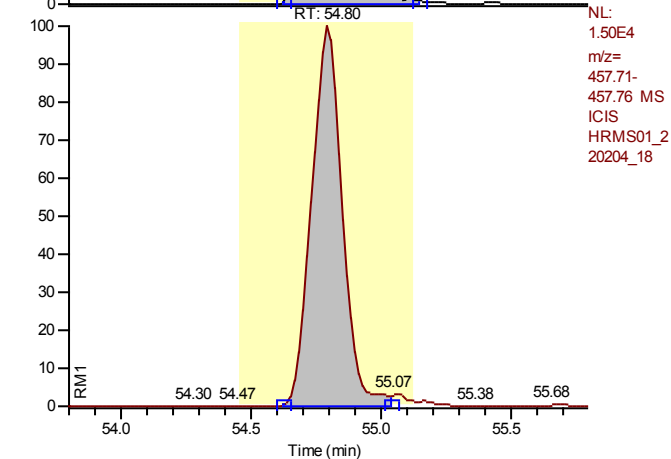
Chromatogram

Entry Parameters

RT: 53.80 - 55.80 SM: 7G



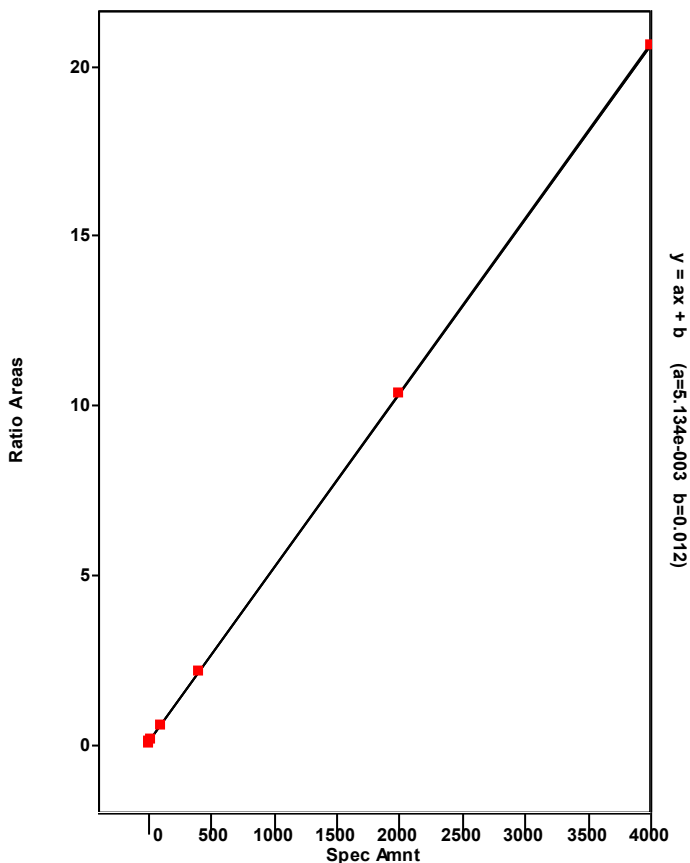
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	137534
RM1 Area	122792
RM1 Ratio (A)	0.8928
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	5.00
Calculated Amount (A)	5.00
Percent Recovery (A)	100
TEQ (A)	0.0015
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

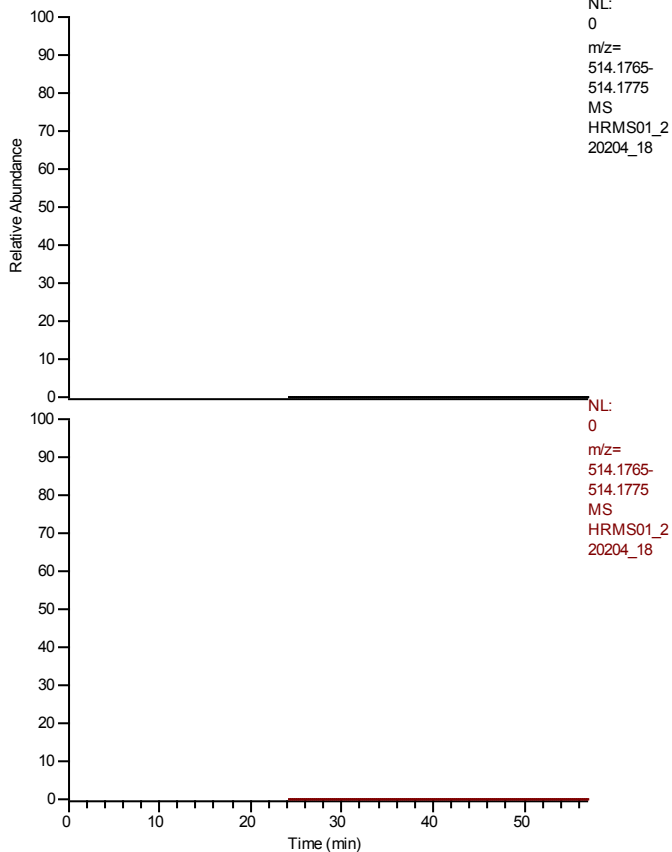
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

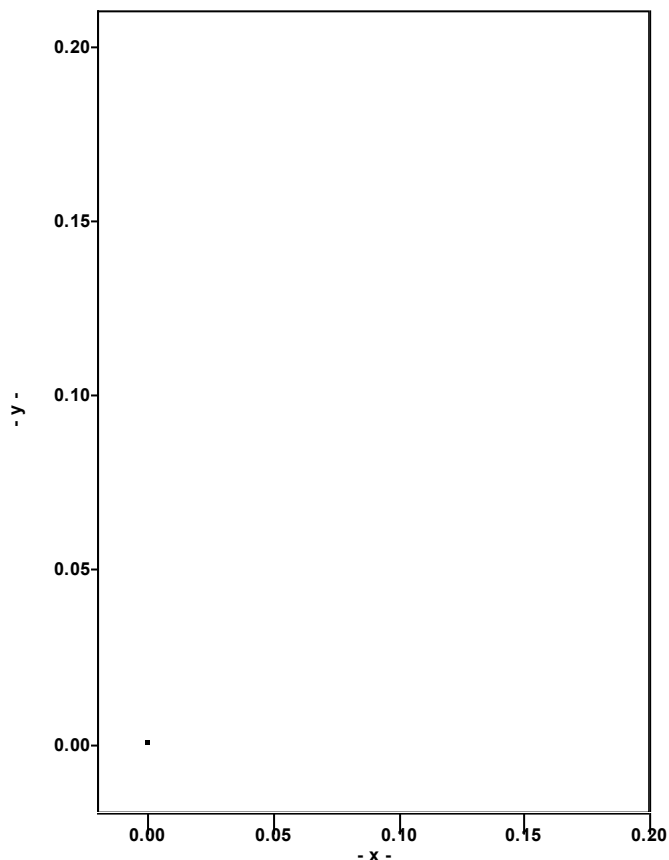
RT: 0.00 - 57.00 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	1445744
RM1 Area	1728741
RM1 Ratio (A)	1.1957
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	43.50
Percent Recovery (A)	---
TEQ (A)	5.7030
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 04:05
Number of Entries	59
Comment	HRMS200402B
Vial	6
Sample Name	IA1613STD-2
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_20_seq
Data	hrms01_220204_20
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

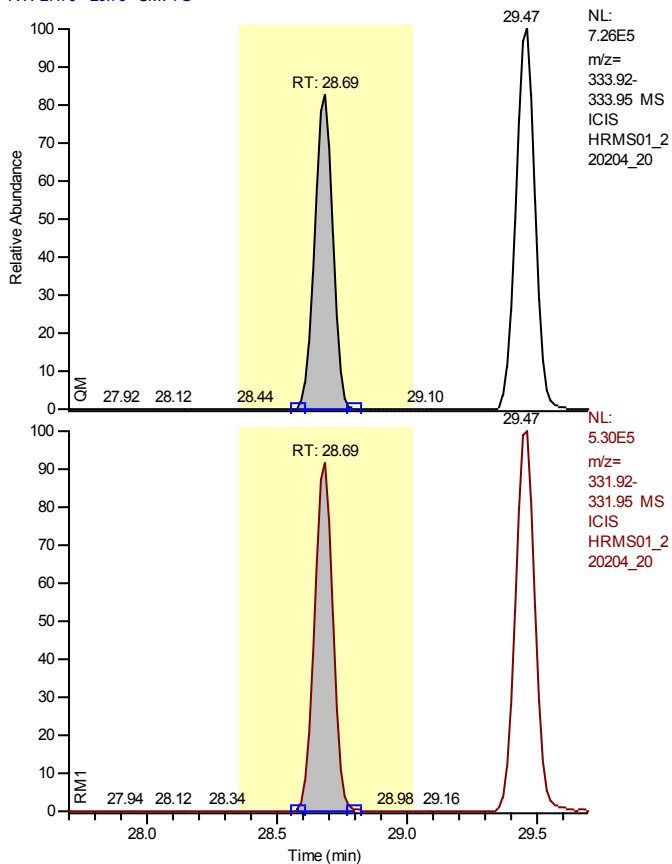
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2909883	2380314	0.8180	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		5033507	4146741	0.8238	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	115869	87482	0.7550	0.6500 - 0.8900	2.00	2.00	100	0.2000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	115869	87482	0.7550	0.6500 - 0.8900	2.00	2.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	115869	87482	0.7550	0.6500 - 0.8900	2.00	2.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		3679990	2760448	0.7501	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	78249	64665	0.8264	0.6500 - 0.8900	2.00	2.00	100	2.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	78249	64665	0.8264	0.6500 - 0.8900	2.00	2.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	78249	64665	0.8264	0.6500 - 0.8900	2.00	2.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2924725	4465146	1.5267	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	295835	468009	1.5820	1.3200 - 1.7800	10.00	10.00	100	0.3000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	606417	965817	1.5927	1.3200 - 1.7800	10.00	20.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	310582	497808	1.6028	1.3200 - 1.7800	10.00	10.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	295835	468009	1.5820	1.3200 - 1.7800	10.00	10.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2775938	4400383	1.5852	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	310582	497808	1.6028	1.3200 - 1.7800	10.00	10.00	100	3.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1827696	2875703	1.5734	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	186621	286827	1.5370	1.3200 - 1.7800	10.00	10.00	100	10.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	186621	286827	1.5370	1.3200 - 1.7800	10.00	10.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	186621	286827	1.5370	1.3200 - 1.7800	10.00	10.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		123654	123654	1.0000	0.8500 - 1.1500	2.00	2.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2840029	3434650	1.2094	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		4850121	2573828	0.5307	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	414454	504011	1.2161	1.0500 - 1.4300	10.00	10.00	100	1.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	1643726	2044385	1.2438	1.0500 - 1.4300	10.00	40.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	425519	533161	1.2530	1.0500 - 1.4300	10.00	10.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	414454	504011	1.2161	1.0500 - 1.4300	10.00	10.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	421427	528017	1.2529	1.0500 - 1.4300	10.00	10.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	382325	479196	1.2534	1.0500 - 1.4300	10.00	10.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		5308154	2844897	0.5359	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	421427	528017	1.2529	1.0500 - 1.4300	10.00	10.00	100	1.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		5003950	2671748	0.5339	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	425519	533161	1.2530	1.0500 - 1.4300	10.00	10.00	100	1.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		4735158	2582719	0.5454	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	382325	479196	1.2534	1.0500 - 1.4300	10.00	10.00	100	1.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2471584	3177874	1.2858	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	268169	335336	1.2505	1.0500 - 1.4300	10.00	10.00	100	1.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	826647	1049425	1.2695	1.0500 - 1.4300	10.00	30.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	291350	375181	1.2877	1.0500 - 1.4300	10.00	10.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	268169	335336	1.2505	1.0500 - 1.4300	10.00	10.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	267128	338908	1.2687	1.0500 - 1.4300	10.00	10.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2471584	3177874	1.2858	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	268169	335336	1.2505	1.0500 - 1.4300	10.00	10.00	100	1.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	291350	375181	1.2877	1.0500 - 1.4300	10.00	10.00	100	1.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4882445	2232682	0.4573	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	476051	499196	1.0486	0.8800 - 1.2000	10.00	10.00	100	0.1000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	915469	955276	1.0435	0.8800 - 1.2000	10.00	20.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	476051	499196	1.0486	0.8800 - 1.2000	10.00	10.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	439419	456080	1.0379	0.8800 - 1.2000	10.00	10.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		4628038	2066926	0.4466	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	439419	456080	1.0379	0.8800 - 1.2000	10.00	10.00	100	0.1000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2687031	2895759	1.0777	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	311680	312143	1.0015	0.8800 - 1.2000	10.00	10.00	100	0.1000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	311680	312143	1.0015	0.8800 - 1.2000	10.00	10.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	311680	312143	1.0015	0.8800 - 1.2000	10.00	10.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		5141557	4665951	0.9075	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	721479	689312	0.9554	0.7600 - 1.0200	20.00	20.00	100	0.0060
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	562175	496133	0.8825	0.7600 - 1.0200	20.00	20.00	100	0.0060
59	overall TEQ	overall TEQ test		5969372	6947893	1.1639	0.0000 - 0.0000	0.00	174.00	---	22.8120

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

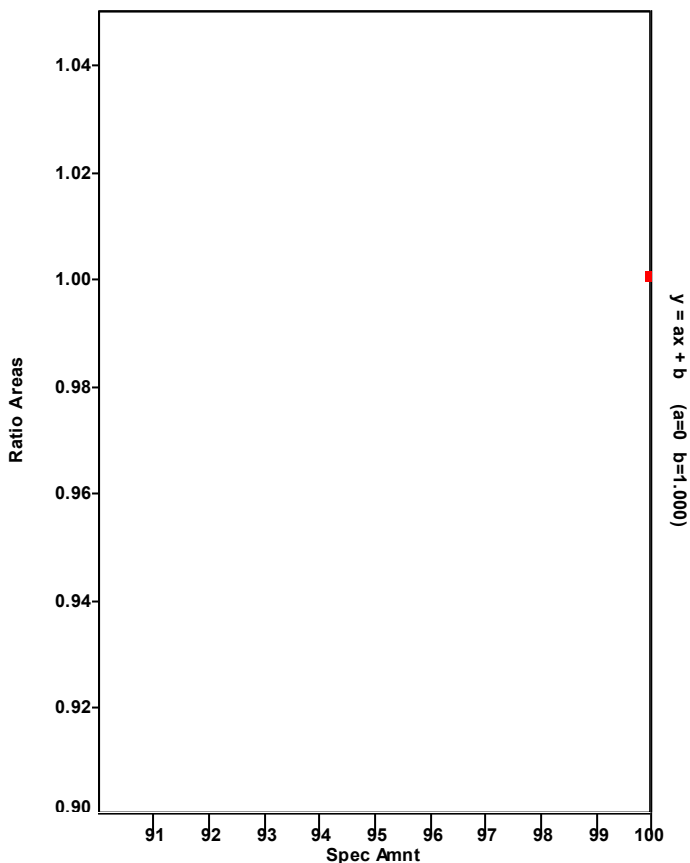


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2909883
RM1 Area	2380314
RM1 Ratio (A)	0.8180
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

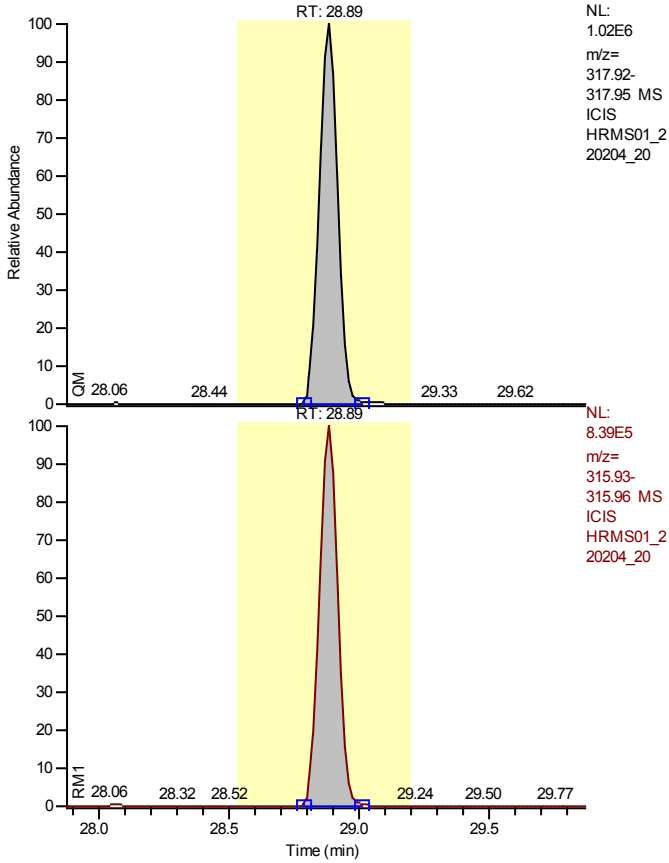
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.87 - 29.87 SM: 7G



NL:
1.02E6
m/z=
317.92-
317.95 MS
ICIS
HRMS01_2
20204_20

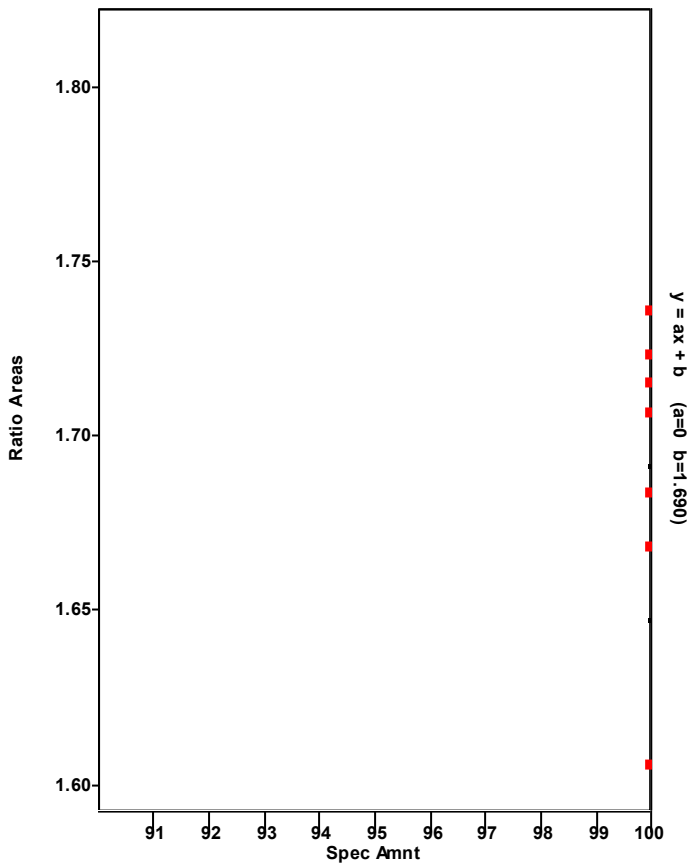
NL:
8.39E5
m/z=
315.93-
315.96 MS
ICIS
HRMS01_2
20204_20

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	5033507
RM1 Area	4146741
RM1 Ratio (A)	0.8238
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

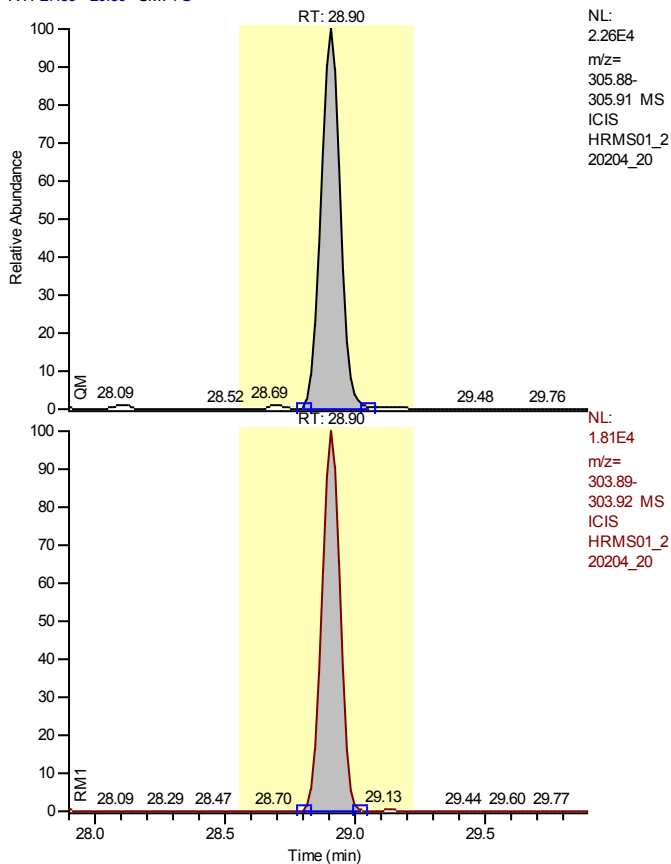
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.89 - 29.89 SM: 7G

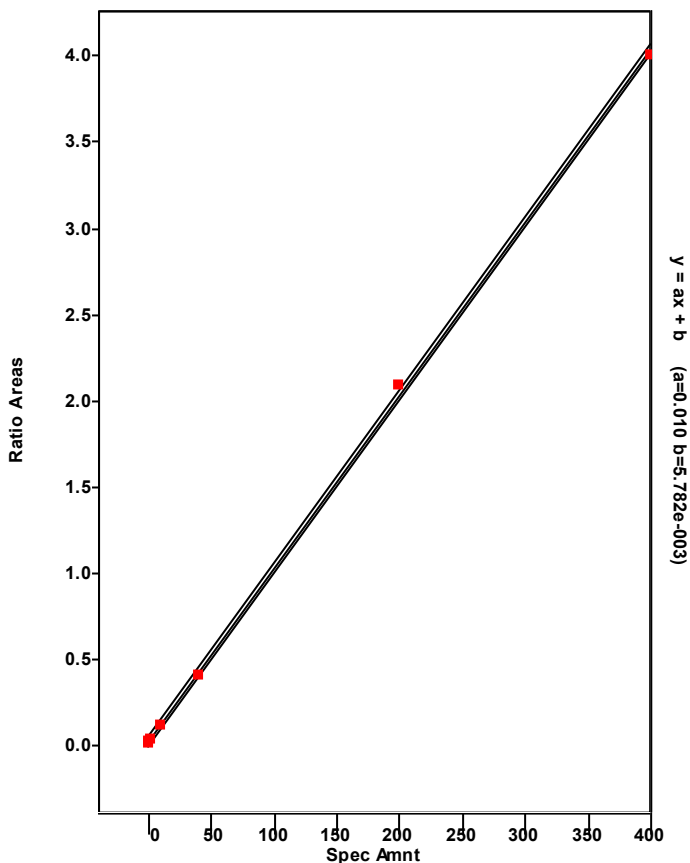


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	115869
RM1 Area	87482
RM1 Ratio (A)	0.7550
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.2000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

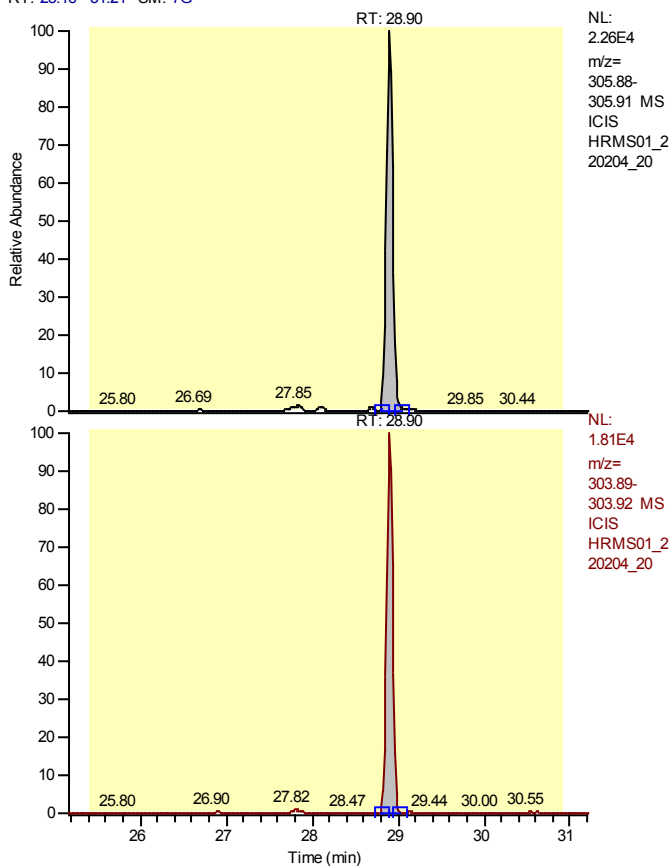
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.16 - 31.21 SM: 7G

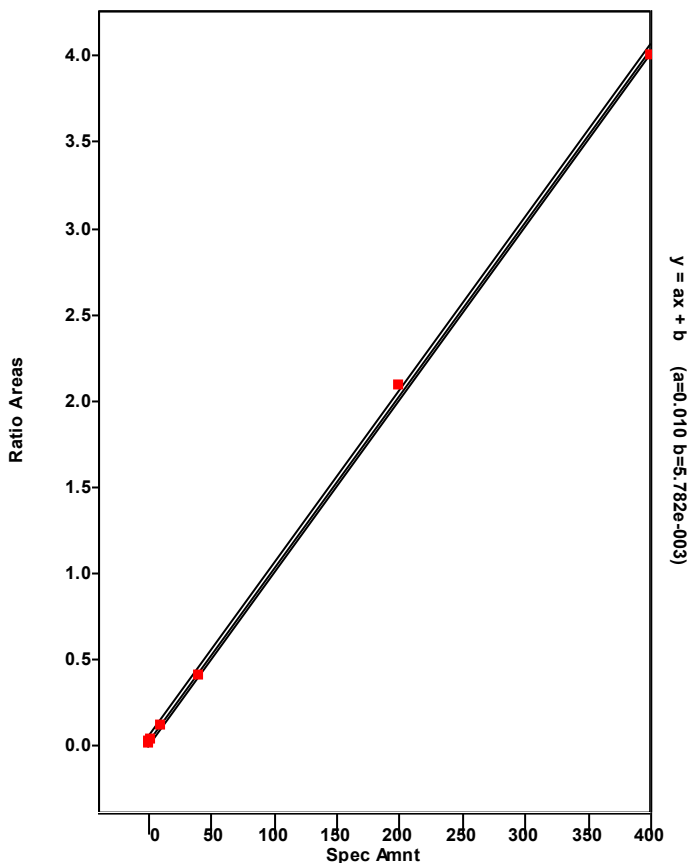


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	115869
RM1 Area	87482
RM1 Ratio (A)	0.7550
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

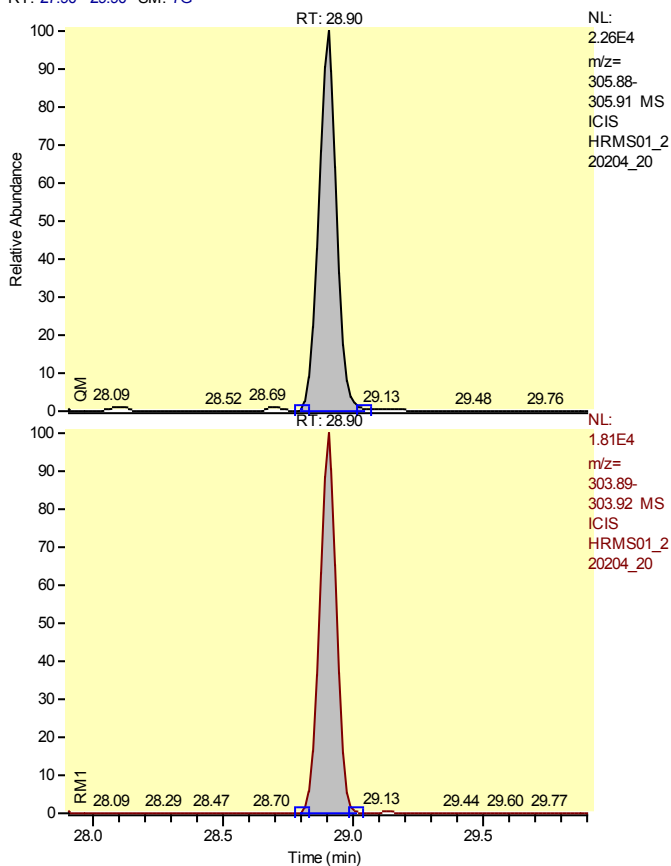
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.90 - 29.90 SM: 7G

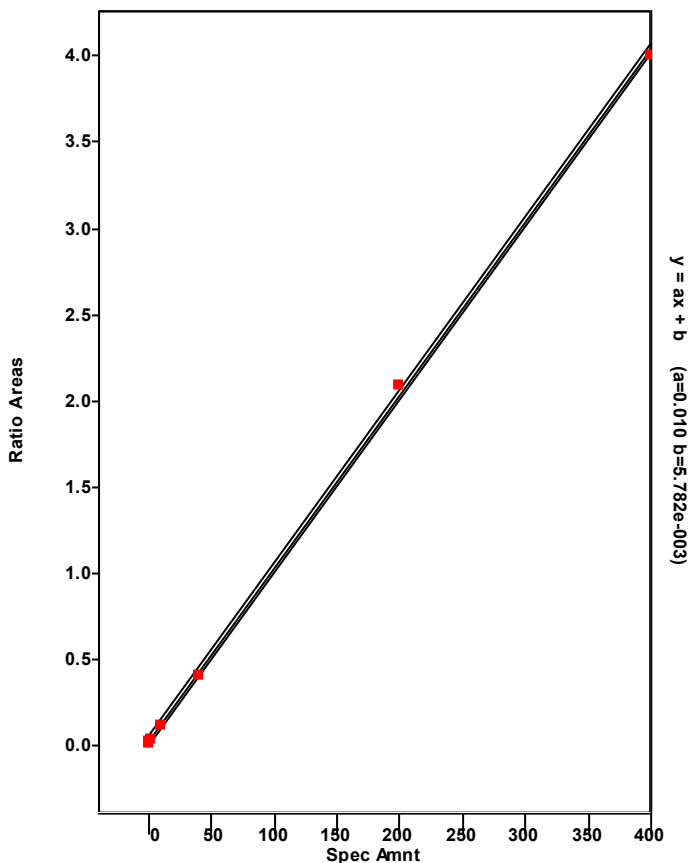


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	115869
RM1 Area	87482
RM1 Ratio (A)	0.7550
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

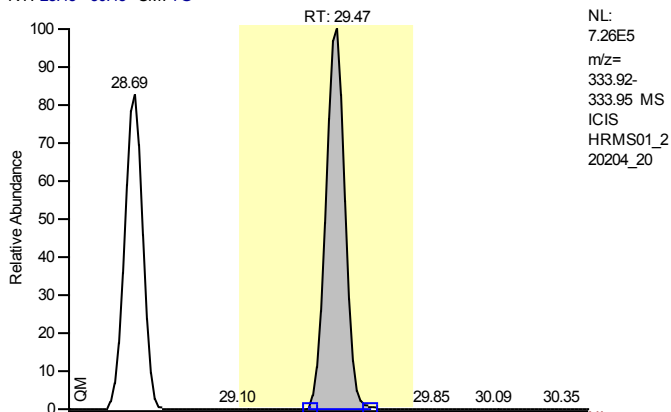
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

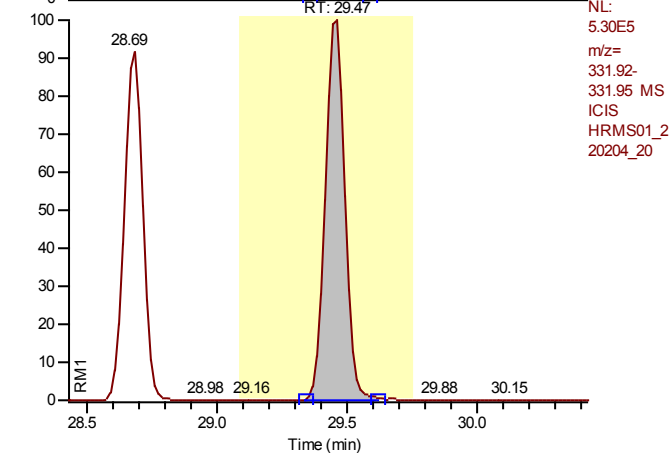
Entry Parameters

RT: 28.43 - 30.43 SM: 7G



NL:
7.26E5
m/z=
333.92-
333.95 MS
ICIS
HRMS01_2
20204_20

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	3679990
RM1 Area	2760448
RM1 Ratio (A)	0.7501
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

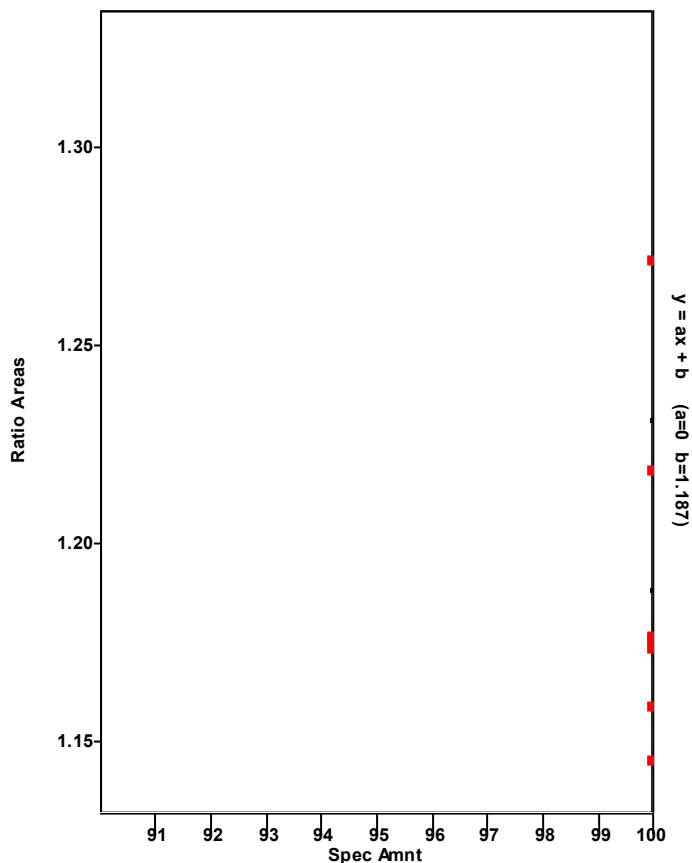


NL:
5.30E5
m/z=
331.92-
331.95 MS
ICIS
HRMS01_2
20204_20

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

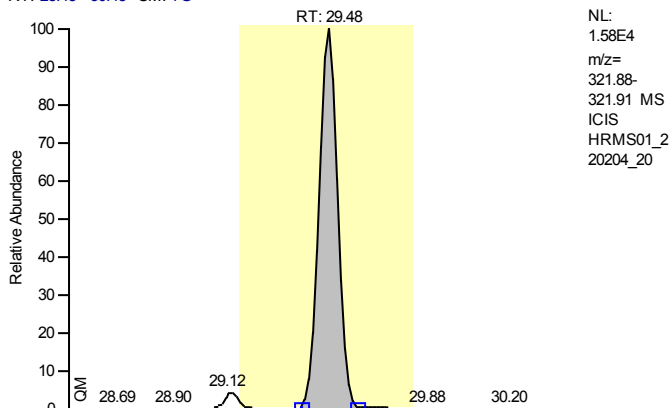
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



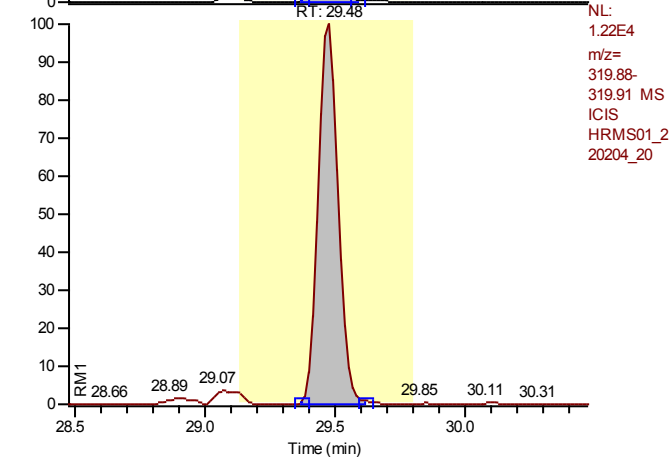
Chromatogram

Entry Parameters

RT: 28.48 - 30.48 SM: 7G



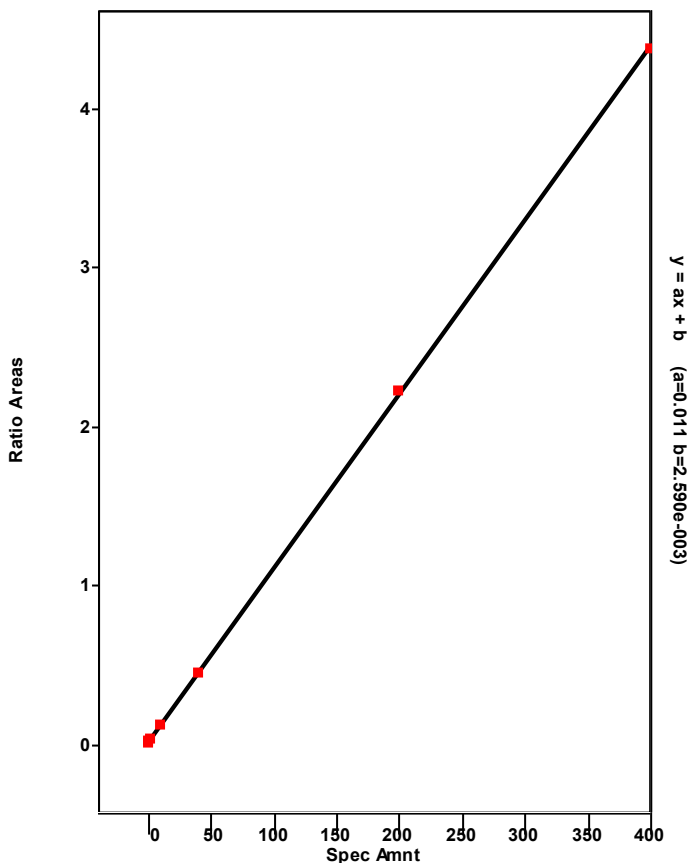
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	78249
RM1 Area	64665
RM1 Ratio (A)	0.8264
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

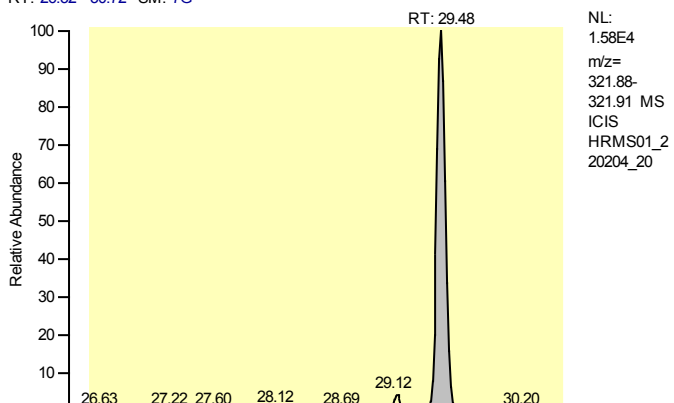
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

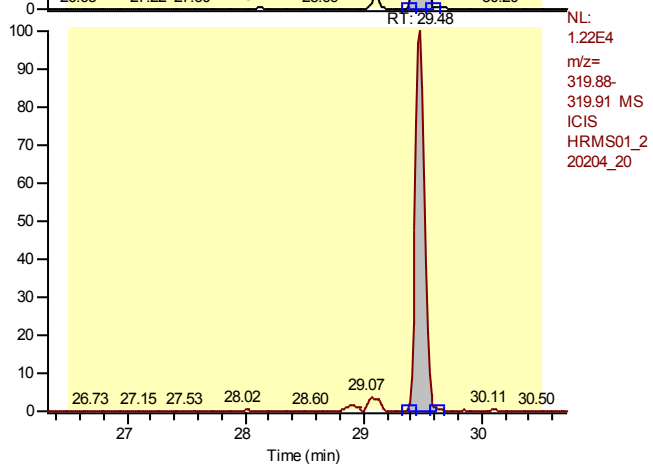
Entry Parameters

RT: 26.32 - 30.72 SM: 7G



NL: 1.58E4
 m/z= 321.88-321.91 MS
 ICIS HRMS01_2 20204_20

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	78249
RM1 Area	64665
RM1 Ratio (A)	0.8264
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

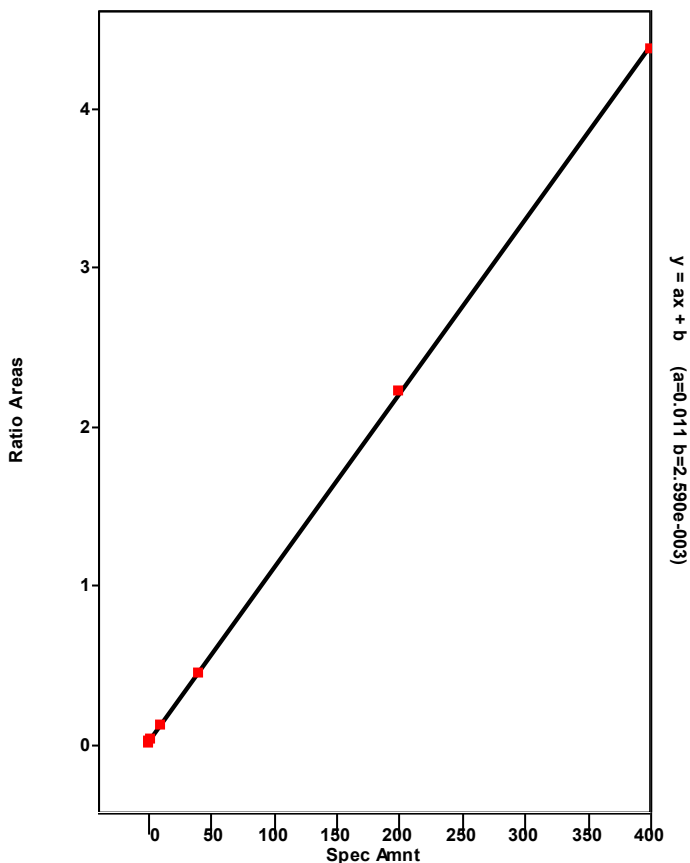


NL: 1.22E4
 m/z= 319.88-319.91 MS
 ICIS HRMS01_2 20204_20

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

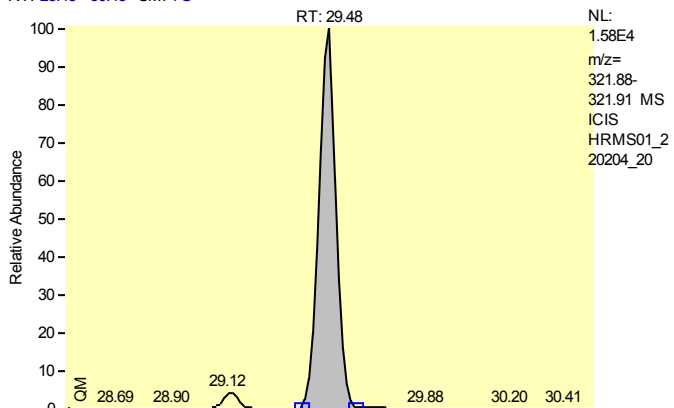
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



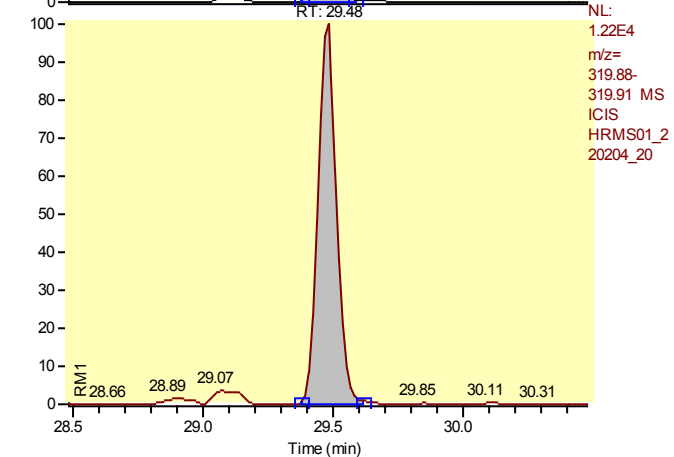
Chromatogram

Entry Parameters

RT: 28.48 - 30.48 SM: 7G



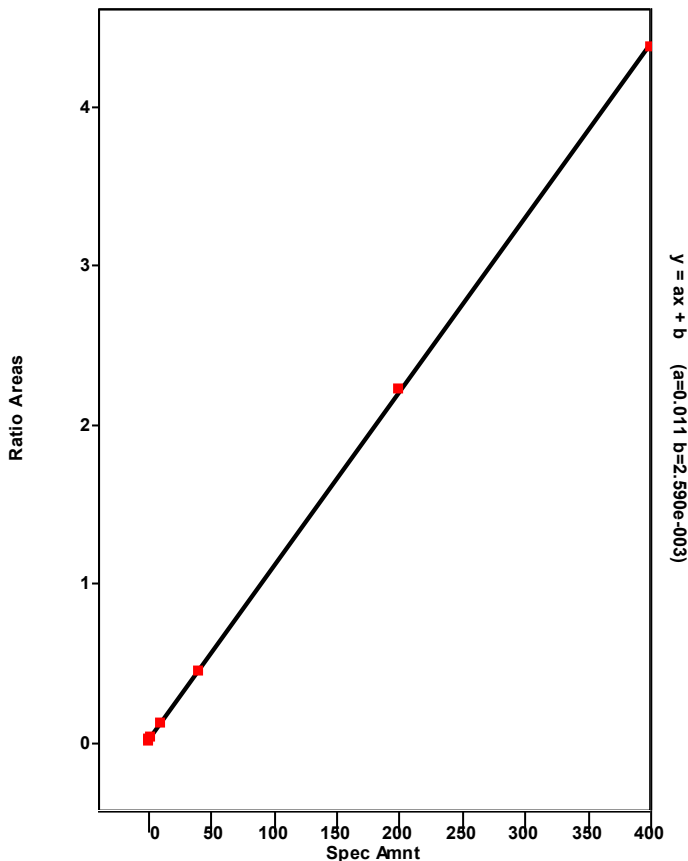
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	78249
RM1 Area	64665
RM1 Ratio (A)	0.8264
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

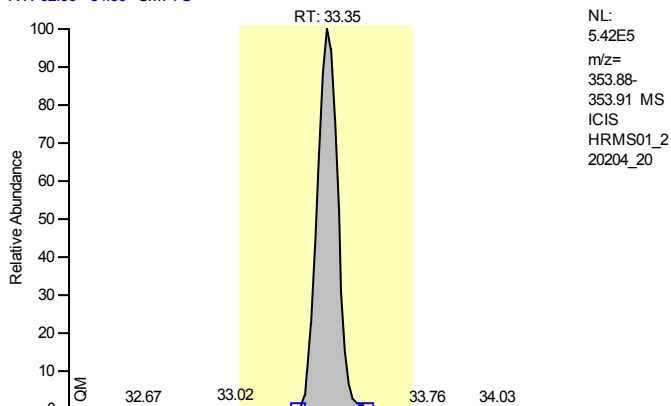
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



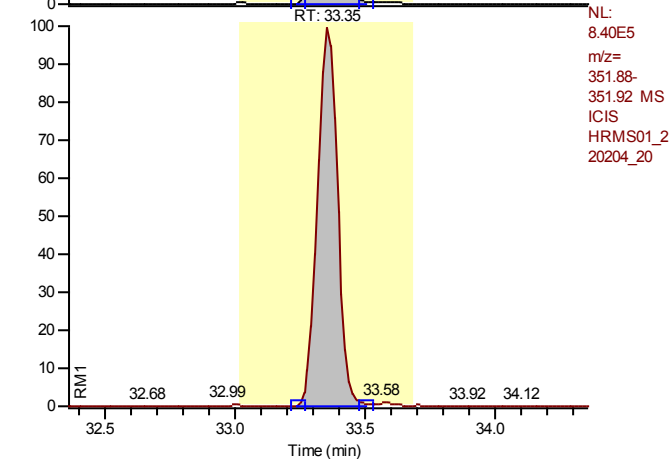
Chromatogram

Entry Parameters

RT: 32.36 - 34.36 SM: 7G



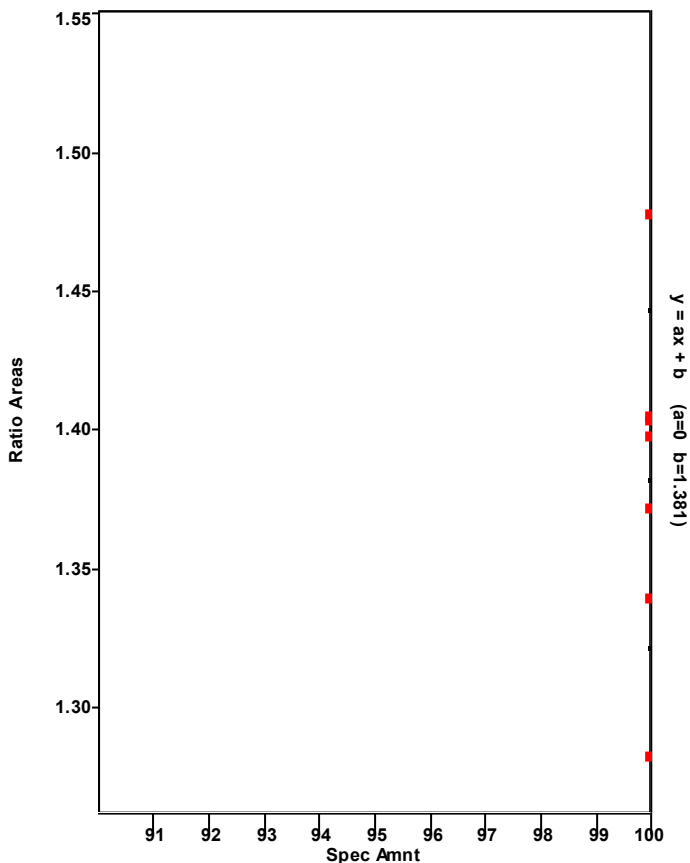
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2924725
RM1 Area	4465146
RM1 Ratio (A)	1.5267
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

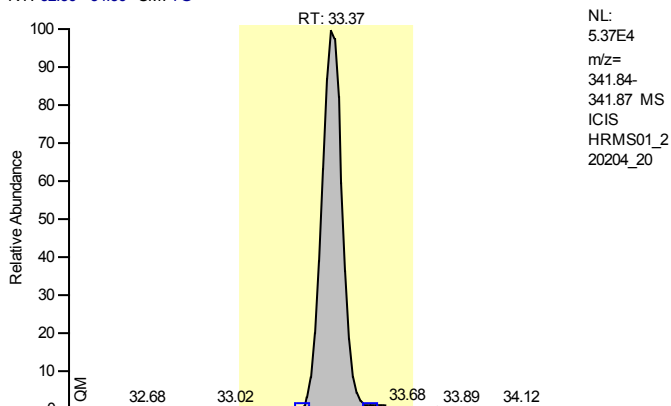
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



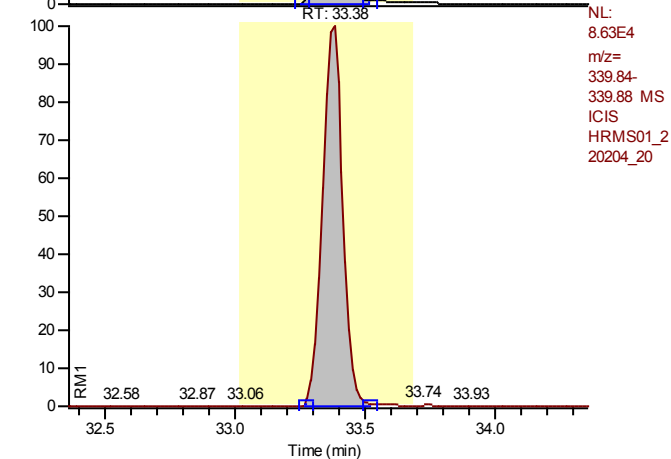
Chromatogram

Entry Parameters

RT: 32.36 - 34.36 SM: 7G



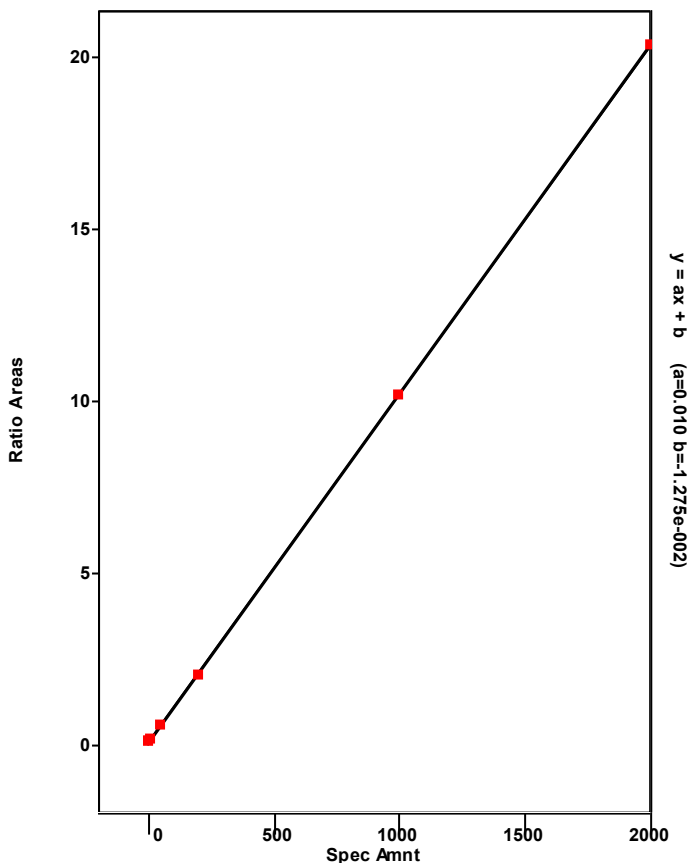
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	295835
RM1 Area	468009
RM1 Ratio (A)	1.5820
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.3000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

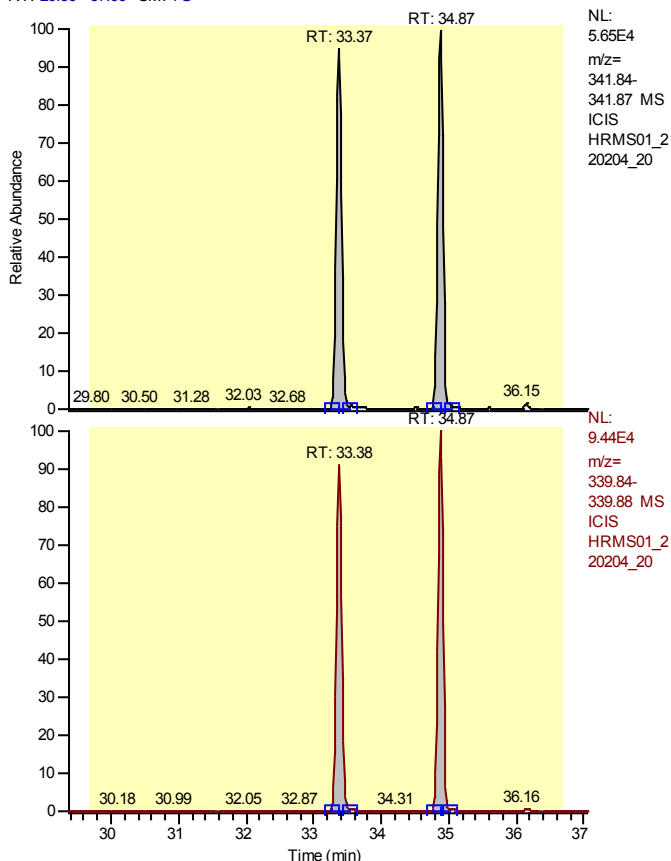
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.36 - 37.06 SM: 7G

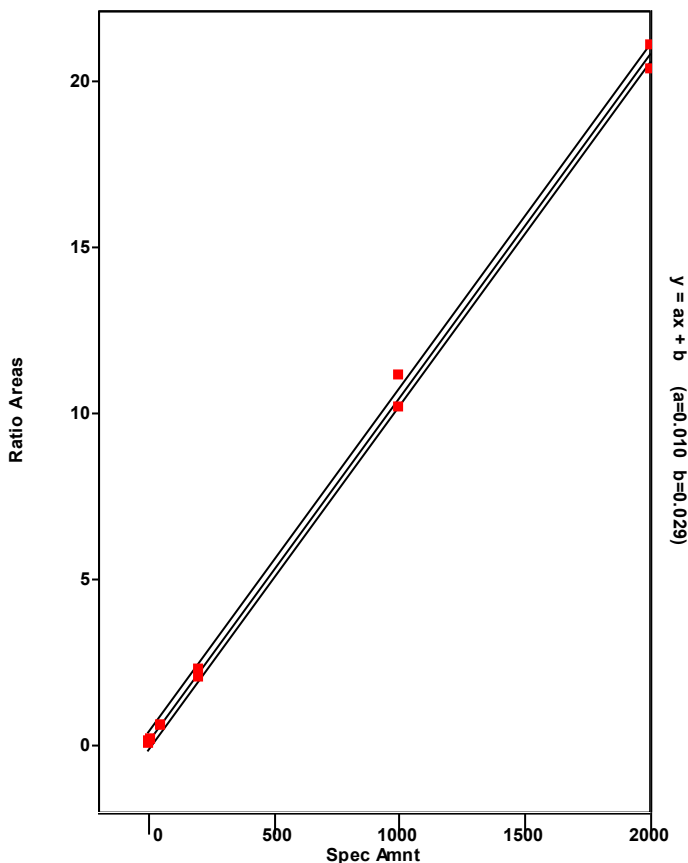


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	606417
RM1 Area	965817
RM1 Ratio (A)	1.5927
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	20.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

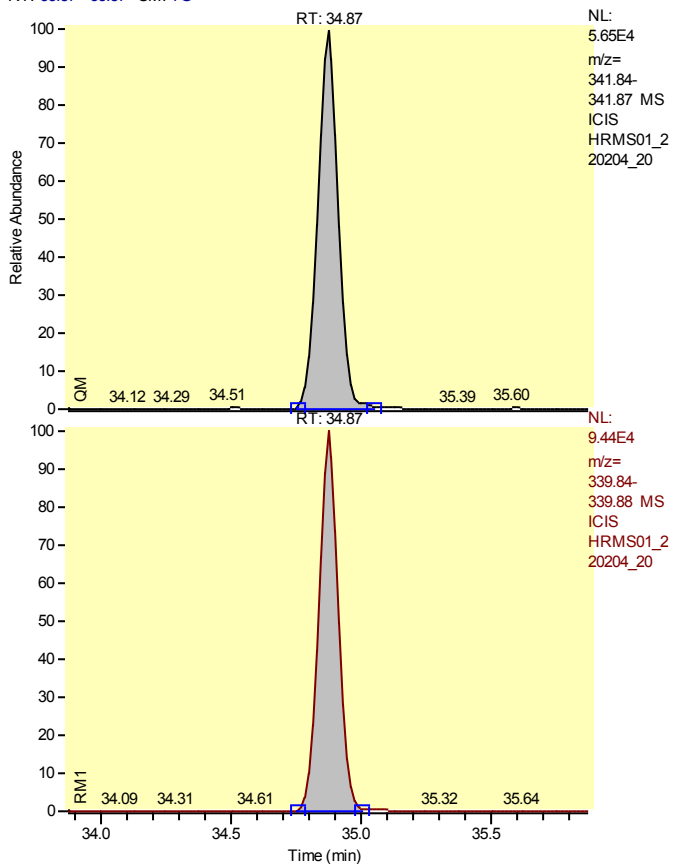
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.87 - 35.87 SM: 7G

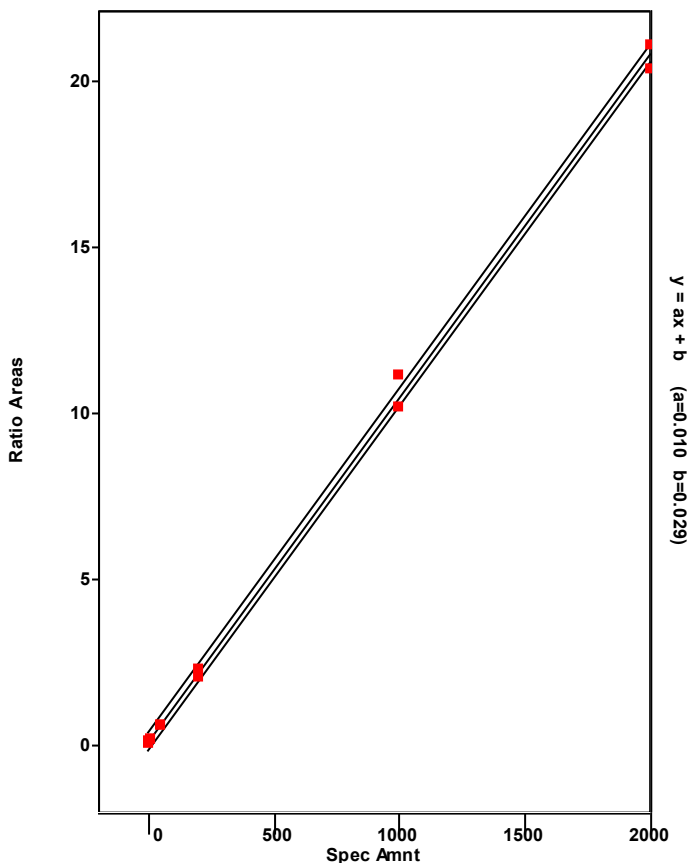


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	310582
RM1 Area	497808
RM1 Ratio (A)	1.6028
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

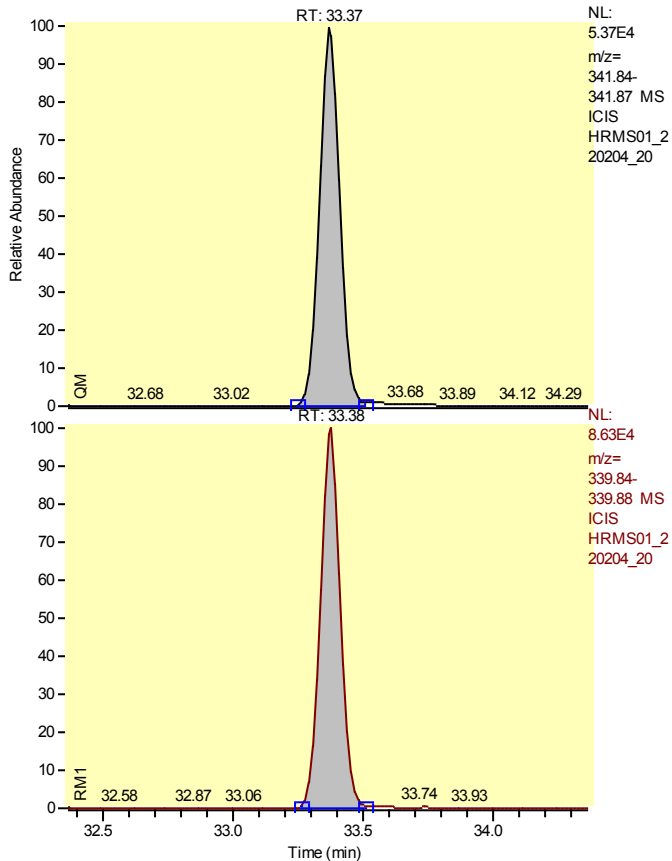
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.37 - 34.37 SM: 7G

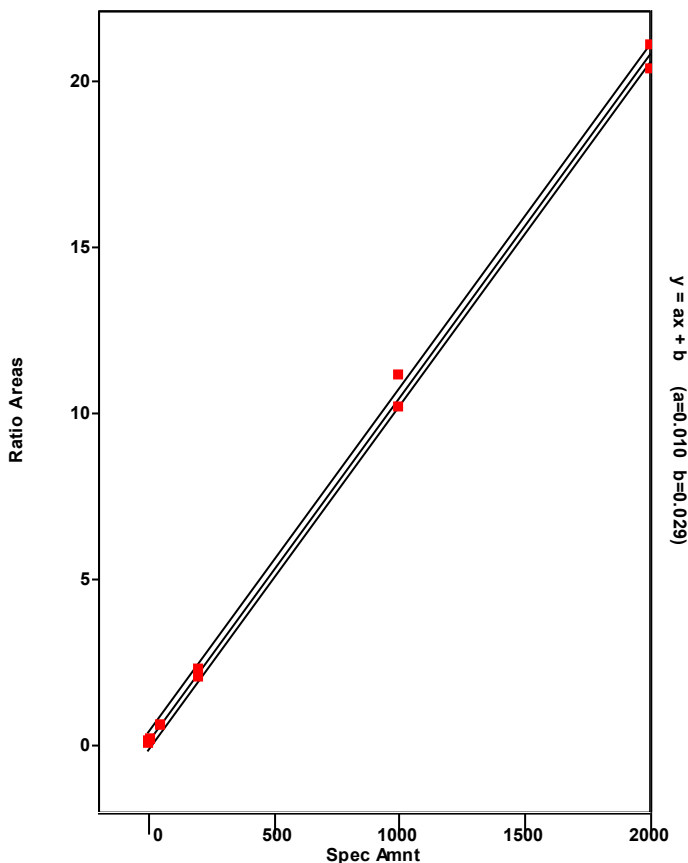


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	295835
RM1 Area	468009
RM1 Ratio (A)	1.5820
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

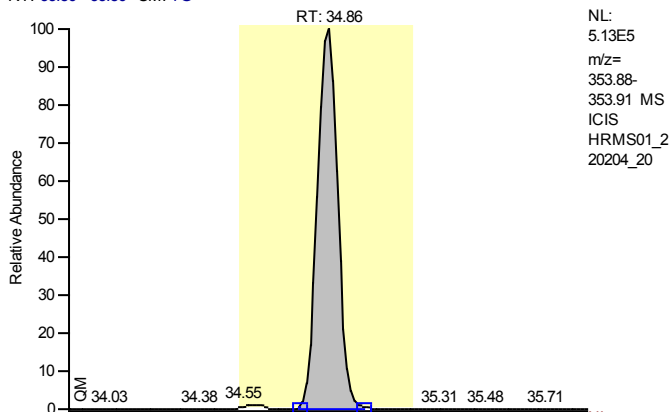
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



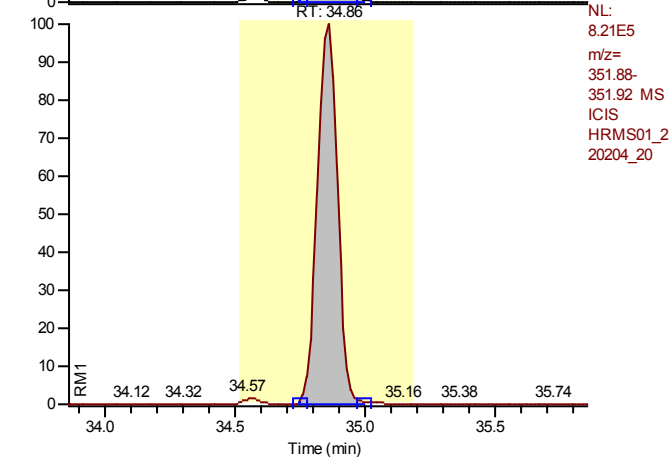
Chromatogram

Entry Parameters

RT: 33.86 - 35.86 SM: 7G



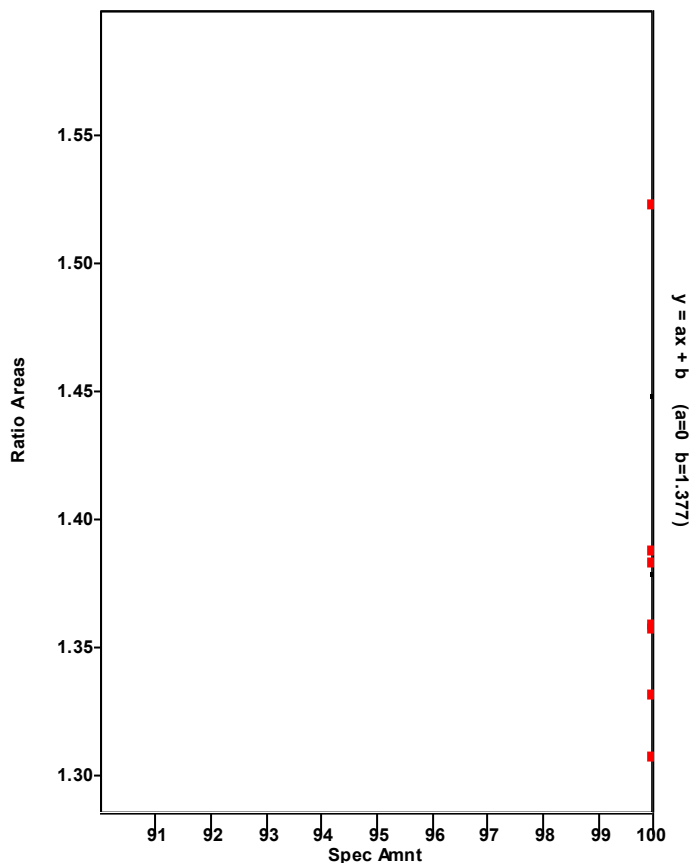
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2775938
RM1 Area	4400383
RM1 Ratio (A)	1.5852
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

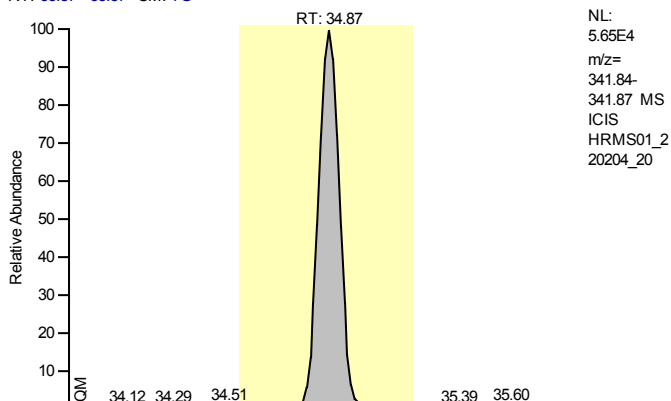
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



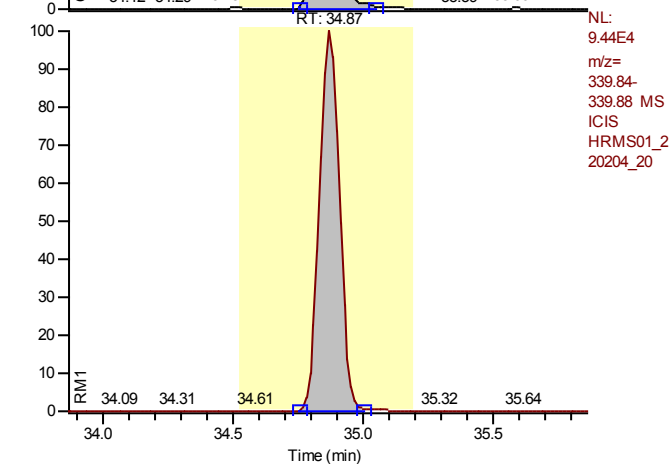
Chromatogram

Entry Parameters

RT: 33.87 - 35.87 SM: 7G



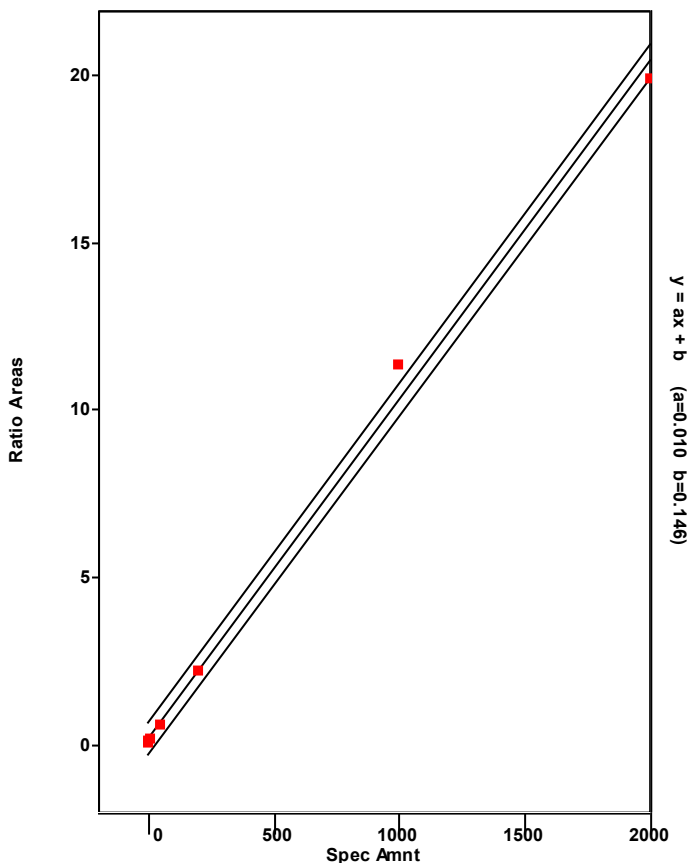
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	310582
RM1 Area	497808
RM1 Ratio (A)	1.6028
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	3.0000
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

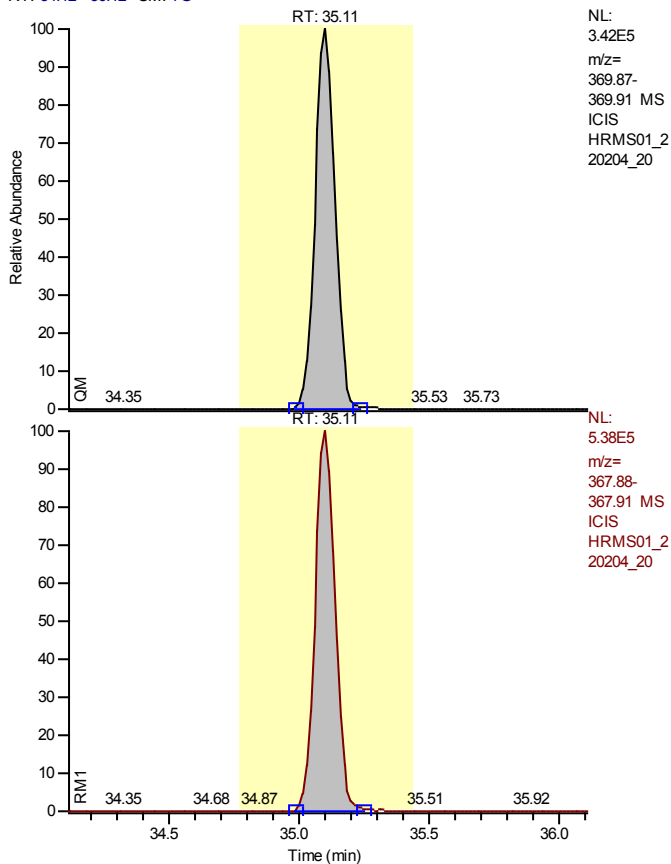
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.12-36.12 SM: 7G

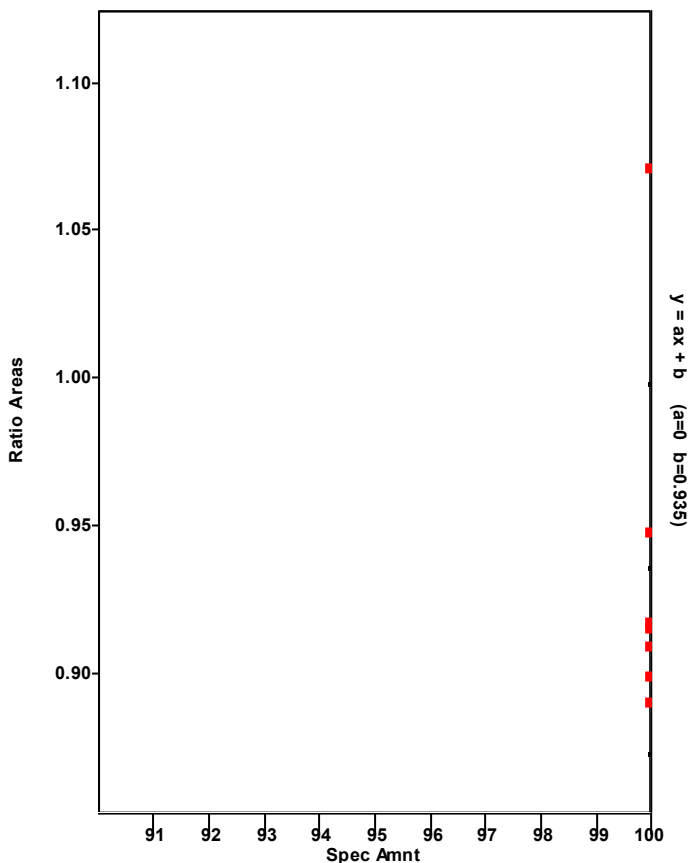


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1827696
RM1 Area	2875703
RM1 Ratio (A)	1.5734
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

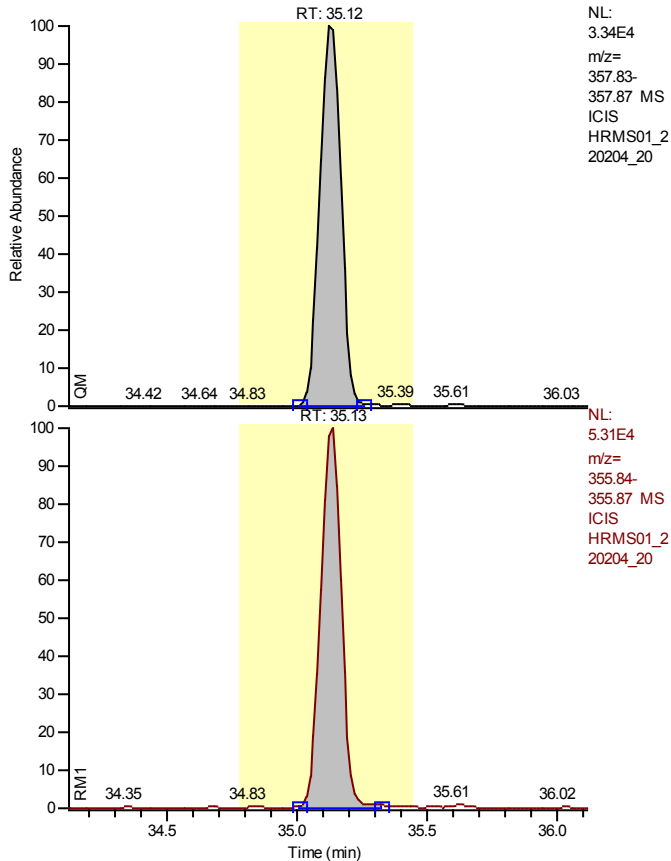
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.12- 36.12 SM: 7G

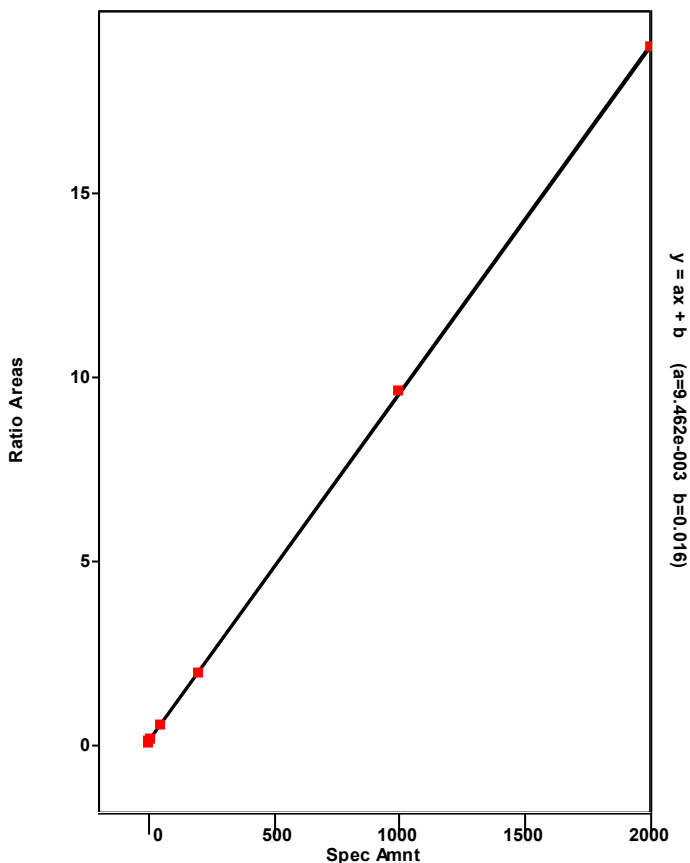


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	186621
RM1 Area	286827
RM1 Ratio (A)	1.5370
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

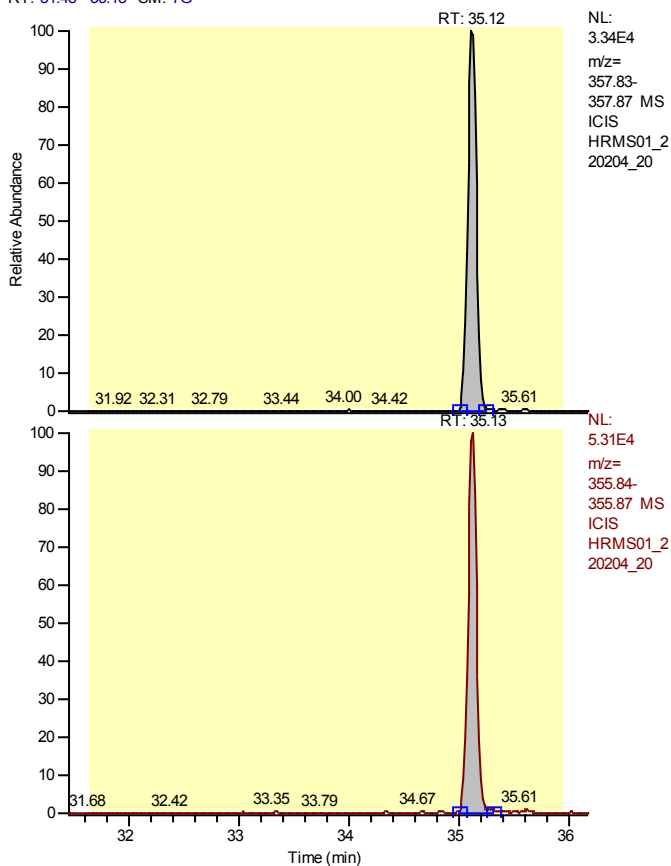
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.45 - 36.18 SM: 7G

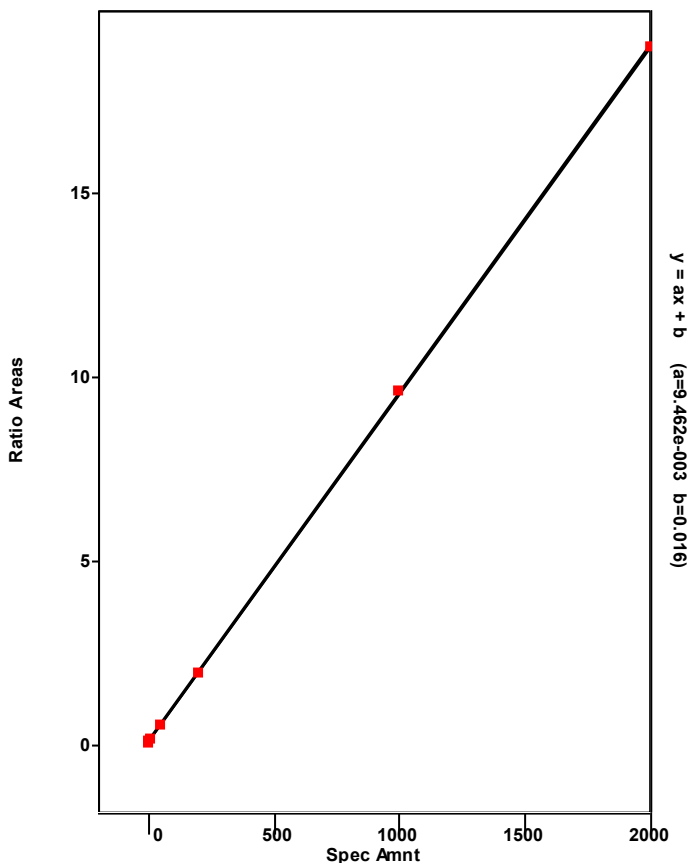


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	186621
RM1 Area	286827
RM1 Ratio (A)	1.5370
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

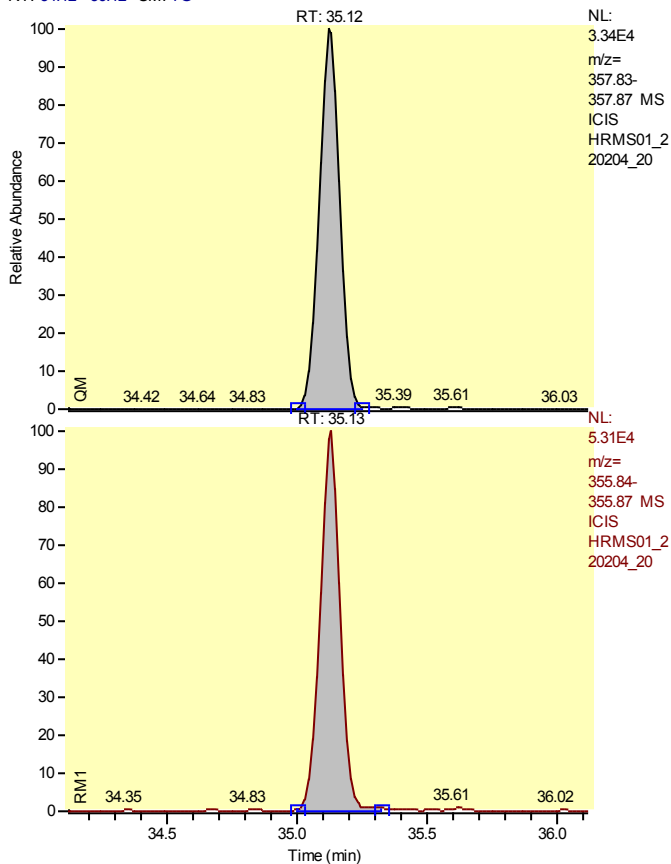
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.12- 36.12 SM: 7G

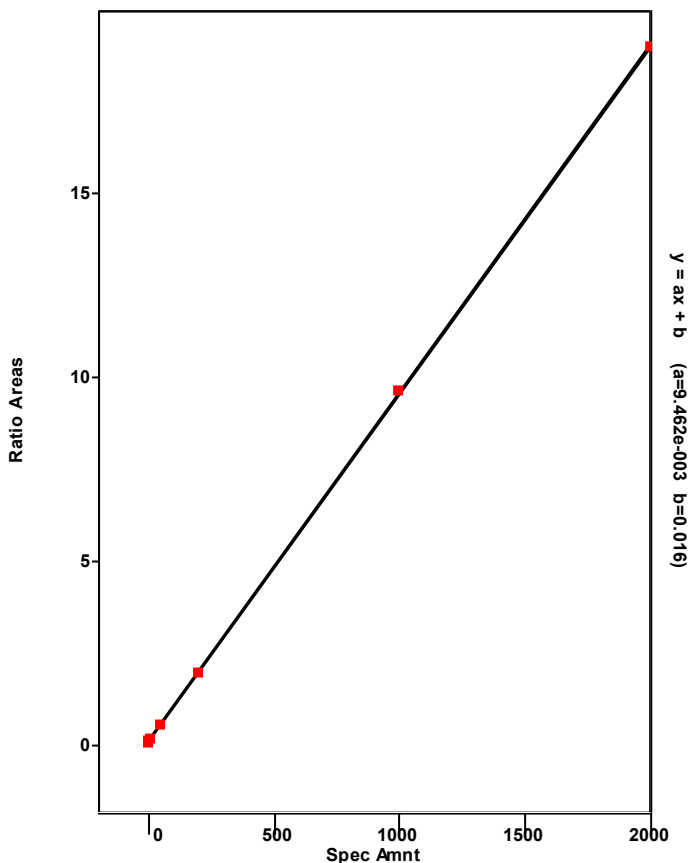


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	186621
RM1 Area	286827
RM1 Ratio (A)	1.5370
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

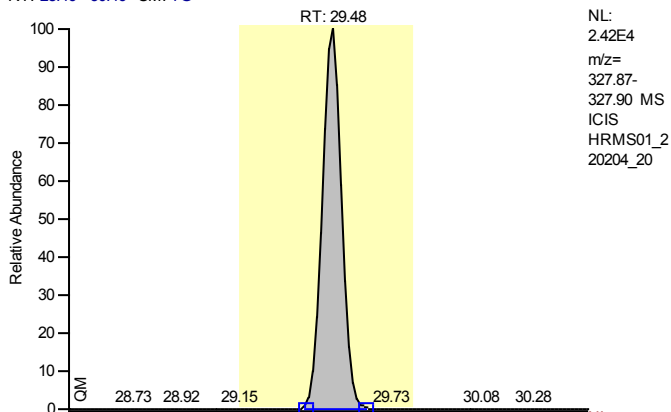
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



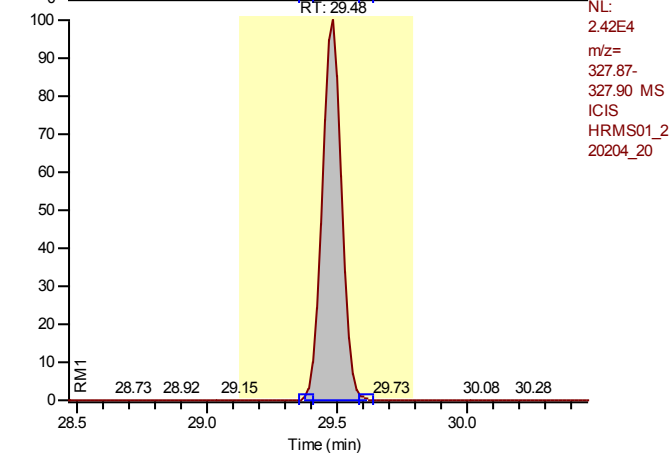
Chromatogram

Entry Parameters

RT: 28.46 - 30.46 SM: 7G



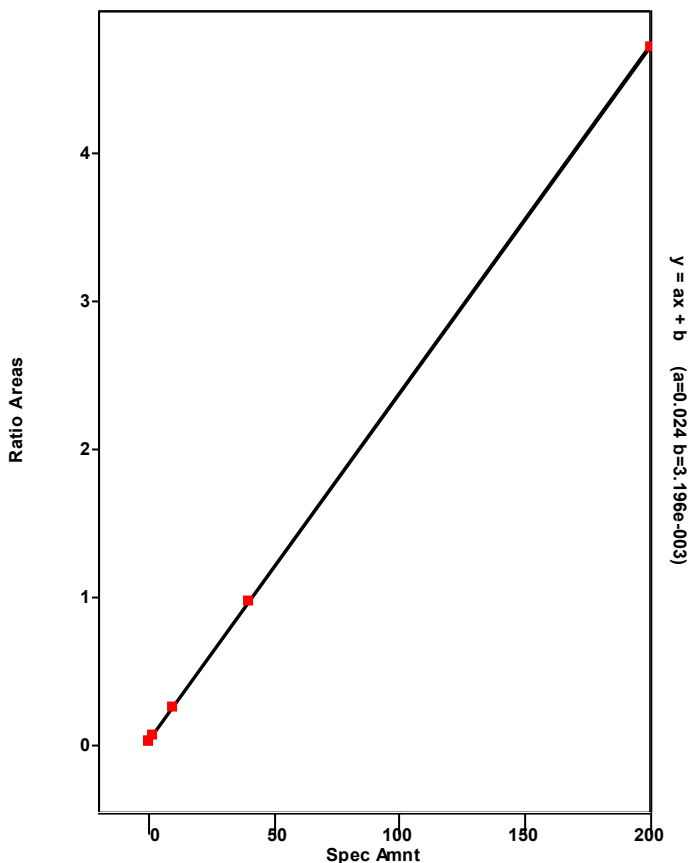
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	123654
RM1 Area	123654
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

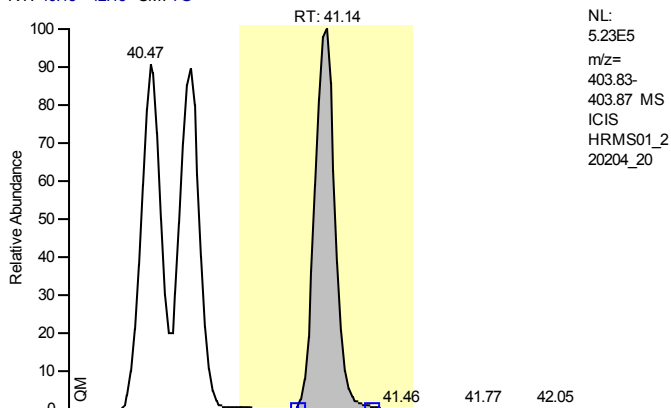
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

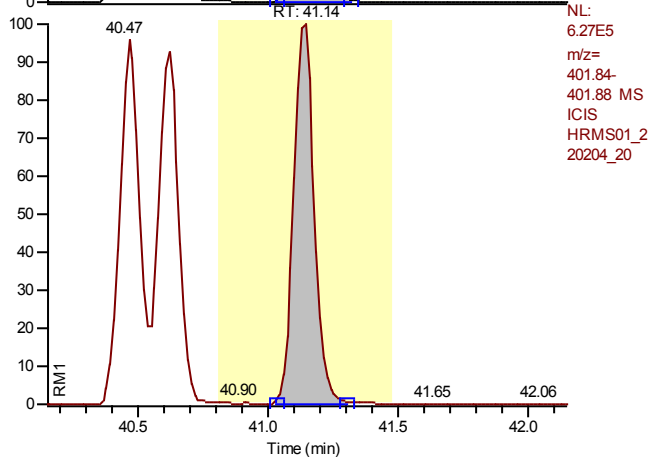
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
5.23E5
m/z=
403.83-
403.87 MS
ICIS
HRMS01_2
20204_20

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2840029
RM1 Area	3434650
RM1 Ratio (A)	1.2094
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

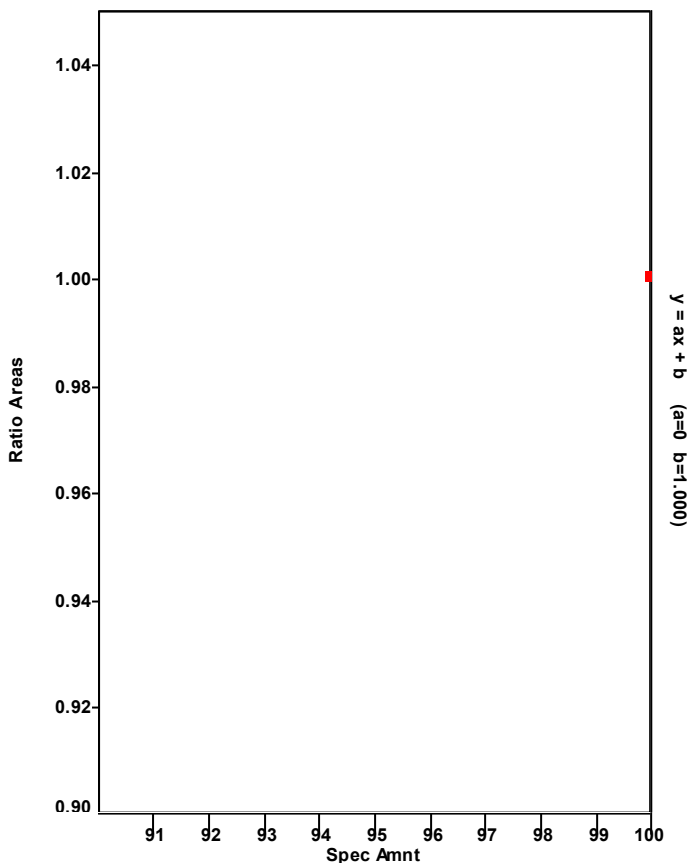


NL:
6.27E5
m/z=
401.84-
401.88 MS
ICIS
HRMS01_2
20204_20

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

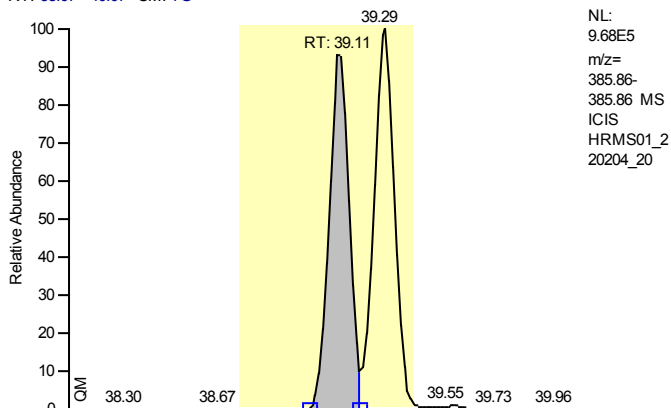
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



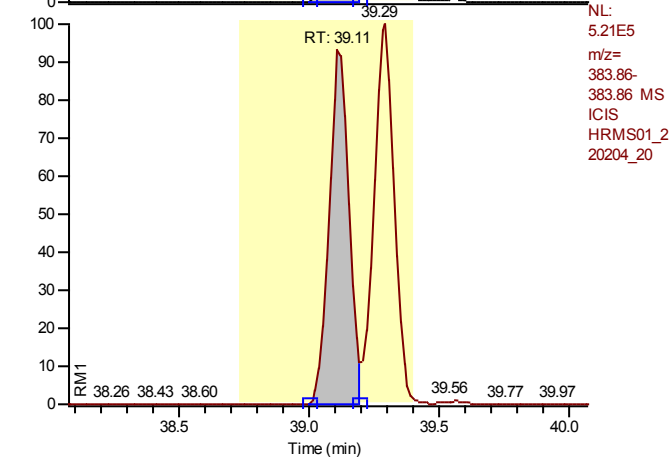
Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G



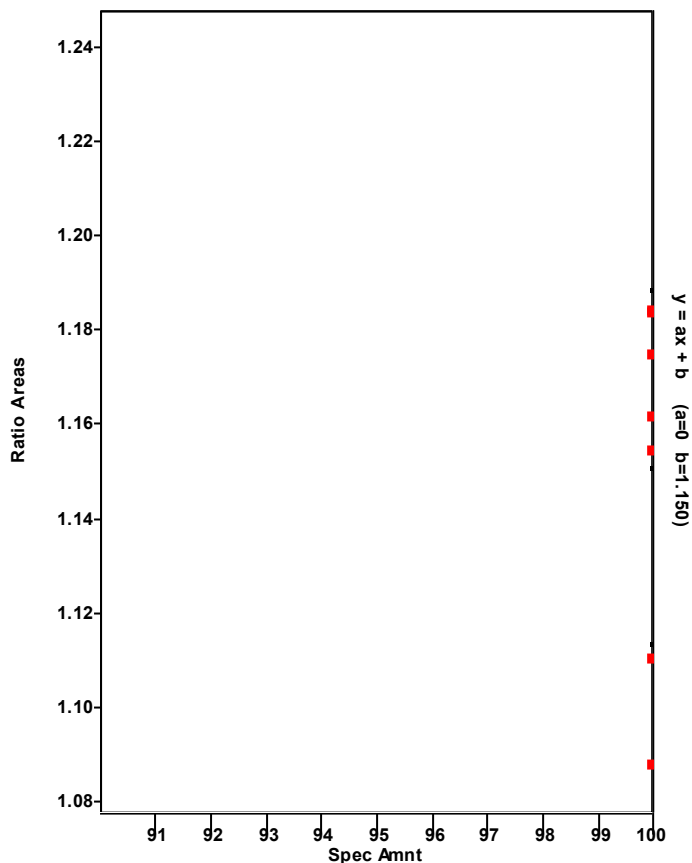
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	4850121
RM1 Area	2573828
RM1 Ratio (A)	0.5307
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

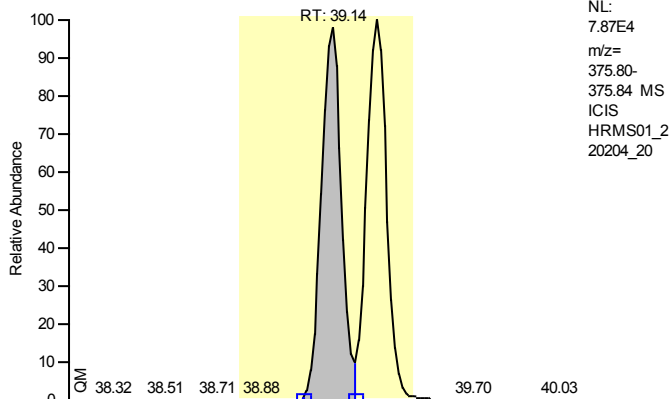
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

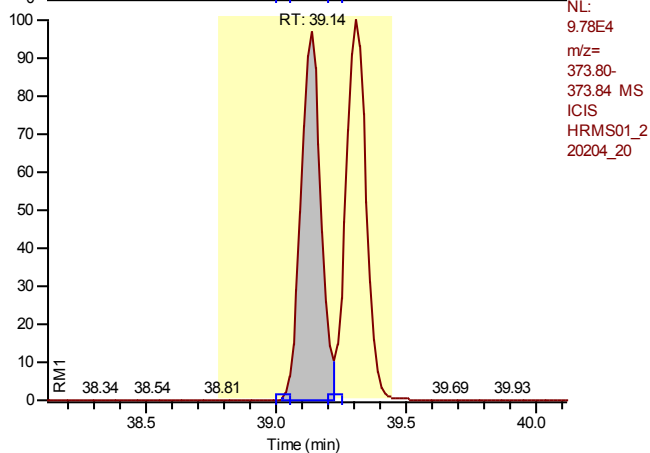
Entry Parameters

RT: 38.12 - 40.12 SM: 7G



NL:
7.87E4
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_20

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	414454
RM1 Area	504011
RM1 Ratio (A)	1.2161
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

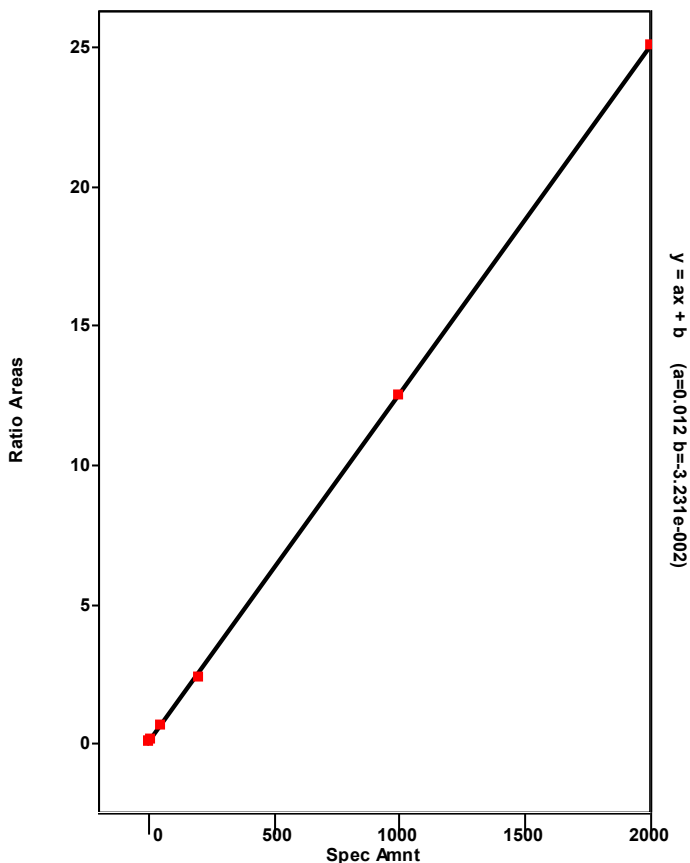


NL:
9.78E4
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_20

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

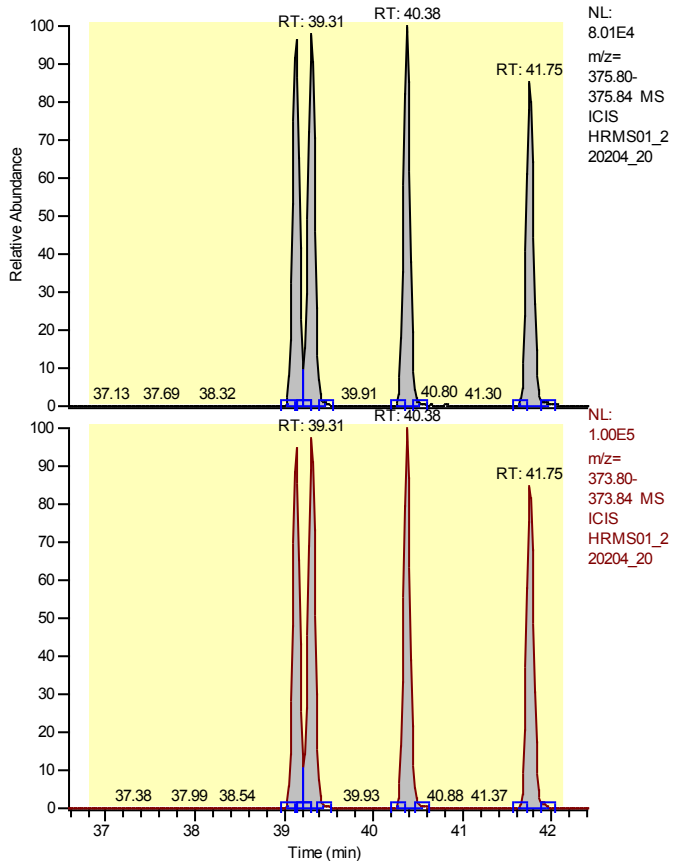
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.58 - 42.41 SM: 7G

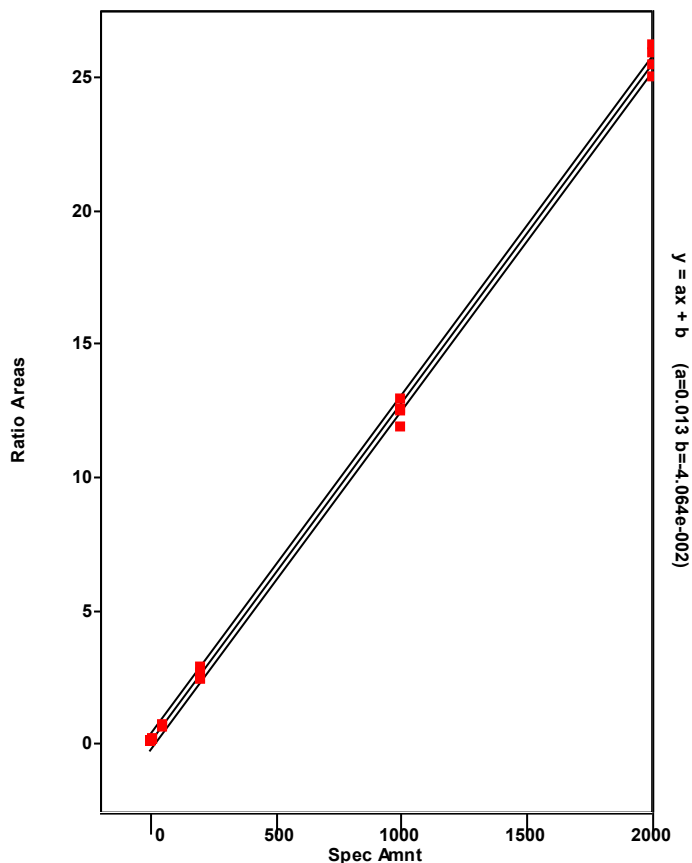


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	1643726
RM1 Area	2044385
RM1 Ratio (A)	1.2438
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	40.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

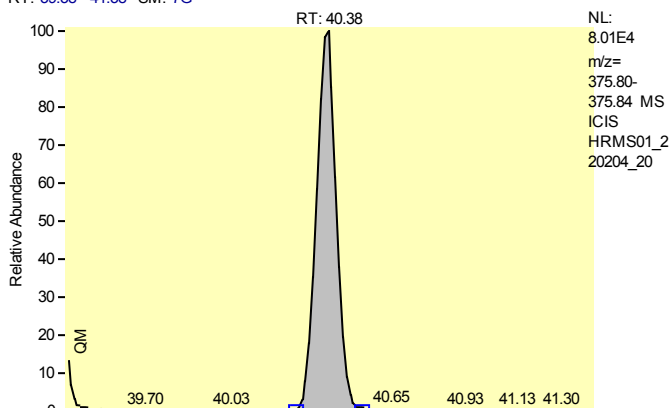
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

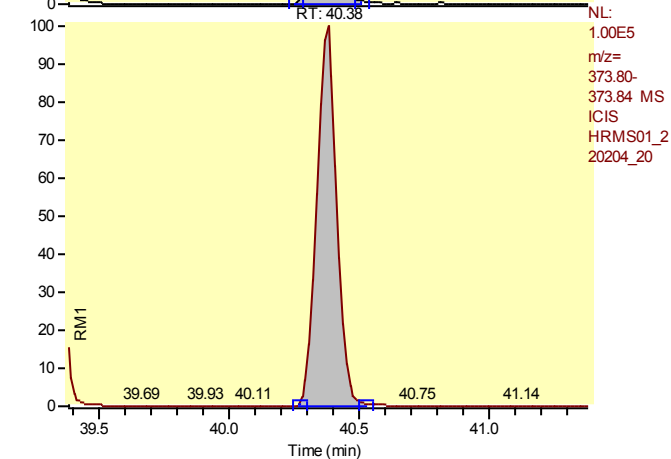
Entry Parameters

RT: 39.38 - 41.38 SM: 7G



NL:
 8.01E4
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_20

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	425519
RM1 Area	533161
RM1 Ratio (A)	1.2530
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

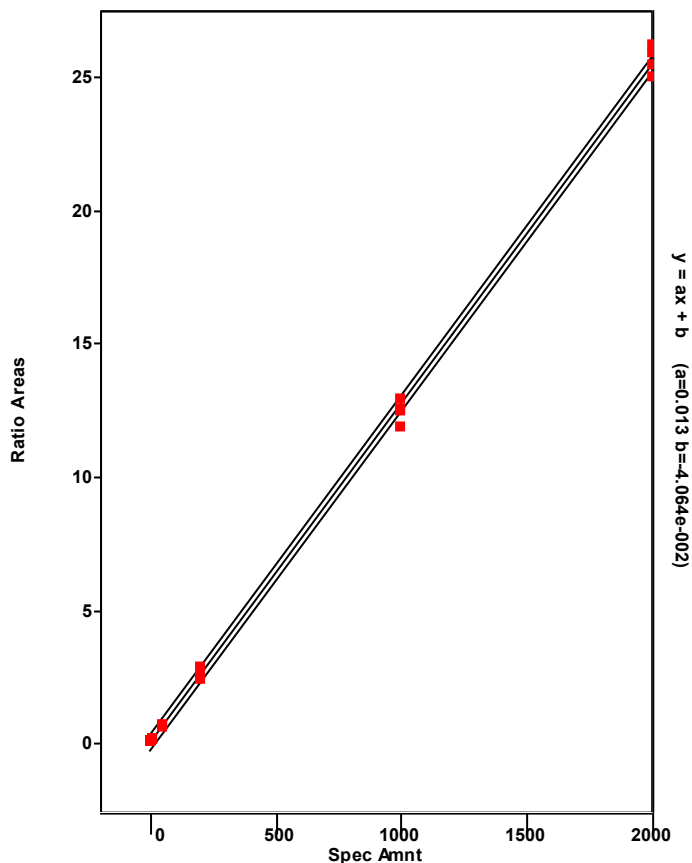


NL:
 1.00E5
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_20

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

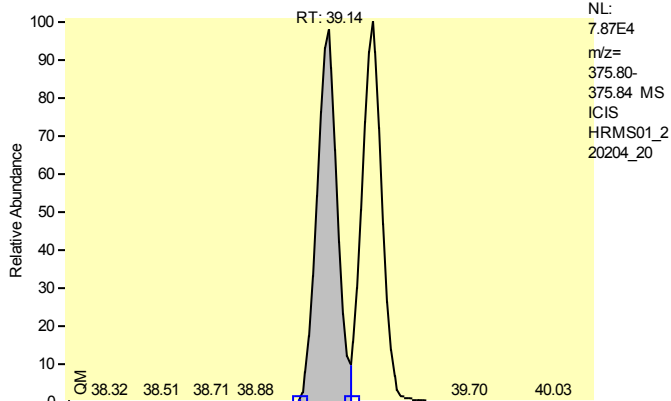
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



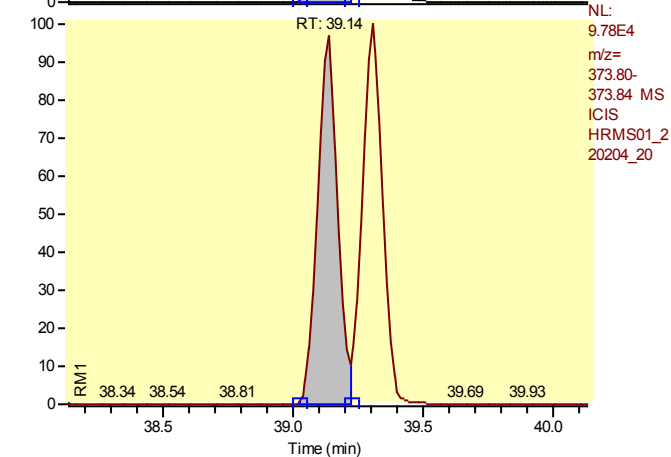
Chromatogram

Entry Parameters

RT: 38.14 - 40.14 SM: 7G



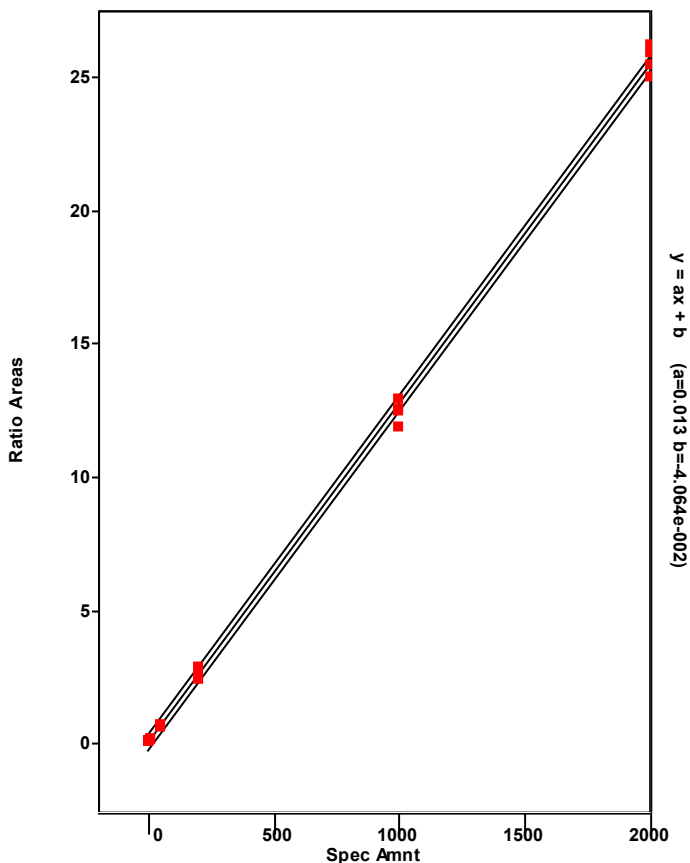
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	414454
RM1 Area	504011
RM1 Ratio (A)	1.2161
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

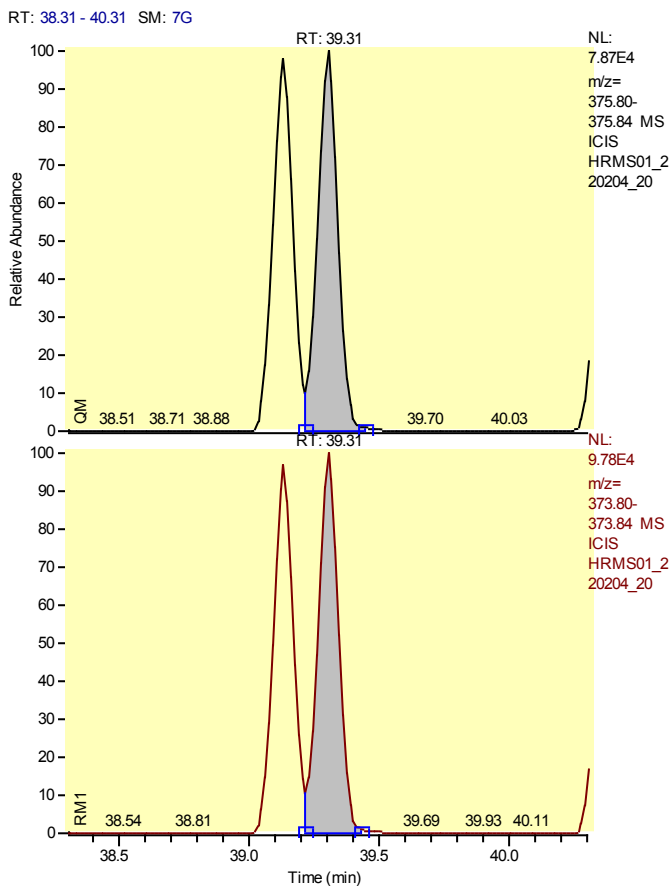
Calibration Points of Total Hexachlorodibenzofuran__2

Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

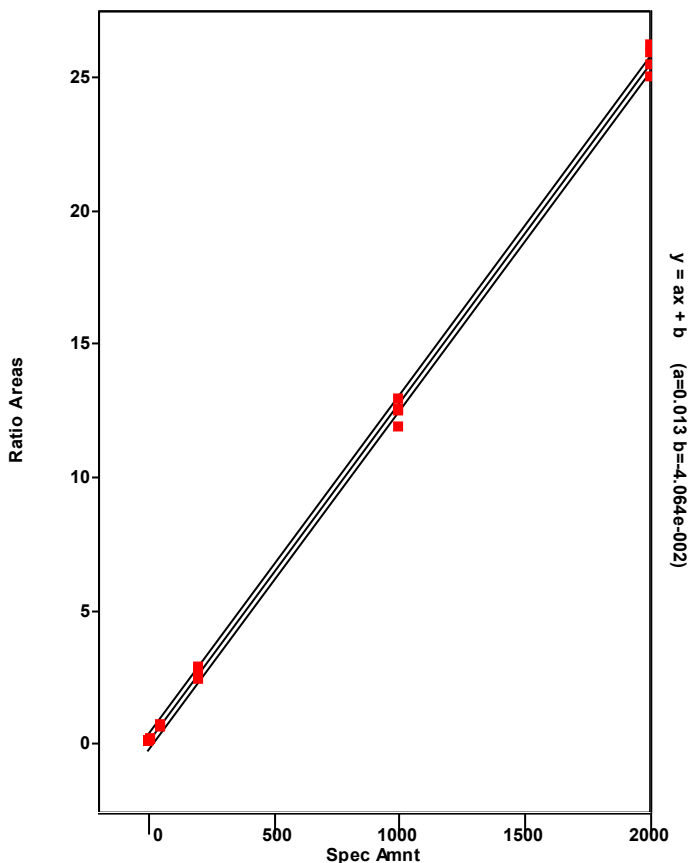


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	421427
RM1 Area	528017
RM1 Ratio (A)	1.2529
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

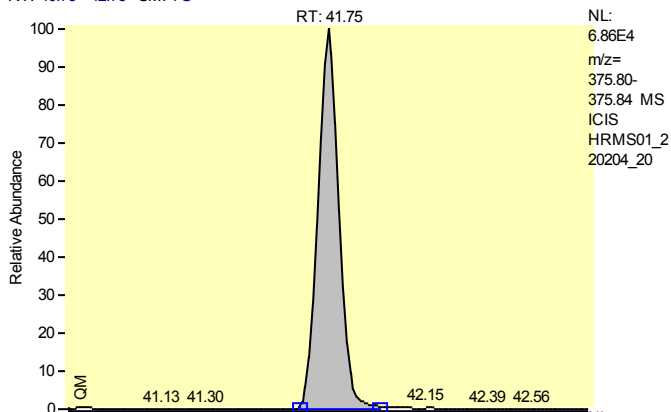
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



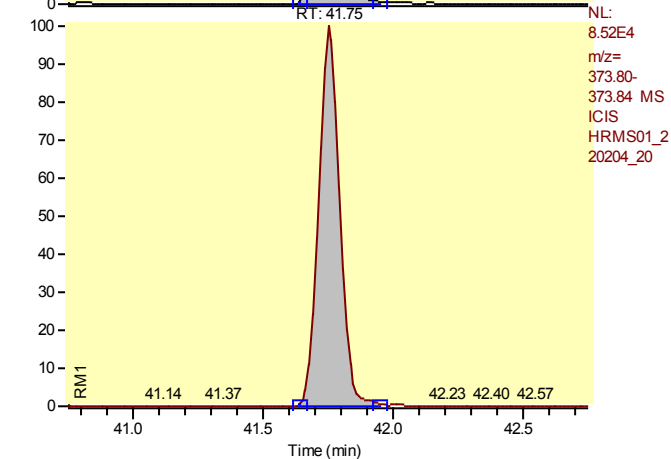
Chromatogram

Entry Parameters

RT: 40.75 - 42.75 SM: 7G



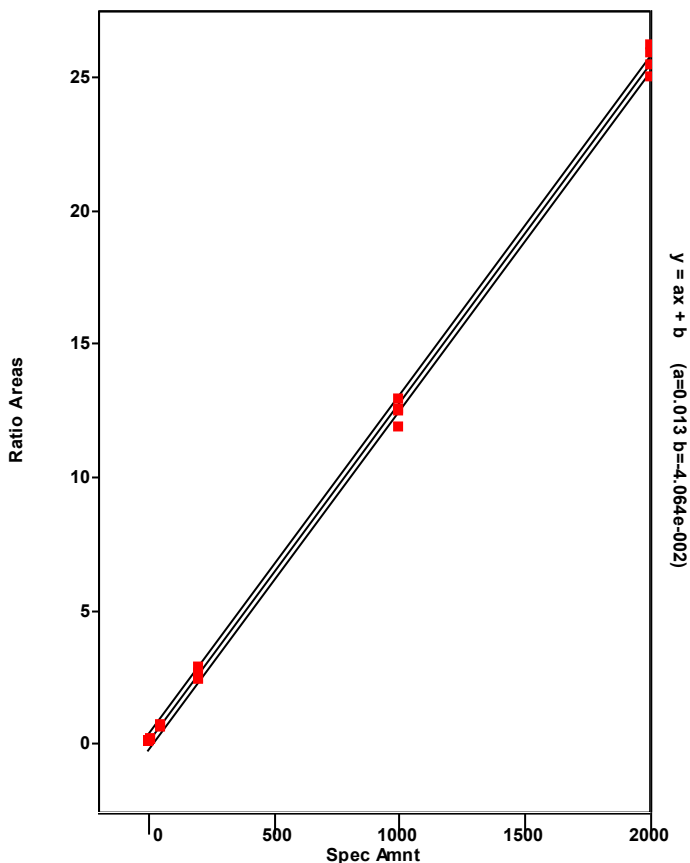
Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	382325
RM1 Area	479196
RM1 Ratio (A)	1.2534
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

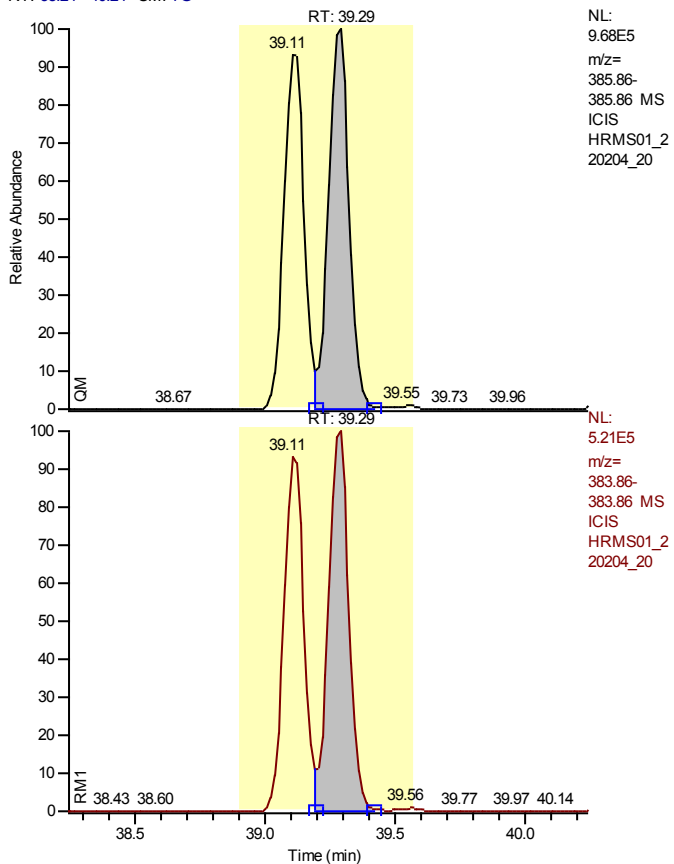
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G



NL: 9.68E5
 m/z= 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_20

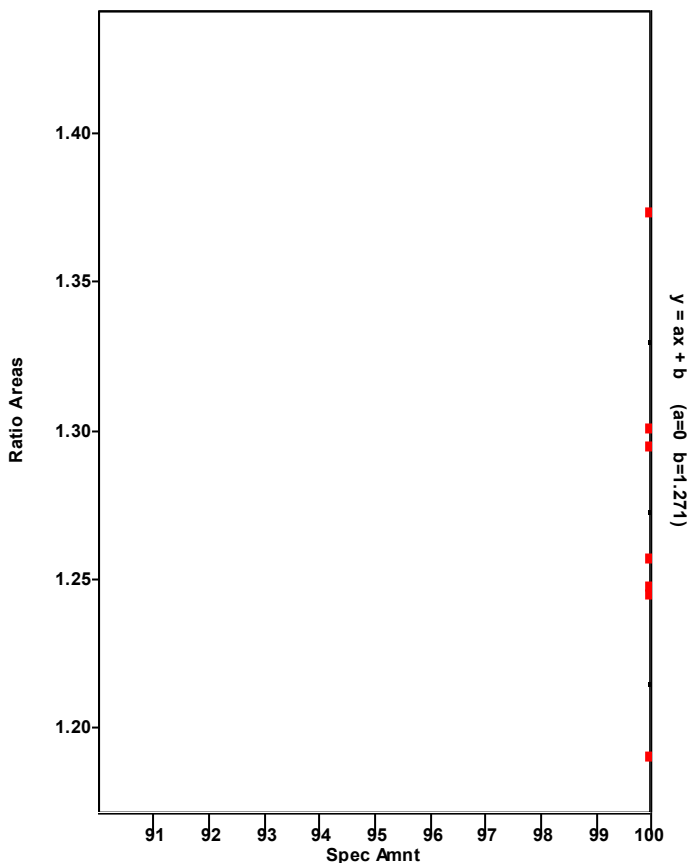
NL: 5.21E5
 m/z= 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_20

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	5308154
RM1 Area	2844897
RM1 Ratio (A)	0.5359
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

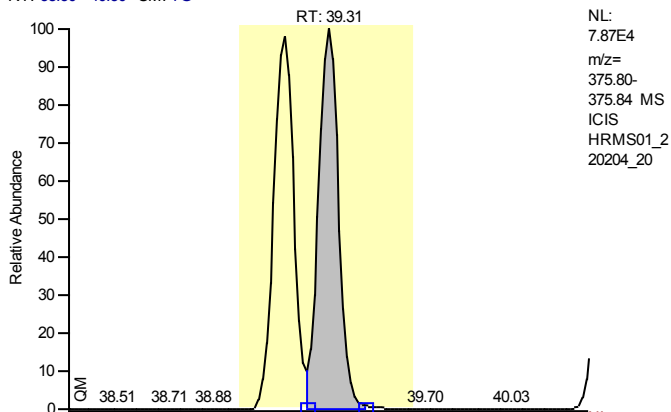
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



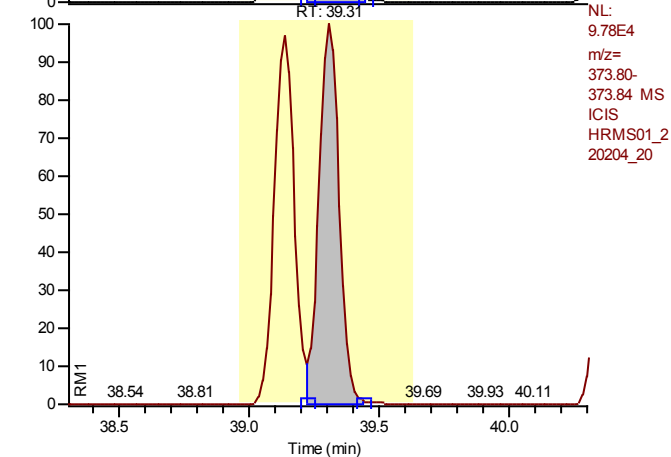
Chromatogram

Entry Parameters

RT: 38.30 - 40.30 SM: 7G



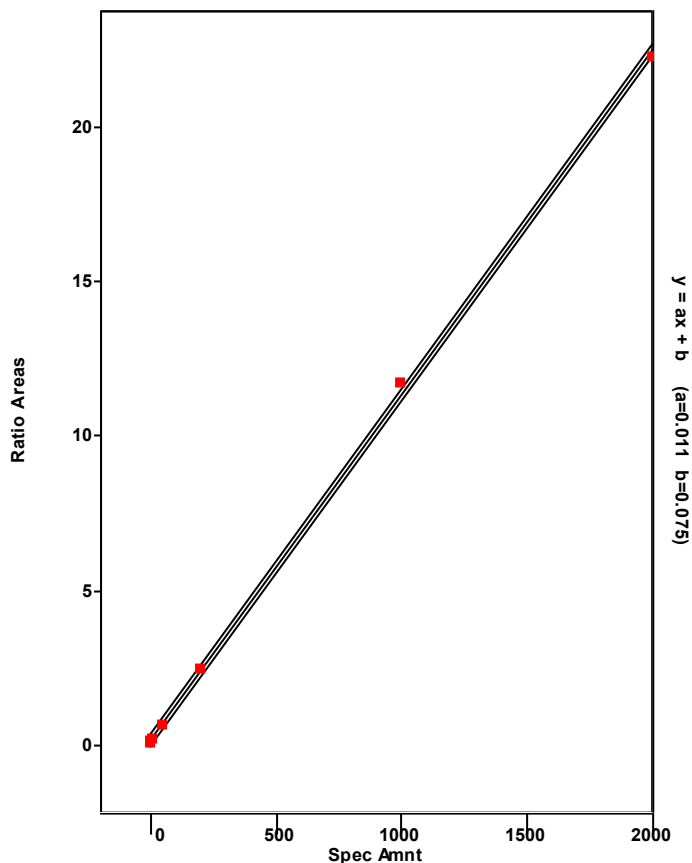
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	421427
RM1 Area	528017
RM1 Ratio (A)	1.2529
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

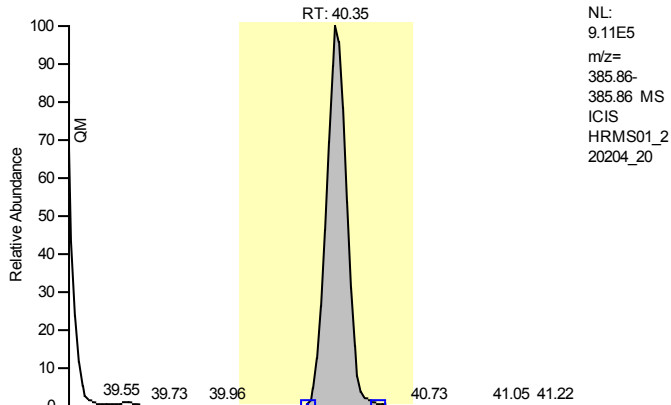
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

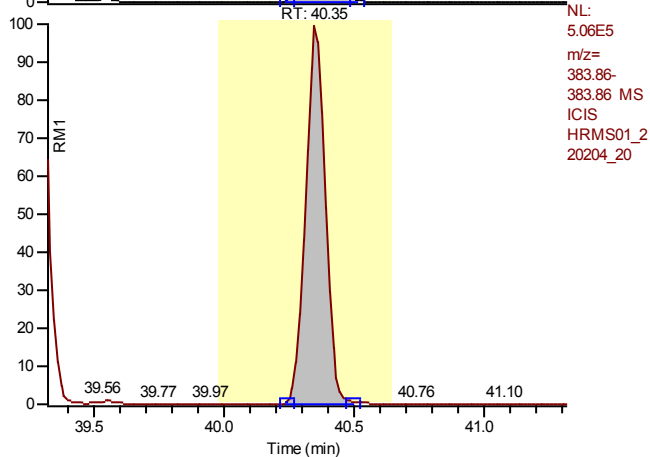
Entry Parameters

RT: 39.32 - 41.32 SM: 7G



NL:
 9.11E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_20

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	5003950
RM1 Area	2671748
RM1 Ratio (A)	0.5339
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

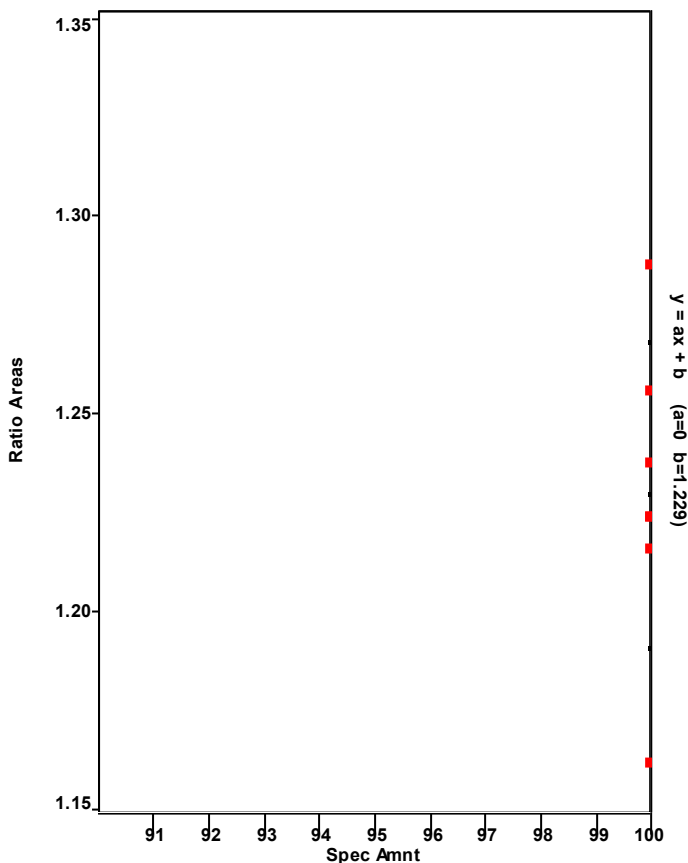


NL:
 5.06E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_20

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

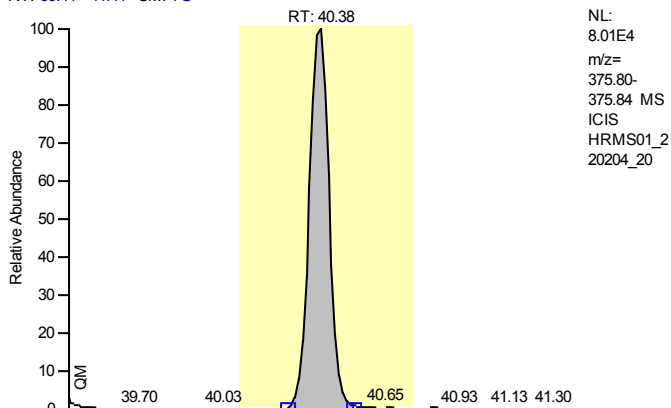
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



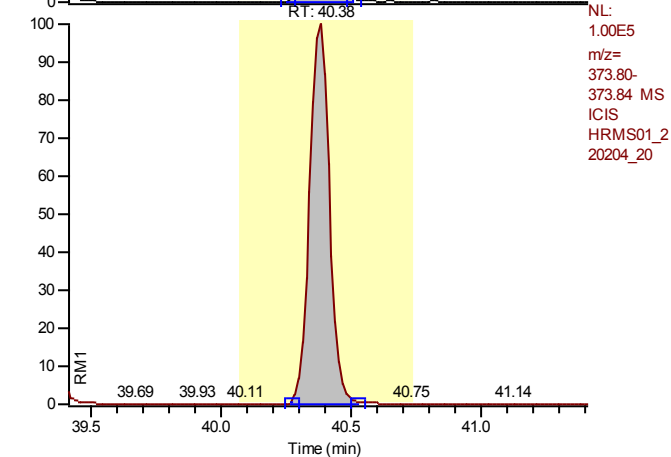
Chromatogram

Entry Parameters

RT: 39.41 - 41.41 SM: 7G



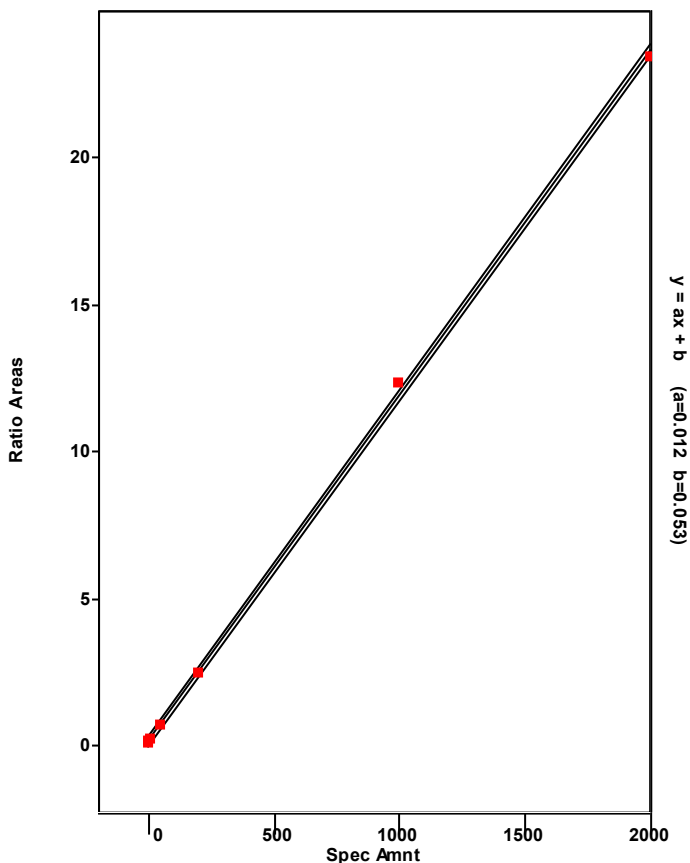
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	425519
RM1 Area	533161
RM1 Ratio (A)	1.2530
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

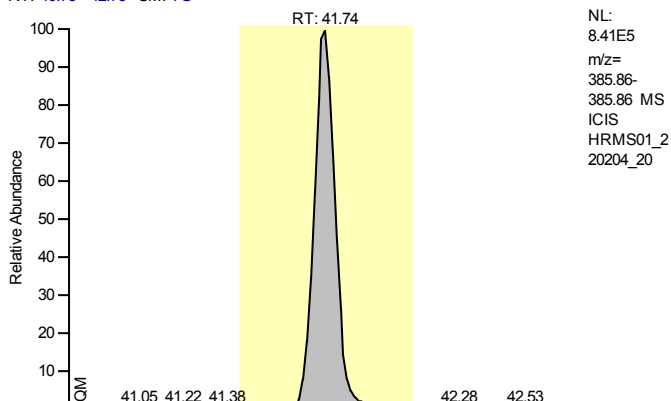
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



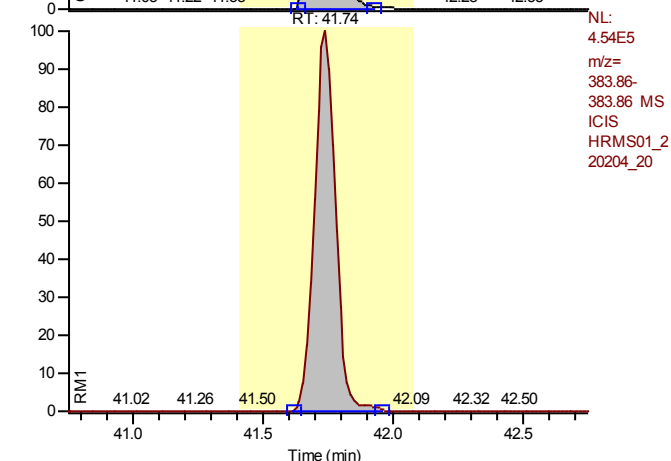
Chromatogram

Entry Parameters

RT: 40.75 - 42.75 SM: 7G



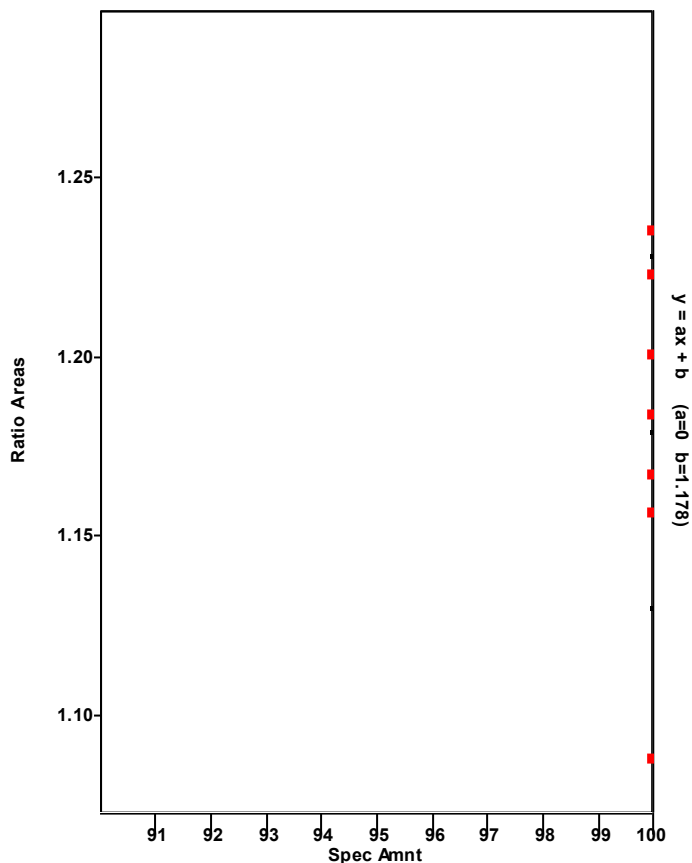
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	4735158
RM1 Area	2582719
RM1 Ratio (A)	0.5454
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

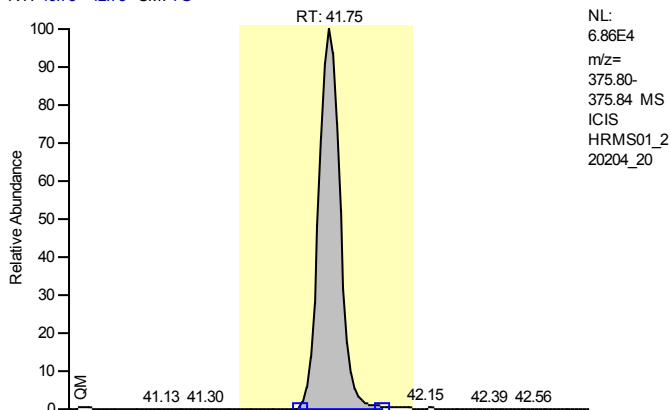
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



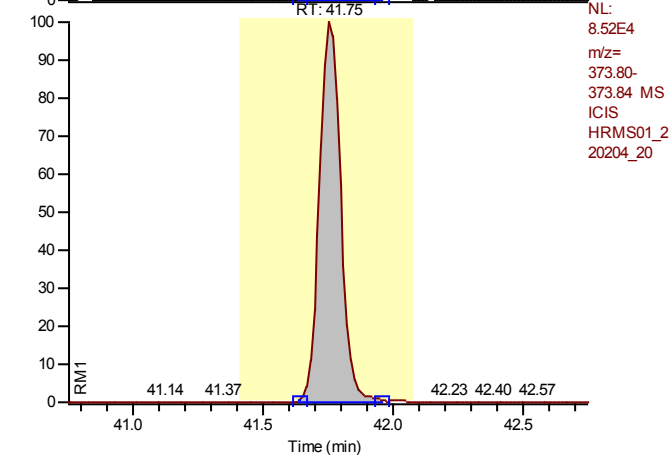
Chromatogram

Entry Parameters

RT: 40.75 - 42.75 SM: 7G



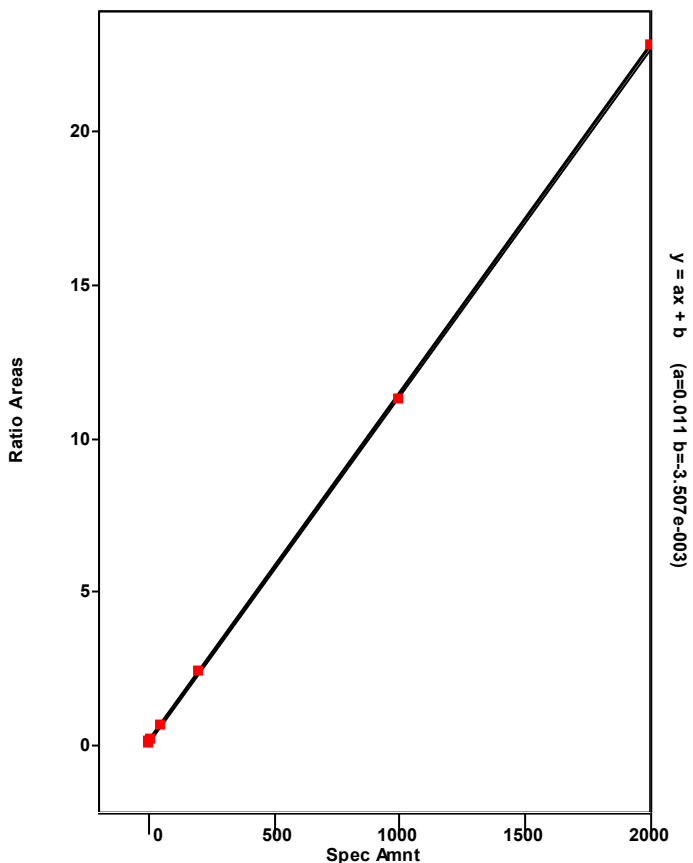
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	382325
RM1 Area	479196
RM1 Ratio (A)	1.2534
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

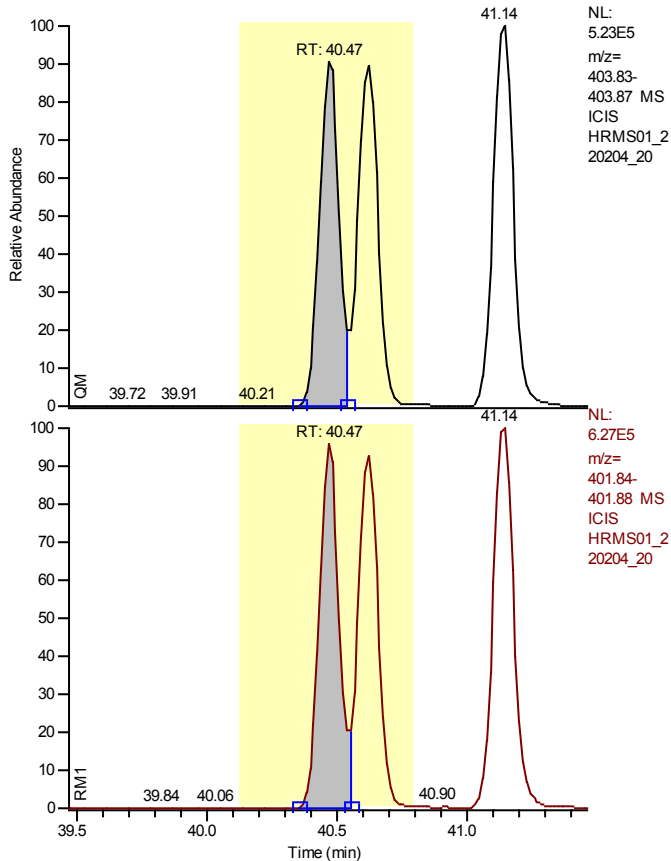
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

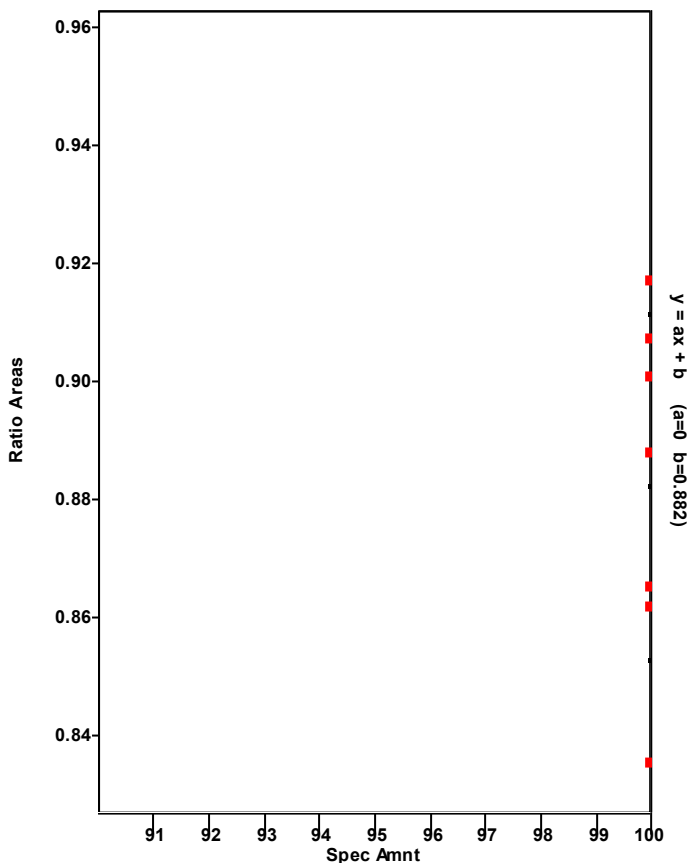
RT: 39.46 - 41.46 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2471584
RM1 Area	3177874
RM1 Ratio (A)	1.2858
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

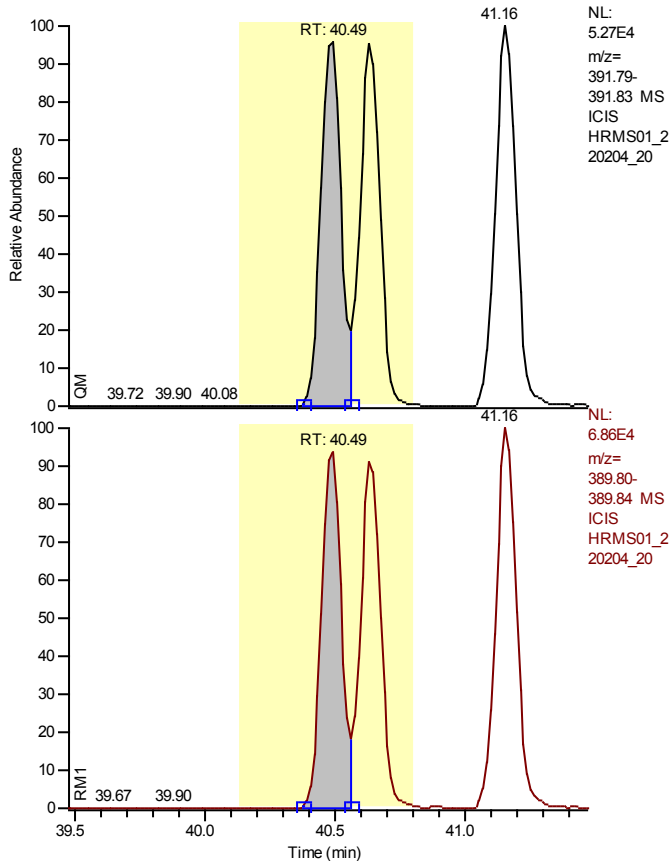
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.48 - 41.48 SM: 7G

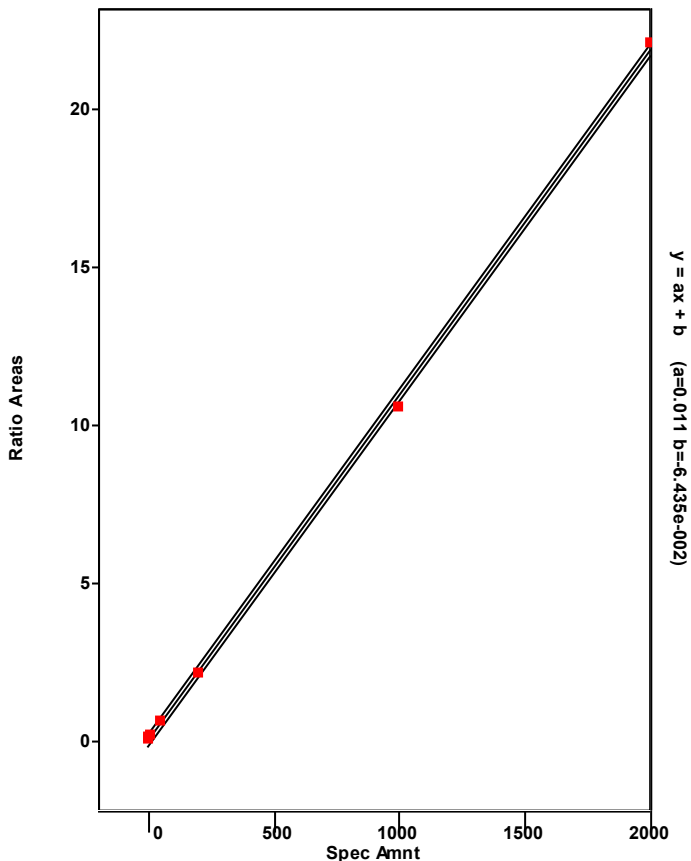


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	268169
RM1 Area	335336
RM1 Ratio (A)	1.2505
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

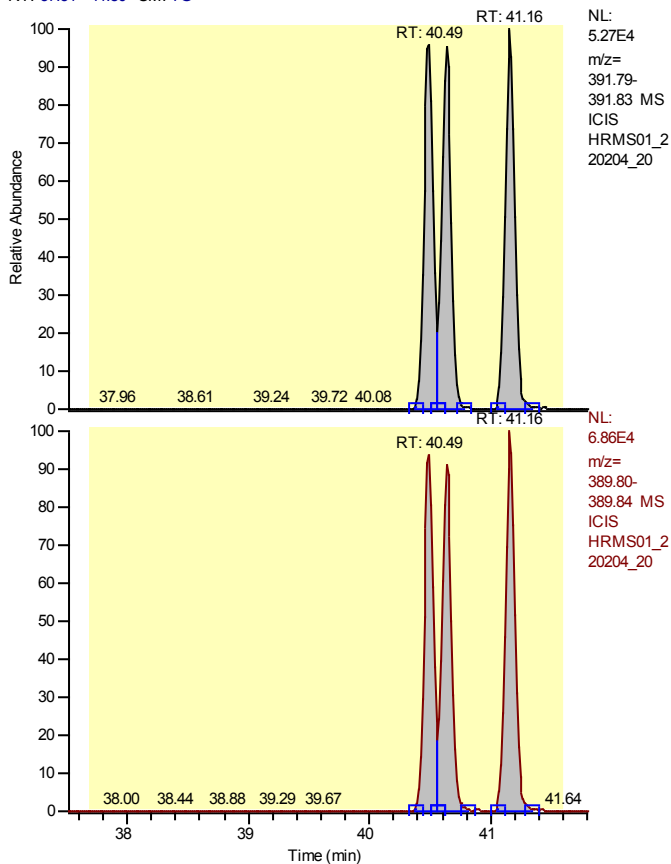
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.51 - 41.80 SM: 7G

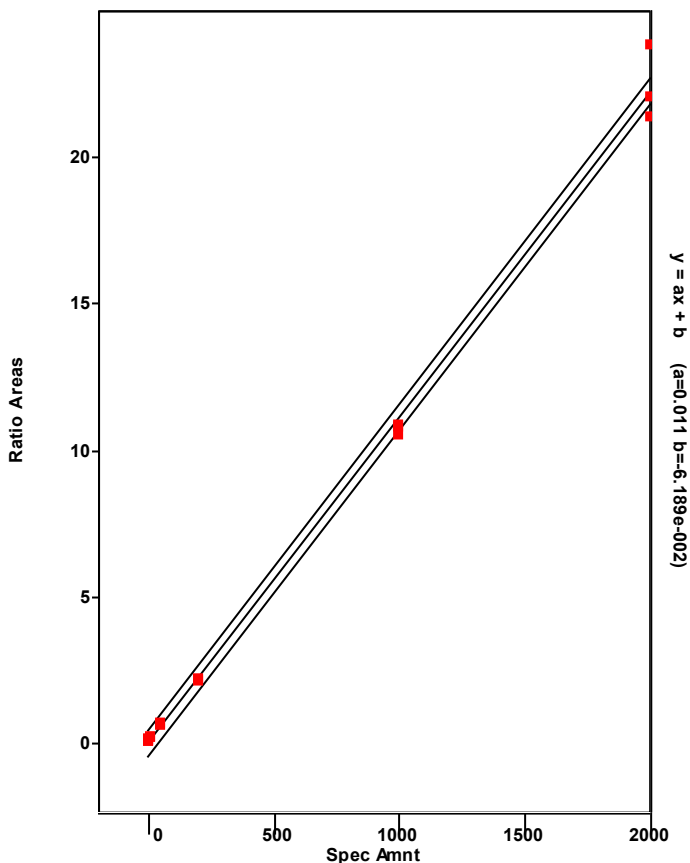


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	826647
RM1 Area	1049425
RM1 Ratio (A)	1.2695
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	30.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

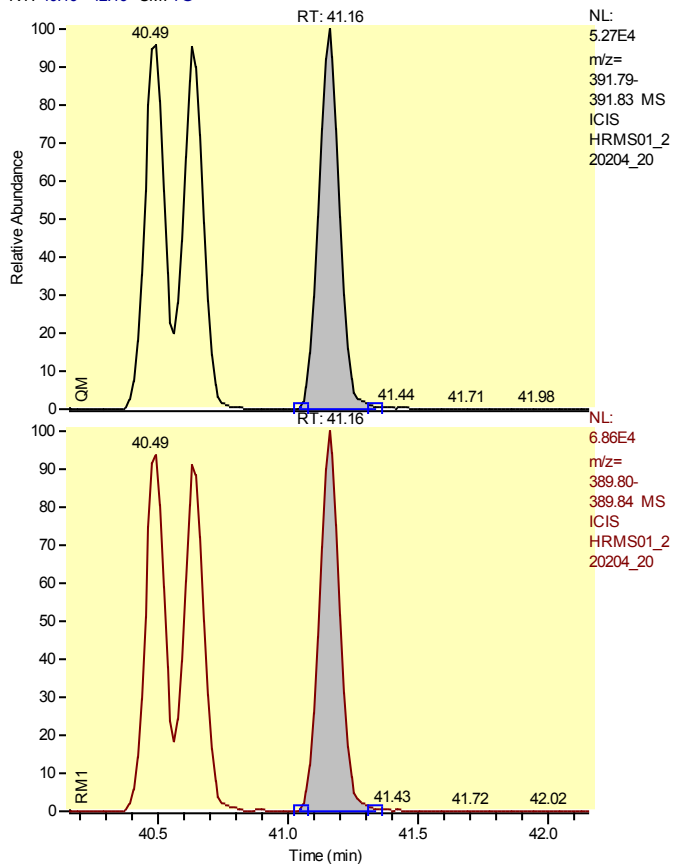
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 40.16 - 42.16 SM: 7G



NL:
5.27E4
m/z=
391.79-
391.83 MS
ICIS
HRMS01_2
20204_20

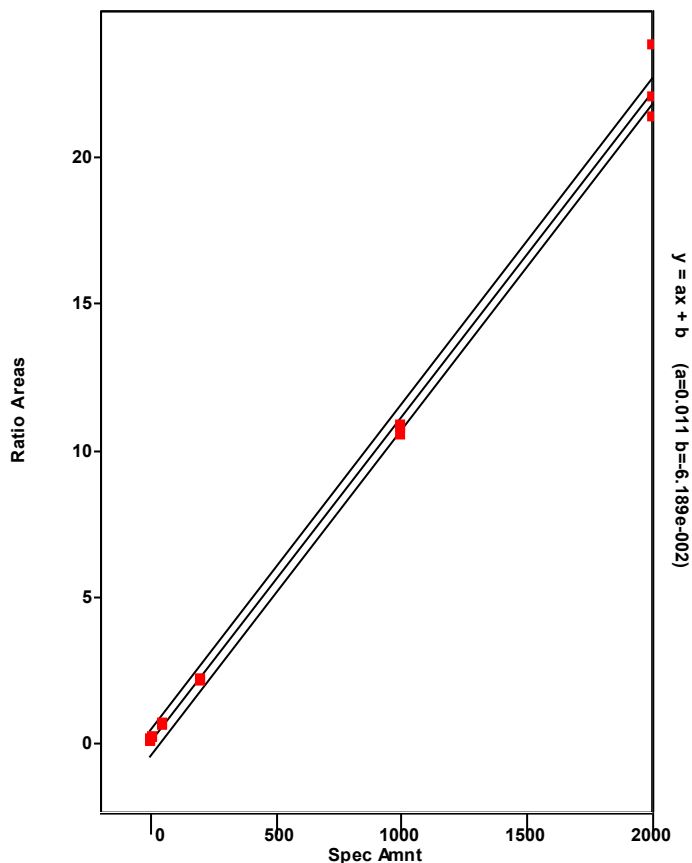
NL:
6.86E4
m/z=
389.80-
389.84 MS
ICIS
HRMS01_2
20204_20

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	291350
RM1 Area	375181
RM1 Ratio (A)	1.2877
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

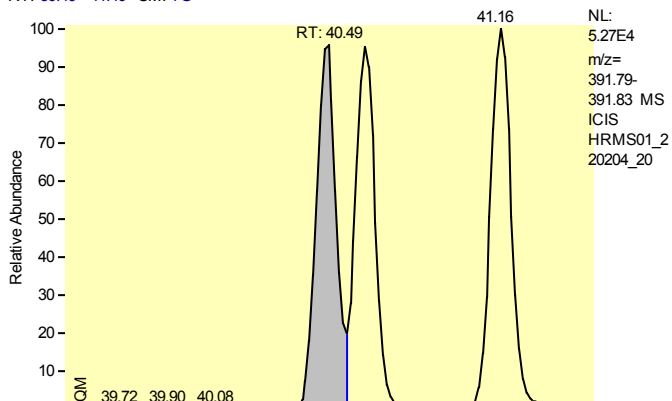
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



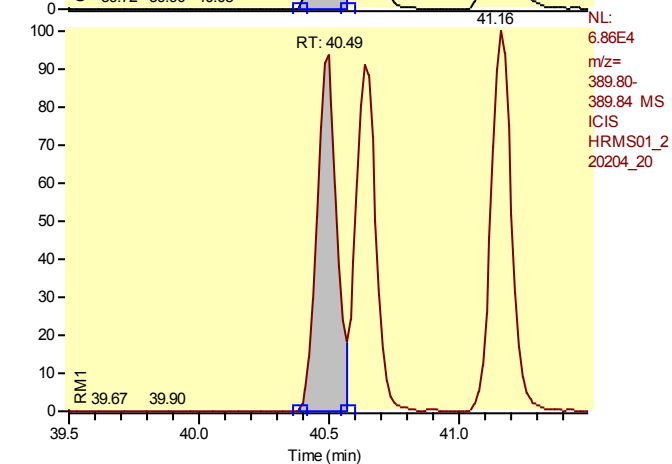
Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G



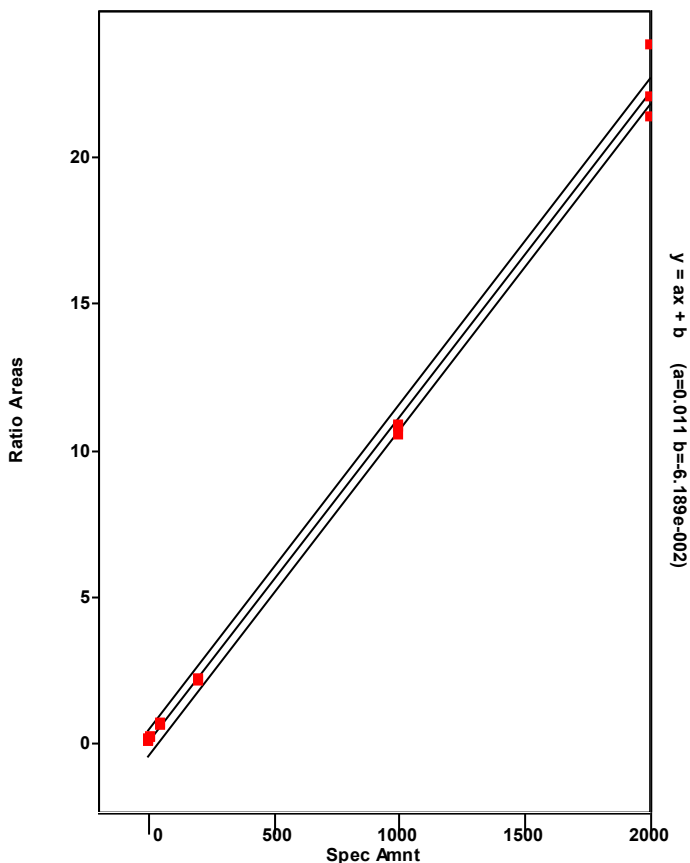
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	268169
RM1 Area	335336
RM1 Ratio (A)	1.2505
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

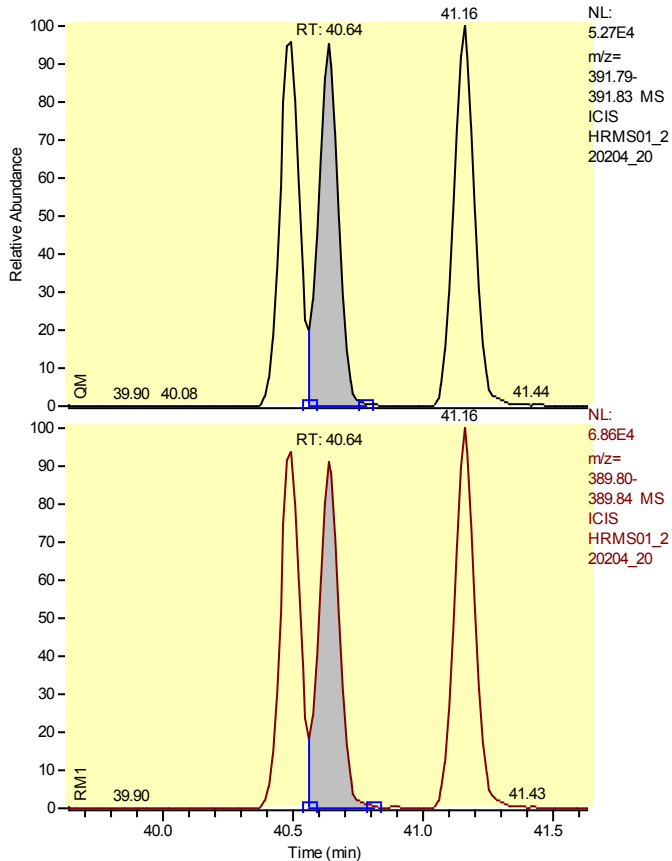
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G

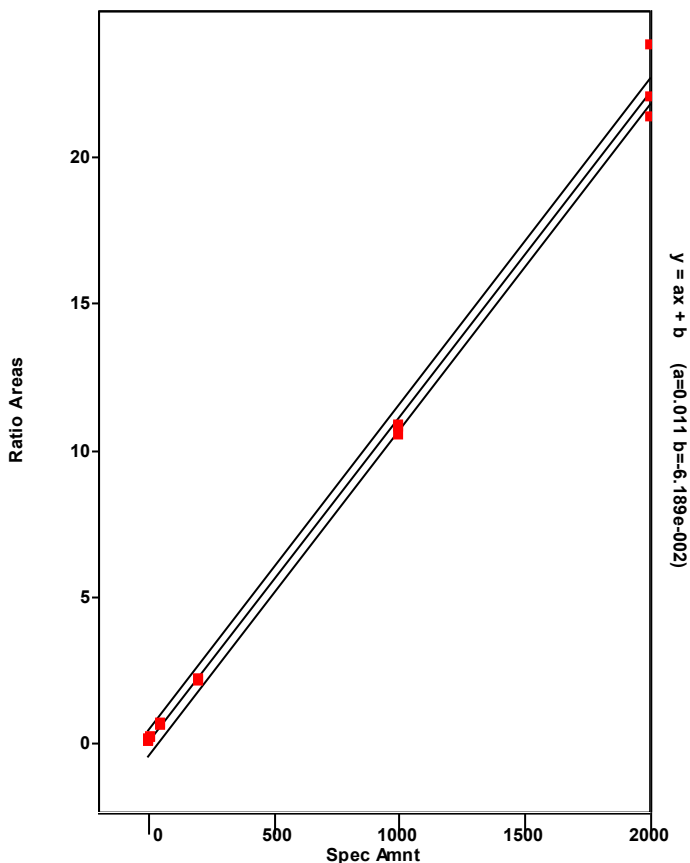


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	267128
RM1 Area	338908
RM1 Ratio (A)	1.2687
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

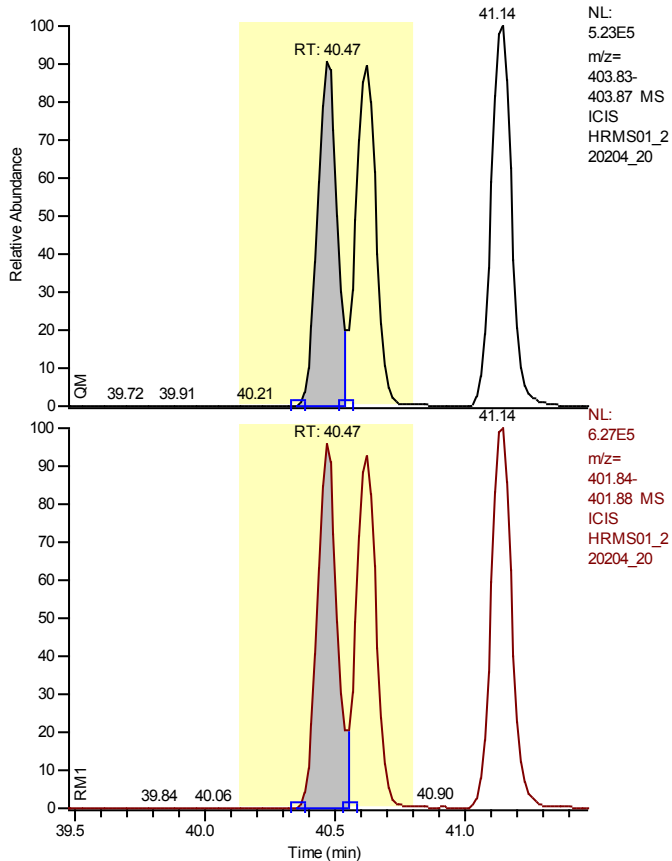
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

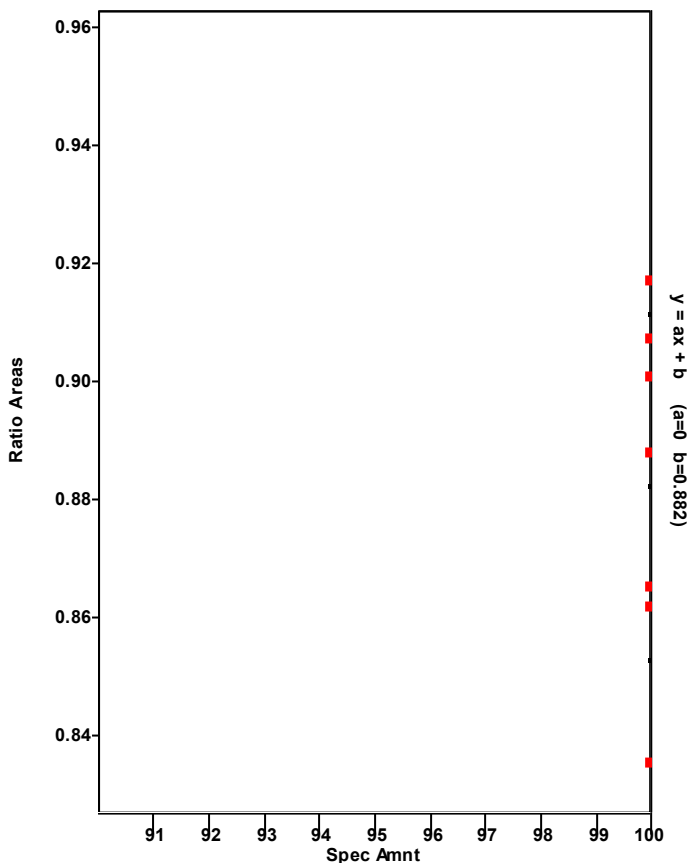
RT: 39.47 - 41.47 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2471584
RM1 Area	3177874
RM1 Ratio (A)	1.2858
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

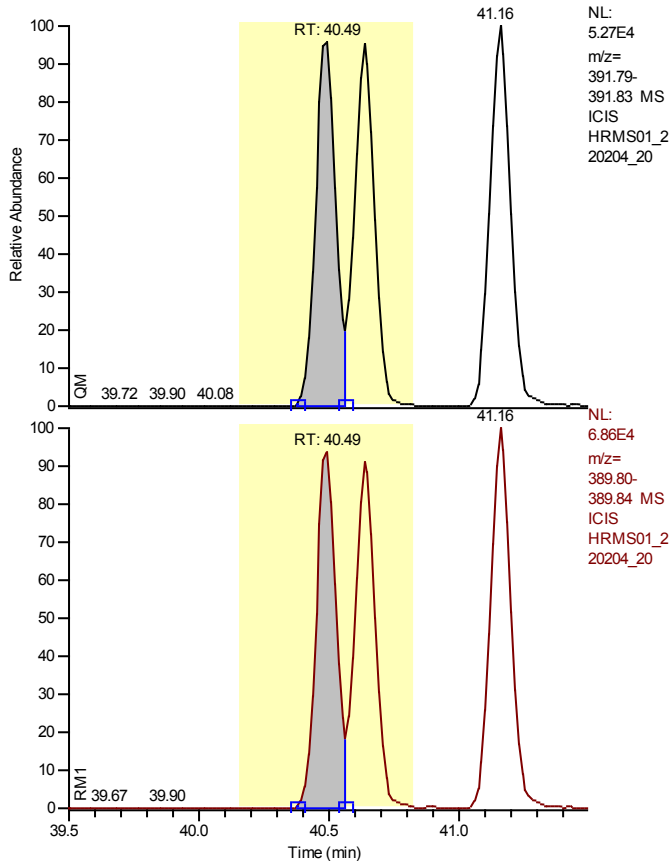
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.50 - 41.50 SM: 7G

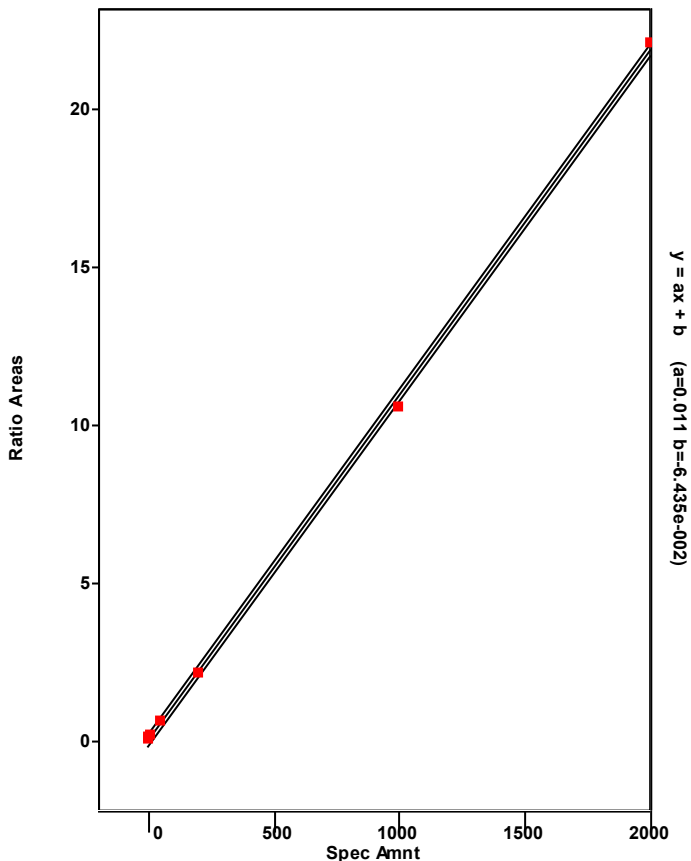


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	268169
RM1 Area	335336
RM1 Ratio (A)	1.2505
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

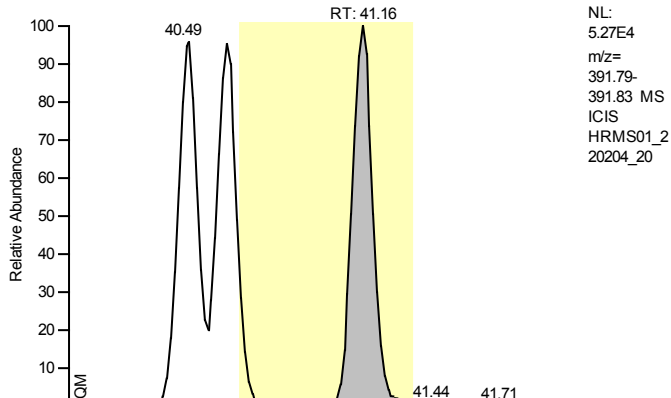
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

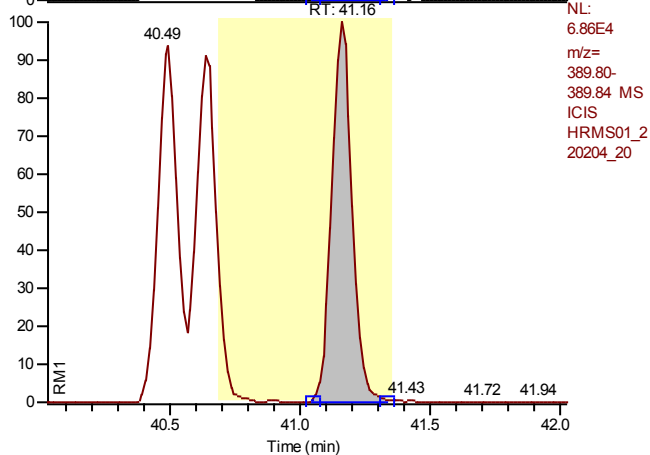
Entry Parameters

RT: 40.03 - 42.03 SM: 7G



NL:
 5.27E4
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20204_20

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	291350
RM1 Area	375181
RM1 Ratio (A)	1.2877
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

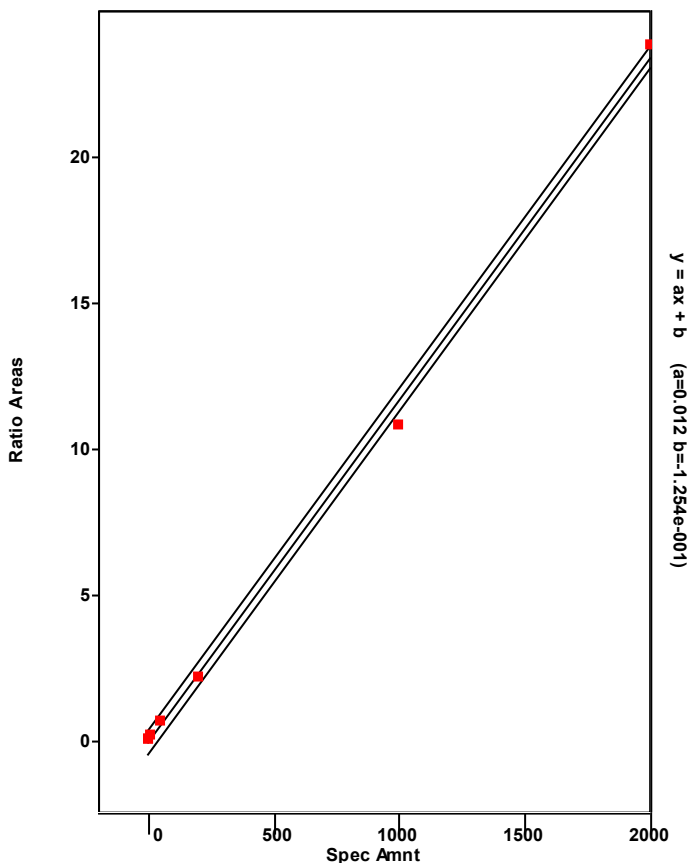


NL:
 6.86E4
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20204_20

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

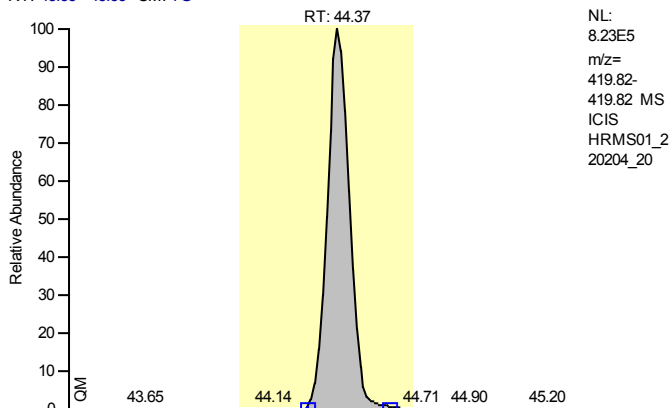
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



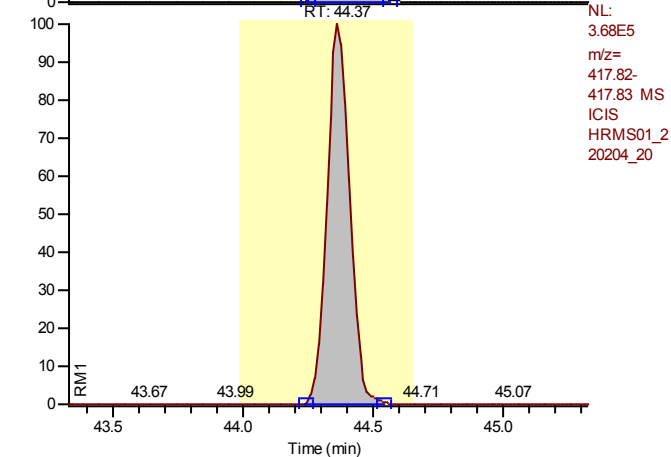
Chromatogram

Entry Parameters

RT: 43.33 - 45.33 SM: 7G

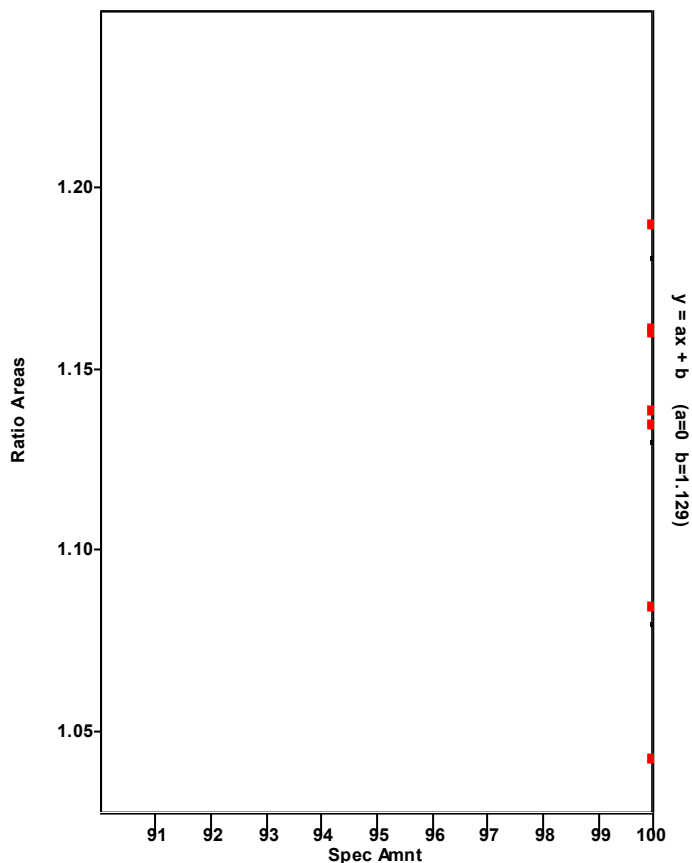


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4882445
RM1 Area	2232682
RM1 Ratio (A)	0.4573
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

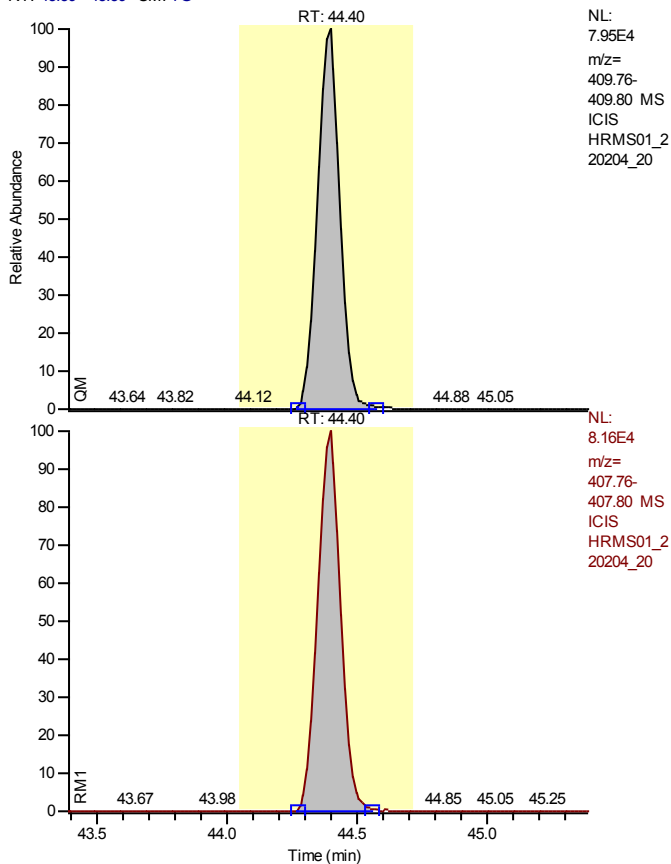
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.39 - 45.39 SM: 7G



NL:
7.95E4
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20204_20

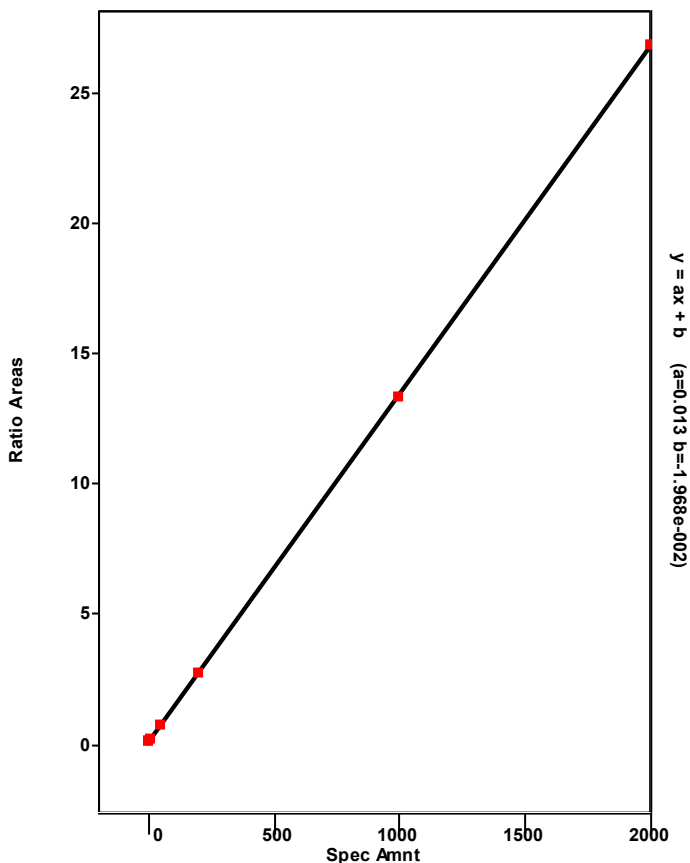
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	476051
RM1 Area	499196
RM1 Ratio (A)	1.0486
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	

NL:
8.16E4
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20204_20

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

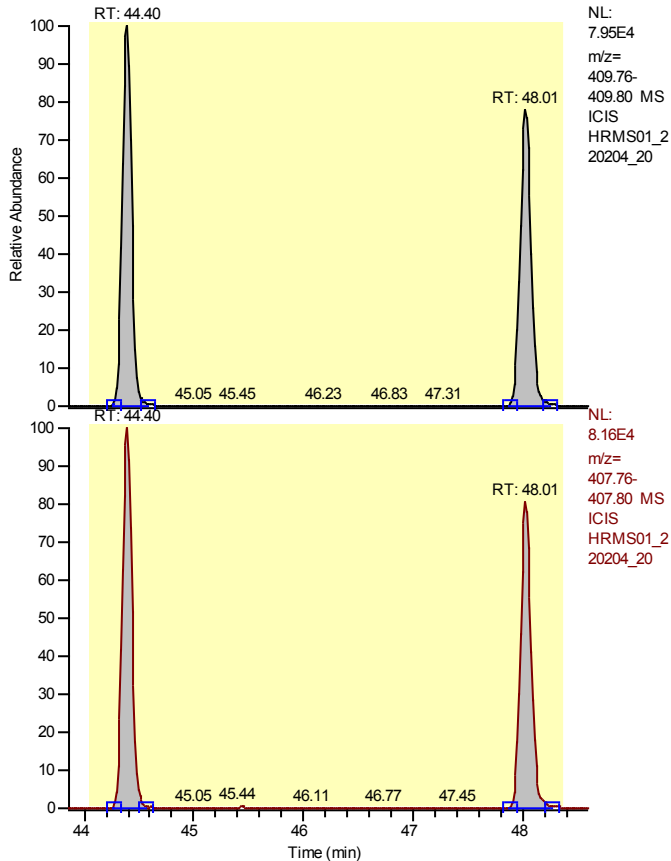
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

RT: 43.85 - 48.58 SM: 7G

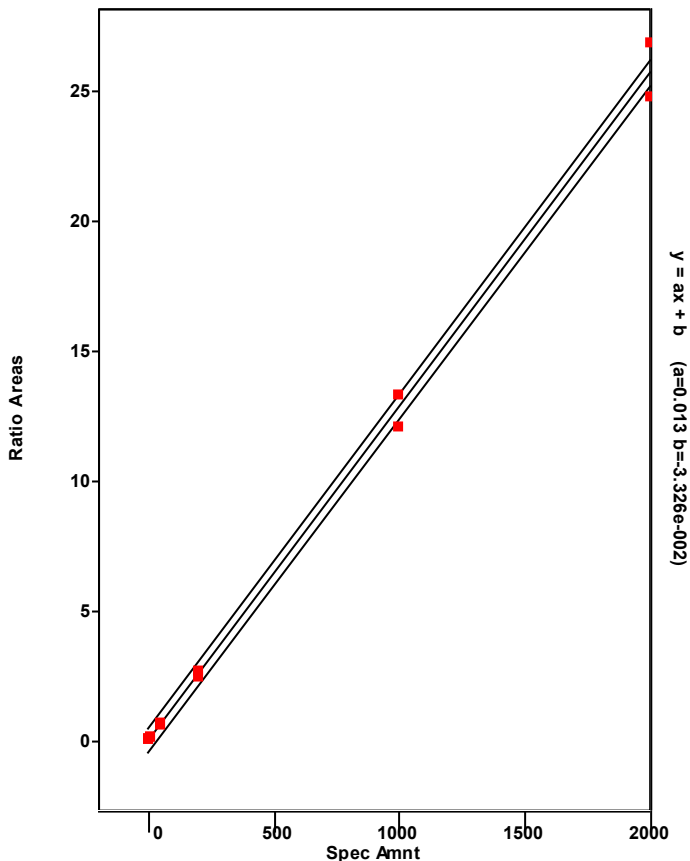


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	915469
RM1 Area	955276
RM1 Ratio (A)	1.0435
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	20.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

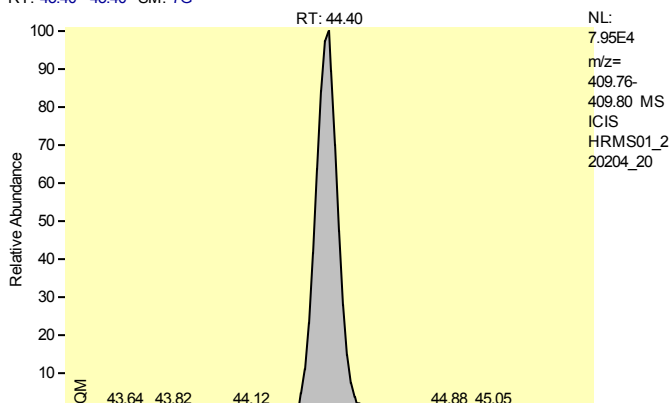
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



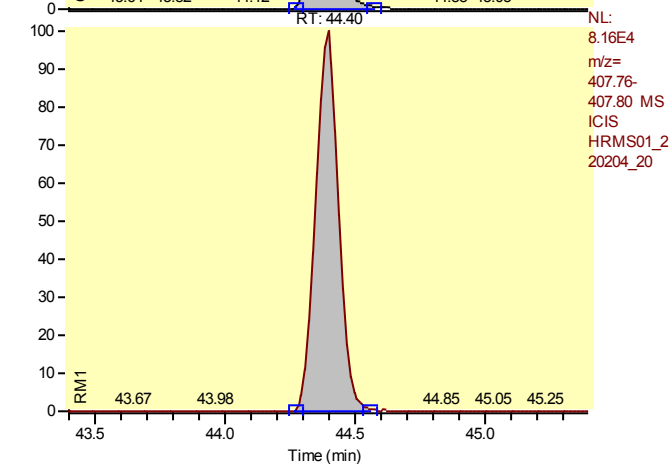
Chromatogram

Entry Parameters

RT: 43.40 - 45.40 SM: 7G



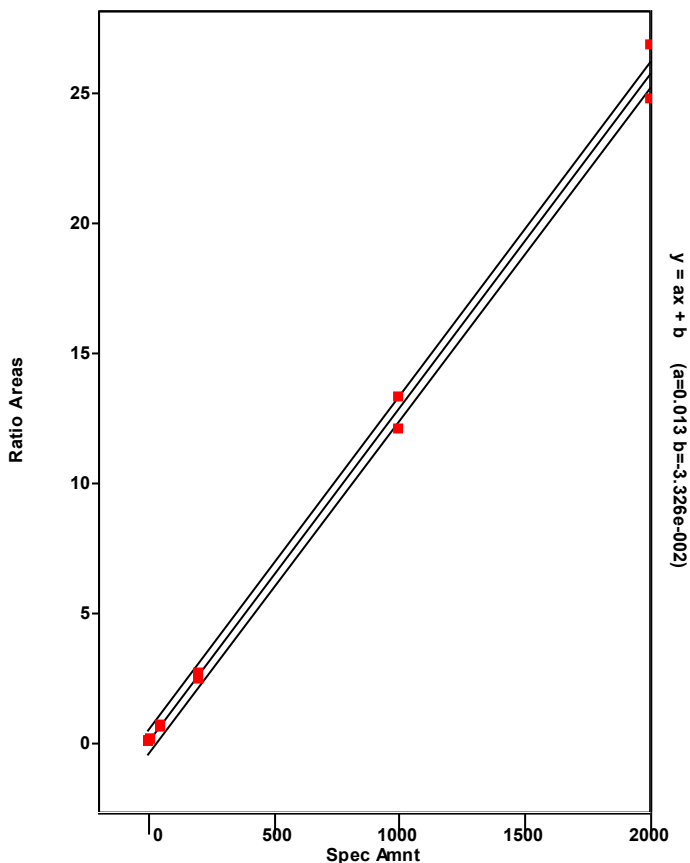
Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	476051
RM1 Area	499196
RM1 Ratio (A)	1.0486
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

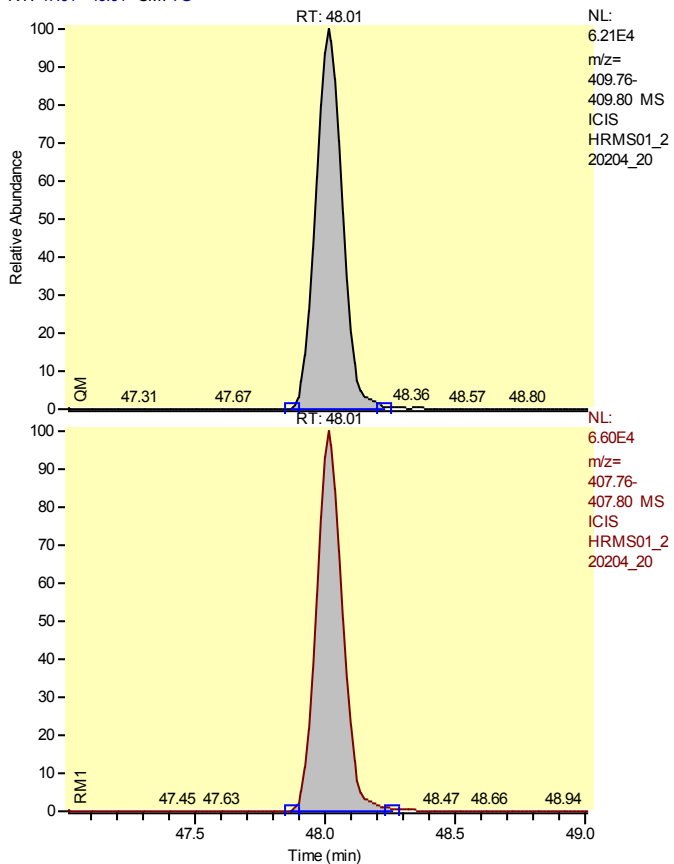
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 47.01 - 49.01 SM: 7G

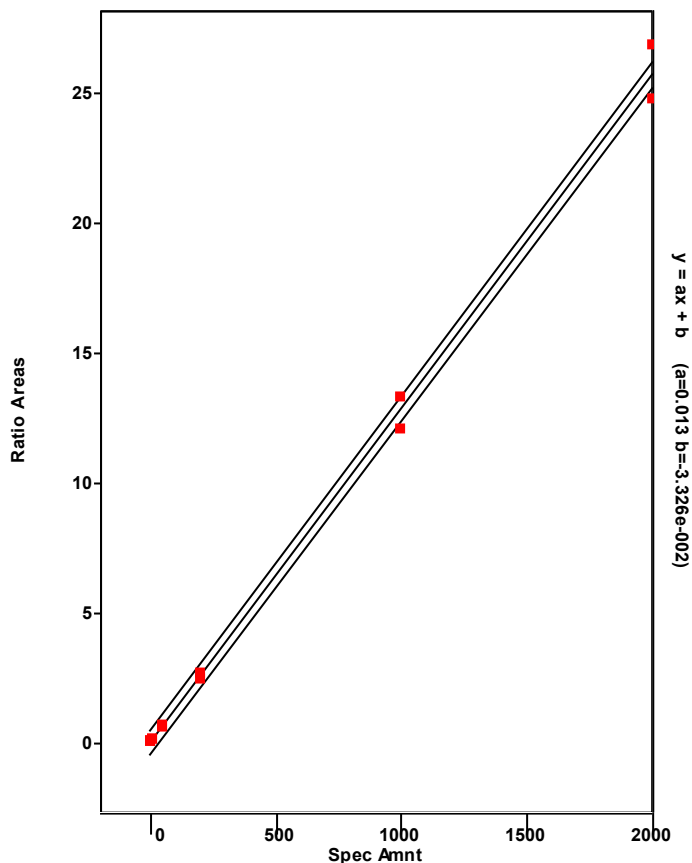


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	439419
RM1 Area	456080
RM1 Ratio (A)	1.0379
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

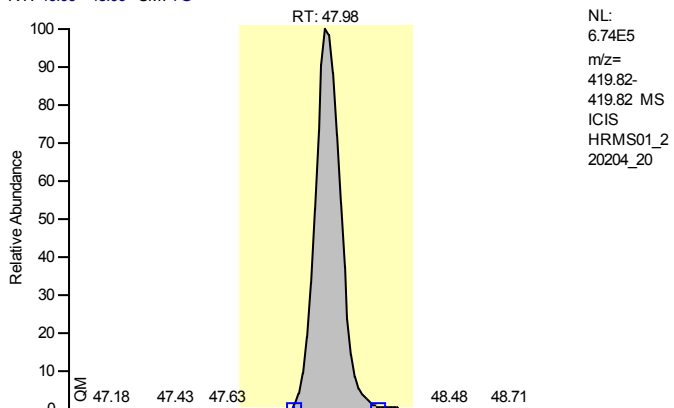
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



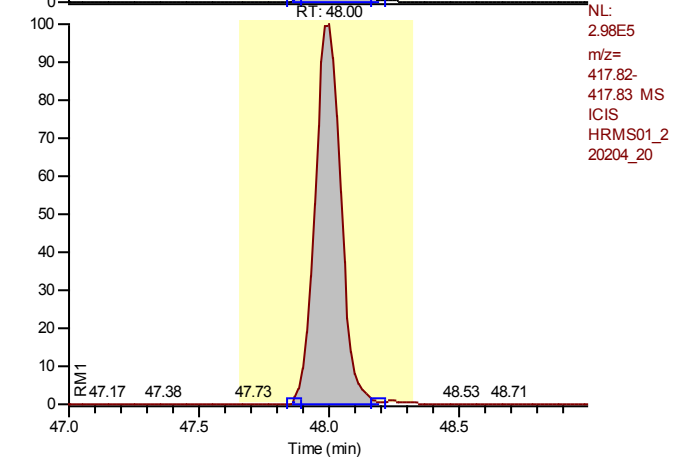
Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G

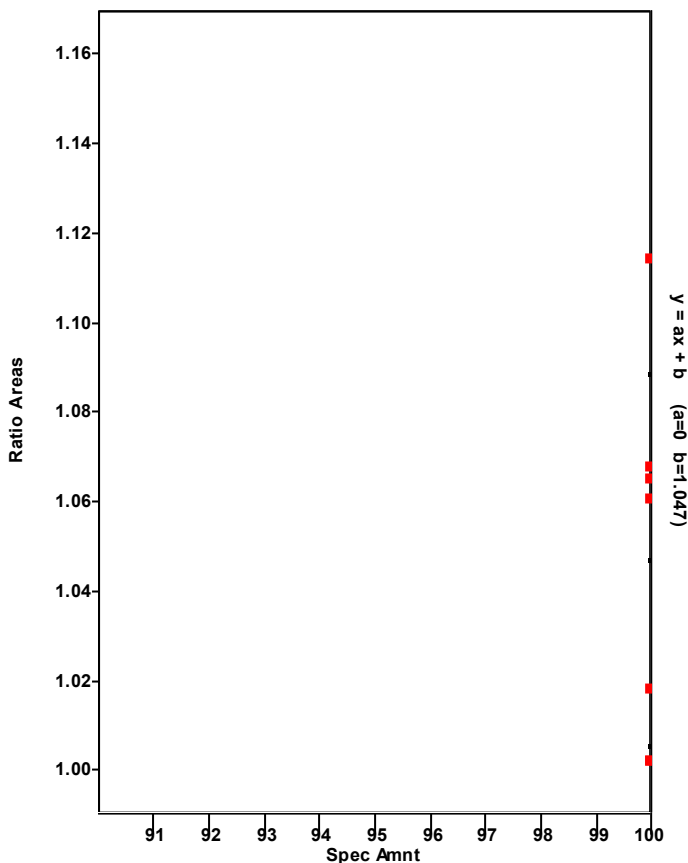


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	4628038
RM1 Area	2066926
RM1 Ratio (A)	0.4466
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

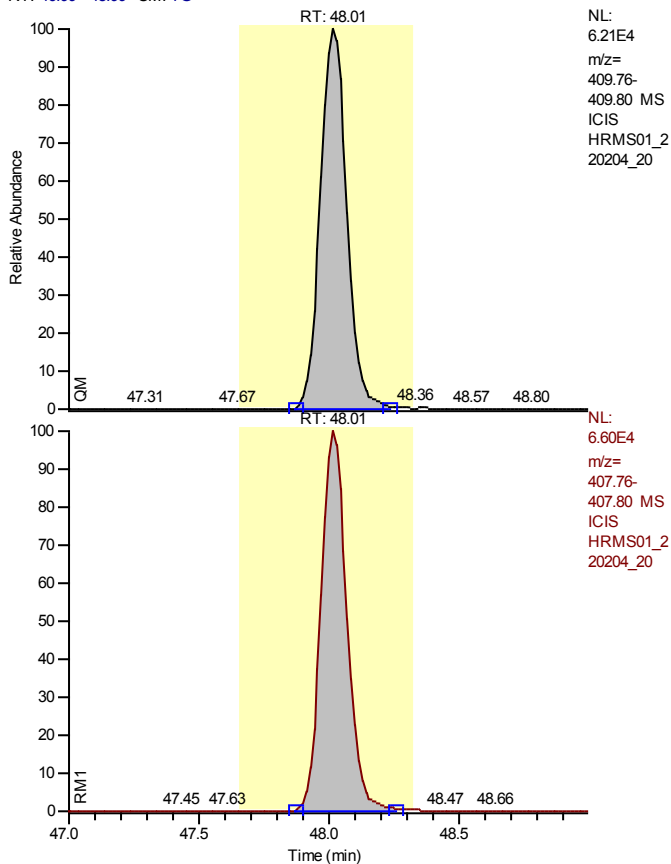
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G



NL:
 6.21E4
 m/z=
 409.76-
 409.80 MS
 ICIS
 HRMS01_2
 20204_20

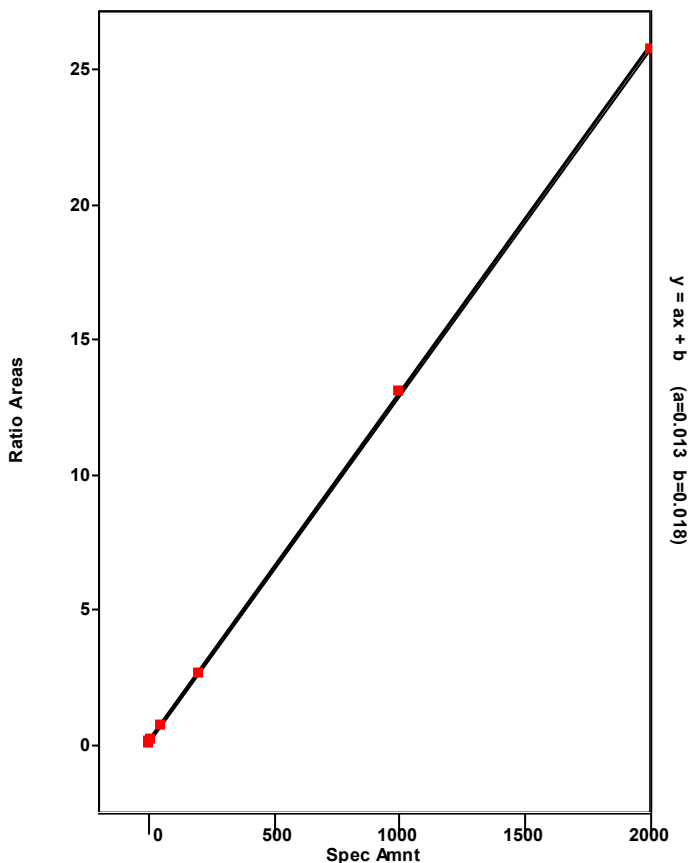
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	439419
RM1 Area	456080
RM1 Ratio (A)	1.0379
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	

NL:
 6.60E4
 m/z=
 407.76-
 407.80 MS
 ICIS
 HRMS01_2
 20204_20

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

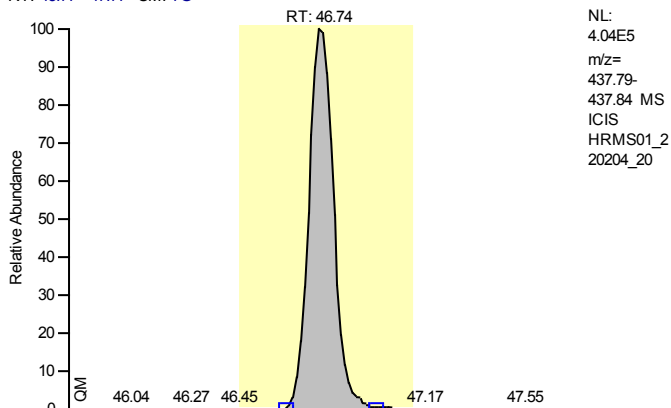
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



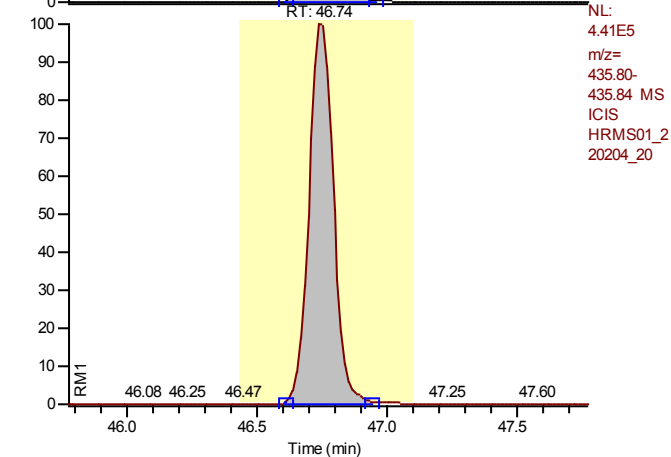
Chromatogram

Entry Parameters

RT: 45.77 - 47.77 SM: 7G

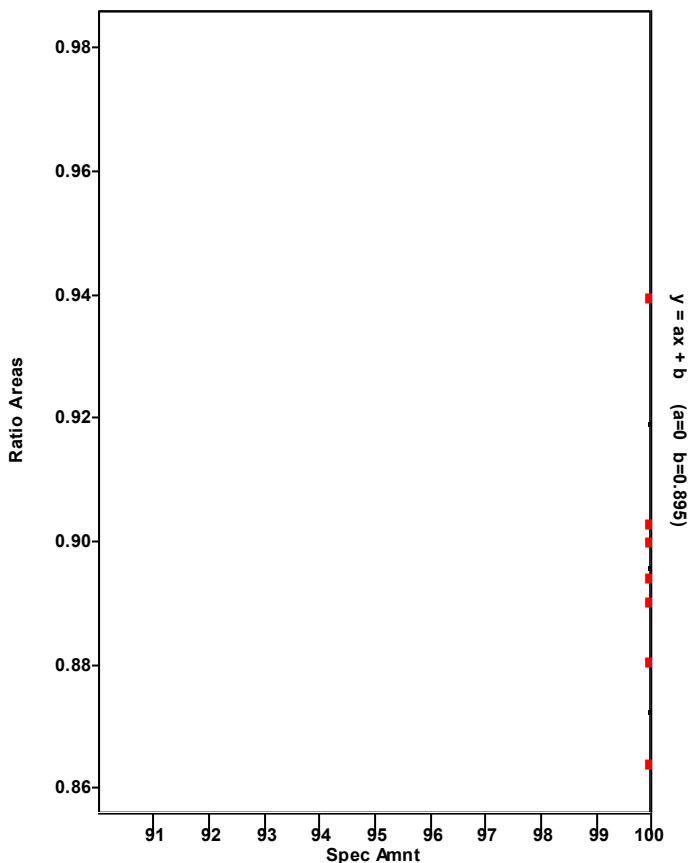


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2687031
RM1 Area	2895759
RM1 Ratio (A)	1.0777
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

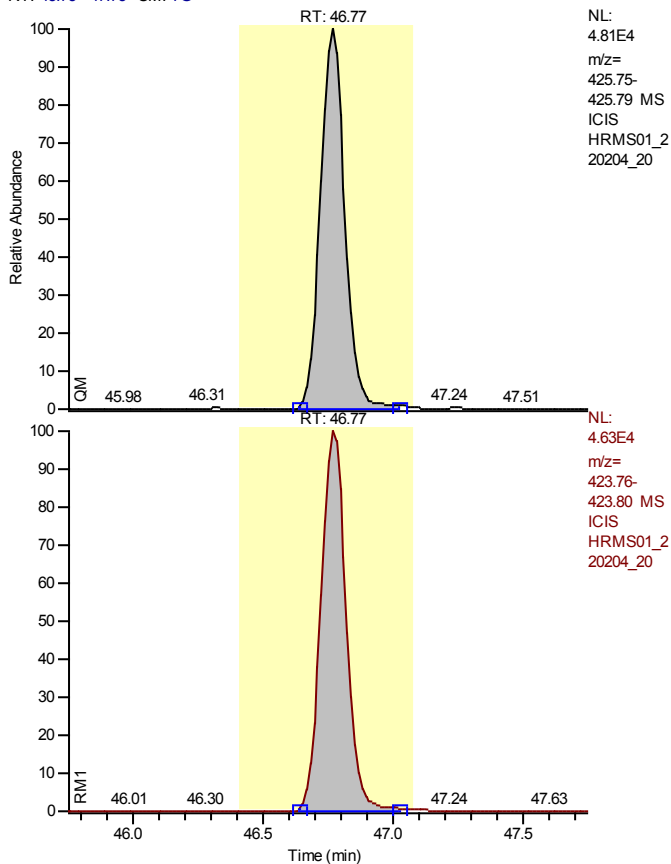
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.75 - 47.75 SM: 7G



NL:
 4.81E4
 m/z=
 425.75-
 425.79 MS
 ICIS
 HRMS01_2
 20204_20

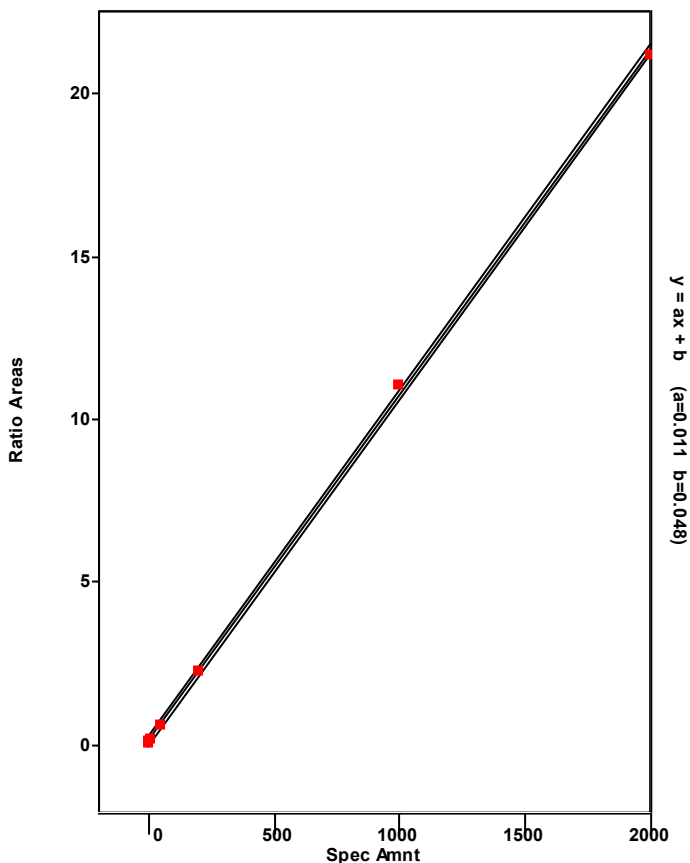
NL:
 4.63E4
 m/z=
 423.76-
 423.80 MS
 ICIS
 HRMS01_2
 20204_20

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	311680
RM1 Area	312143
RM1 Ratio (A)	1.0015
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

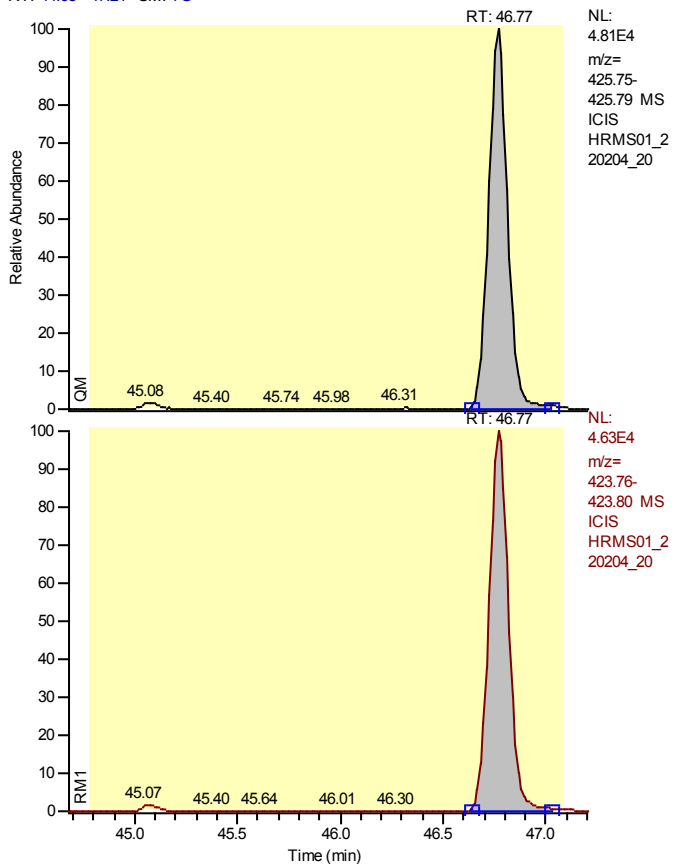
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.68 - 47.21 SM: 7G

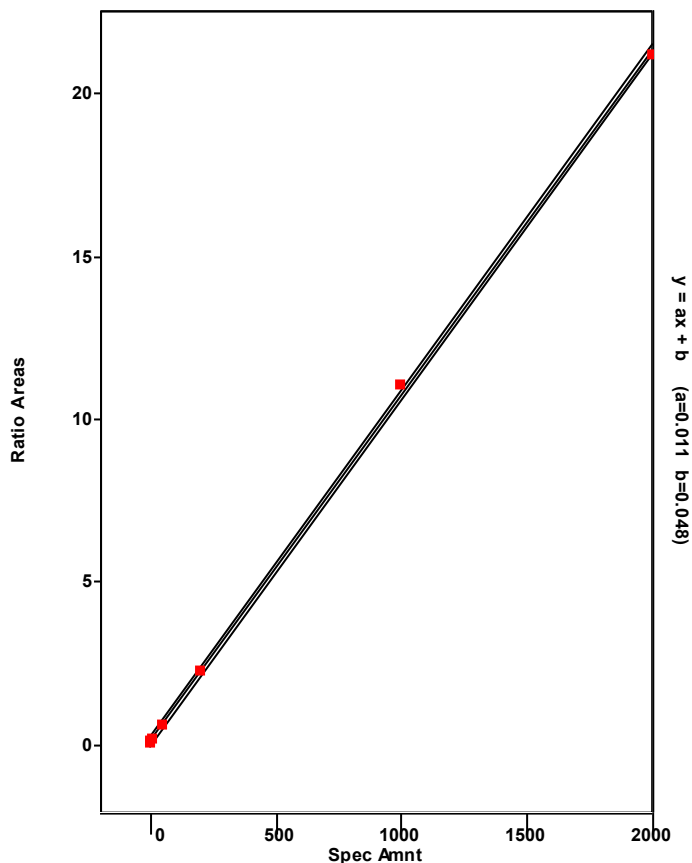


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	311680
RM1 Area	312143
RM1 Ratio (A)	1.0015
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

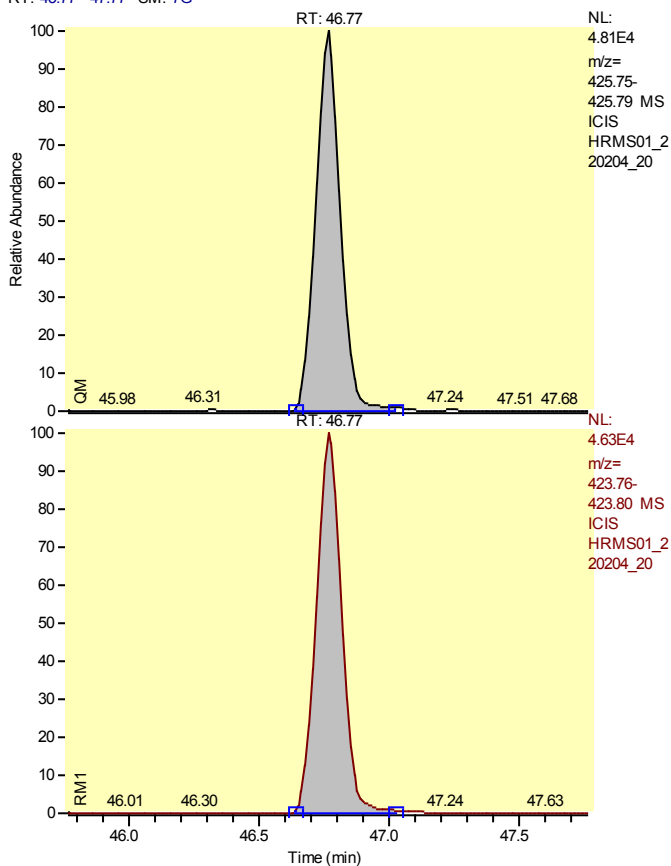
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.77 - 47.77 SM: 7G

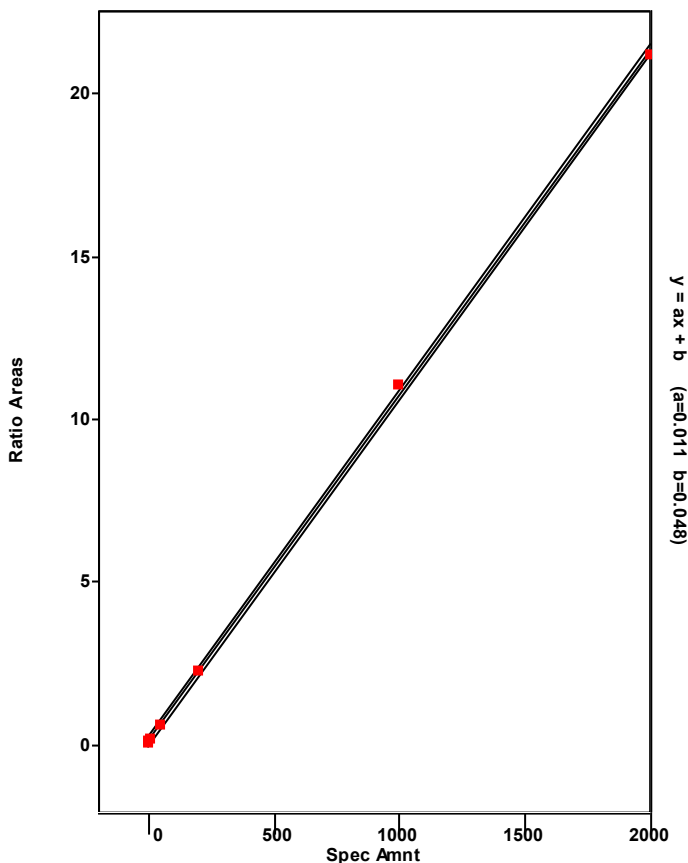


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	311680
RM1 Area	312143
RM1 Ratio (A)	1.0015
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

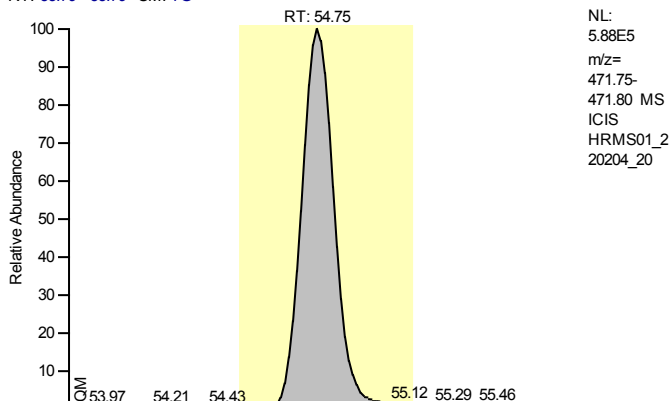
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



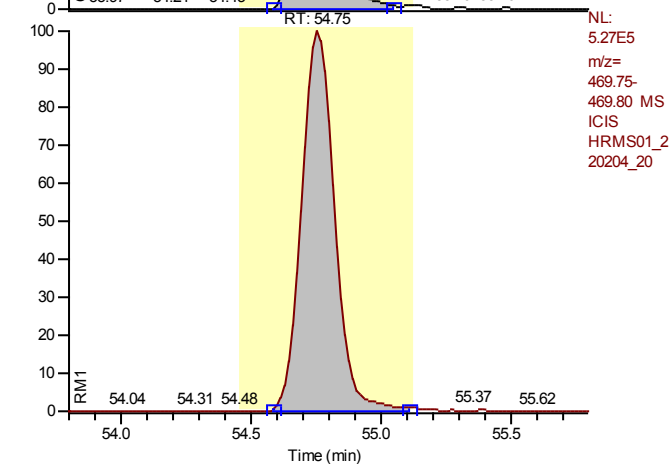
Chromatogram

Entry Parameters

RT: 53.79 - 55.79 SM: 7G



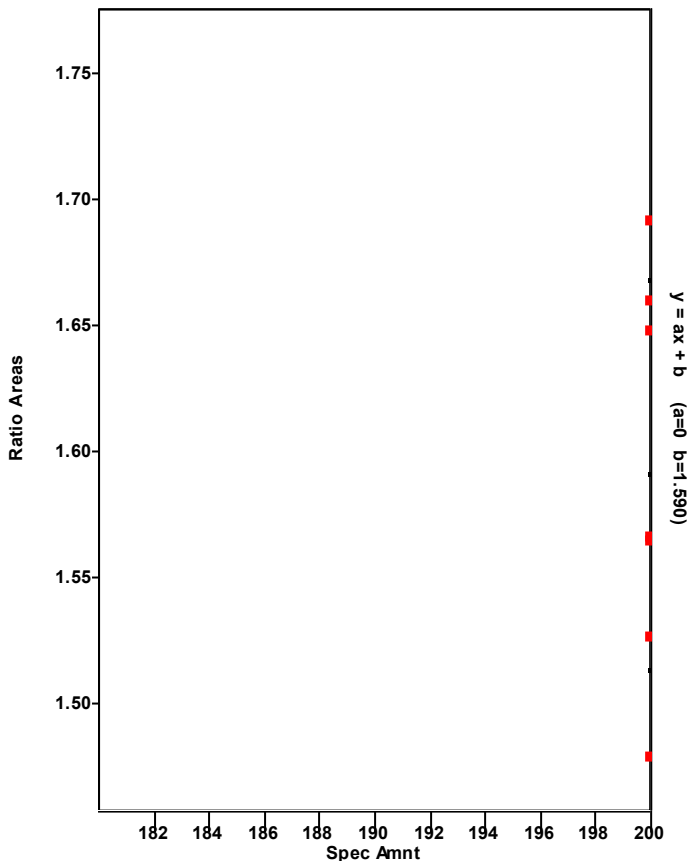
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	5141557
RM1 Area	4665951
RM1 Ratio (A)	0.9075
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

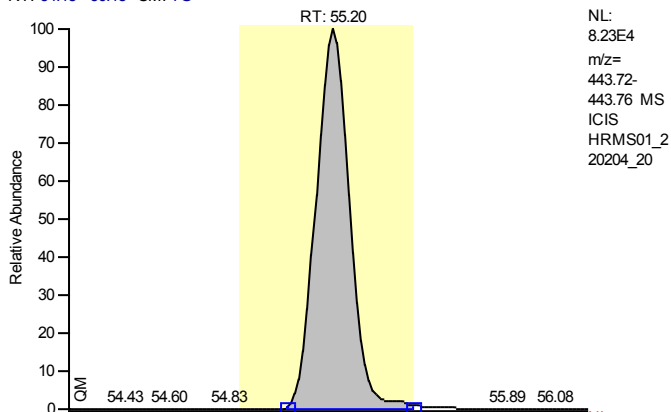
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



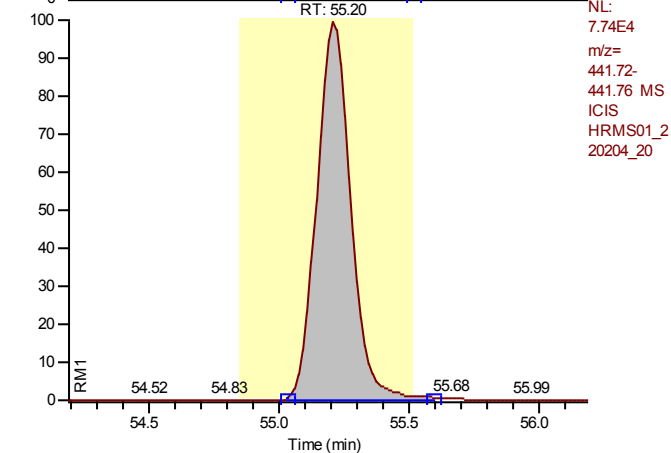
Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



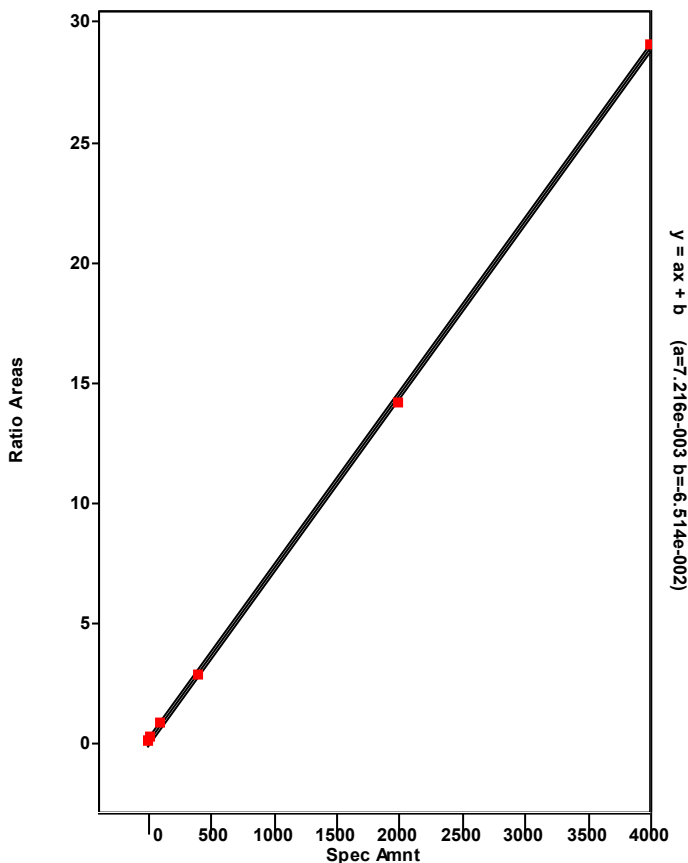
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	721479
RM1 Area	689312
RM1 Ratio (A)	0.9554
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	20.00
Calculated Amount (A)	20.00
Percent Recovery (A)	100
TEQ (A)	0.0060
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

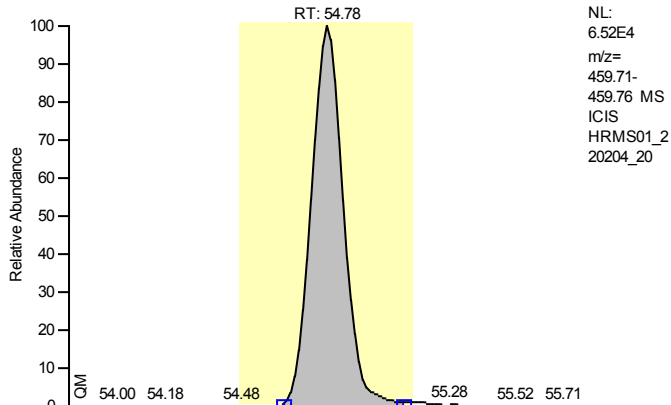
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



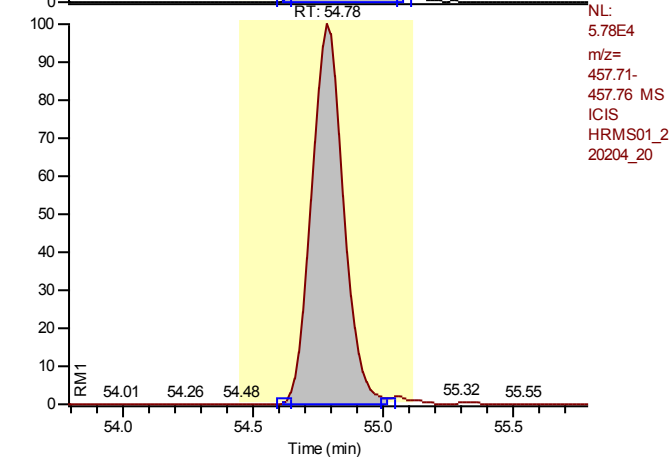
Chromatogram

Entry Parameters

RT: 53.78 - 55.78 SM: 7G



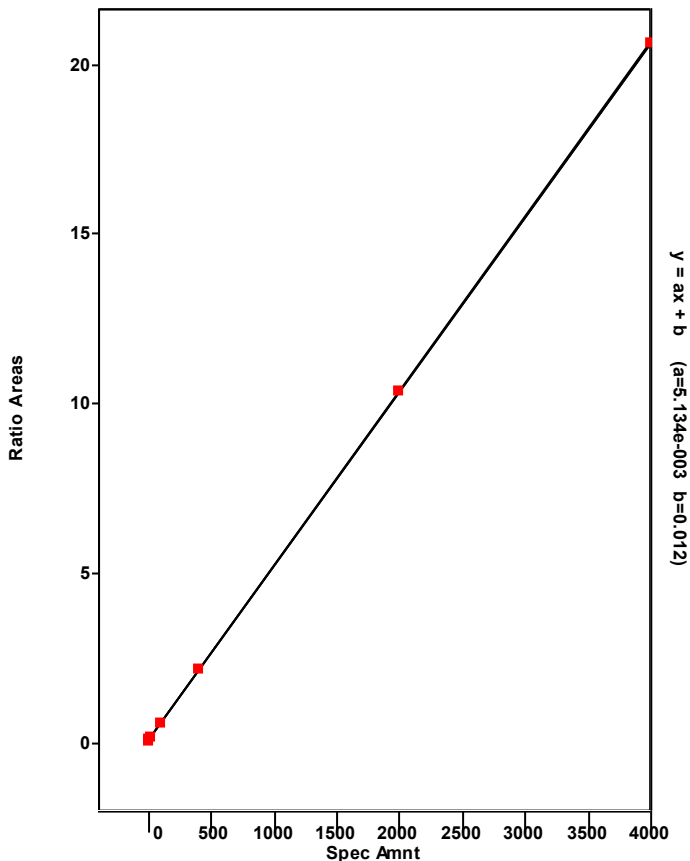
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	562175
RM1 Area	496133
RM1 Ratio (A)	0.8825
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	20.00
Calculated Amount (A)	20.00
Percent Recovery (A)	100
TEQ (A)	0.0060
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

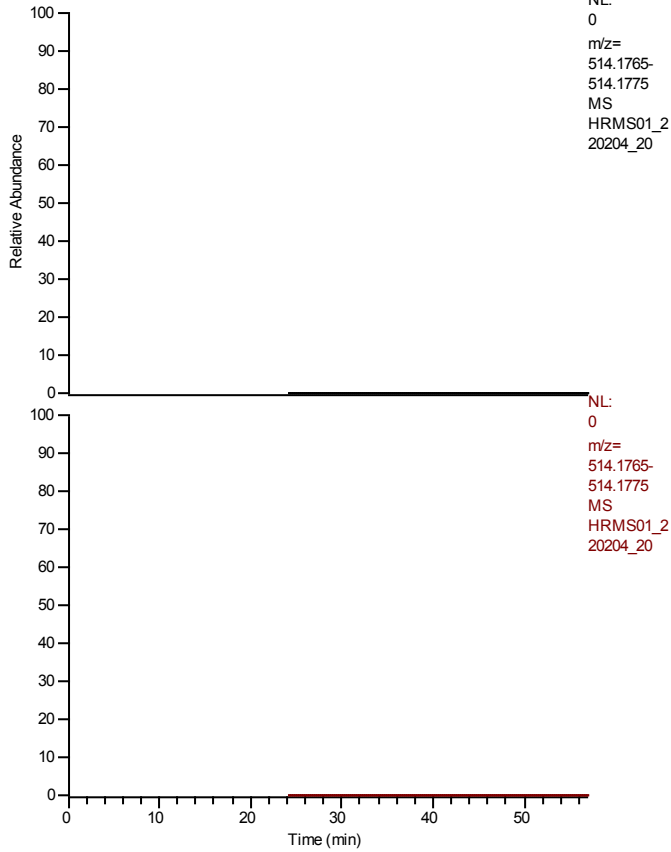
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

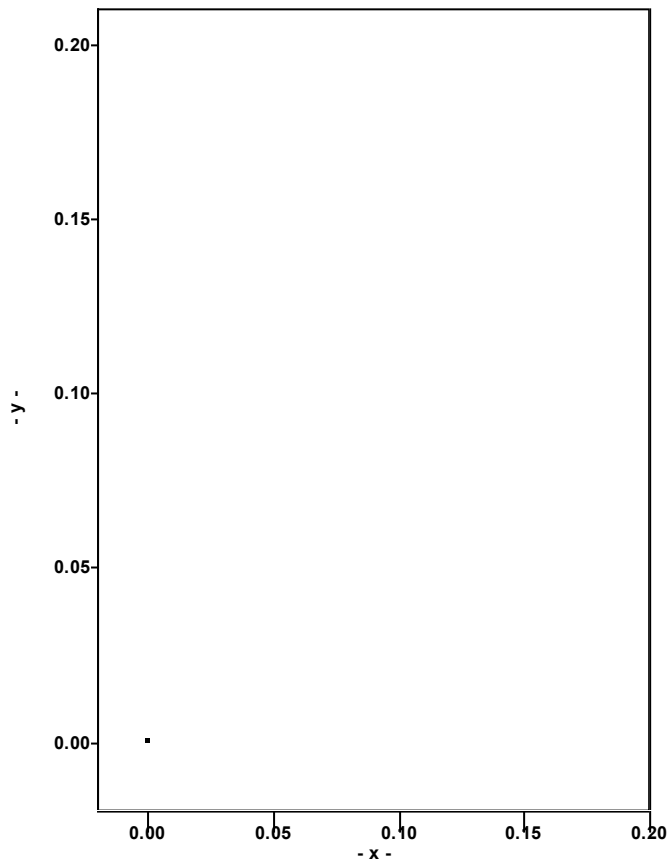
RT: 0.00 - 57.00 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	5969372
RM1 Area	6947893
RM1 Ratio (A)	1.1639
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	174.00
Percent Recovery (A)	---
TEQ (A)	22.8120
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 05:17
Number of Entries	59
Comment	HRMS200402C
Vial	7
Sample Name	IA1613STD-10
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_22_seq
Data	hrms01_220204_22
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

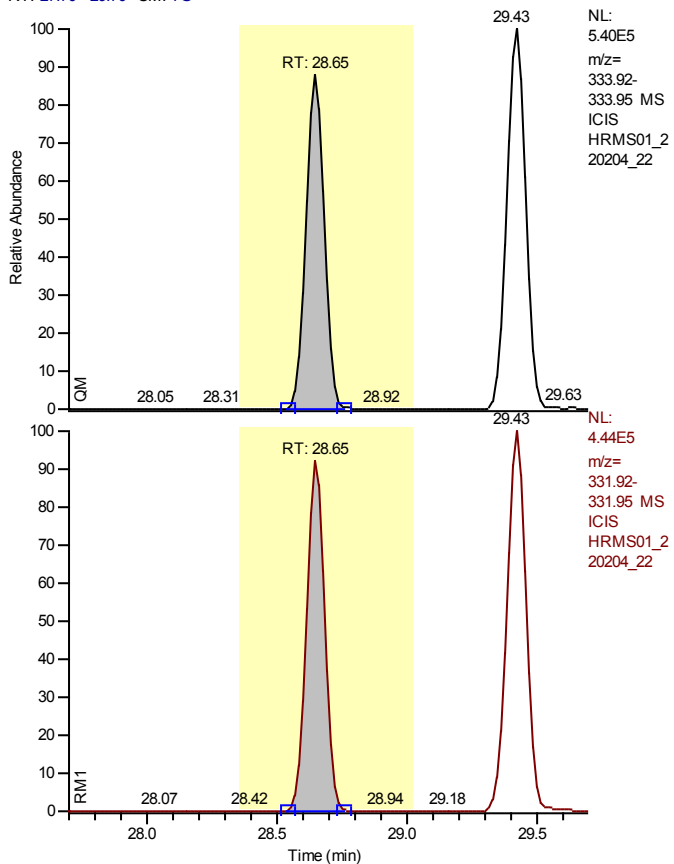
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2319316	1974336	0.8513	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		4030972	3194285	0.7924	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	438055	318576	0.7273	0.6500 - 0.8900	10.00	10.00	100	1.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	438055	318576	0.7273	0.6500 - 0.8900	10.00	10.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	438055	318576	0.7273	0.6500 - 0.8900	10.00	10.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		2710554	2260603	0.8340	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	313568	253077	0.8071	0.6500 - 0.8900	10.00	10.00	100	10.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	313568	253077	0.8071	0.6500 - 0.8900	10.00	10.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	313568	253077	0.8071	0.6500 - 0.8900	10.00	10.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2208451	3537063	1.6016	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	1129968	1760424	1.5579	1.3200 - 1.7800	50.00	50.00	100	1.5000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	2333876	3676311	1.5752	1.3200 - 1.7800	50.00	100.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	1203908	1915886	1.5914	1.3200 - 1.7800	50.00	50.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	1129968	1760424	1.5579	1.3200 - 1.7800	50.00	50.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2240532	3367978	1.5032	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	1203908	1915886	1.5914	1.3200 - 1.7800	50.00	50.00	100	15.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1506181	2392006	1.5881	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	759642	1169643	1.5397	1.3200 - 1.7800	50.00	50.00	100	50.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	759642	1169643	1.5397	1.3200 - 1.7800	50.00	50.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	759642	1169643	1.5397	1.3200 - 1.7800	50.00	50.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		504535	504535	1.0000	0.8500 - 1.1500	10.00	10.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2446774	3078033	1.2580	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		4190766	2295311	0.5477	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	1821126	2239436	1.2297	1.0500 - 1.4300	50.00	50.00	100	5.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	7249696	9053576	1.2488	1.0500 - 1.4300	50.00	200.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	1903668	2377703	1.2490	1.0500 - 1.4300	50.00	50.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	1821126	2239436	1.2297	1.0500 - 1.4300	50.00	50.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	1839263	2342687	1.2737	1.0500 - 1.4300	50.00	50.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	1685638	2093750	1.2421	1.0500 - 1.4300	50.00	50.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		4510512	2427725	0.5382	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	1839263	2342687	1.2737	1.0500 - 1.4300	50.00	50.00	100	5.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		4377243	2457503	0.5614	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	1903668	2377703	1.2490	1.0500 - 1.4300	50.00	50.00	100	5.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		4239094	2297426	0.5420	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	1685638	2093750	1.2421	1.0500 - 1.4300	50.00	50.00	100	5.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2088727	2669646	1.2781	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	1165838	1485063	1.2738	1.0500 - 1.4300	50.00	50.00	100	5.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	3580287	4538277	1.2676	1.0500 - 1.4300	50.00	150.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	1234007	1562603	1.2663	1.0500 - 1.4300	50.00	50.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	1165838	1485063	1.2738	1.0500 - 1.4300	50.00	50.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	1180442	1490612	1.2628	1.0500 - 1.4300	50.00	50.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2088727	2669646	1.2781	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	1165838	1485063	1.2738	1.0500 - 1.4300	50.00	50.00	100	5.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	1234007	1562603	1.2663	1.0500 - 1.4300	50.00	50.00	100	5.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4460571	1948887	0.4369	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	2083798	2205521	1.0584	0.8800 - 1.2000	50.00	50.00	100	0.5000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	3895871	4116377	1.0566	0.8800 - 1.2000	50.00	100.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	2083798	2205521	1.0584	0.8800 - 1.2000	50.00	50.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	1812073	1910856	1.0545	0.8800 - 1.2000	50.00	50.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		3872407	1750127	0.4519	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	1812073	1910856	1.0545	0.8800 - 1.2000	50.00	50.00	100	0.5000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2298813	2562791	1.1148	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1297354	1374854	1.0597	0.8800 - 1.2000	50.00	50.00	100	0.5000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	1297354	1374854	1.0597	0.8800 - 1.2000	50.00	50.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1297354	1374854	1.0597	0.8800 - 1.2000	50.00	50.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4439135	3988524	0.8985	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	3117111	2919509	0.9366	0.7600 - 1.0200	100.00	100.00	100	0.0300
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	2315284	2123197	0.9170	0.7600 - 1.0200	100.00	100.00	100	0.0300
59	overall TEQ	overall TEQ test		25286139	29537846	1.1681	0.0000 - 0.0000	0.00	870.00	---	114.0600

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

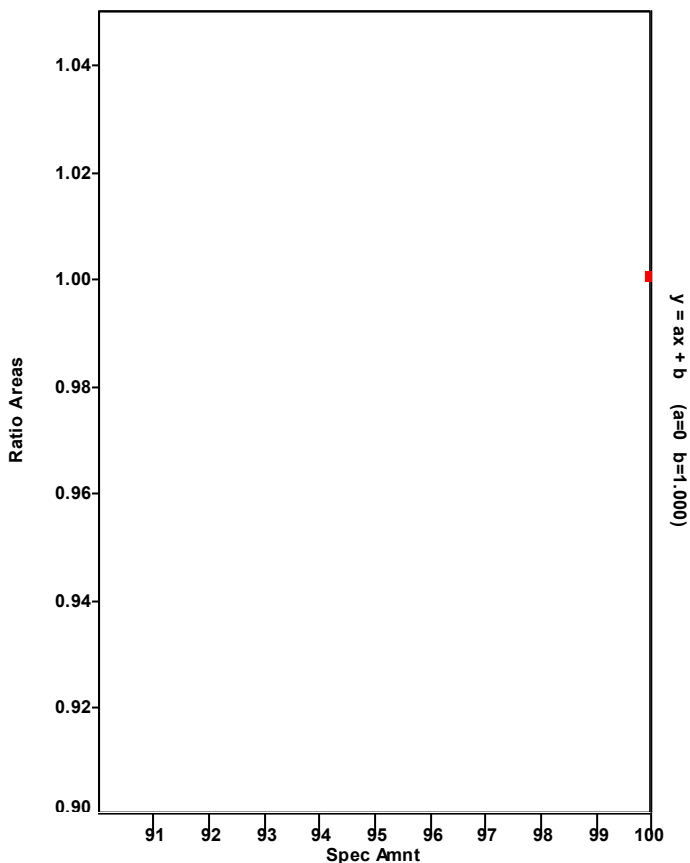


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2319316
RM1 Area	1974336
RM1 Ratio (A)	0.8513
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

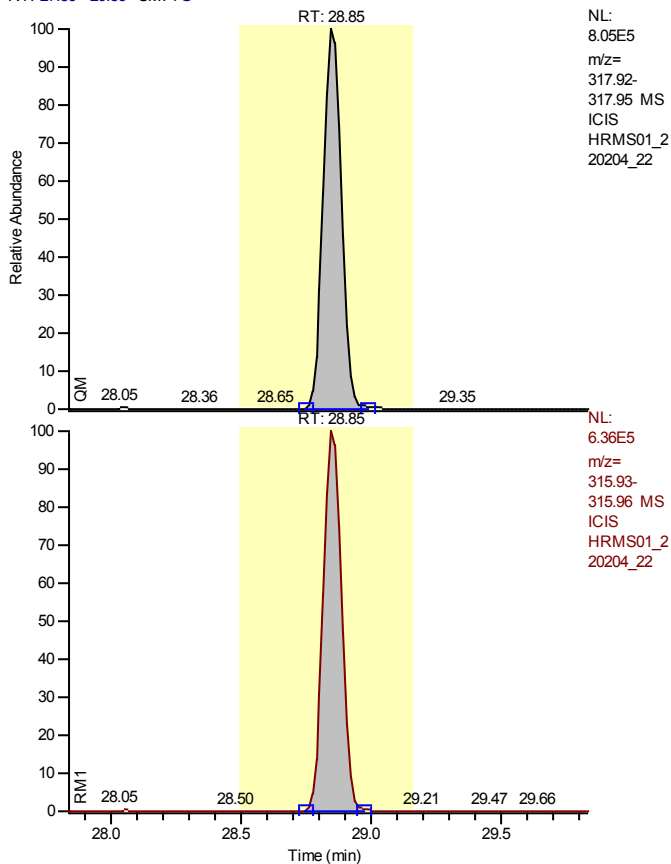
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G

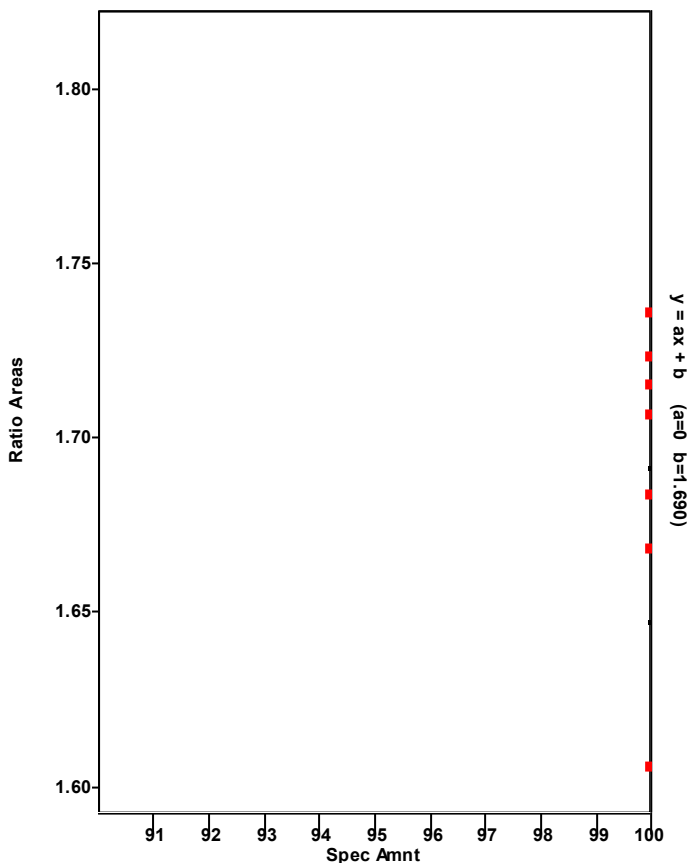


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	4030972
RM1 Area	3194285
RM1 Ratio (A)	0.7924
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

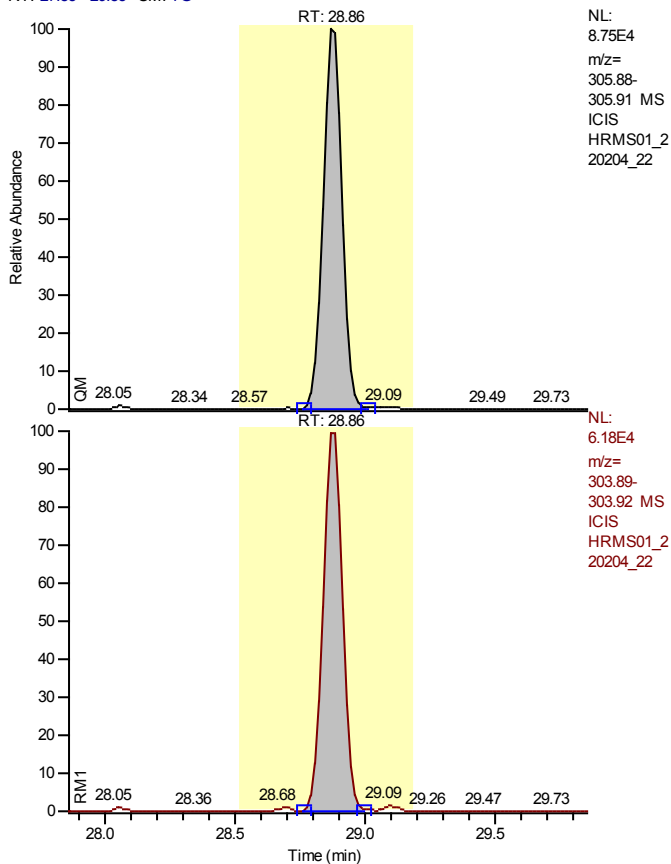
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.85 - 29.85 SM: 7G

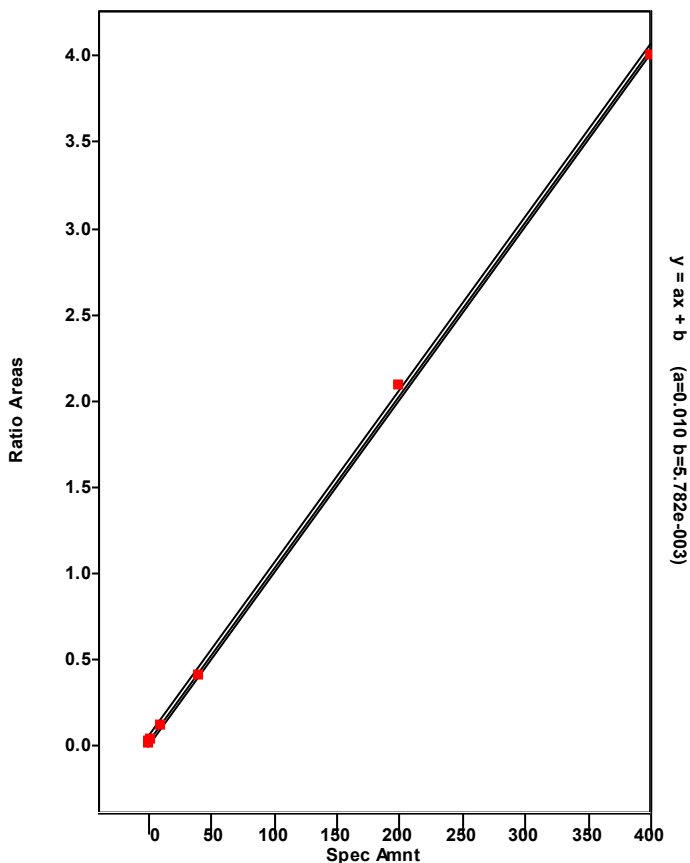


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	438055
RM1 Area	318576
RM1 Ratio (A)	0.7273
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

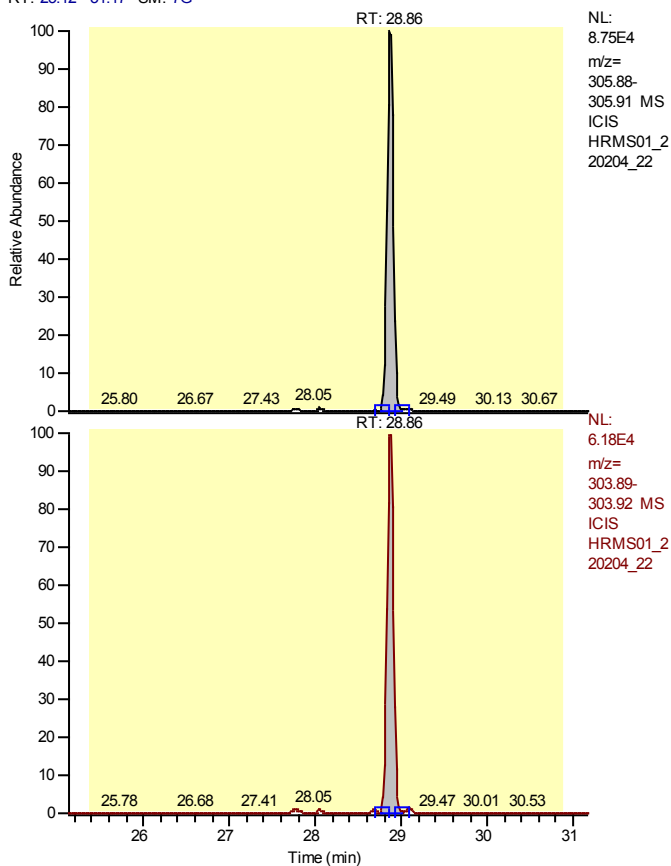
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.12-31.17 SM: 7G

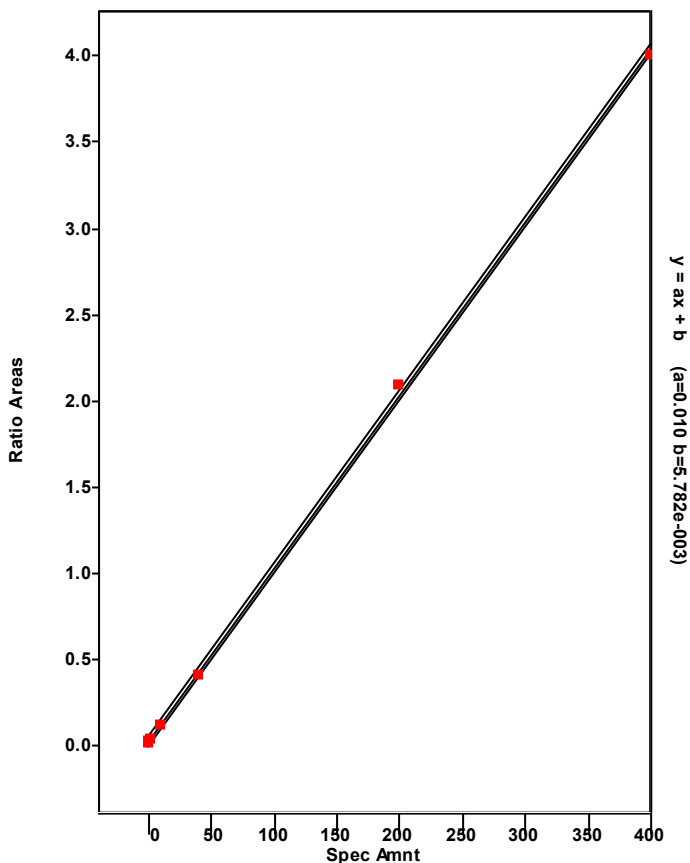


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	438055
RM1 Area	318576
RM1 Ratio (A)	0.7273
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

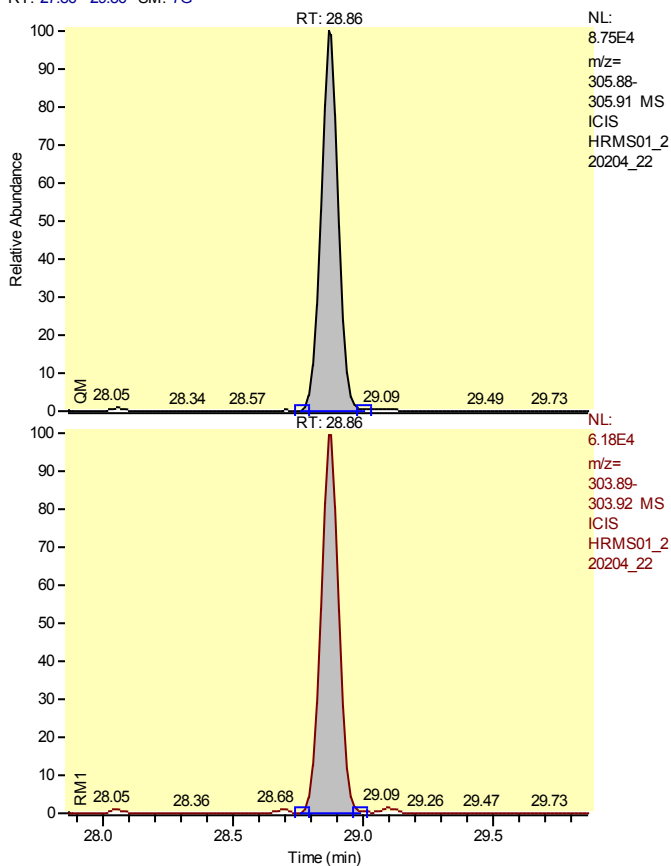
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.86 - 29.86 SM: 7G

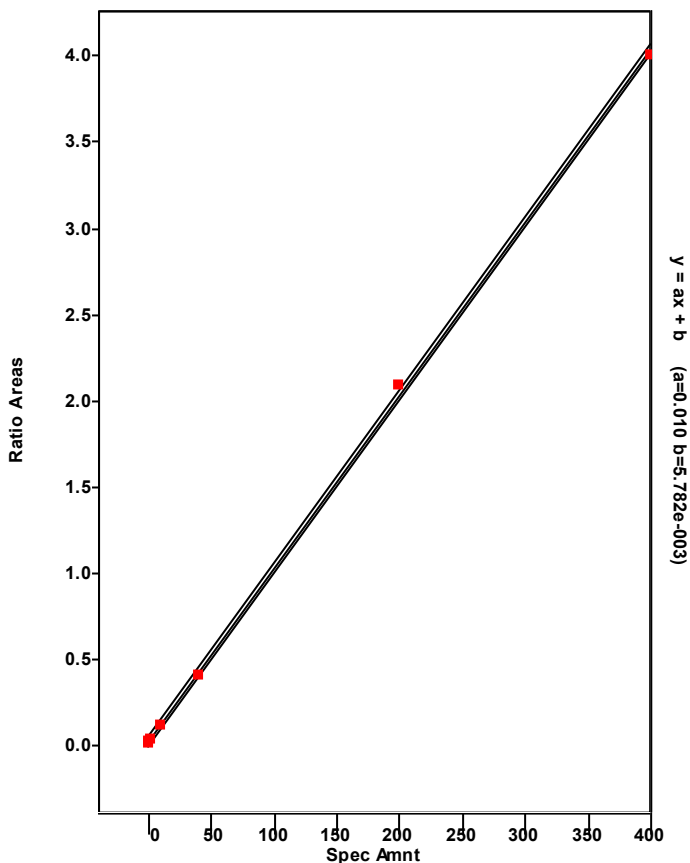


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	438055
RM1 Area	318576
RM1 Ratio (A)	0.7273
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

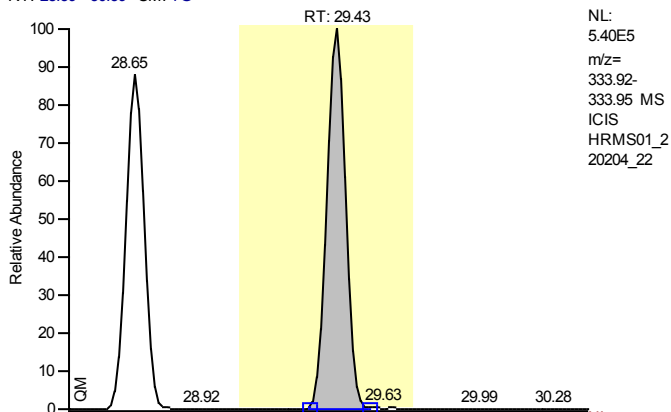
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

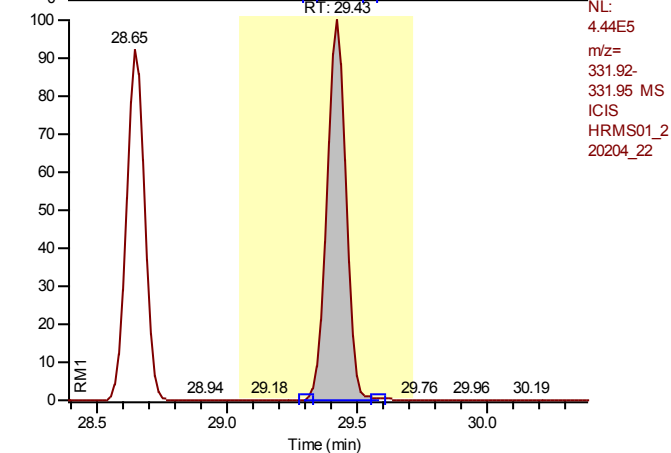
Entry Parameters

RT: 28.39 - 30.39 SM: 7G



NL:
 5.40E5
 m/z=
 333.92-
 333.95 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	2710554
RM1 Area	2260603
RM1 Ratio (A)	0.8340
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

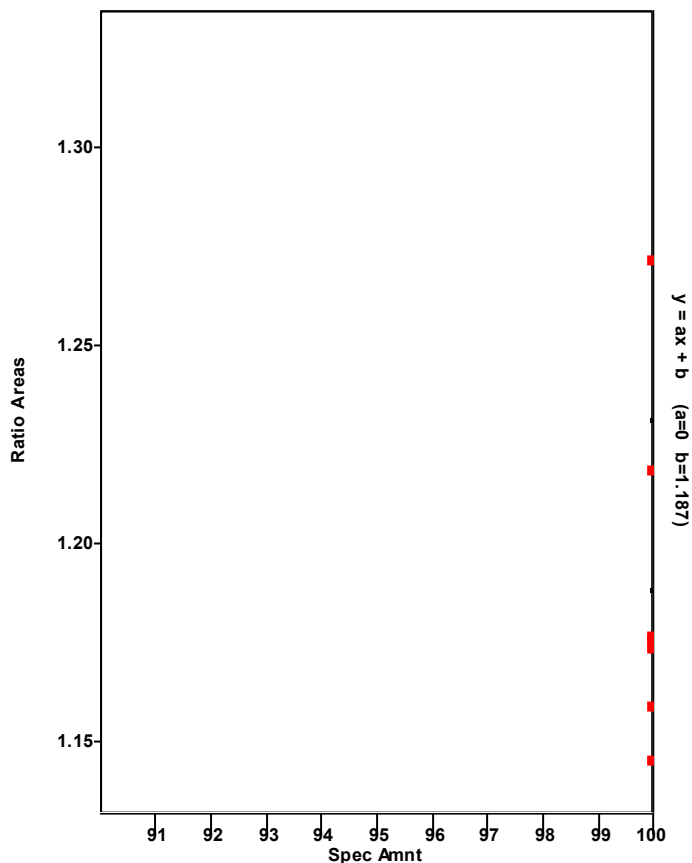


NL:
 4.44E5
 m/z=
 331.92-
 331.95 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

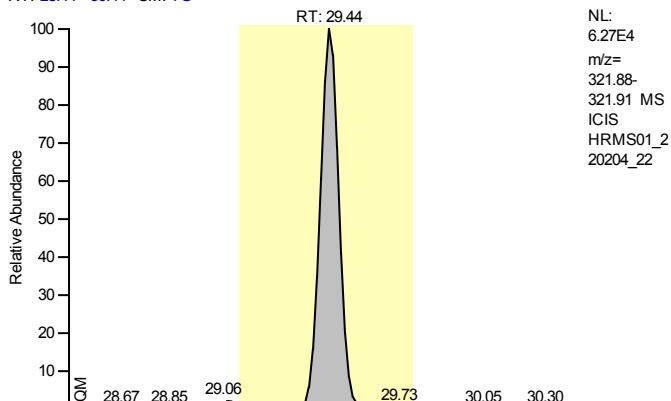
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



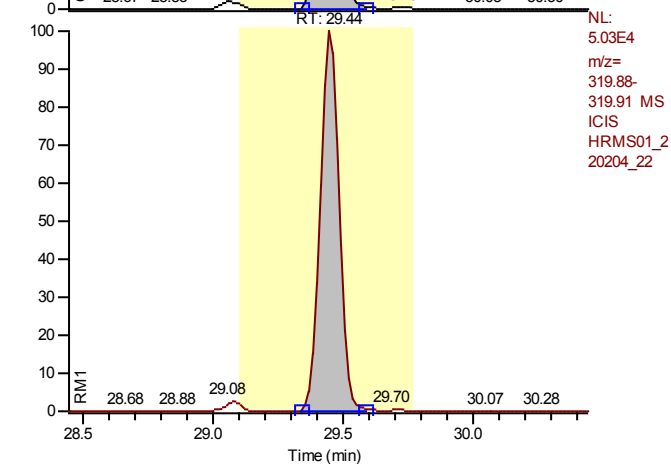
Chromatogram

Entry Parameters

RT: 28.44 - 30.44 SM: 7G



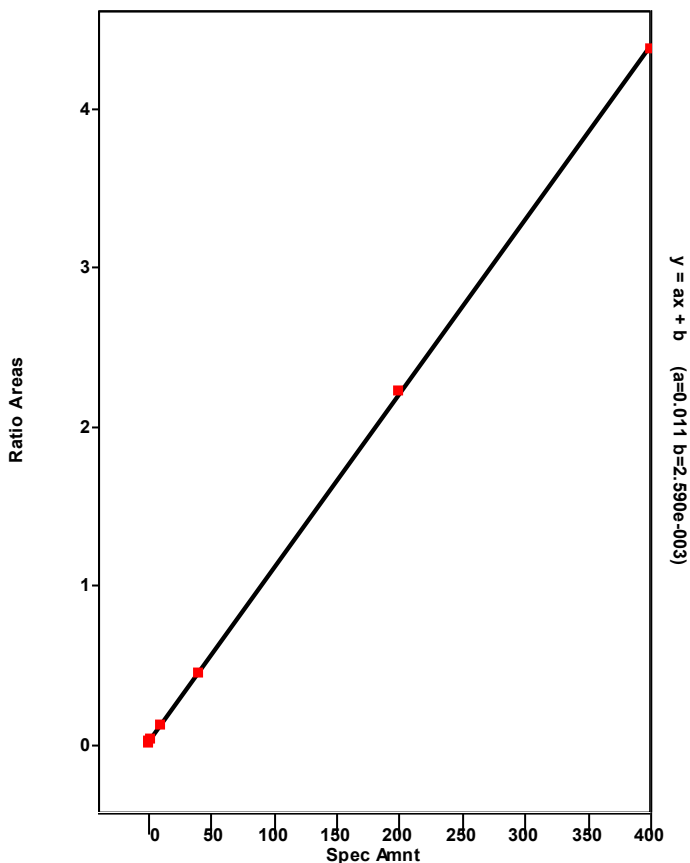
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	313568
RM1 Area	253077
RM1 Ratio (A)	0.8071
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

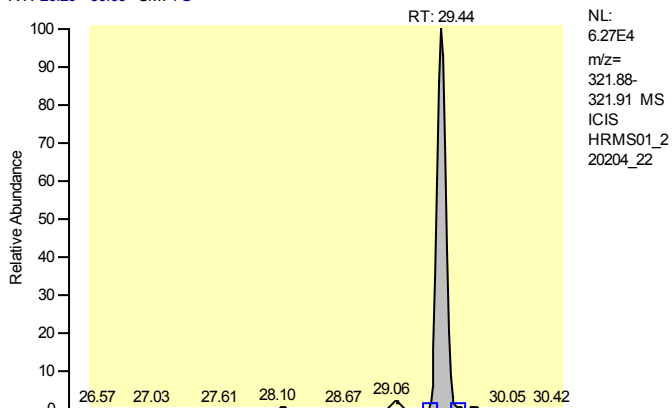
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



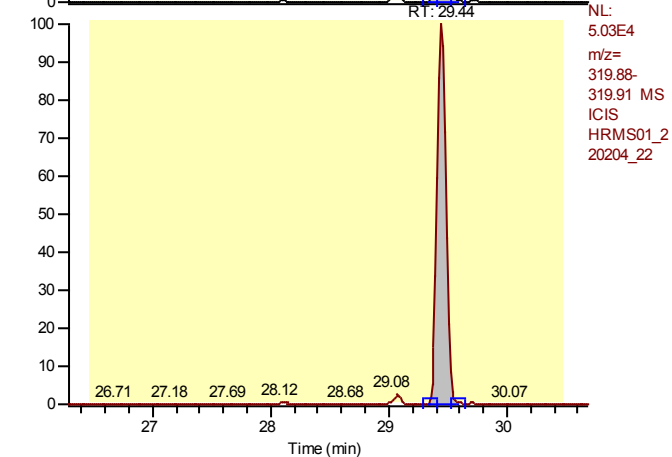
Chromatogram

Entry Parameters

RT: 26.29 - 30.69 SM: 7G



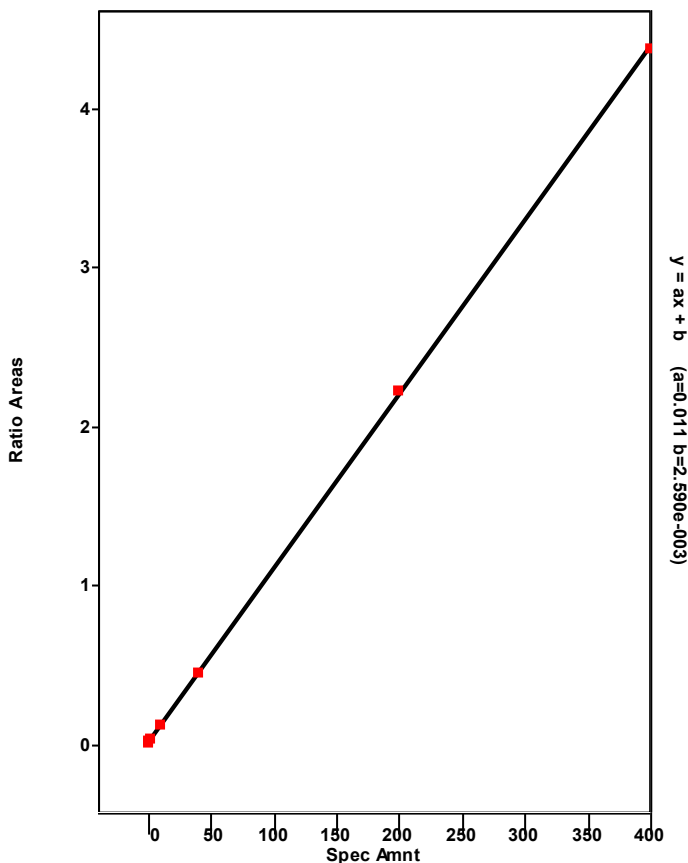
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	313568
RM1 Area	253077
RM1 Ratio (A)	0.8071
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

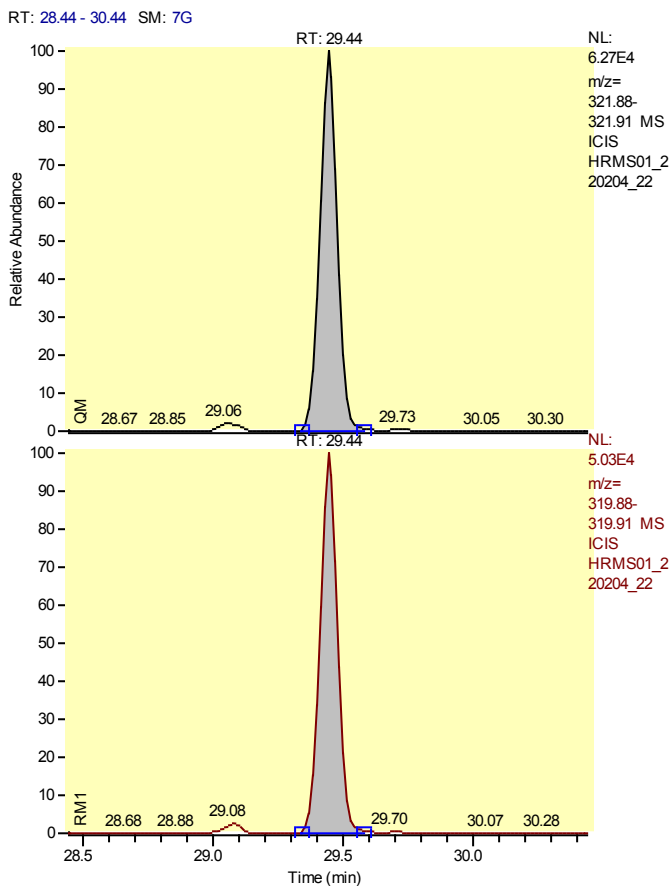
Calibration Points of Total Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

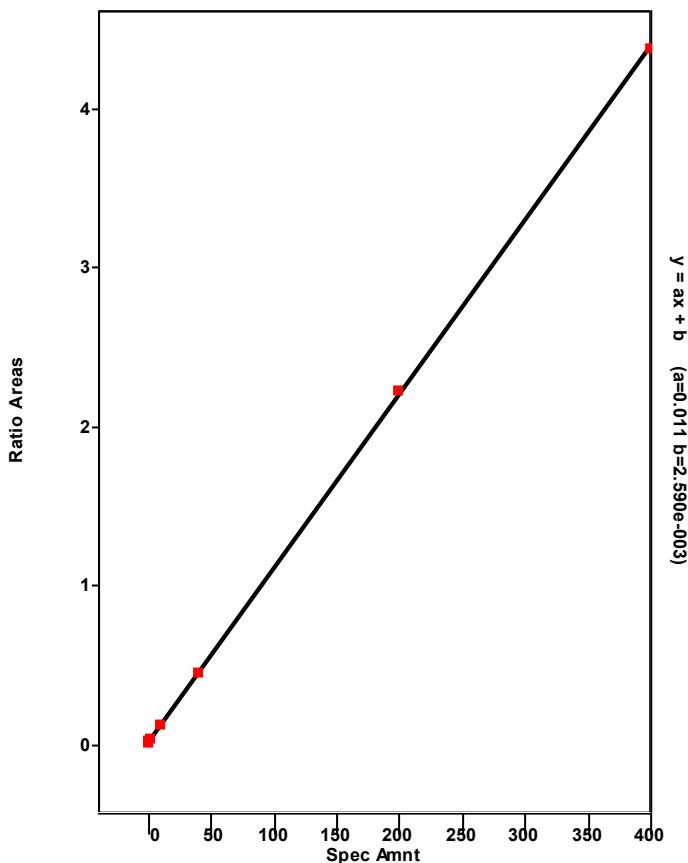


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	313568
RM1 Area	253077
RM1 Ratio (A)	0.8071
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

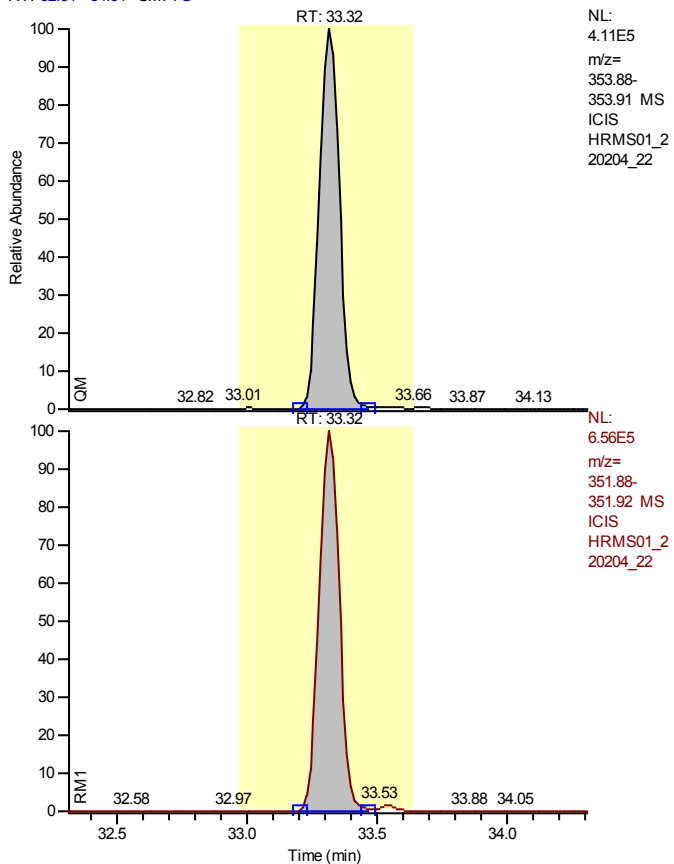
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G

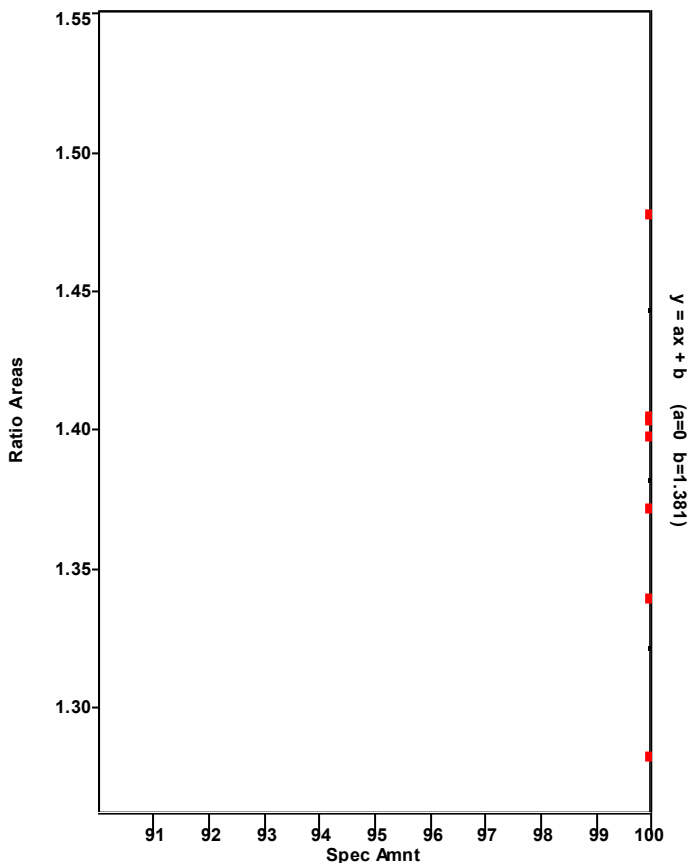


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2208451
RM1 Area	3537063
RM1 Ratio (A)	1.6016
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

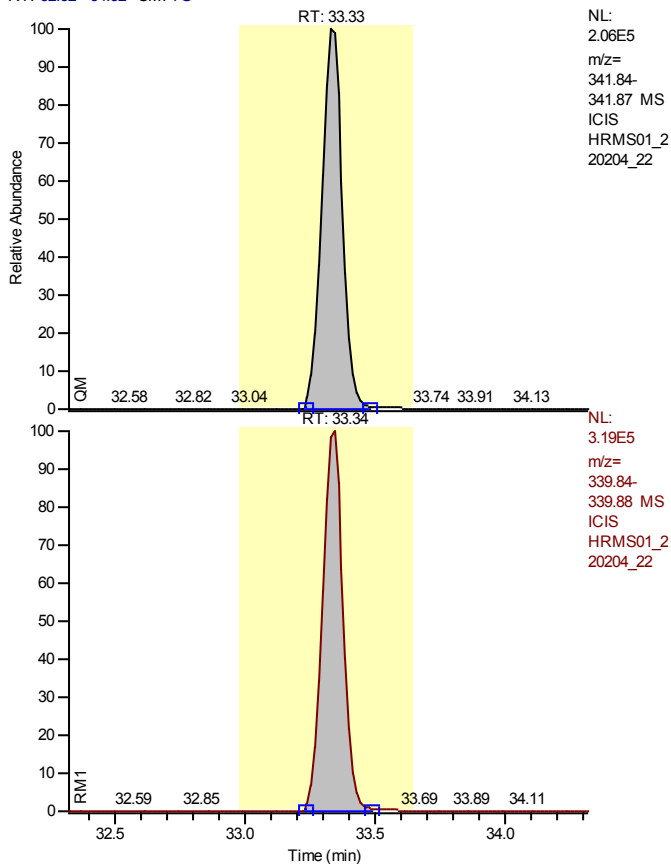
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.32- 34.32 SM: 7G



NL:
 2.06E5
 m/z=
 341.84-
 341.87 MS
 ICIS
 HRMS01_2
 20204_22

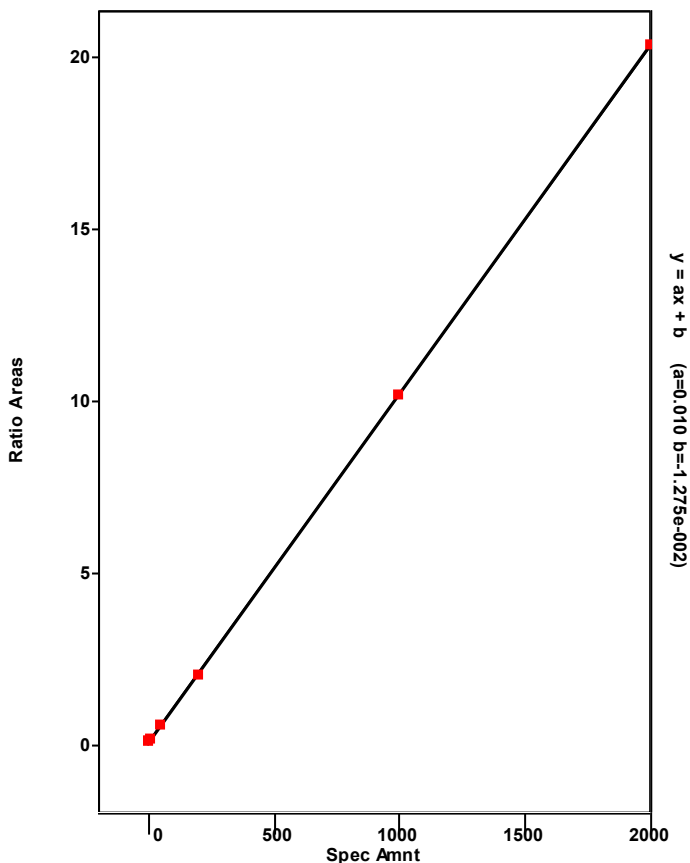
NL:
 3.19E5
 m/z=
 339.84-
 339.88 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	1129968
RM1 Area	1760424
RM1 Ratio (A)	1.5579
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	1.5000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

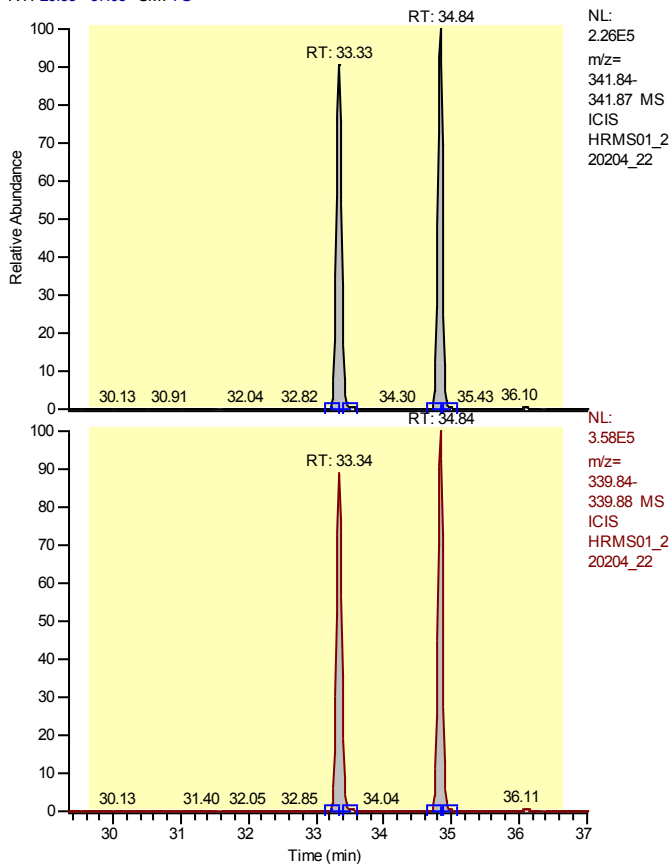
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.33 - 37.03 SM: 7G

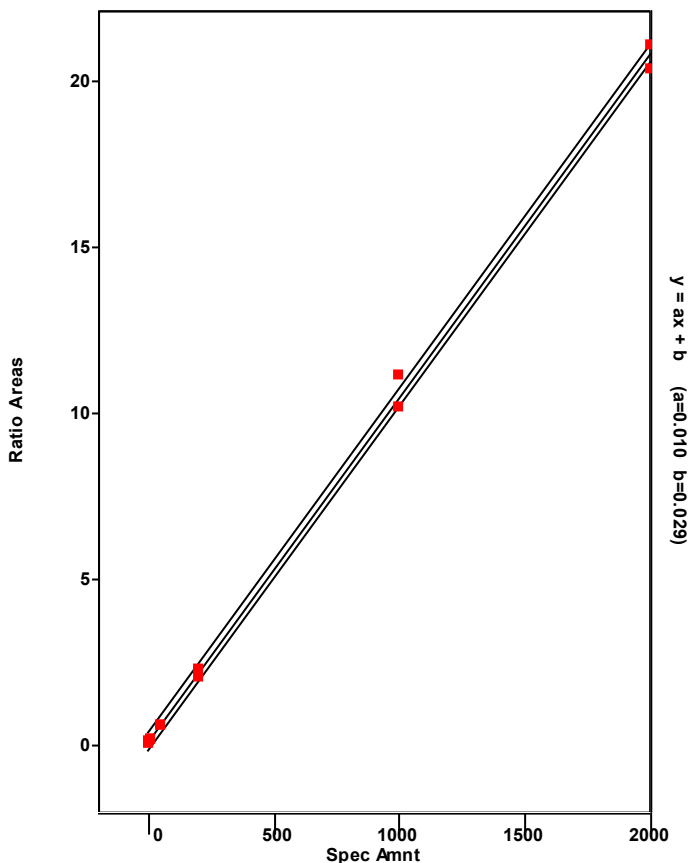


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	2333876
RM1 Area	3676311
RM1 Ratio (A)	1.5752
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	100.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

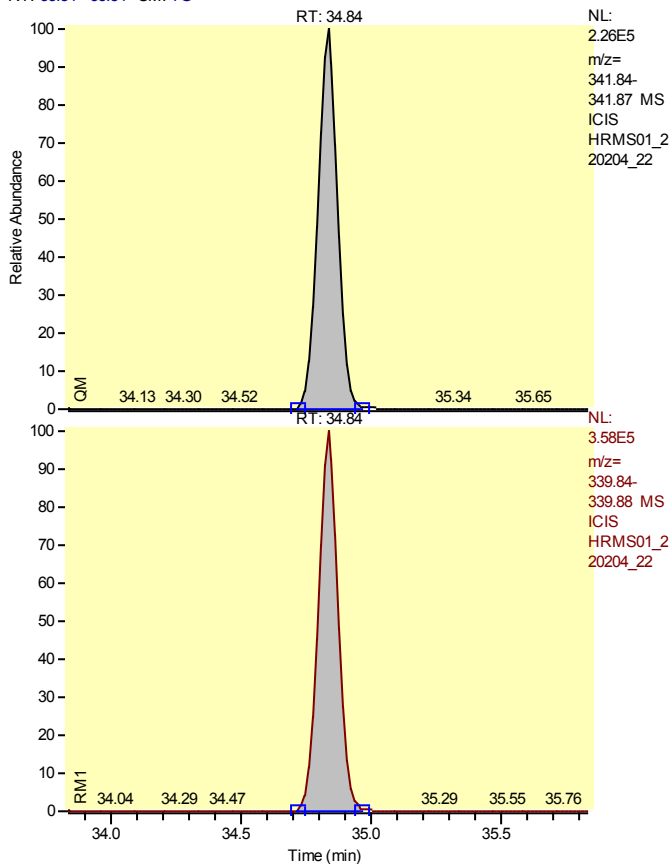
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.84 - 35.84 SM: 7G

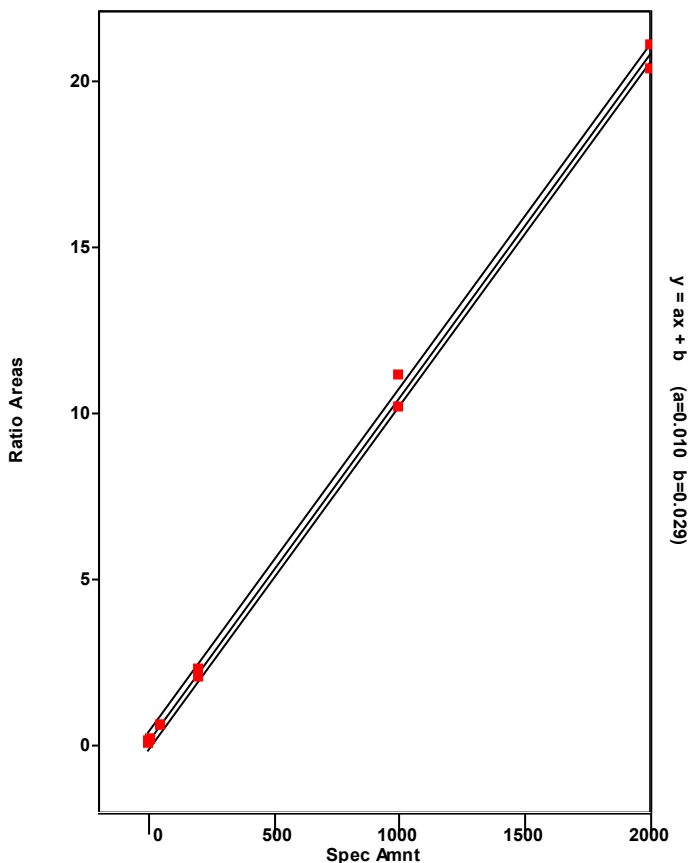


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1203908
RM1 Area	1915886
RM1 Ratio (A)	1.5914
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

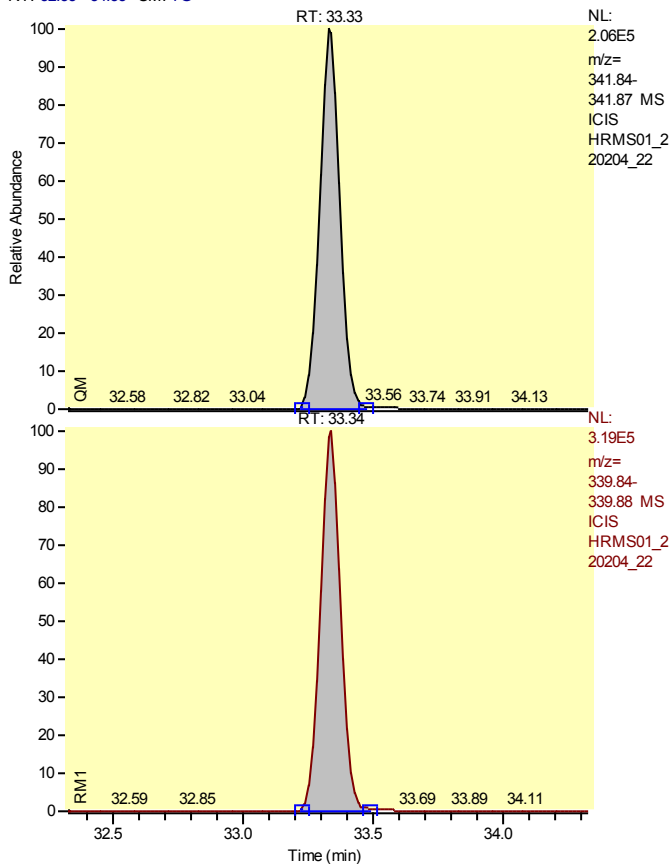
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.33 - 34.33 SM: 7G

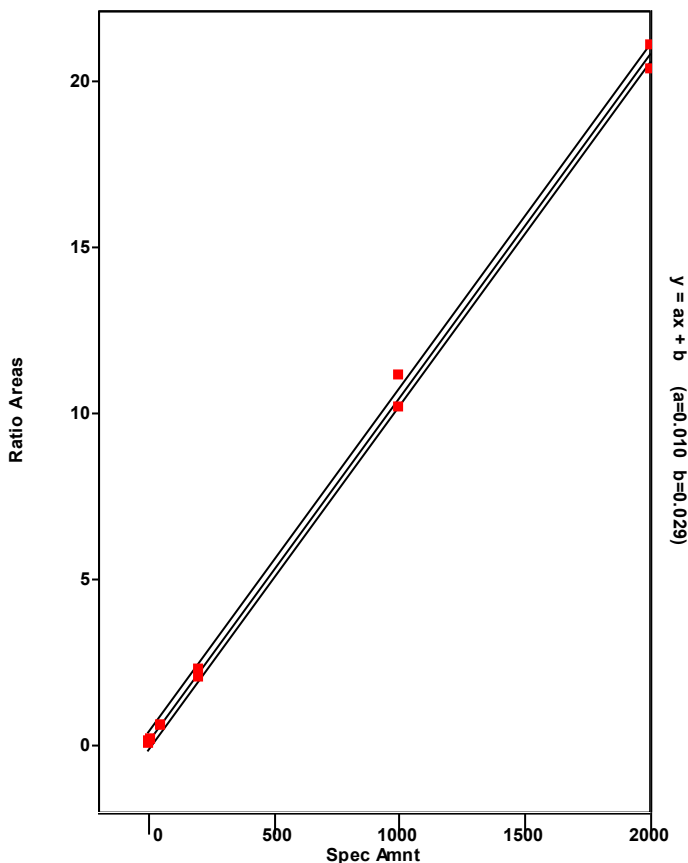


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1129968
RM1 Area	1760424
RM1 Ratio (A)	1.5579
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

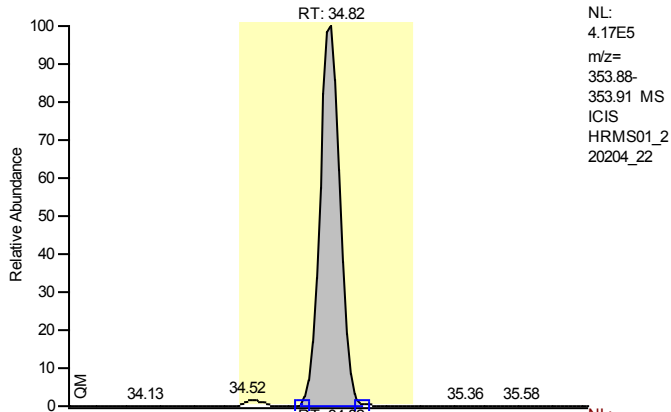
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



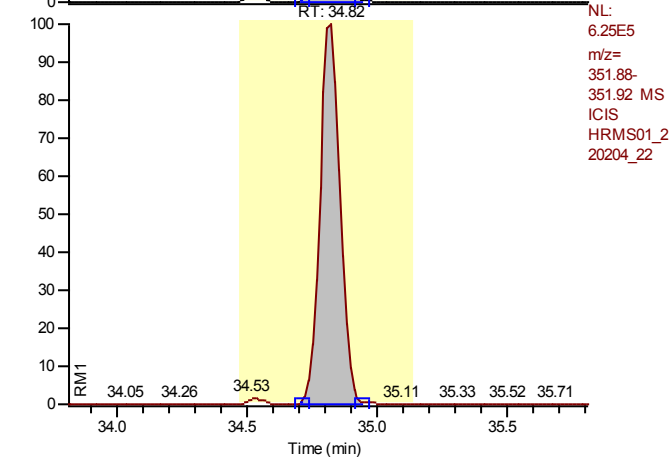
Chromatogram

Entry Parameters

RT: 33.81 - 35.81 SM: 7G



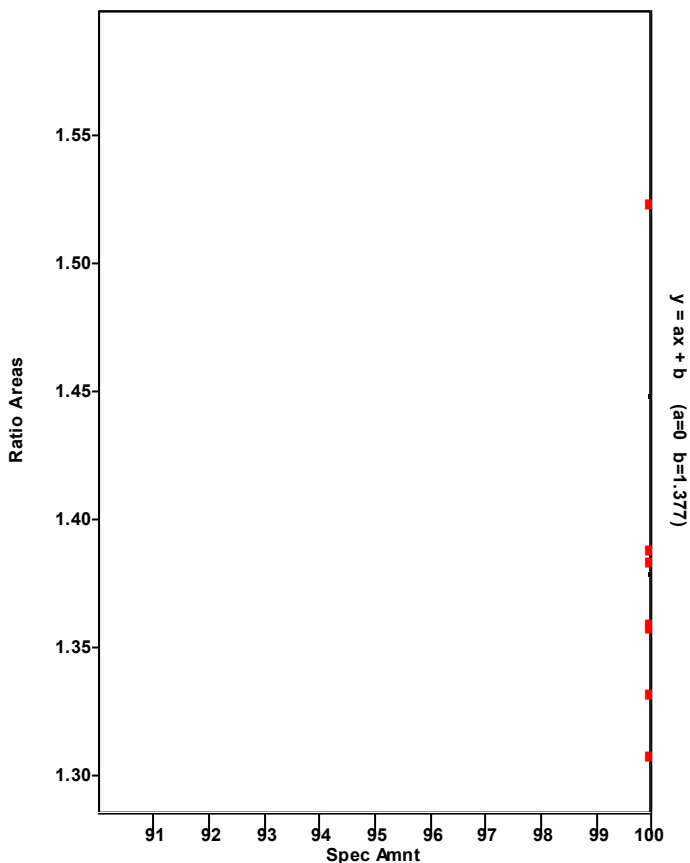
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2240532
RM1 Area	3367978
RM1 Ratio (A)	1.5032
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

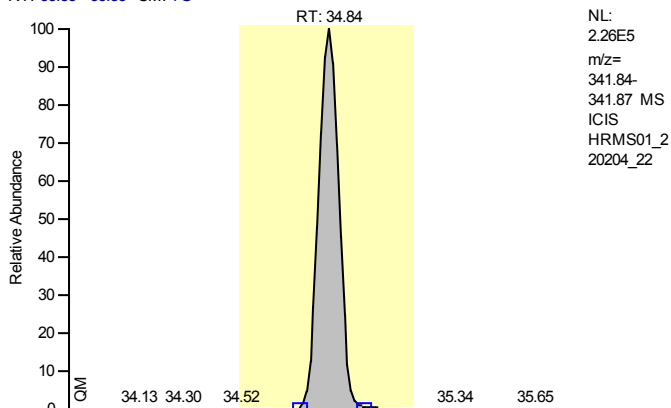
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



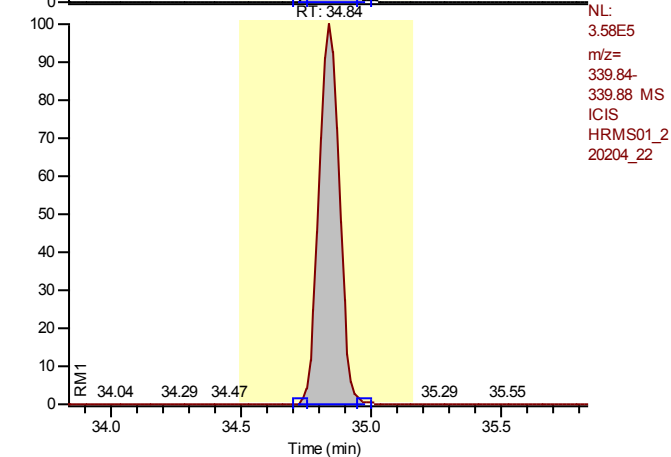
Chromatogram

Entry Parameters

RT: 33.83 - 35.83 SM: 7G



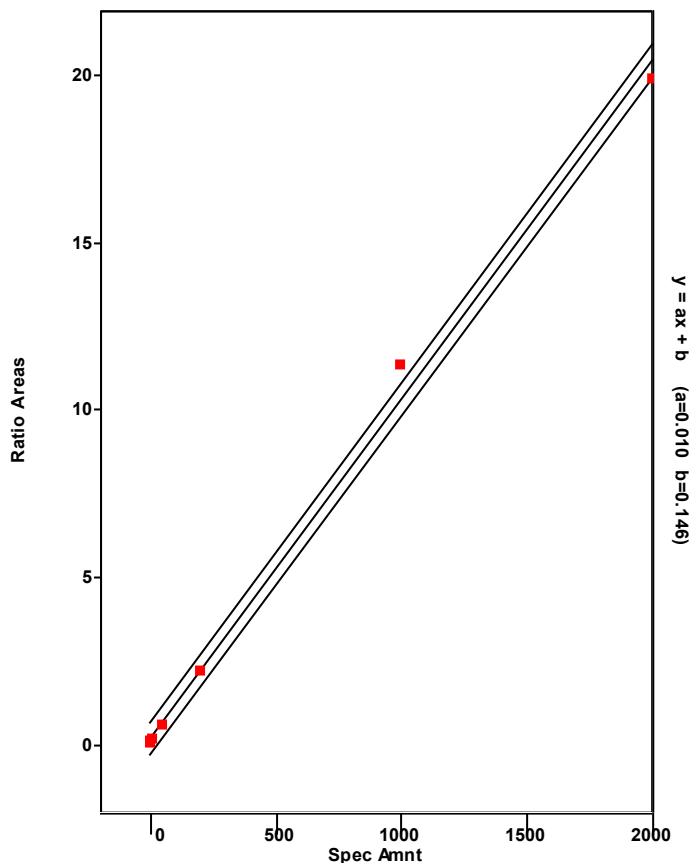
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	1203908
RM1 Area	1915886
RM1 Ratio (A)	1.5914
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	15.0000
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

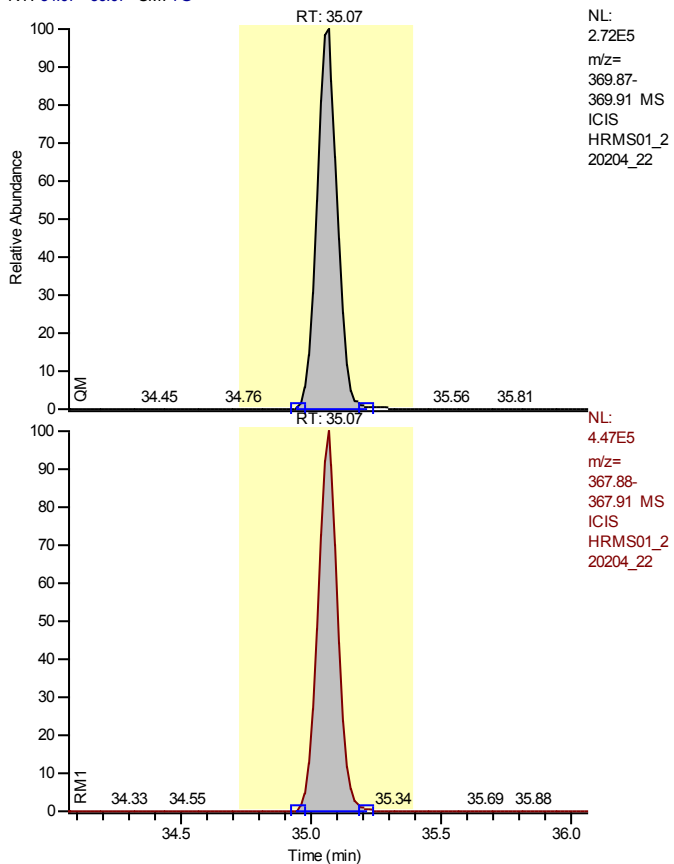
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.07 - 36.07 SM: 7G

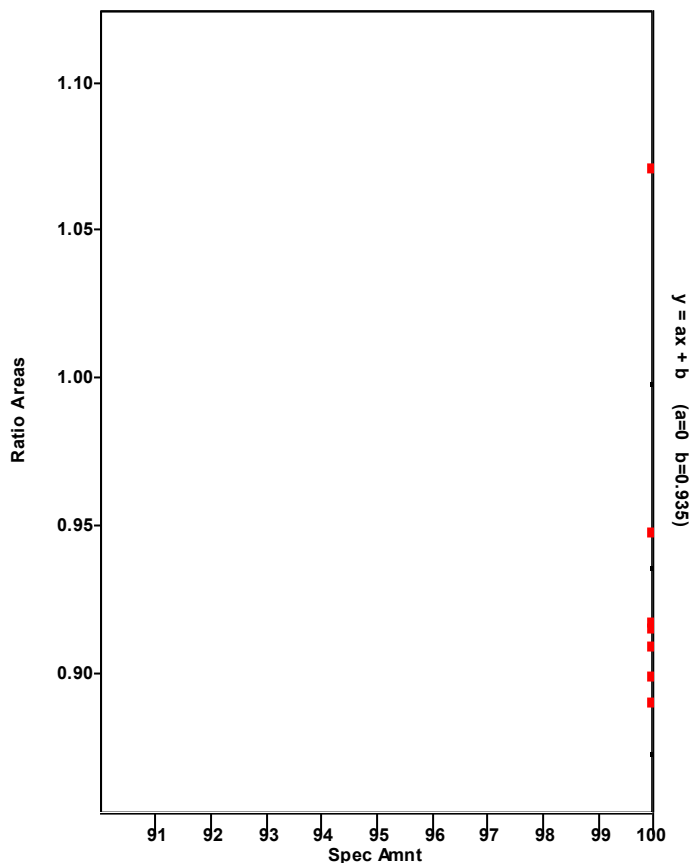


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1506181
RM1 Area	2392006
RM1 Ratio (A)	1.5881
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

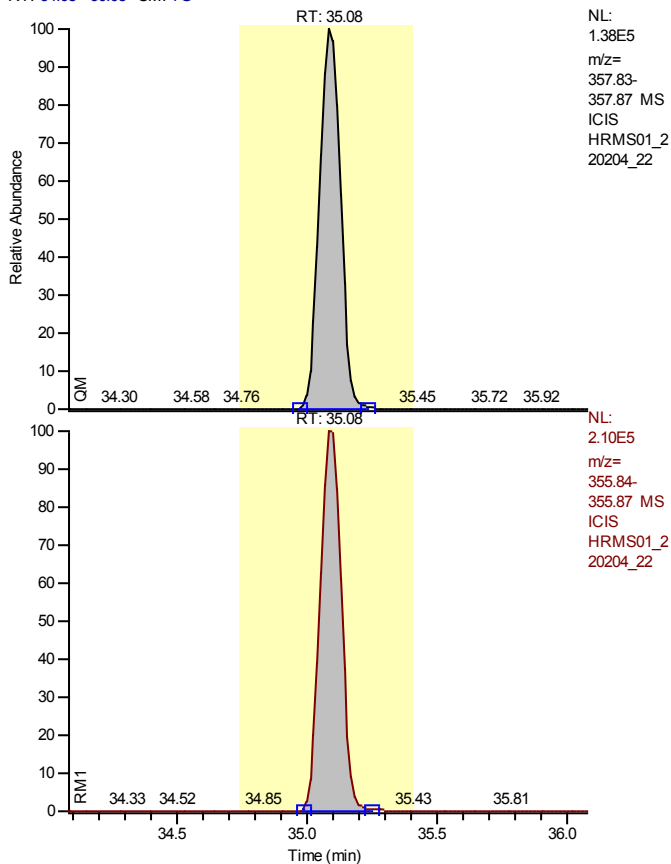
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.08 - 36.08 SM: 7G



NL:
 1.38E5
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_22

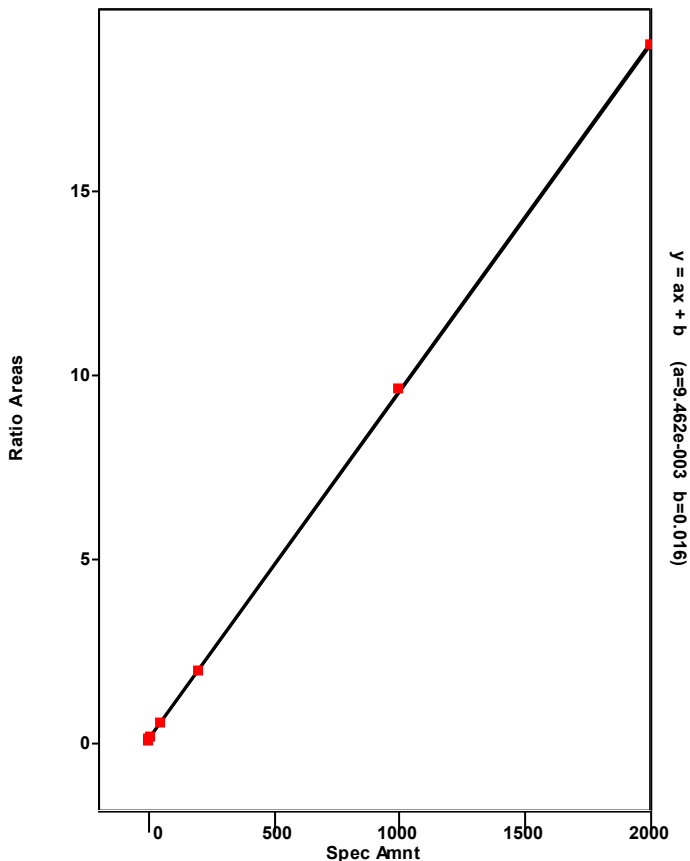
NL:
 2.10E5
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	759642
RM1 Area	1169643
RM1 Ratio (A)	1.5397
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	50.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

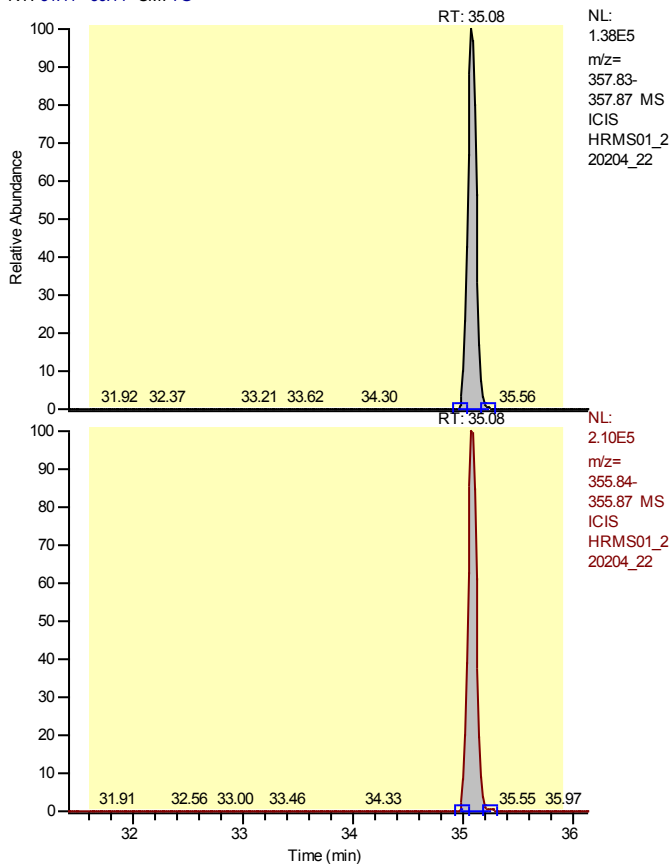
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.41 - 36.14 SM: 7G

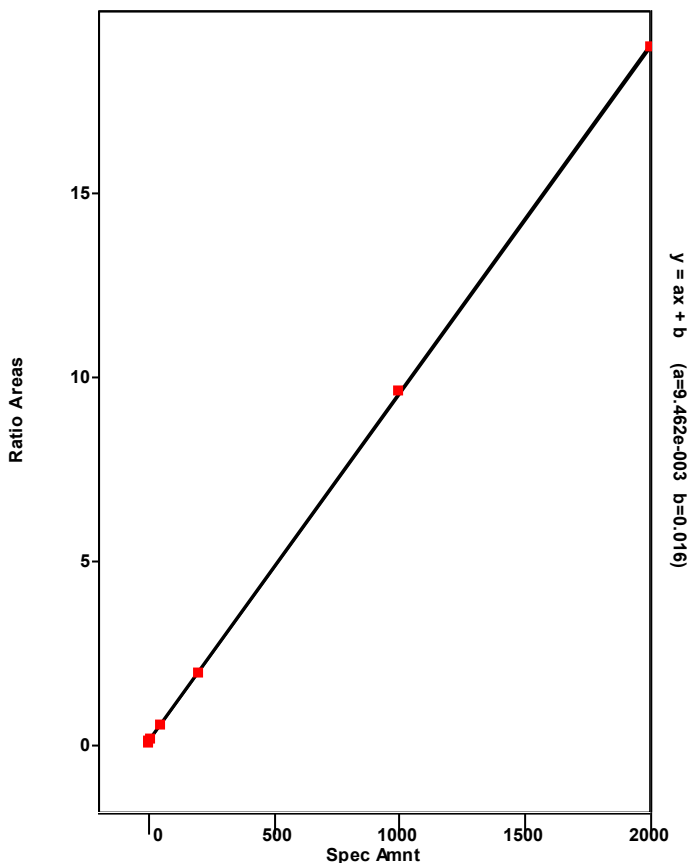


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	759642
RM1 Area	1169643
RM1 Ratio (A)	1.5397
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

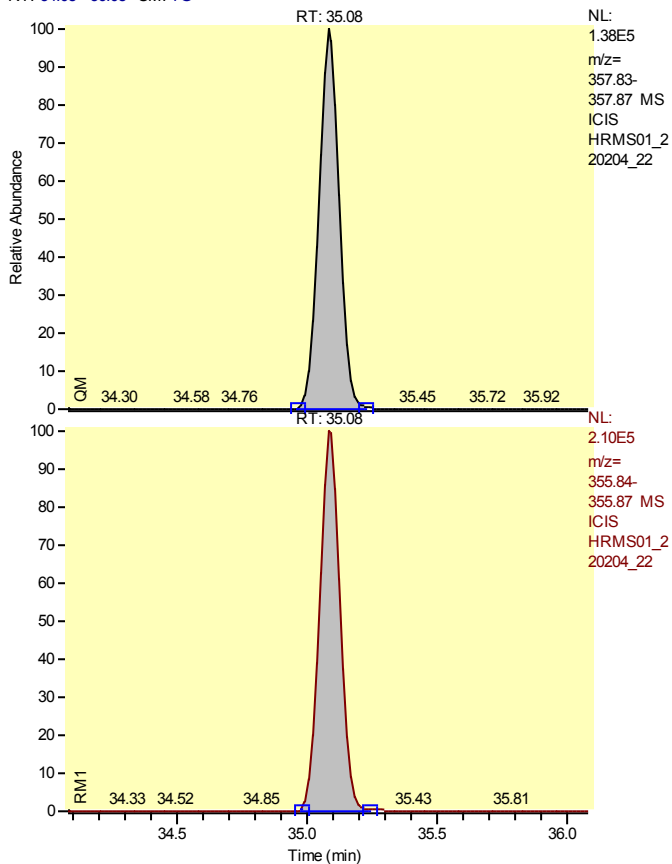
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.08 - 36.08 SM: 7G



NL:
 1.38E5
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_22

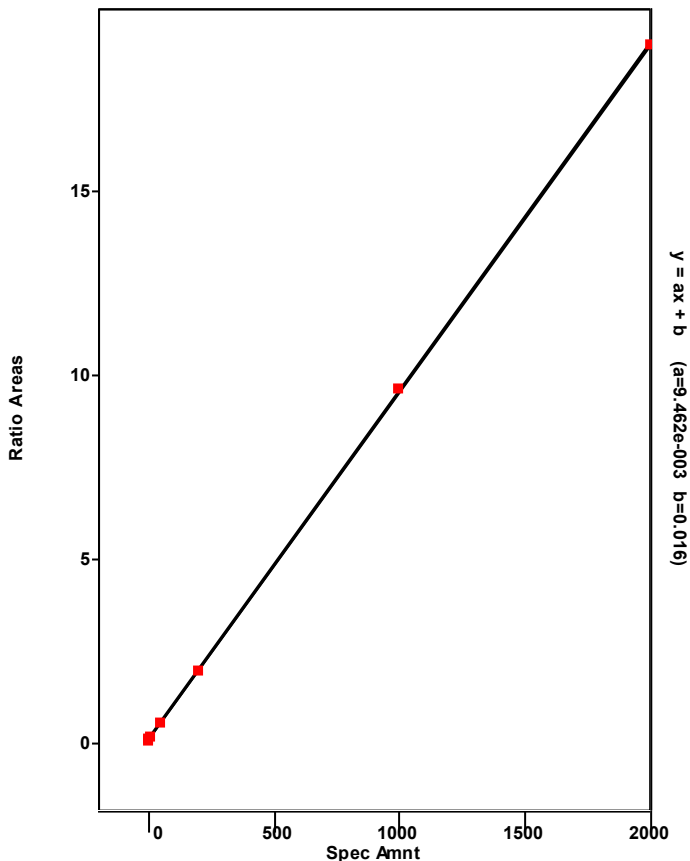
NL:
 2.10E5
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	759642
RM1 Area	1169643
RM1 Ratio (A)	1.5397
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

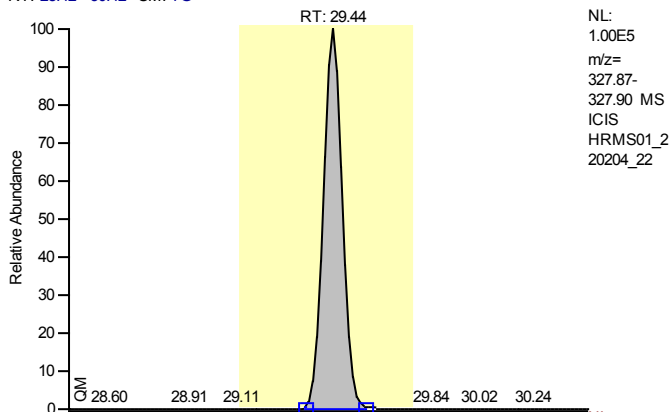
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



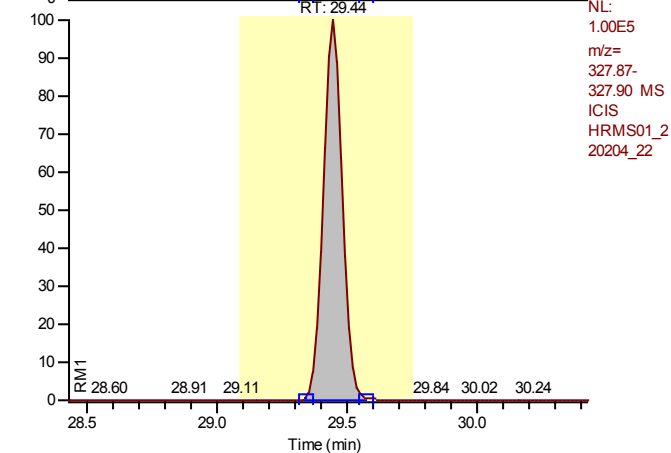
Chromatogram

Entry Parameters

RT: 28.42 - 30.42 SM: 7G



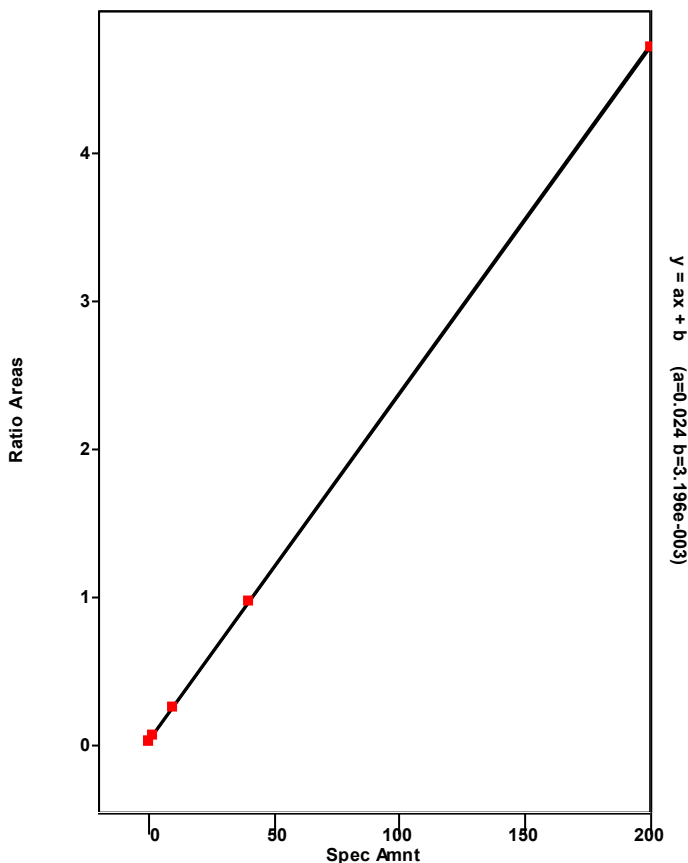
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	504535
RM1 Area	504535
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

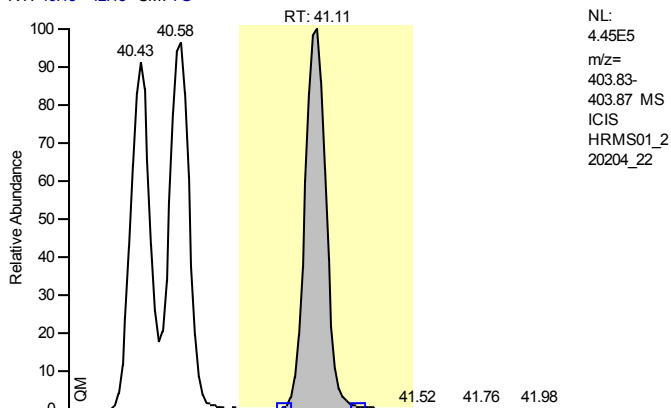
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

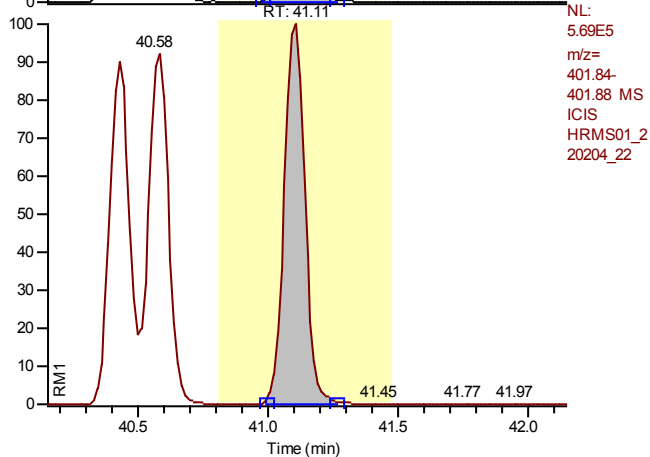
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
 4.45E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2446774
RM1 Area	3078033
RM1 Ratio (A)	1.2580
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

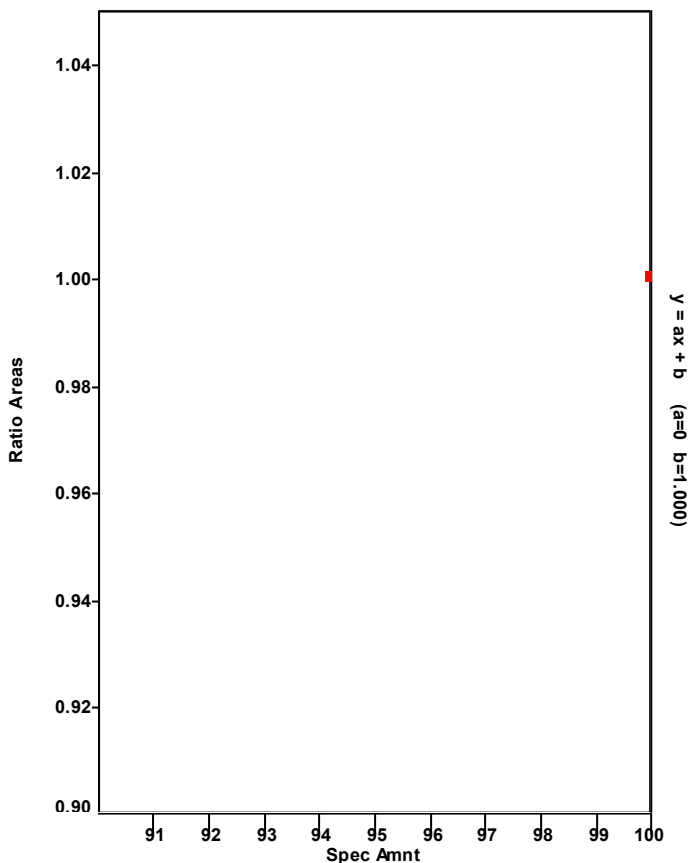


NL:
 5.69E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

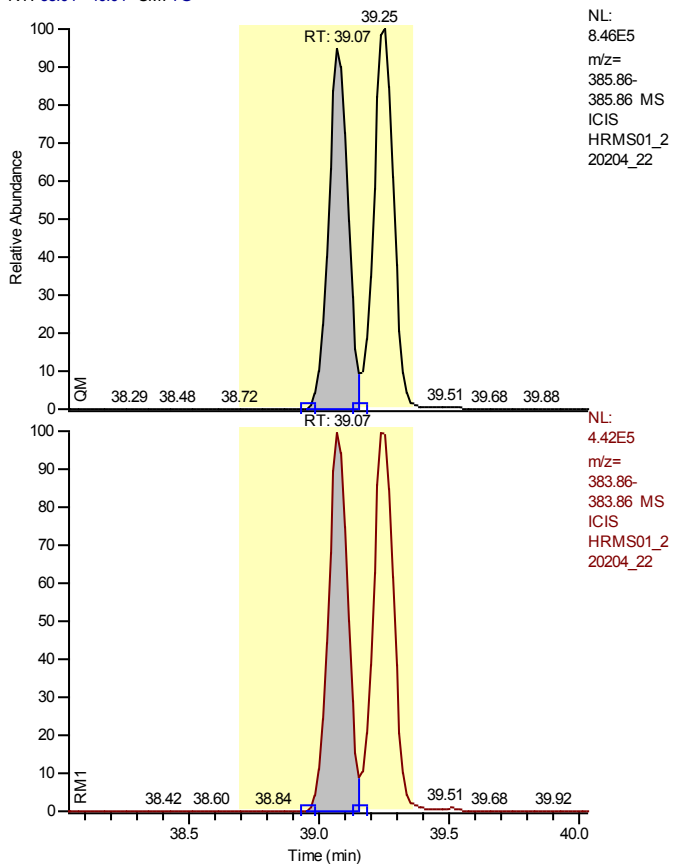
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G

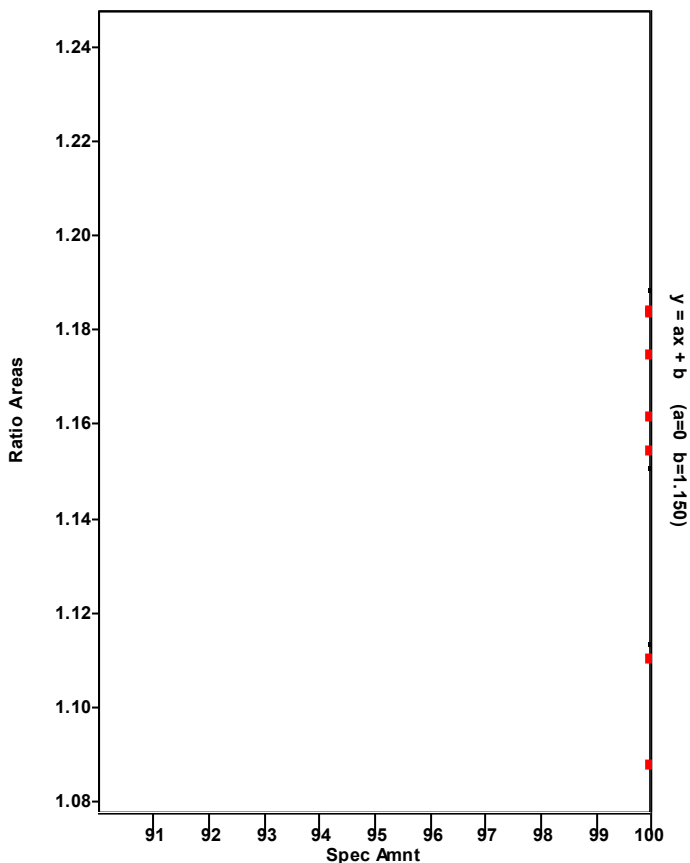


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	4190766
RM1 Area	2295311
RM1 Ratio (A)	0.5477
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

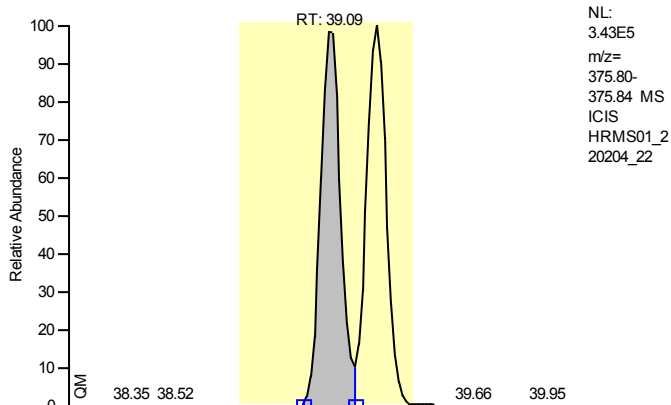
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



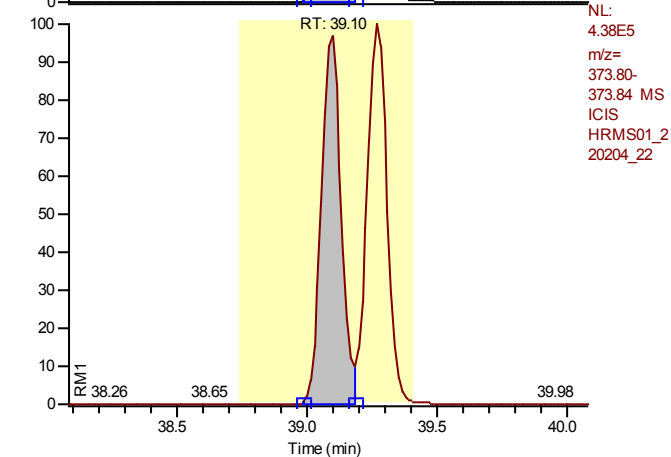
Chromatogram

Entry Parameters

RT: 38.08 - 40.08 SM: 7G



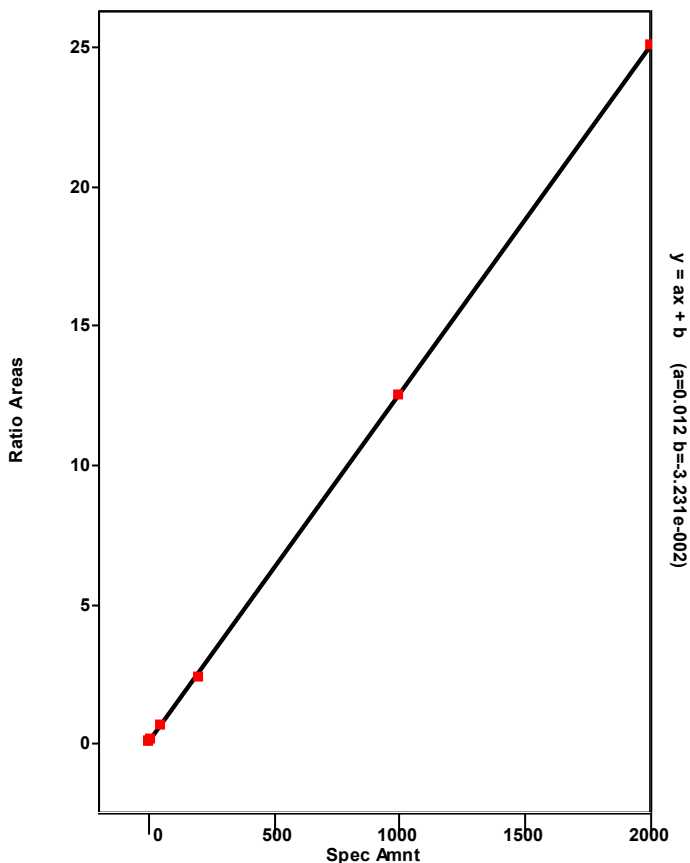
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	1821126
RM1 Area	2239436
RM1 Ratio (A)	1.2297
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

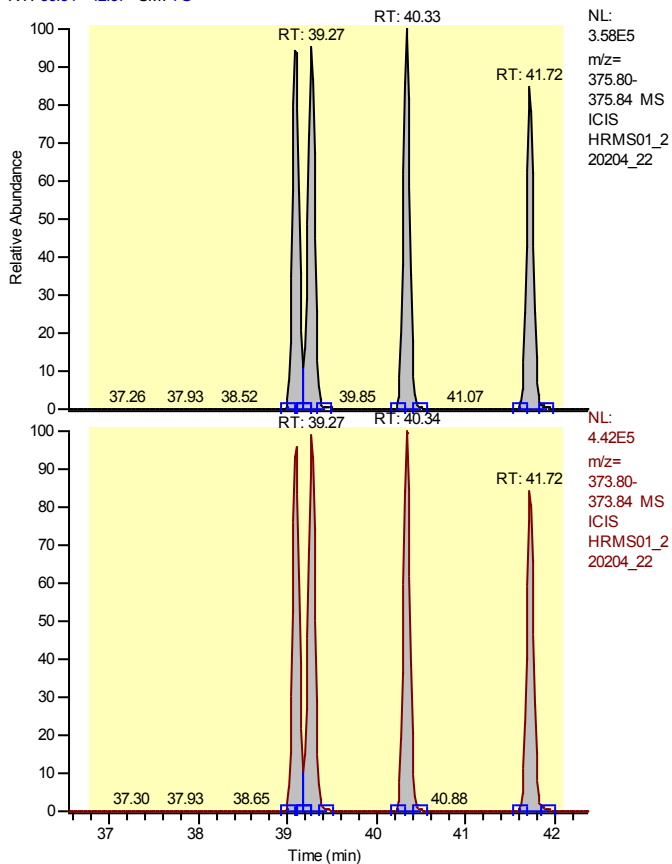
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.54 - 42.37 SM: 7G

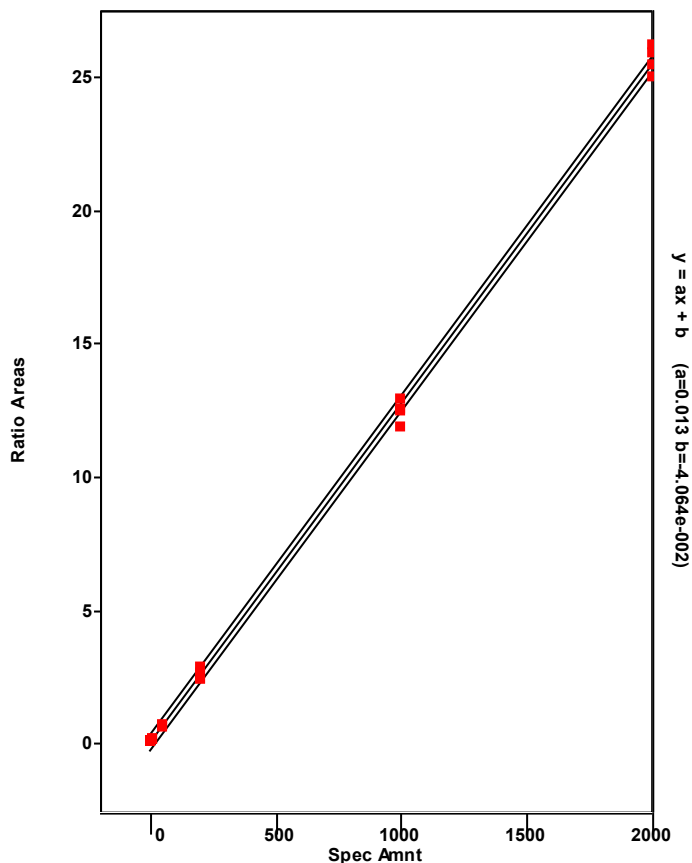


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	7249696
RM1 Area	9053576
RM1 Ratio (A)	1.2488
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	200.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

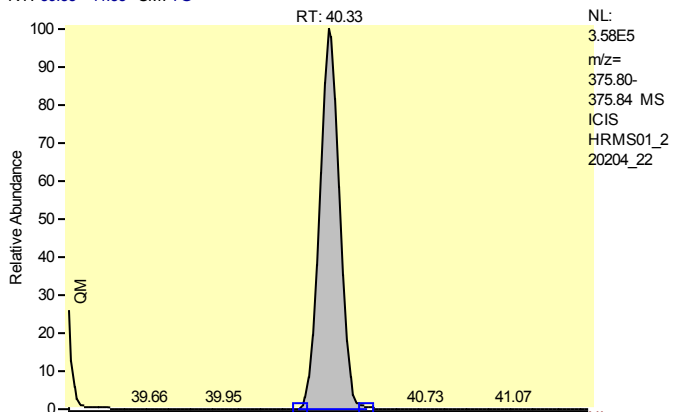
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



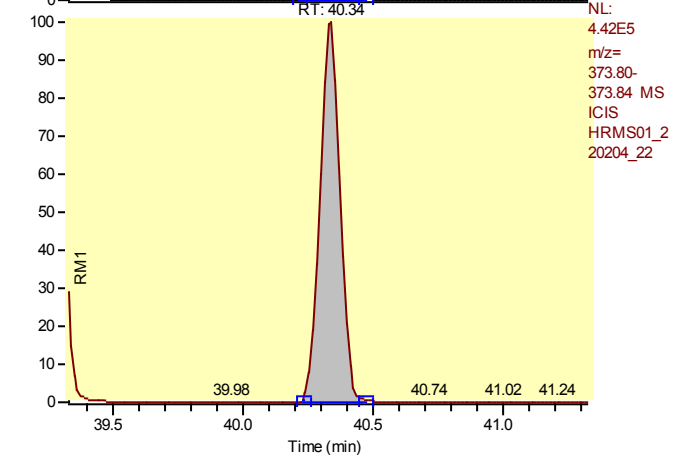
Chromatogram

Entry Parameters

RT: 39.33 - 41.33 SM: 7G



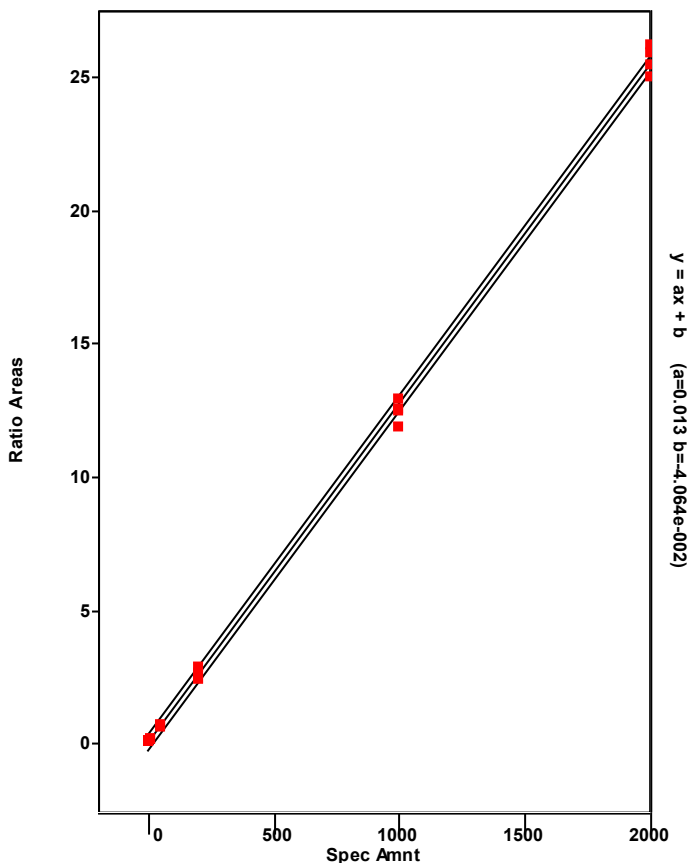
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1903668
RM1 Area	2377703
RM1 Ratio (A)	1.2490
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

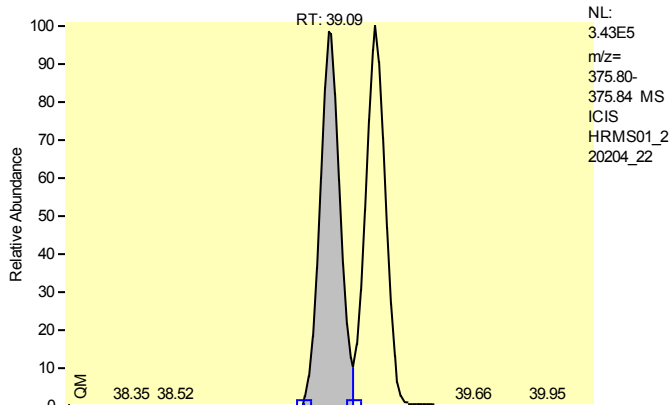
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

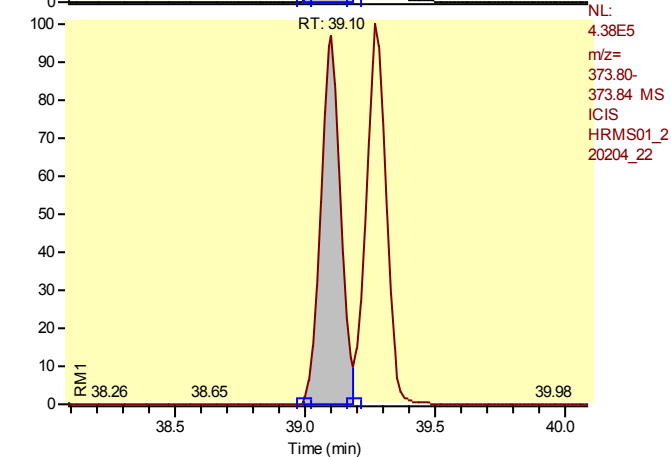
Entry Parameters

RT: 38.09 - 40.09 SM: 7G



NL:
 3.43E5
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1821126
RM1 Area	2239436
RM1 Ratio (A)	1.2297
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

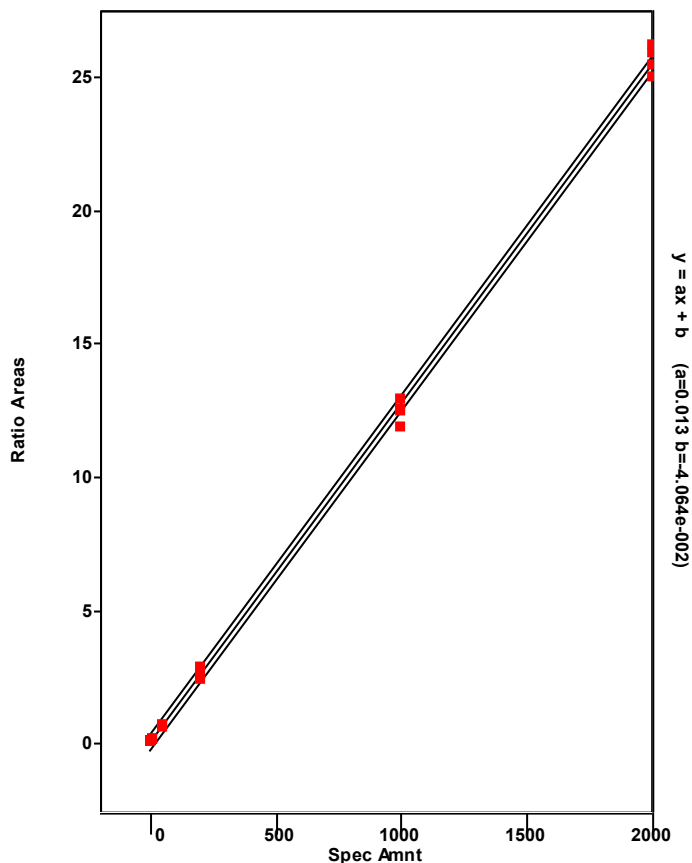


NL:
 4.38E5
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_22

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

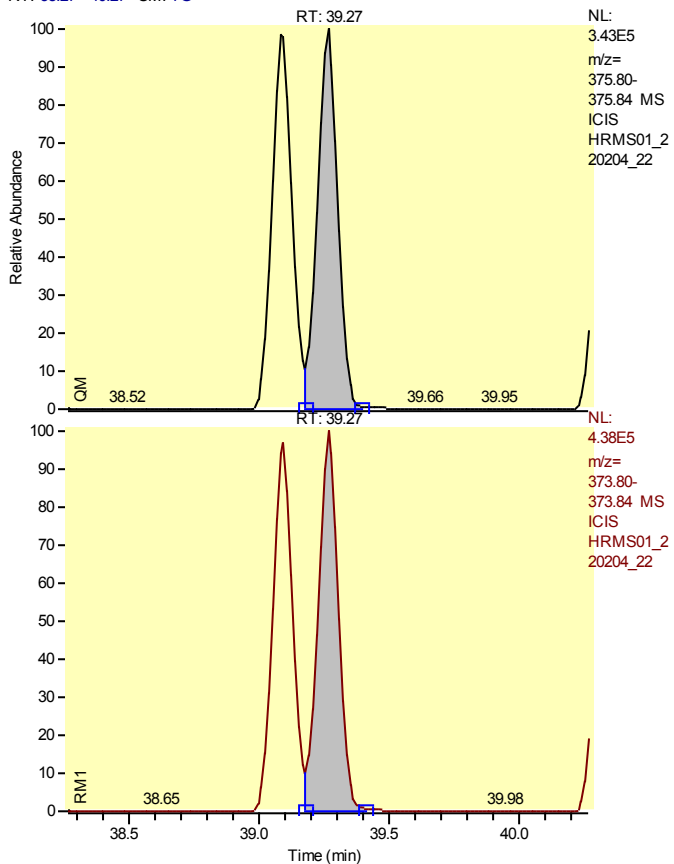
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.27 - 40.27 SM: 7G

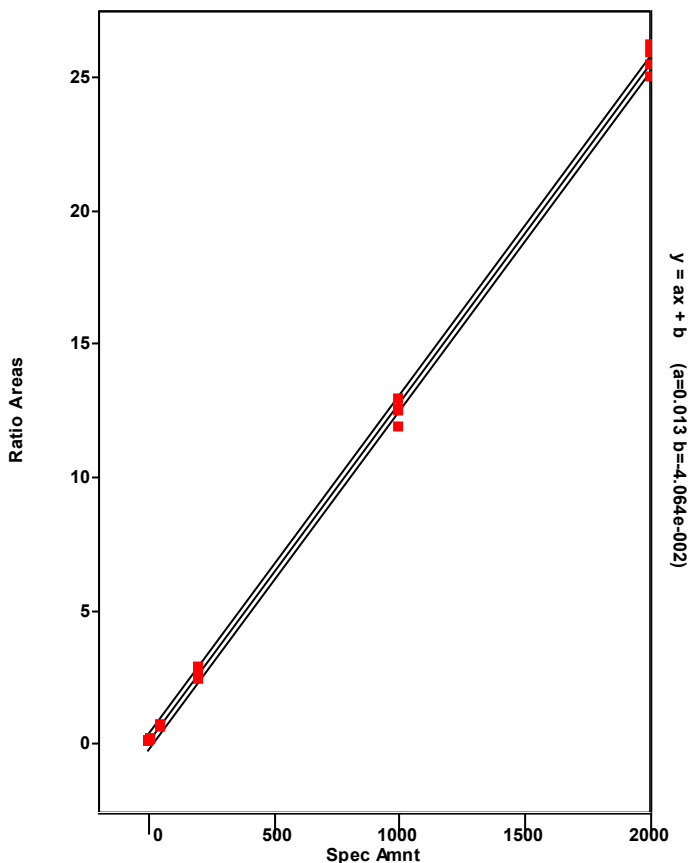


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1839263
RM1 Area	2342687
RM1 Ratio (A)	1.2737
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

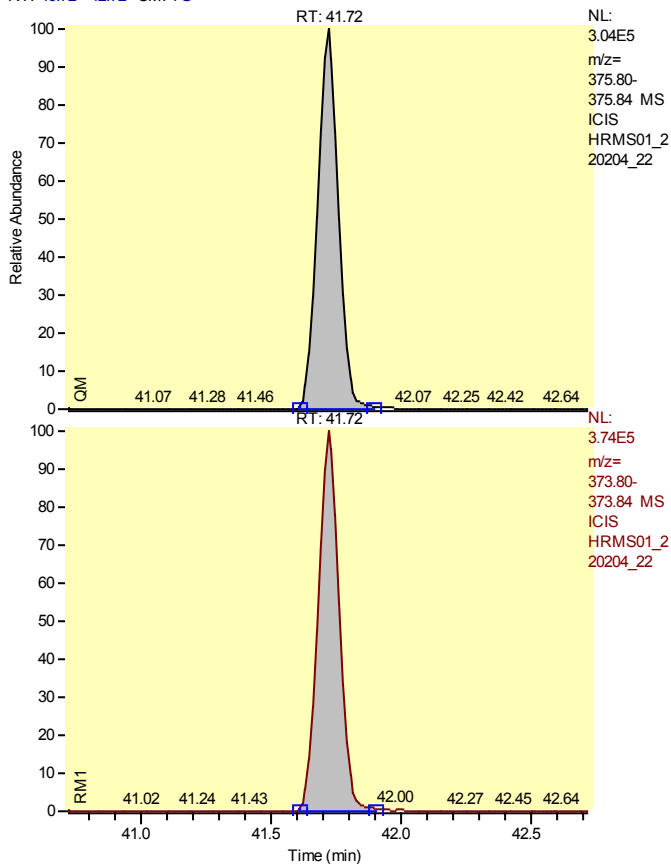
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.72- 42.72 SM: 7G

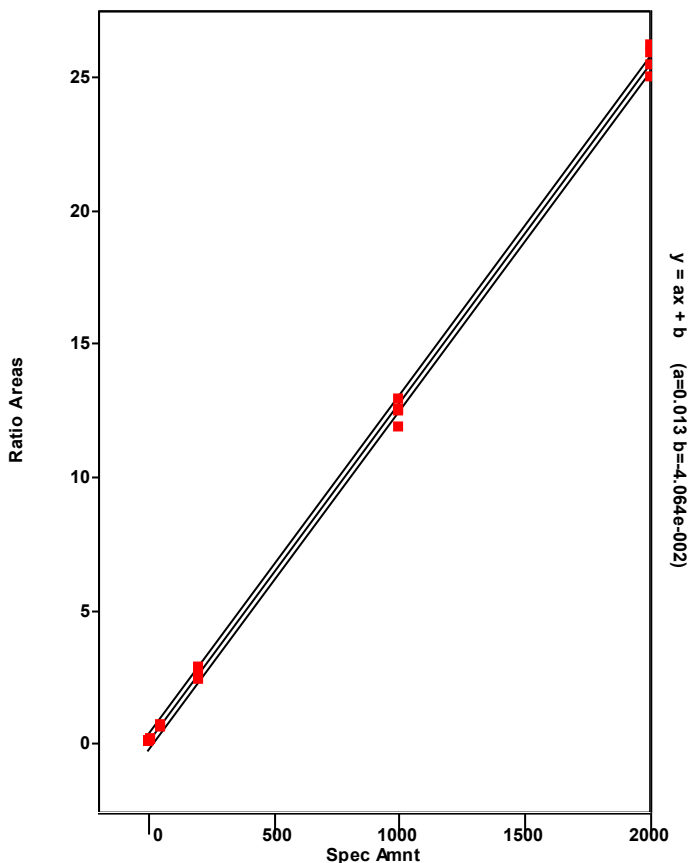


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1685638
RM1 Area	2093750
RM1 Ratio (A)	1.2421
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

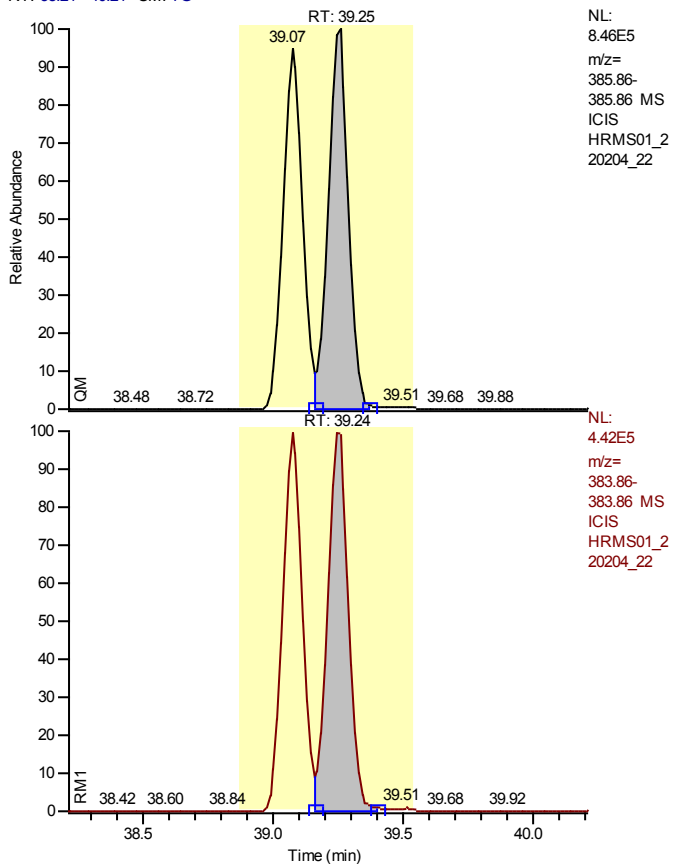
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.21 - 40.21 SM: 7G

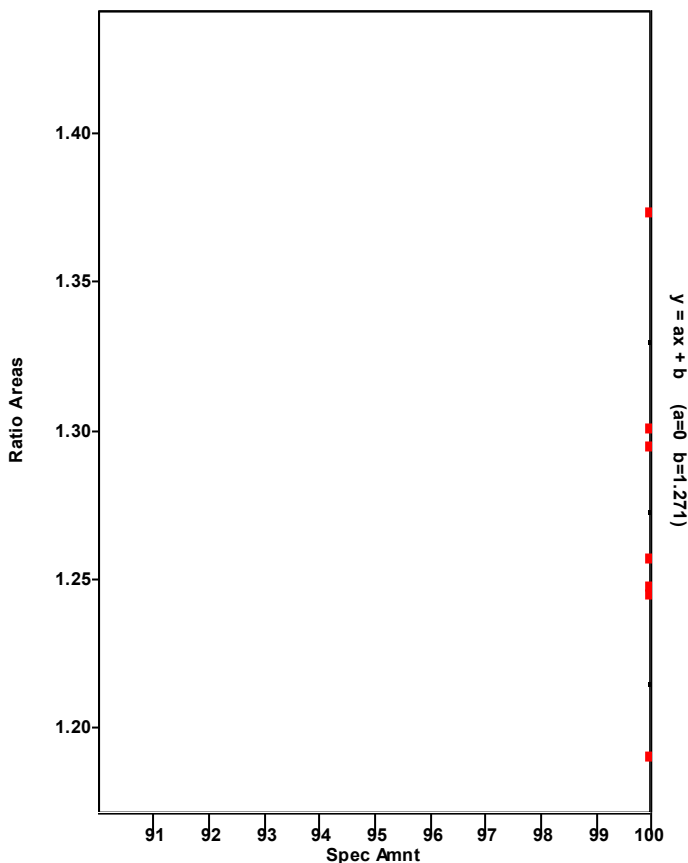


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	4510512
RM1 Area	2427725
RM1 Ratio (A)	0.5382
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

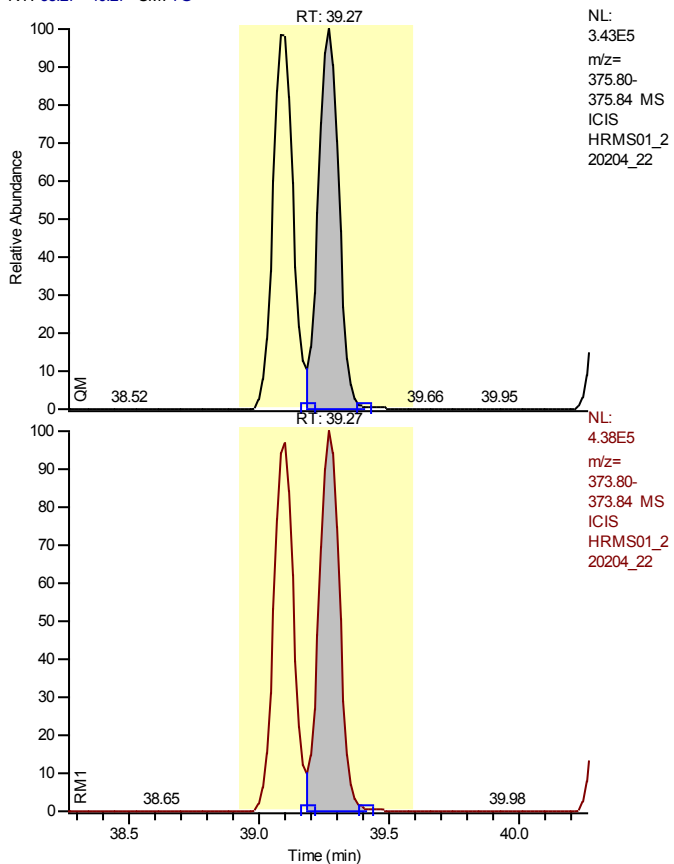
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.27 - 40.27 SM: 7G

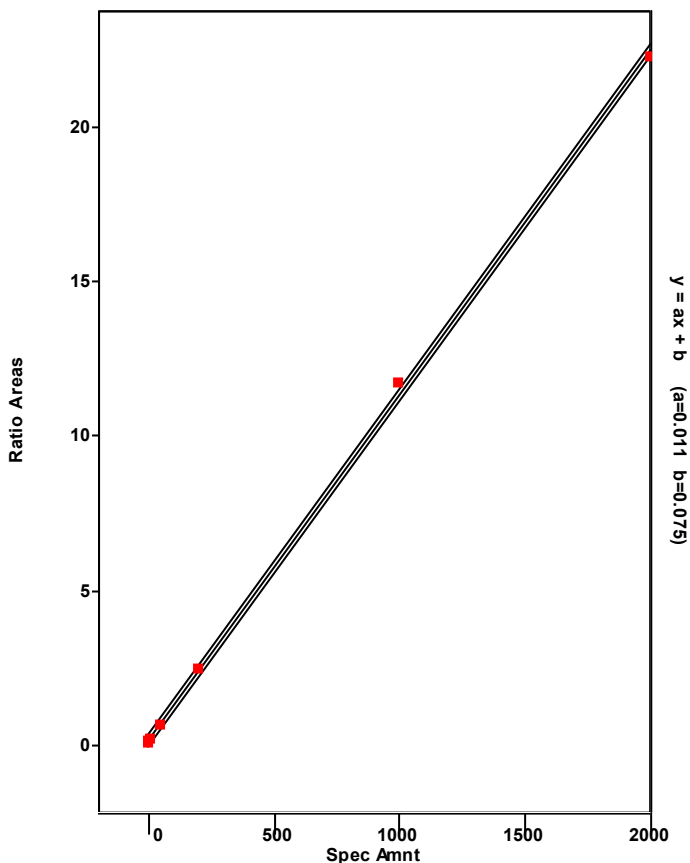


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	1839263
RM1 Area	2342687
RM1 Ratio (A)	1.2737
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

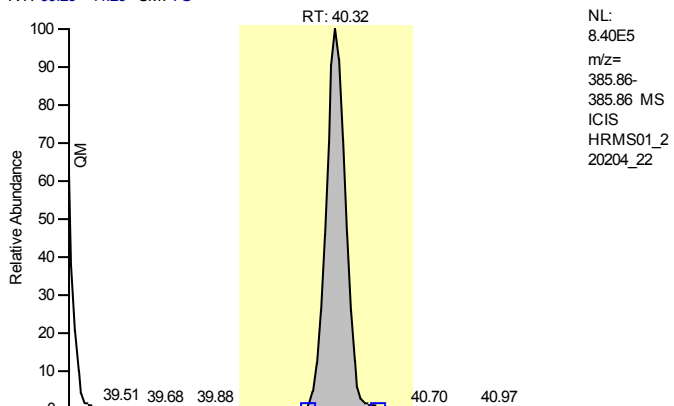
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

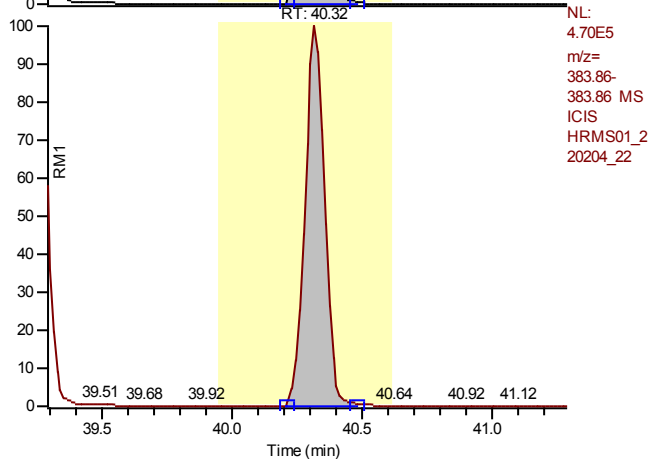
Entry Parameters

RT: 39.29 - 41.29 SM: 7G



NL:
 8.40E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	4377243
RM1 Area	2457503
RM1 Ratio (A)	0.5614
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

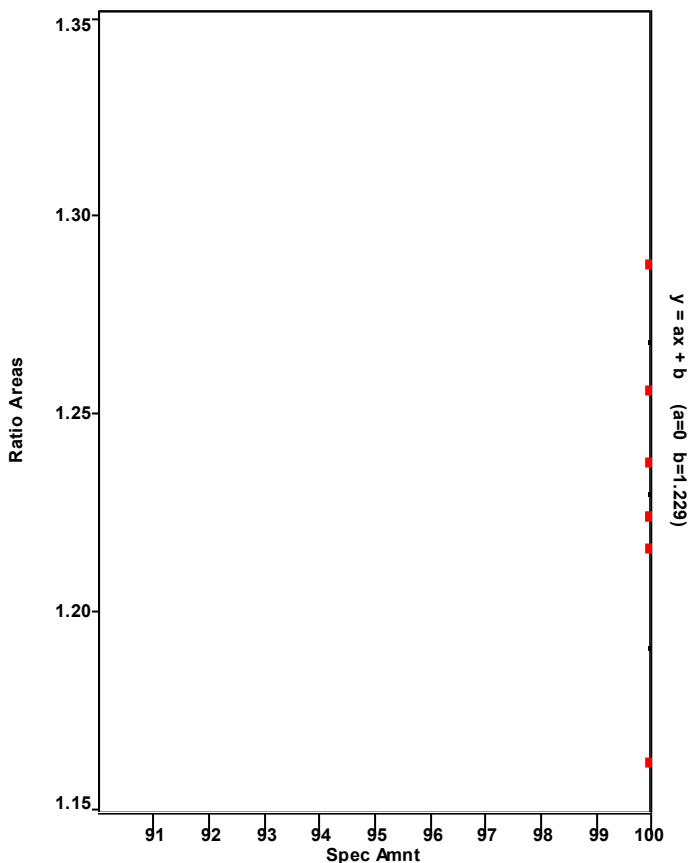


NL:
 4.70E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

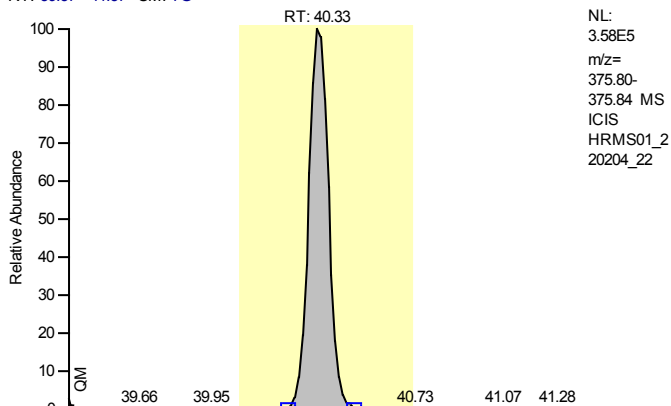
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



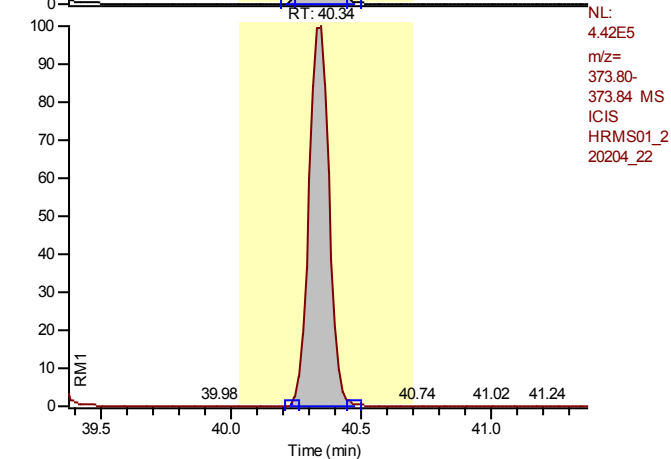
Chromatogram

Entry Parameters

RT: 39.37 - 41.37 SM: 7G



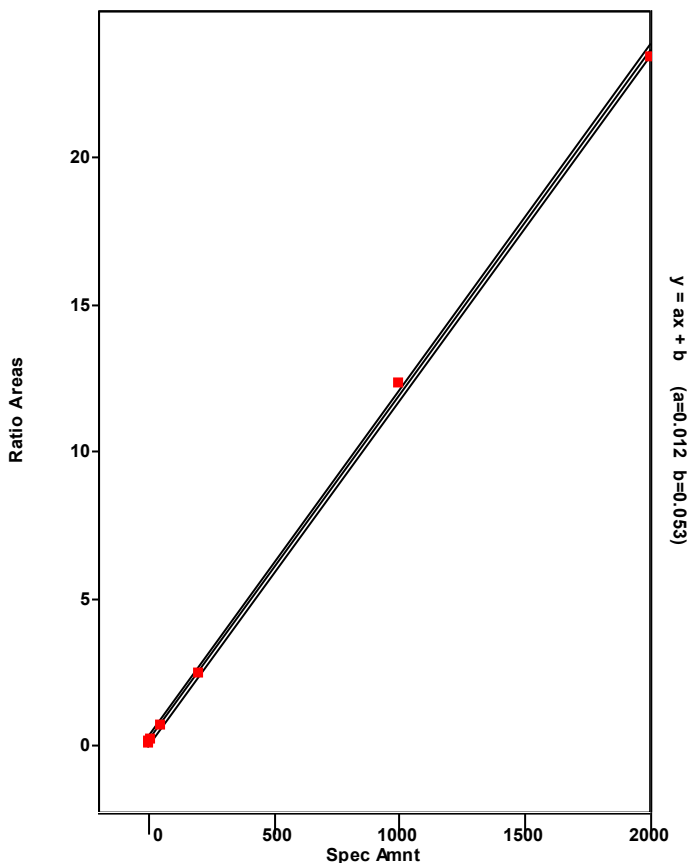
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	1903668
RM1 Area	2377703
RM1 Ratio (A)	1.2490
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

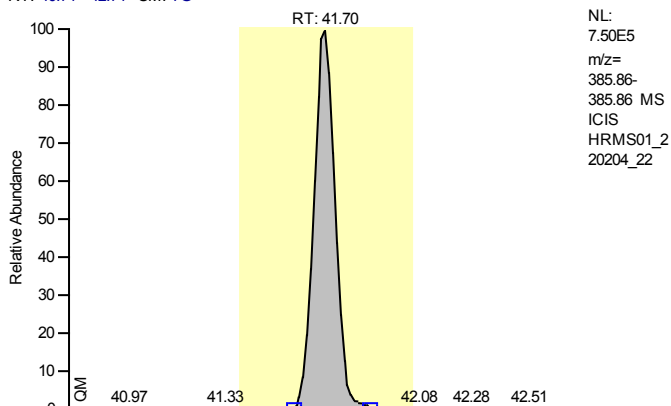
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



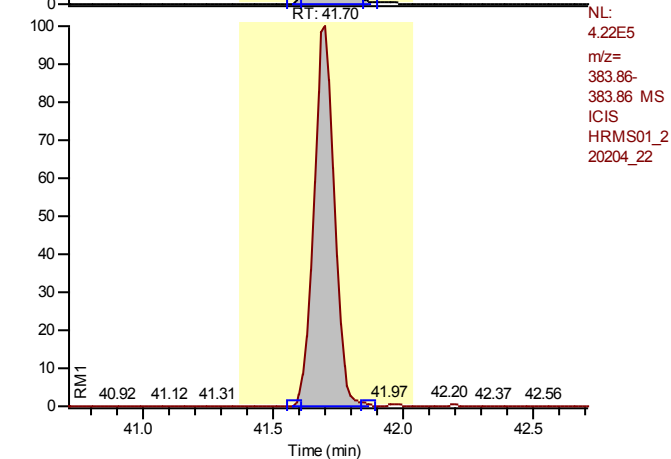
Chromatogram

Entry Parameters

RT: 40.71 - 42.71 SM: 7G



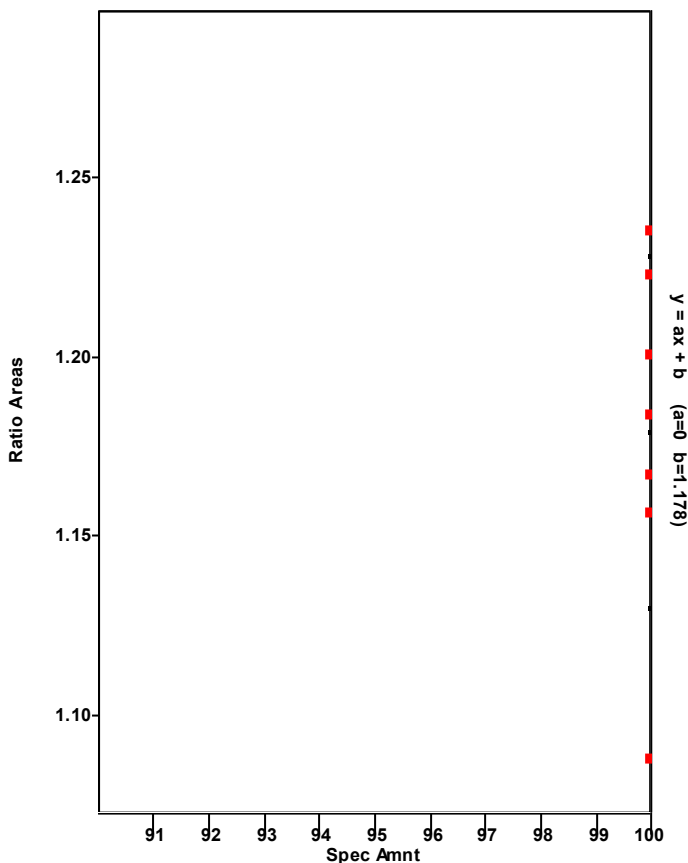
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	4239094
RM1 Area	2297426
RM1 Ratio (A)	0.5420
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

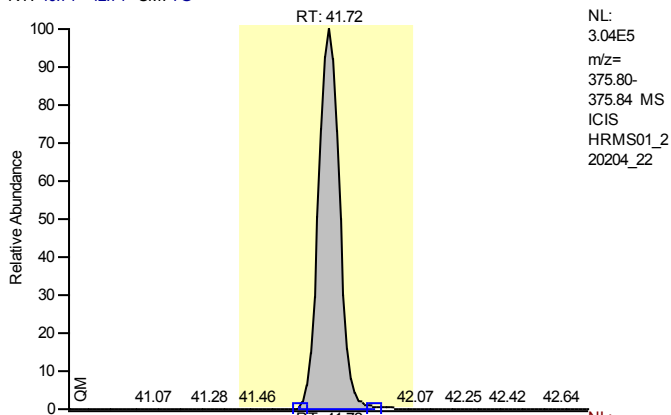
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

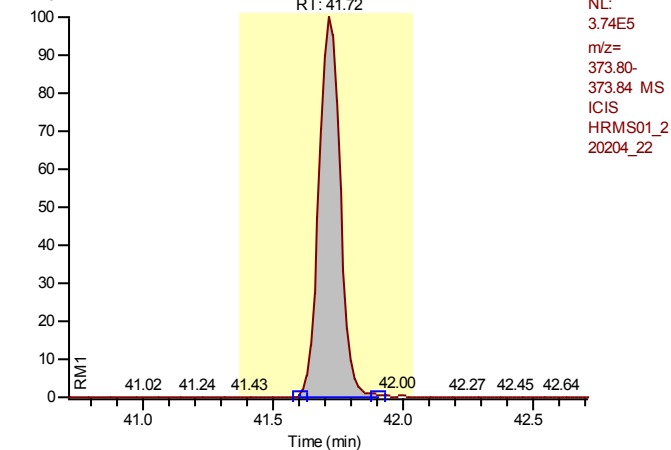
Entry Parameters

RT: 40.71 - 42.71 SM: 7G



NL:
 3.04E5
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	1685638
RM1 Area	2093750
RM1 Ratio (A)	1.2421
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

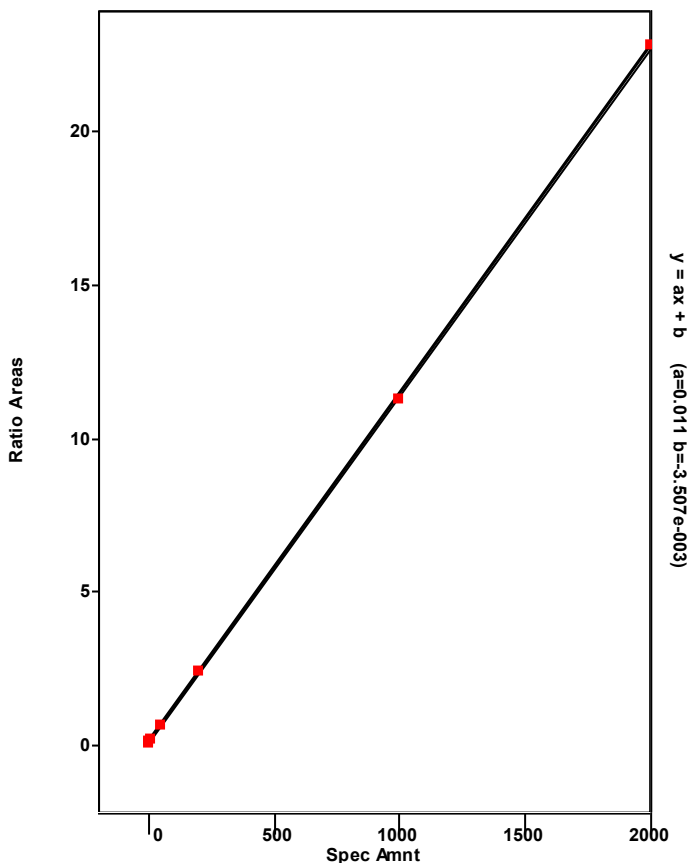


NL:
 3.74E5
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

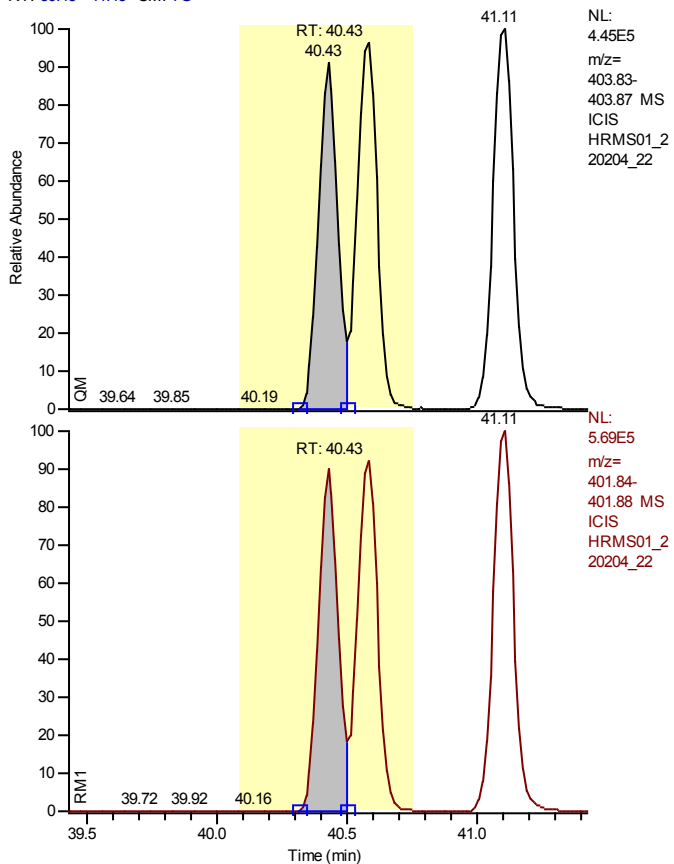
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

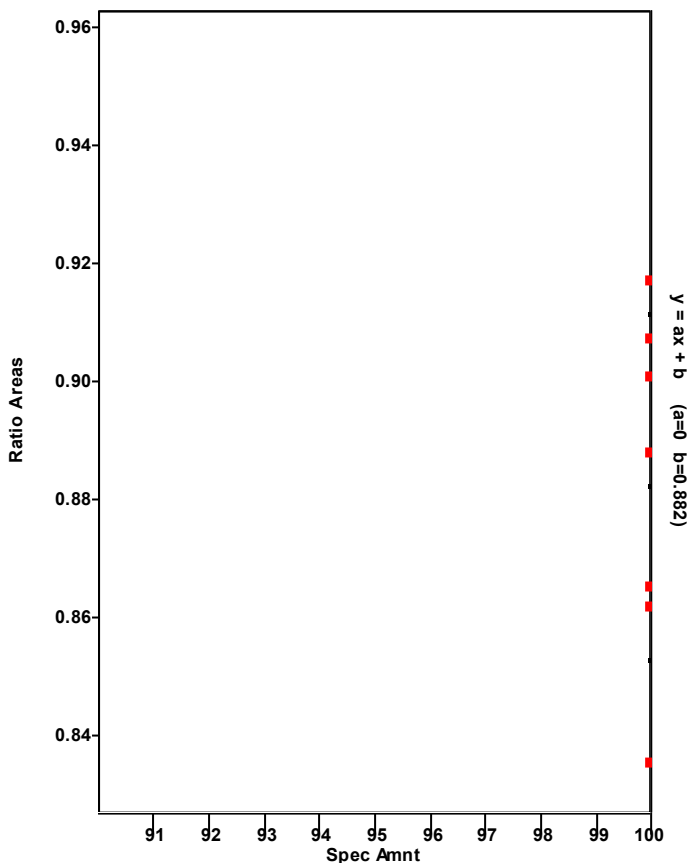
RT: 39.43 - 41.43 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2088727
RM1 Area	2669646
RM1 Ratio (A)	1.2781
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

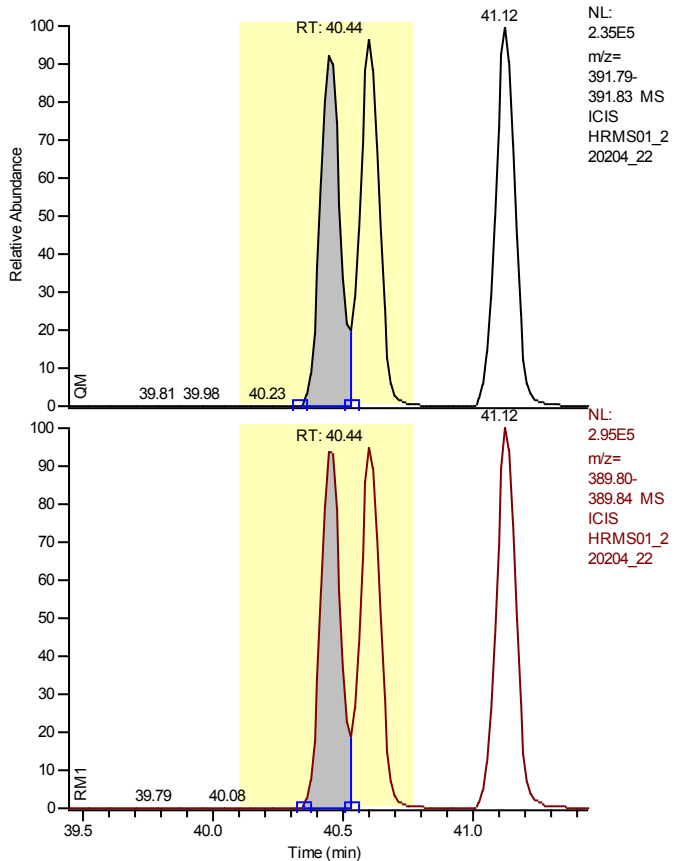
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.44 - 41.44 SM: 7G

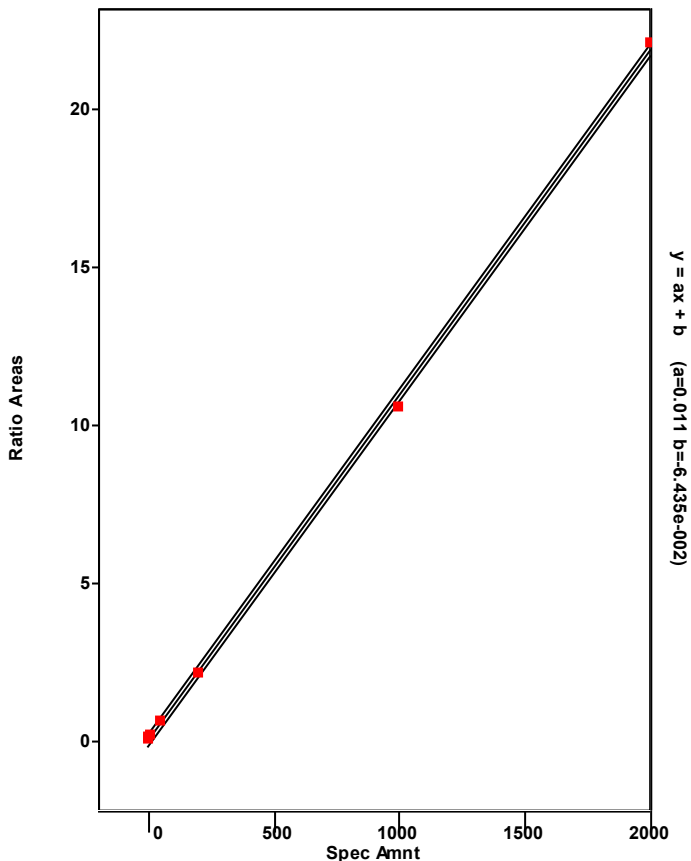


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	1165838
RM1 Area	1485063
RM1 Ratio (A)	1.2738
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

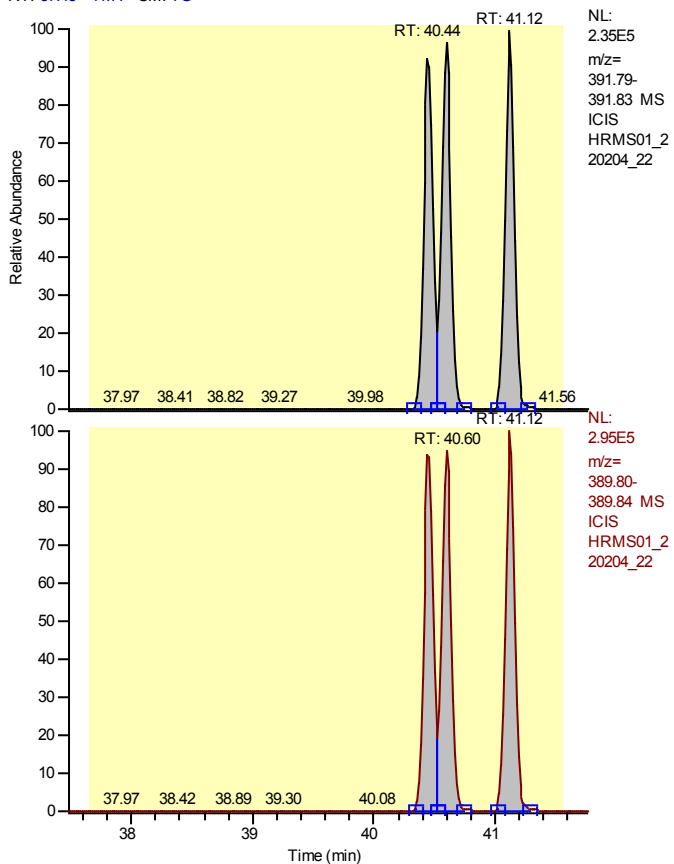
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.48 - 41.77 SM: 7G

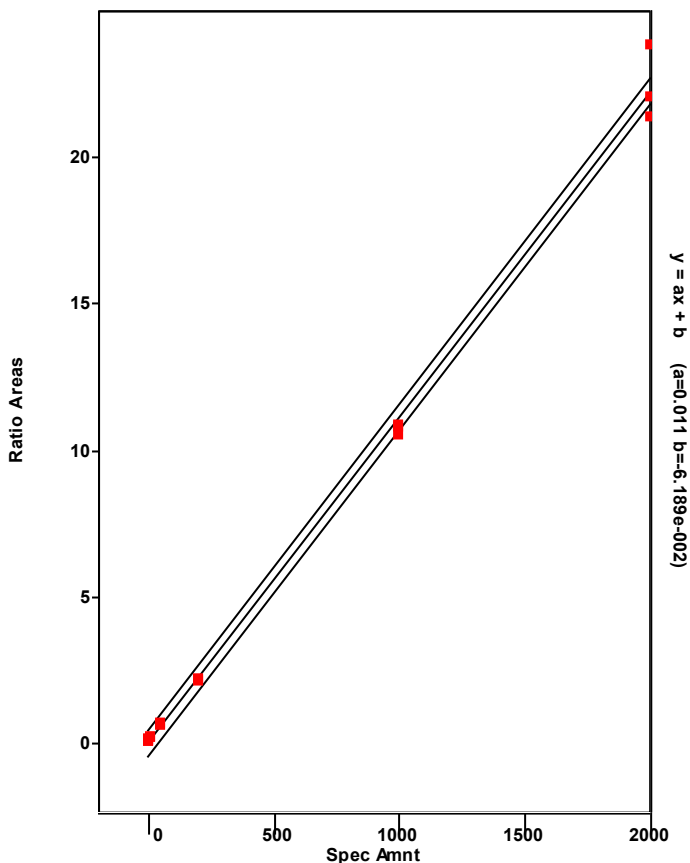


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	3580287
RM1 Area	4538277
RM1 Ratio (A)	1.2676
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	150.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

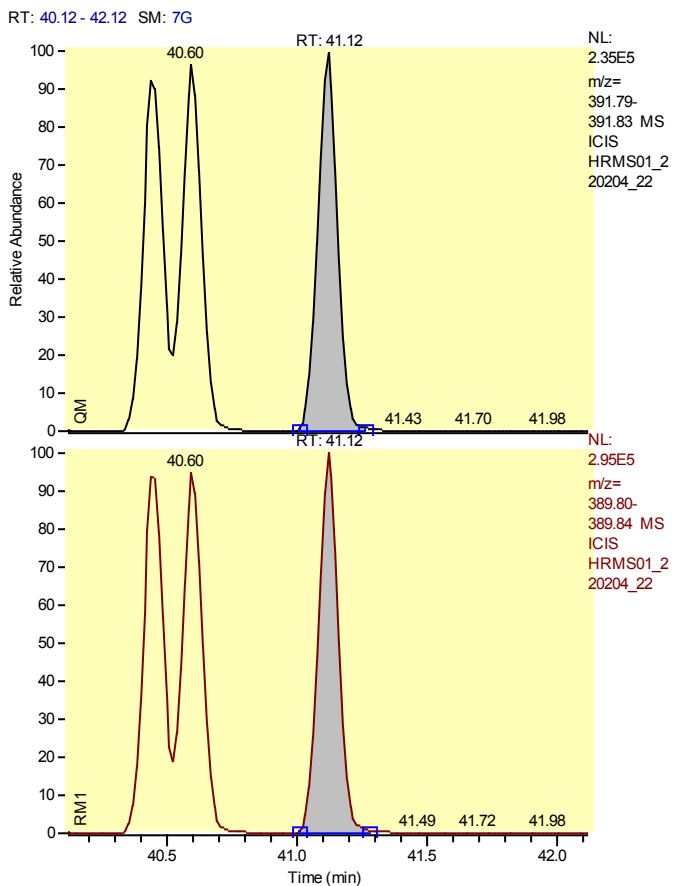
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

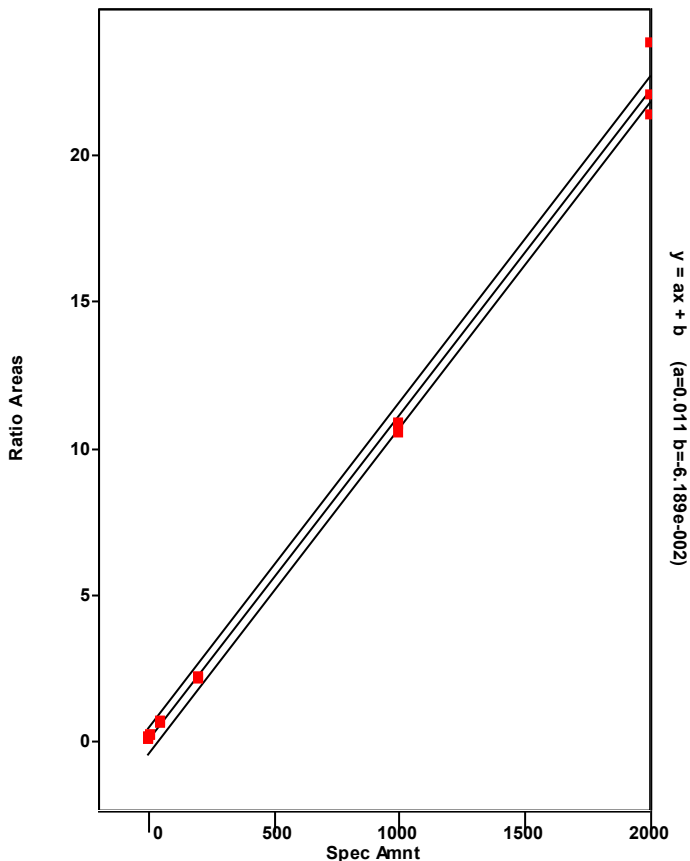


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1234007
RM1 Area	1562603
RM1 Ratio (A)	1.2663
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

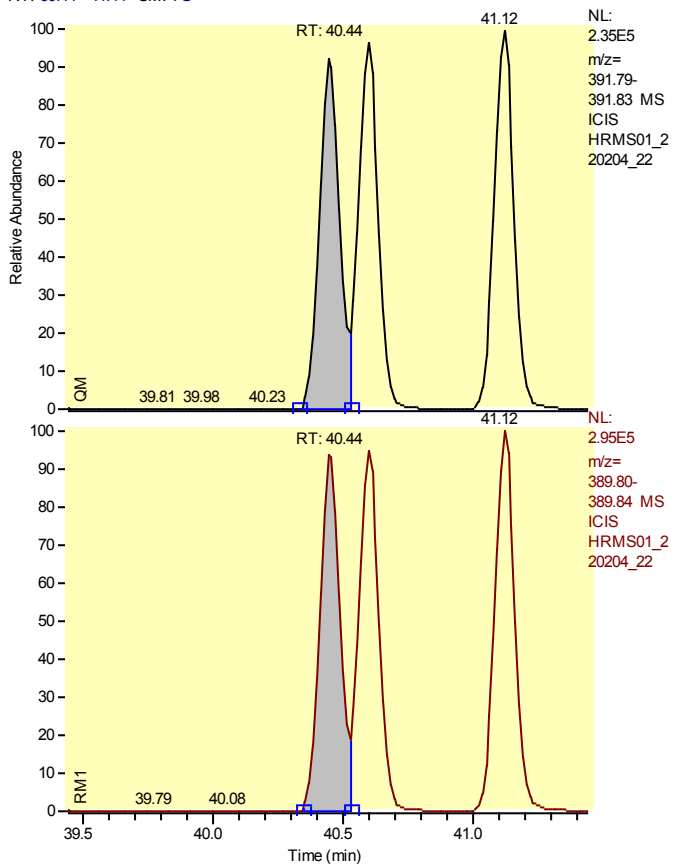
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.44 - 41.44 SM: 7G

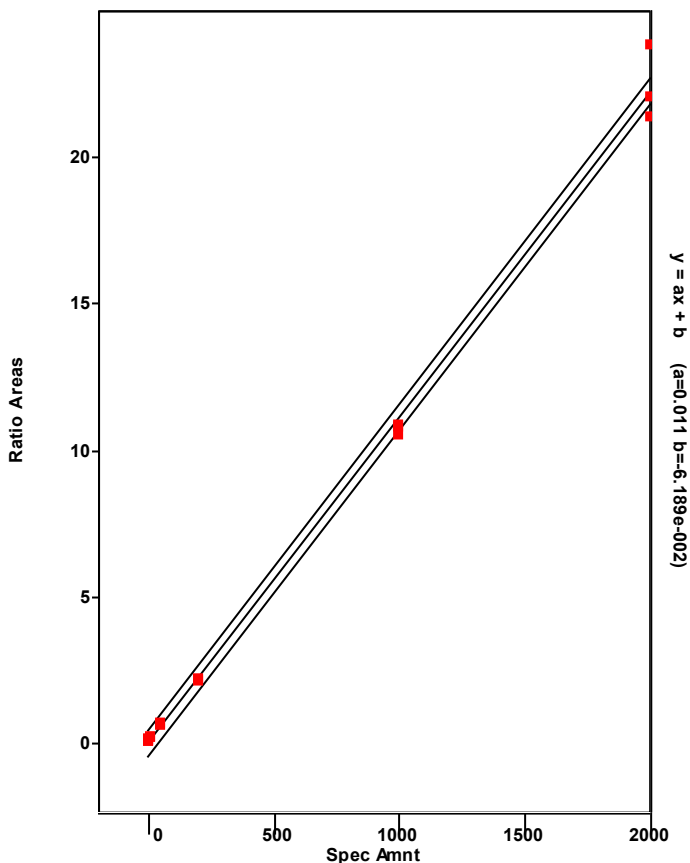


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1165838
RM1 Area	1485063
RM1 Ratio (A)	1.2738
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

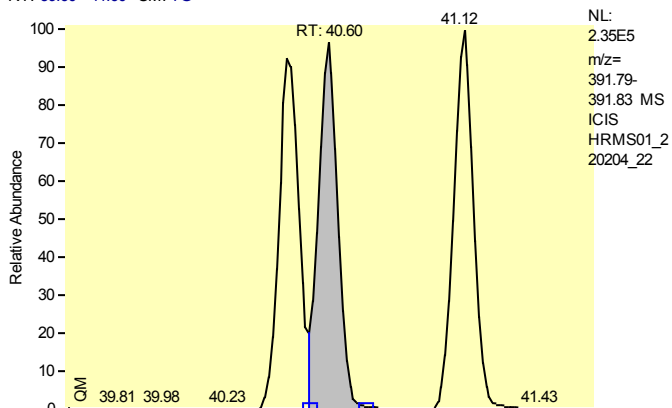
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



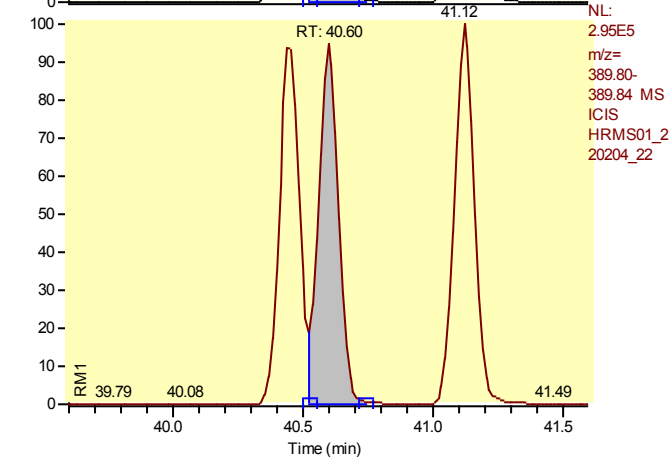
Chromatogram

Entry Parameters

RT: 39.60 - 41.60 SM: 7G



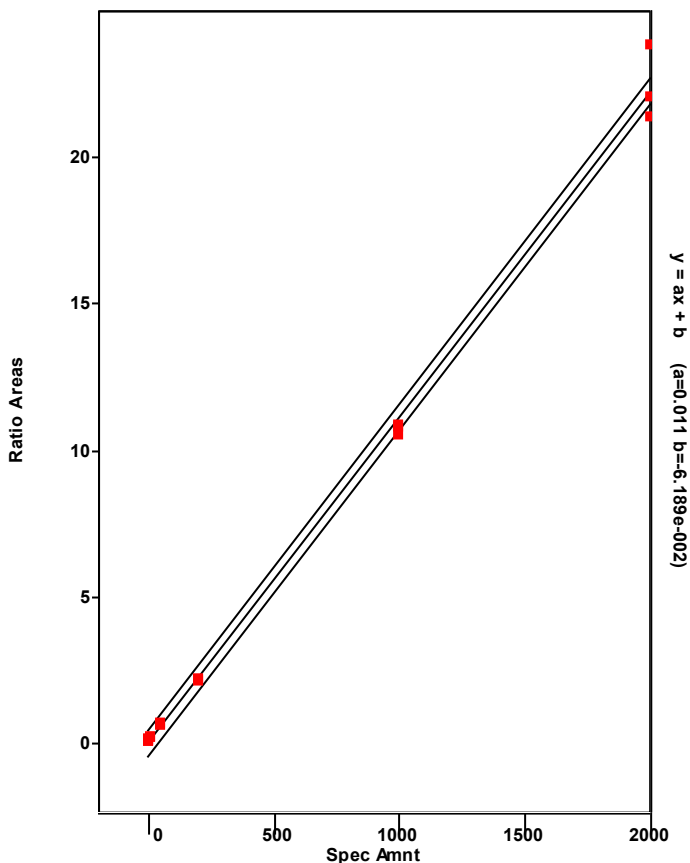
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1180442
RM1 Area	1490612
RM1 Ratio (A)	1.2628
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

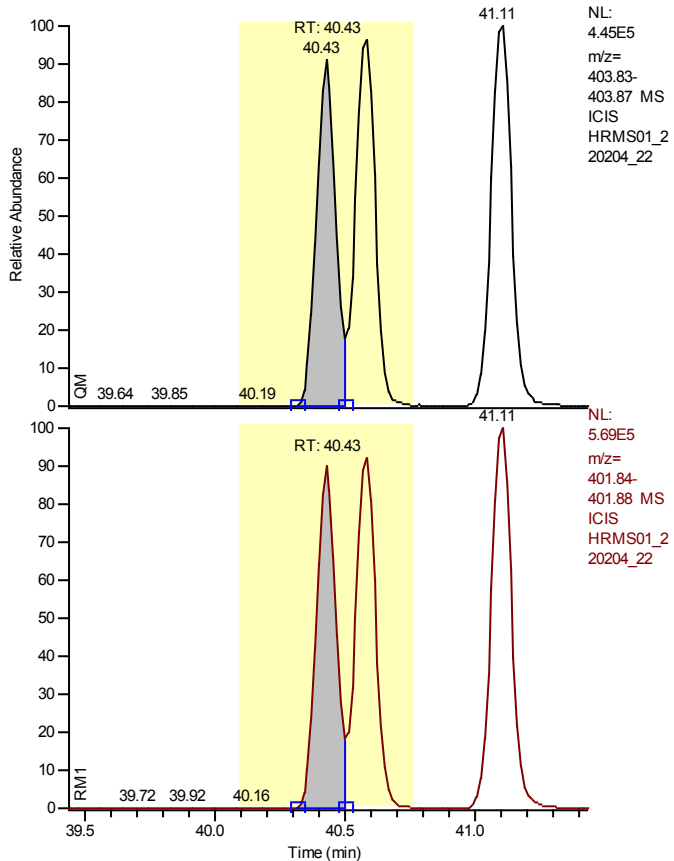
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

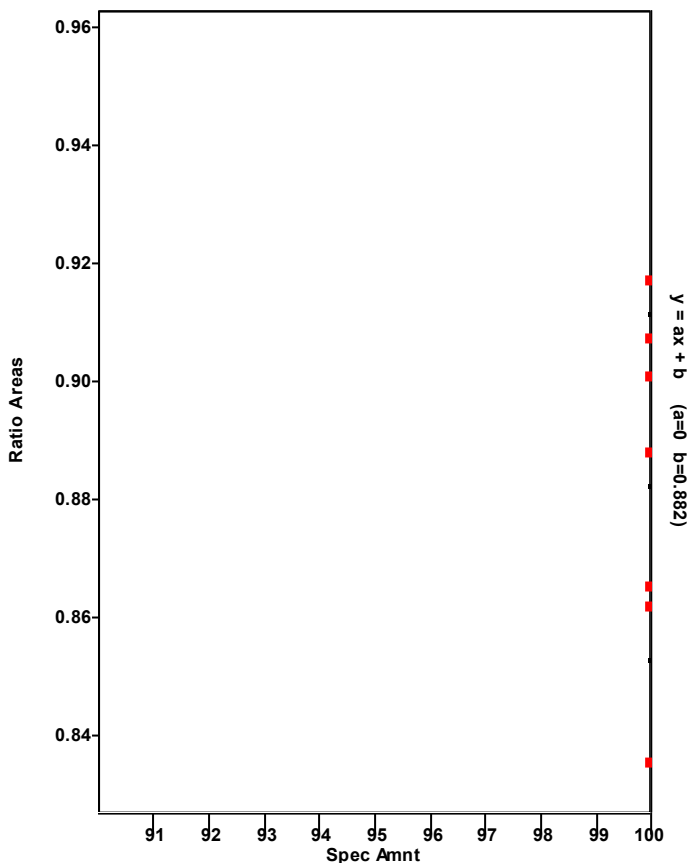
RT: 39.44 - 41.44 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2088727
RM1 Area	2669646
RM1 Ratio (A)	1.2781
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

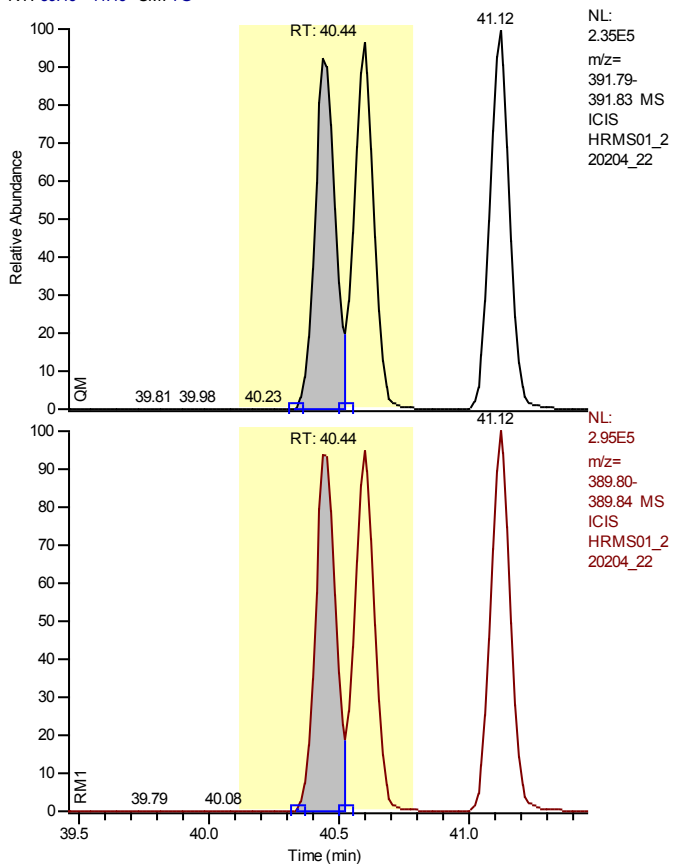
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.46 - 41.46 SM: 7G

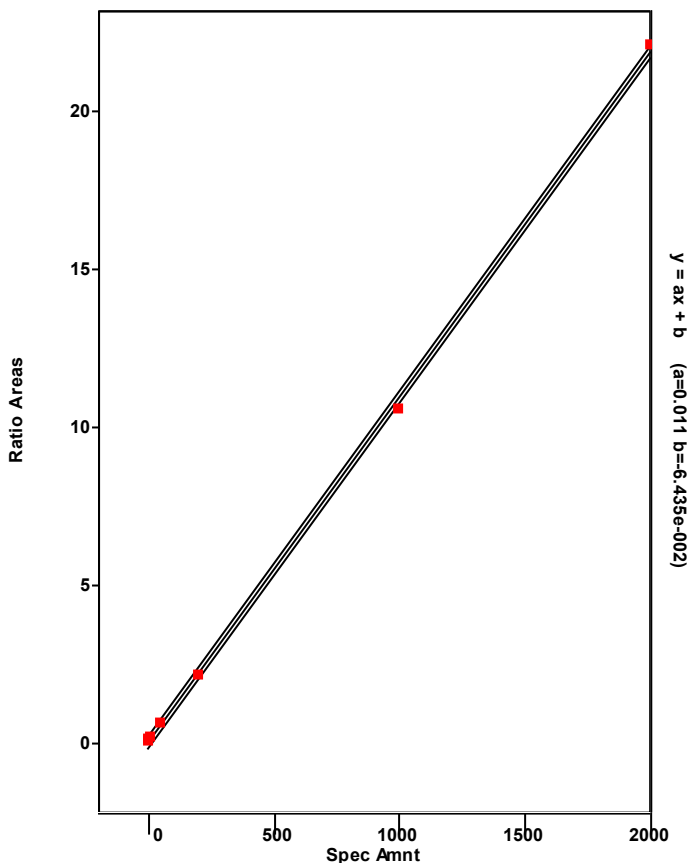


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	1165838
RM1 Area	1485063
RM1 Ratio (A)	1.2738
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

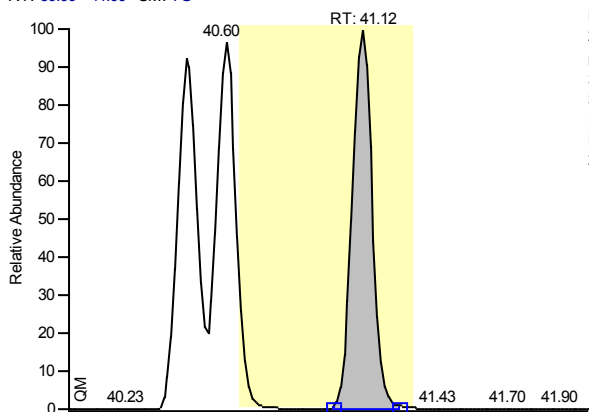
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

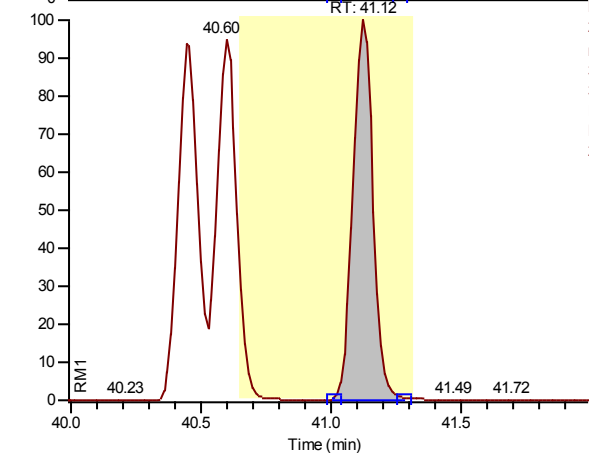
Entry Parameters

RT: 39.99 - 41.99 SM: 7G



NL:
 2.35E5
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	1234007
RM1 Area	1562603
RM1 Ratio (A)	1.2663
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

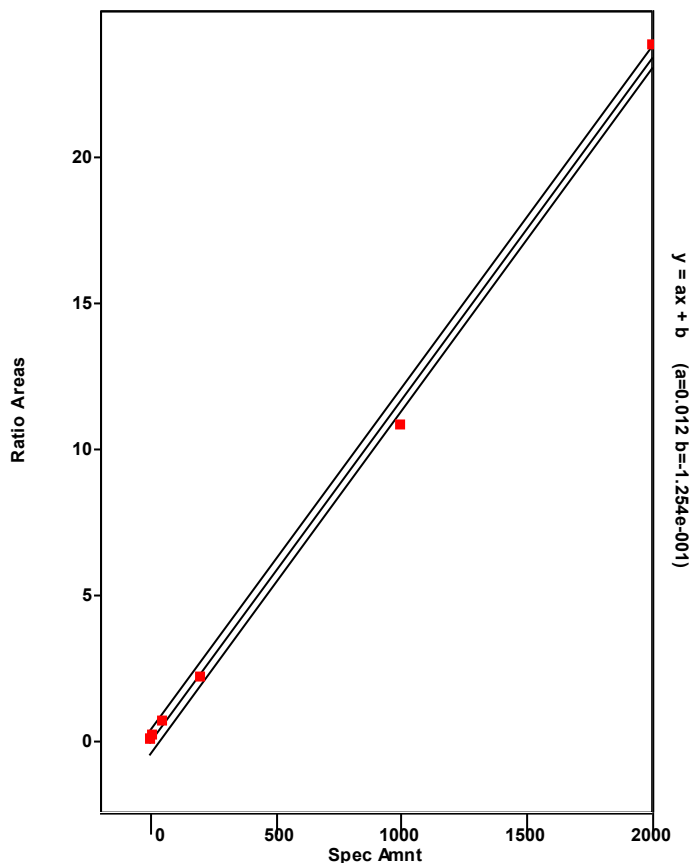


NL:
 2.95E5
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

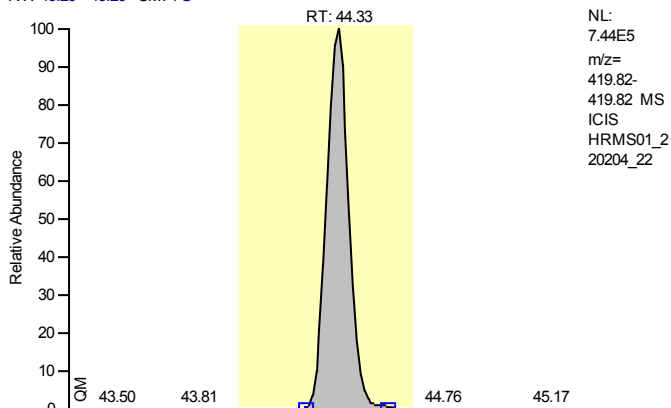
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



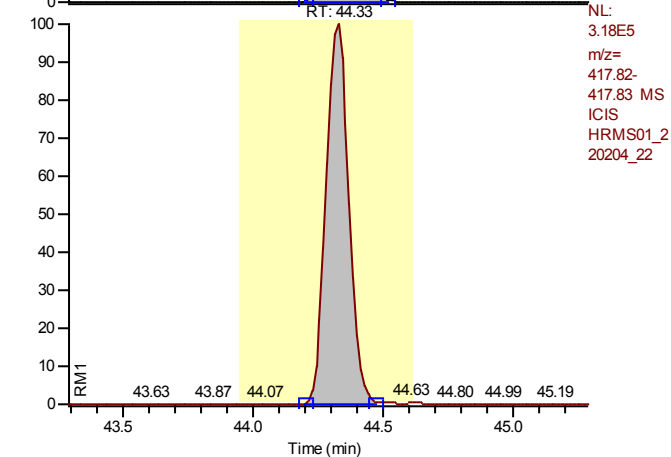
Chromatogram

Entry Parameters

RT: 43.29 - 45.29 SM: 7G

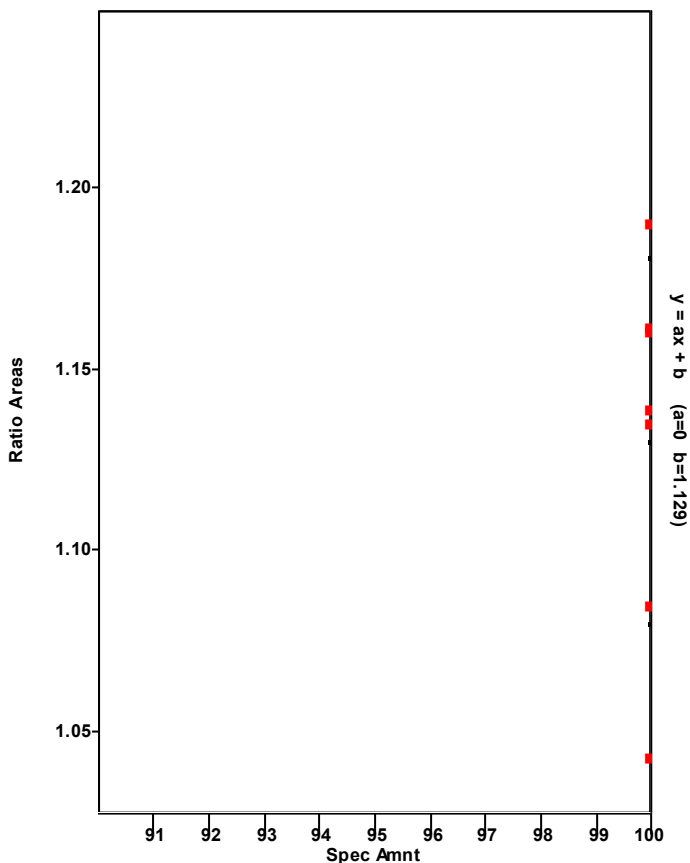


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4460571
RM1 Area	1948887
RM1 Ratio (A)	0.4369
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

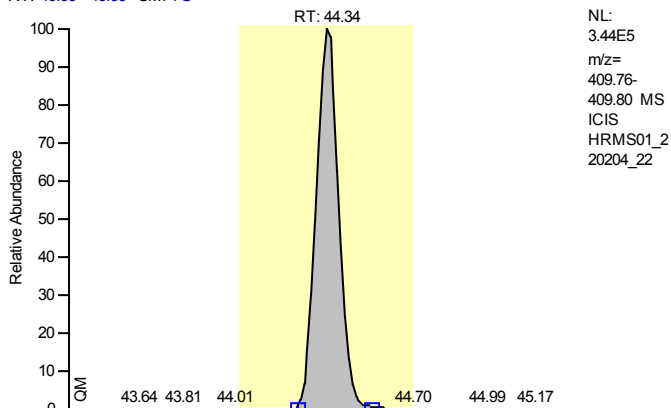
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



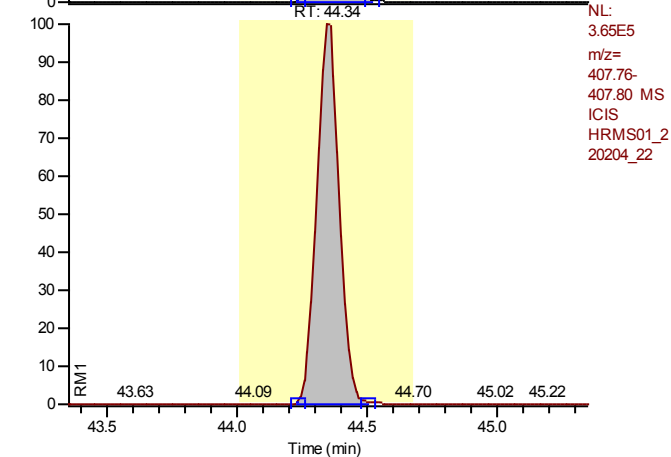
Chromatogram

Entry Parameters

RT: 43.35 - 45.35 SM: 7G



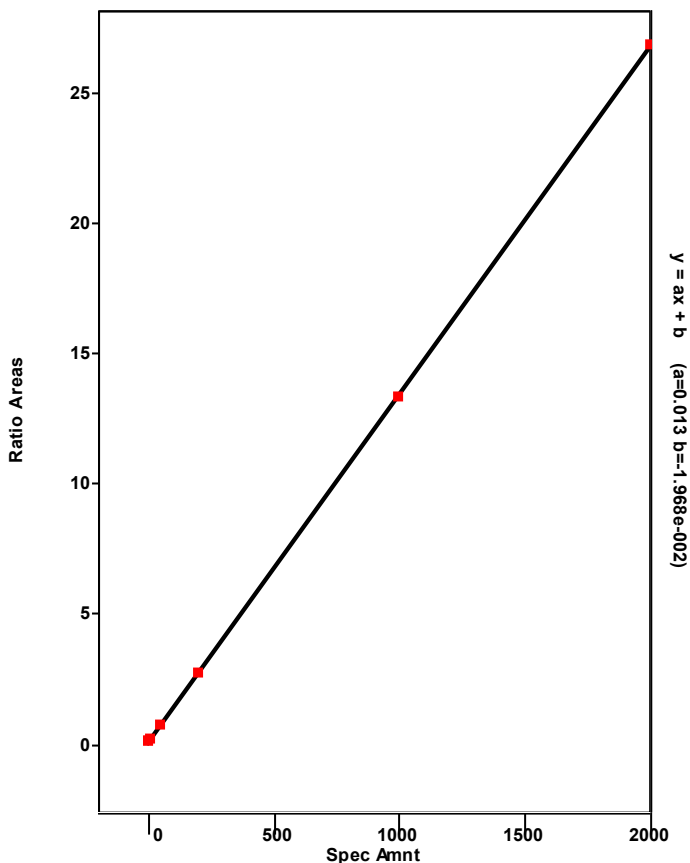
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	2083798
RM1 Area	2205521
RM1 Ratio (A)	1.0584
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

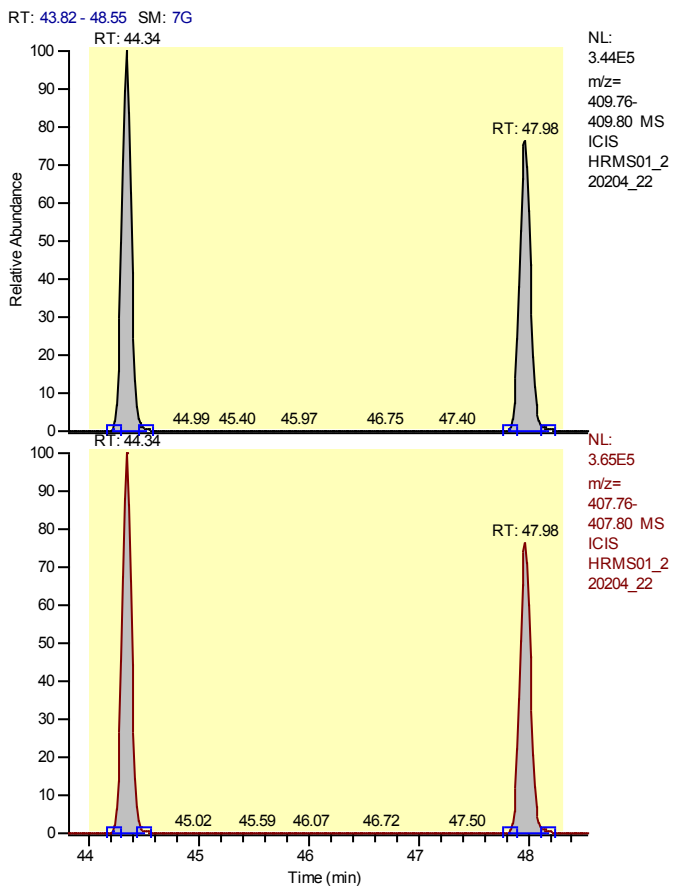
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

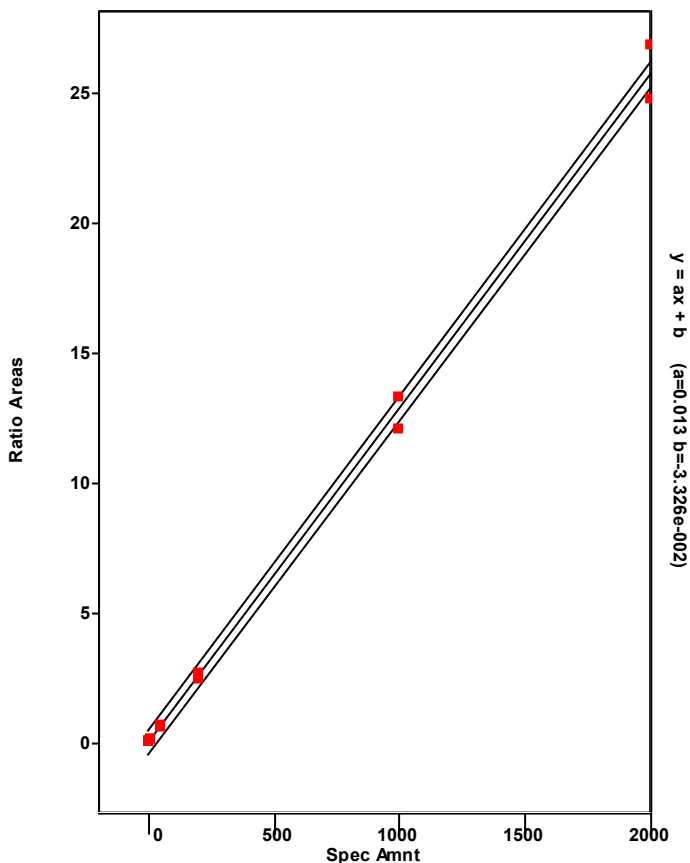


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	3895871
RM1 Area	4116377
RM1 Ratio (A)	1.0566
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	100.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

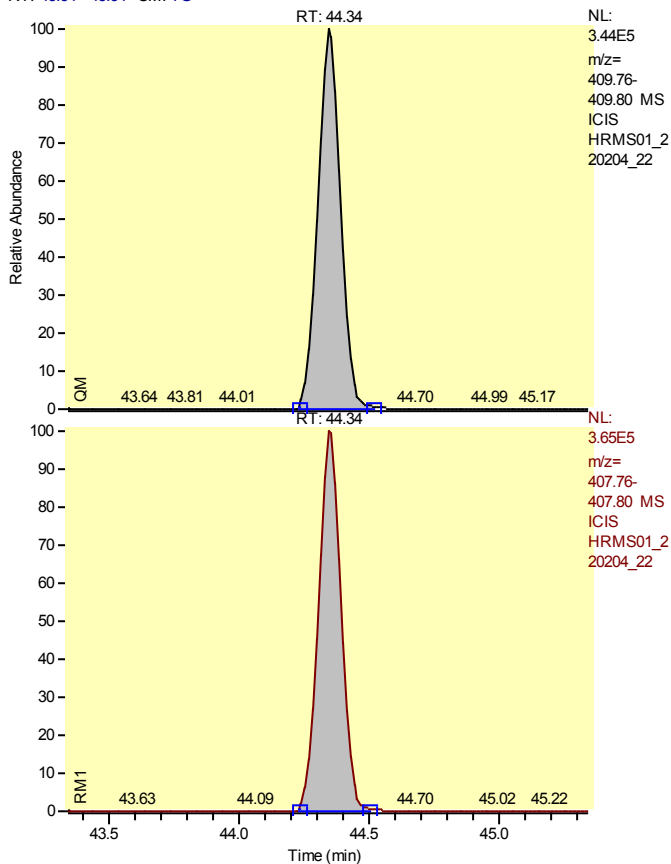
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.34 - 45.34 SM: 7G

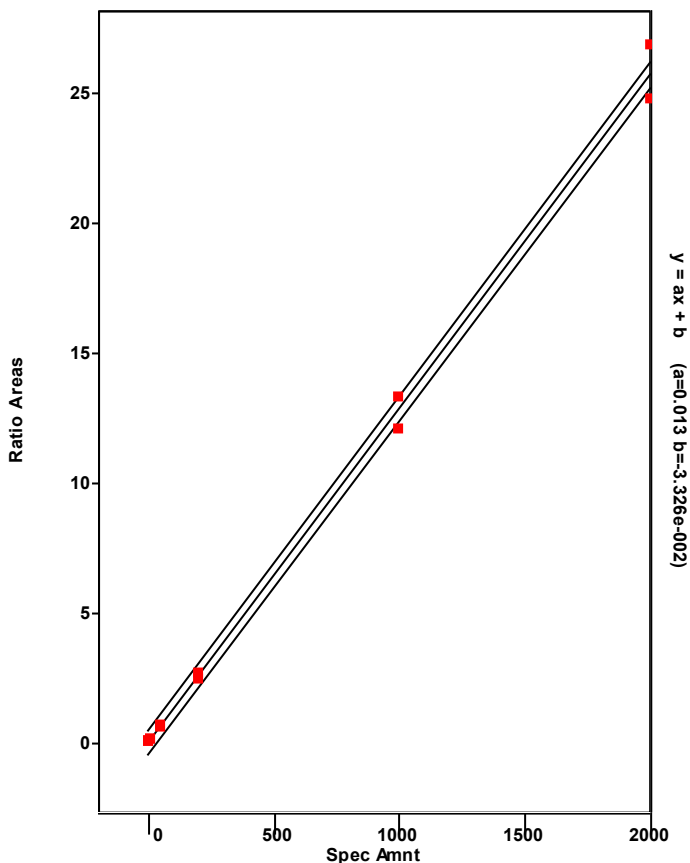


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	2083798
RM1 Area	2205521
RM1 Ratio (A)	1.0584
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

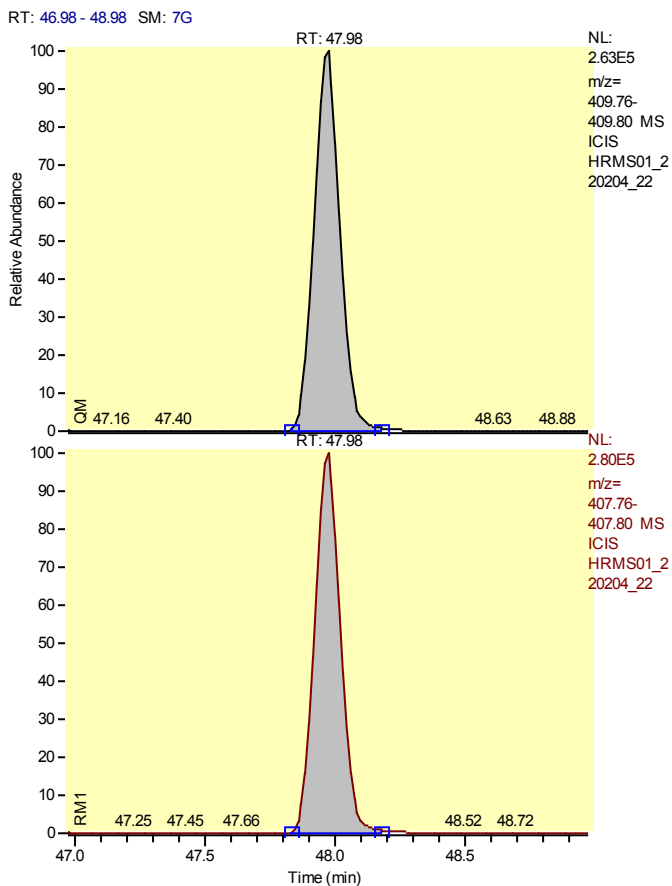
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

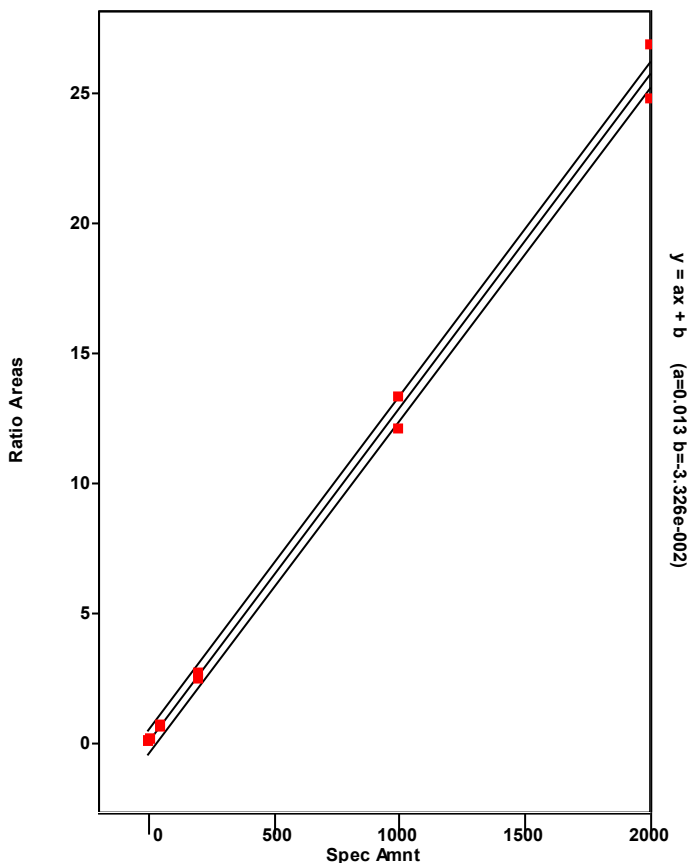


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1812073
RM1 Area	1910856
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

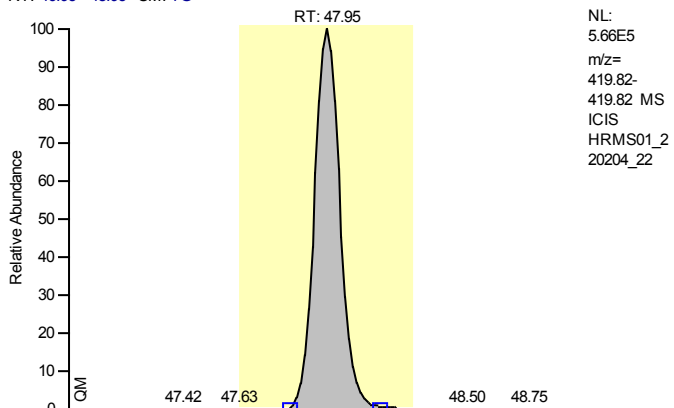
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



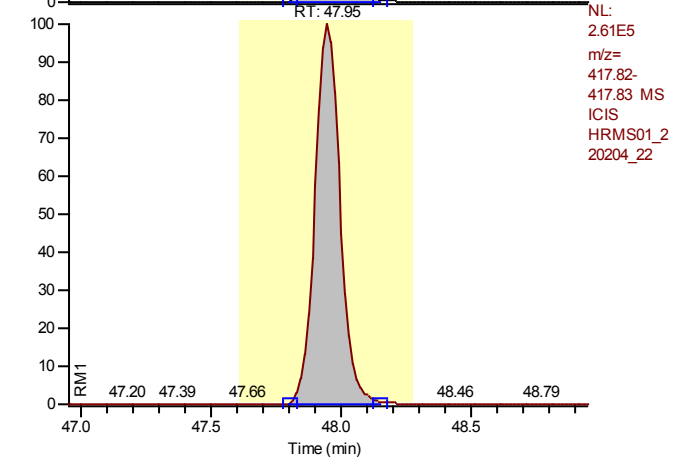
Chromatogram

Entry Parameters

RT: 46.95 - 48.95 SM: 7G

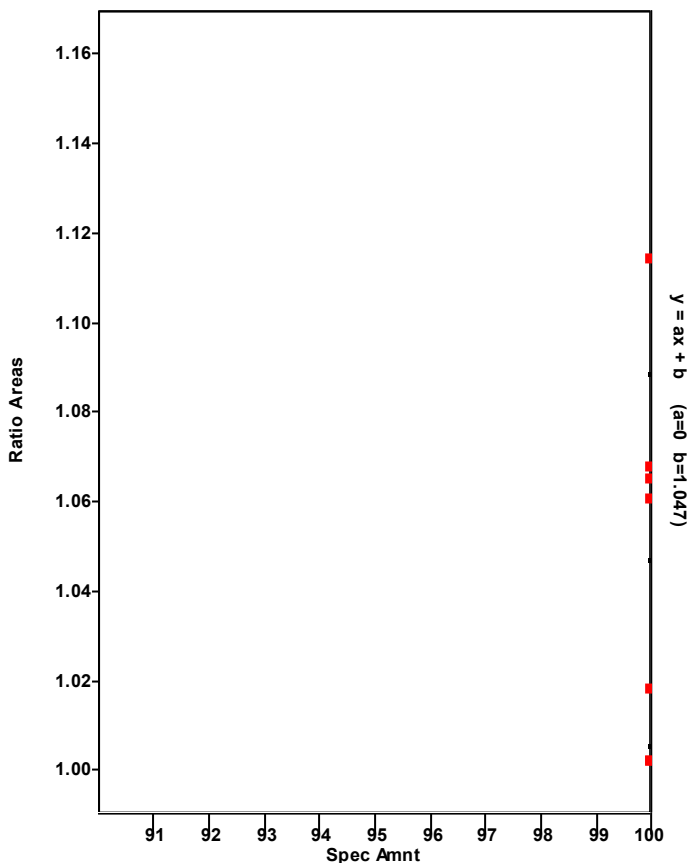


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	3872407
RM1 Area	1750127
RM1 Ratio (A)	0.4519
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

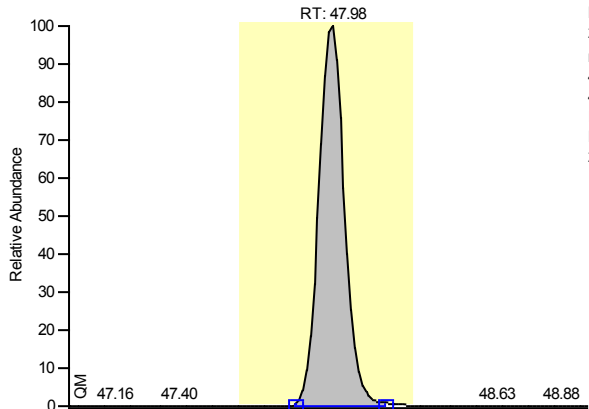
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

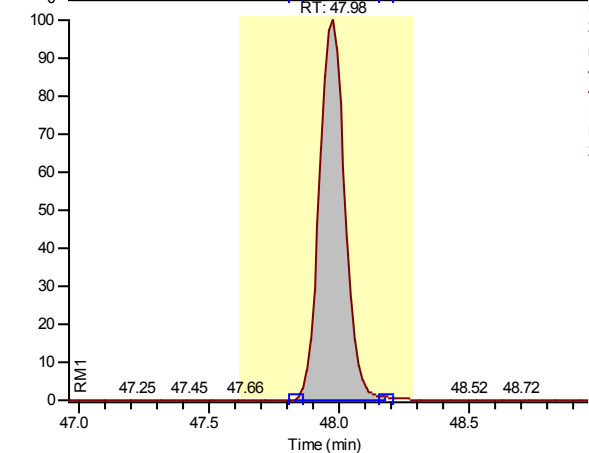
Entry Parameters

RT: 46.96 - 48.96 SM: 7G



NL:
 2.63E5
 m/z=
 409.76-
 409.80 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	1812073
RM1 Area	1910856
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	

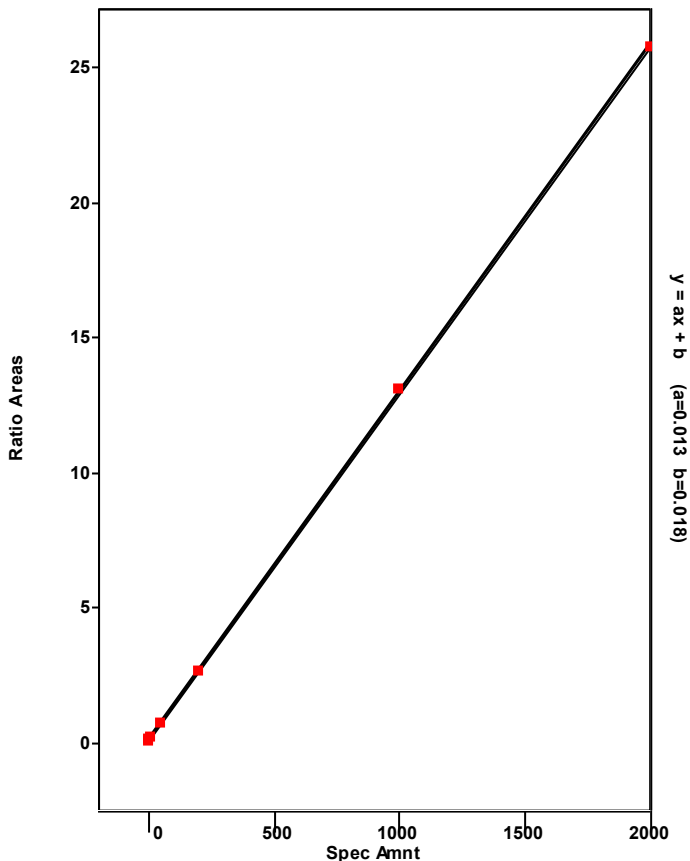


NL:
 2.80E5
 m/z=
 407.76-
 407.80 MS
 ICIS
 HRMS01_2
 20204_22

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

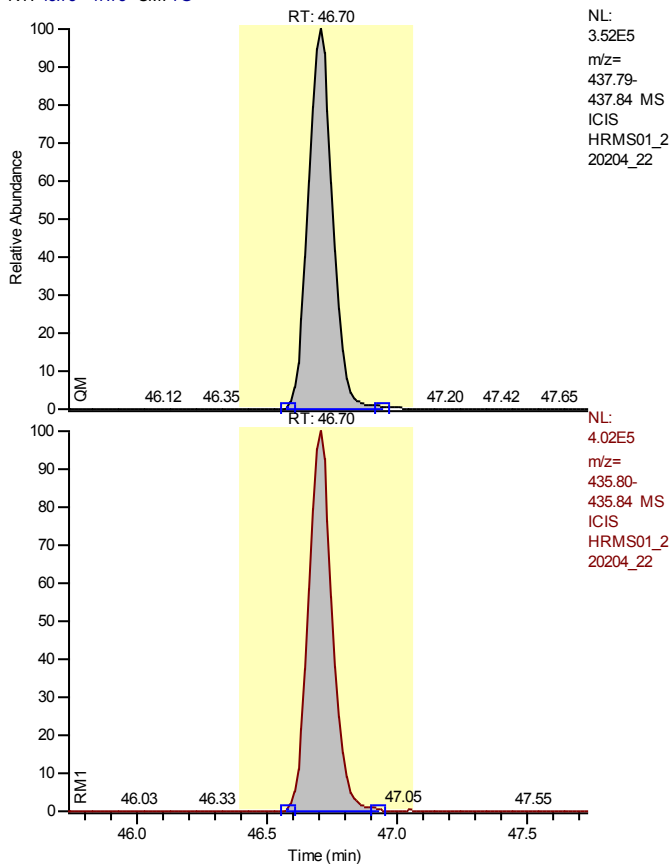
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

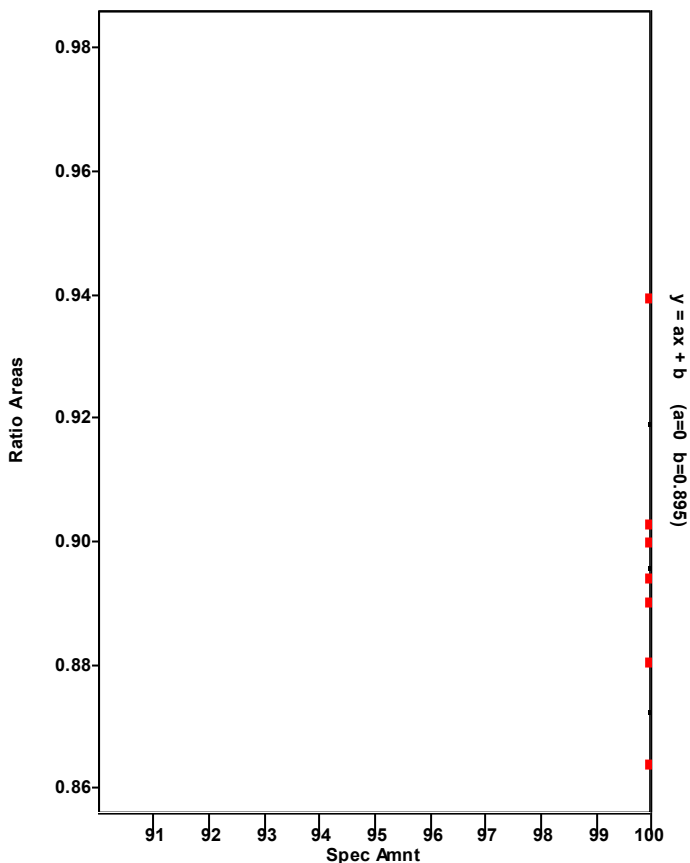
RT: 45.73 - 47.73 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2298813
RM1 Area	2562791
RM1 Ratio (A)	1.1148
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

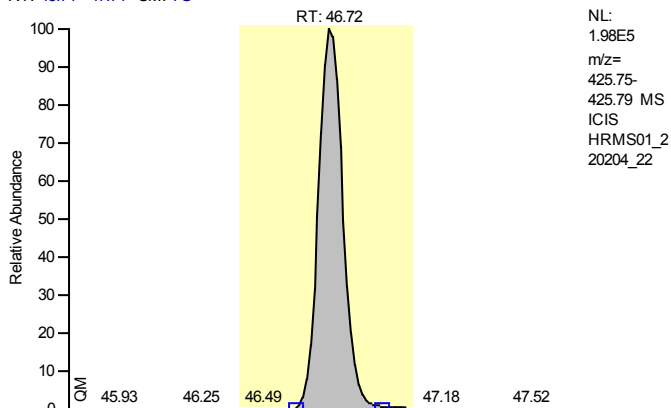
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



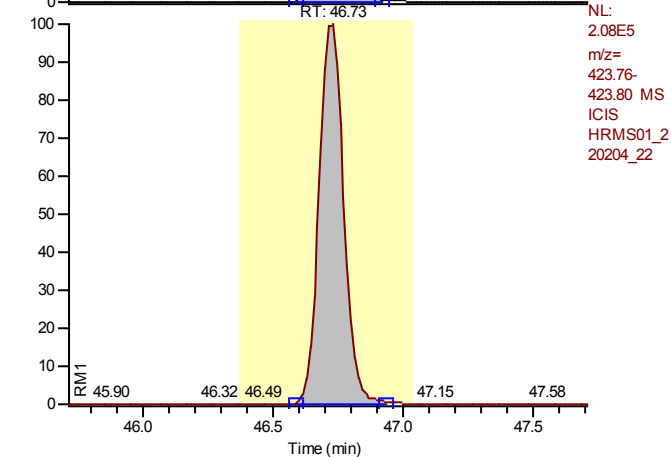
Chromatogram

Entry Parameters

RT: 45.71 - 47.71 SM: 7G



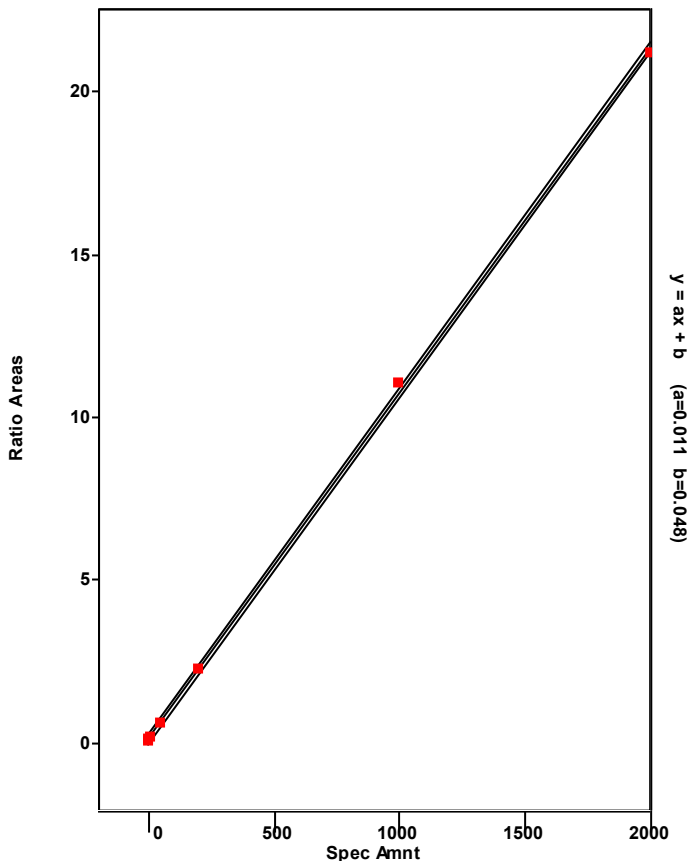
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1297354
RM1 Area	1374854
RM1 Ratio (A)	1.0597
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

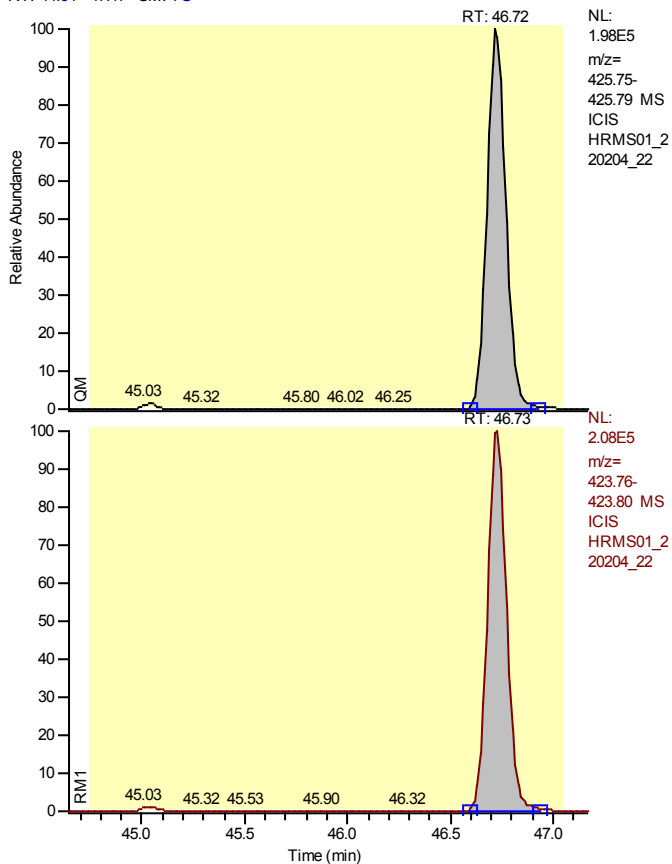
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.64 - 47.17 SM: 7G

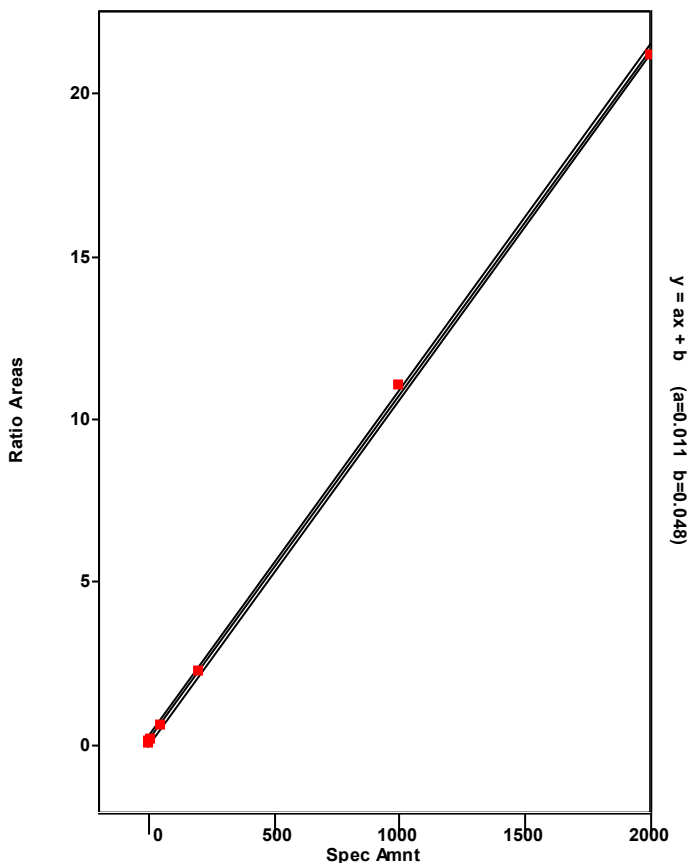


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	1297354
RM1 Area	1374854
RM1 Ratio (A)	1.0597
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

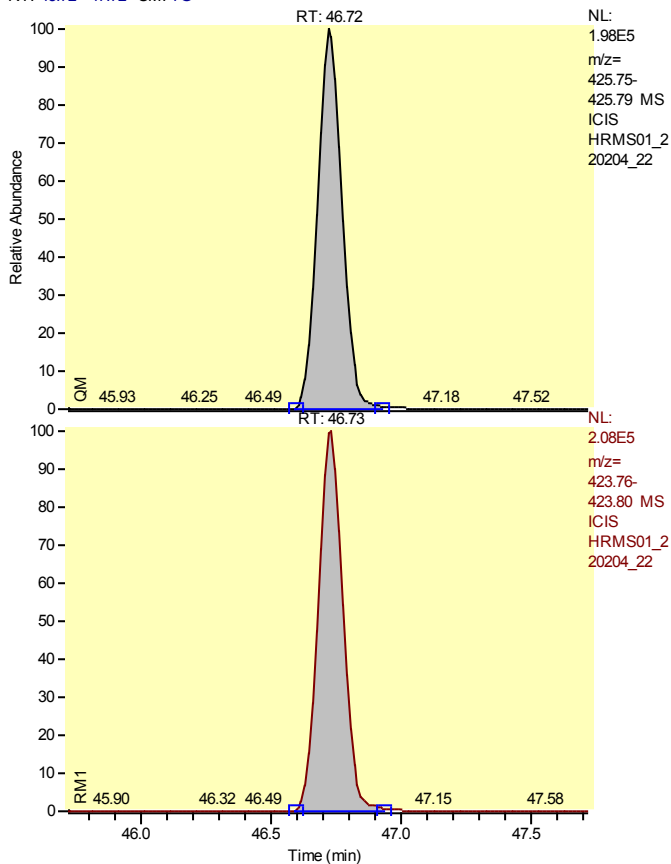
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.72 - 47.72 SM: 7G

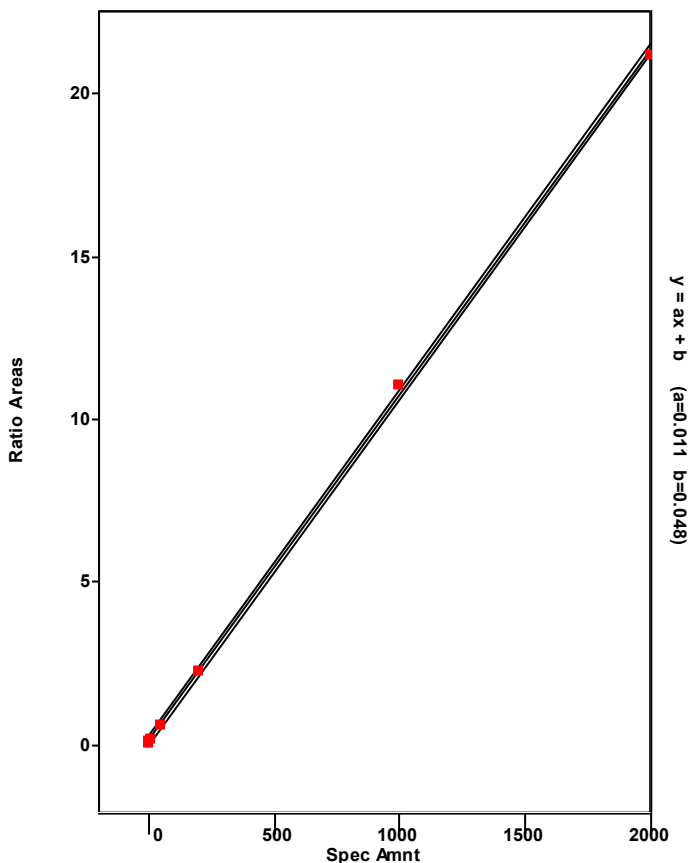


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1297354
RM1 Area	1374854
RM1 Ratio (A)	1.0597
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

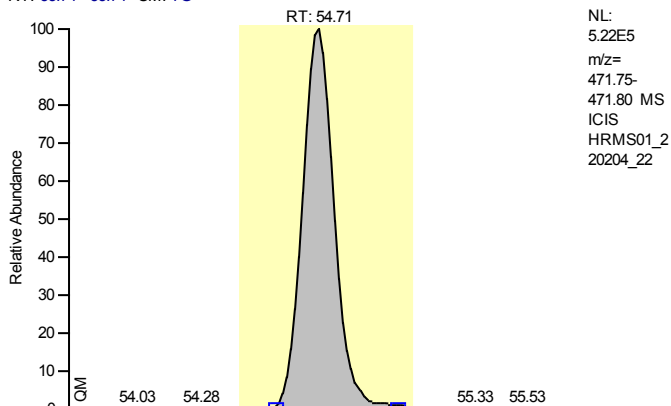
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



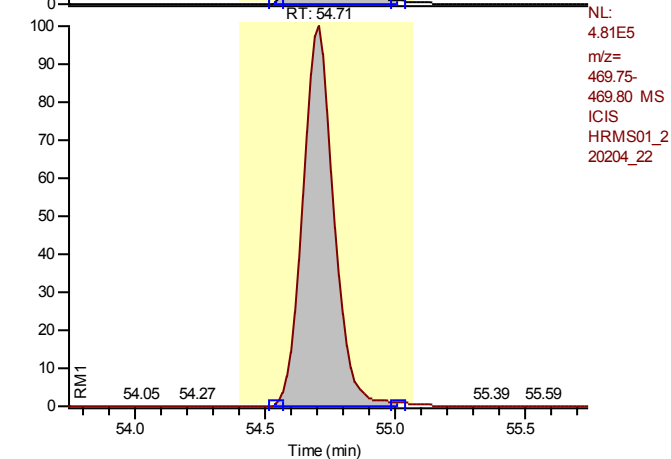
Chromatogram

Entry Parameters

RT: 53.74 - 55.74 SM: 7G



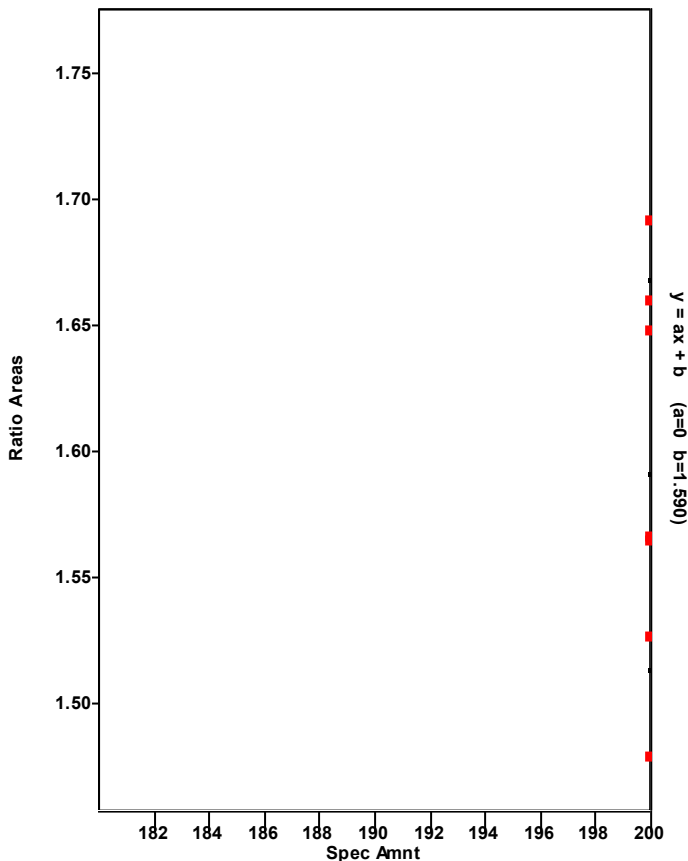
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4439135
RM1 Area	3988524
RM1 Ratio (A)	0.8985
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

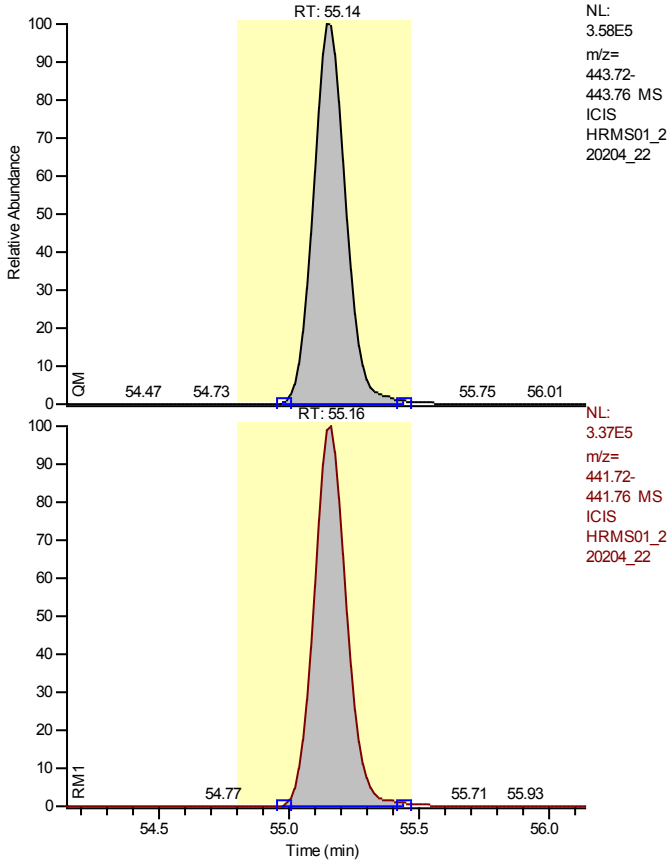
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.14 - 56.14 SM: 7G



NL:
 3.58E5
 m/z=
 443.72-
 443.76 MS
 ICIS
 HRMS01_2
 20204_22

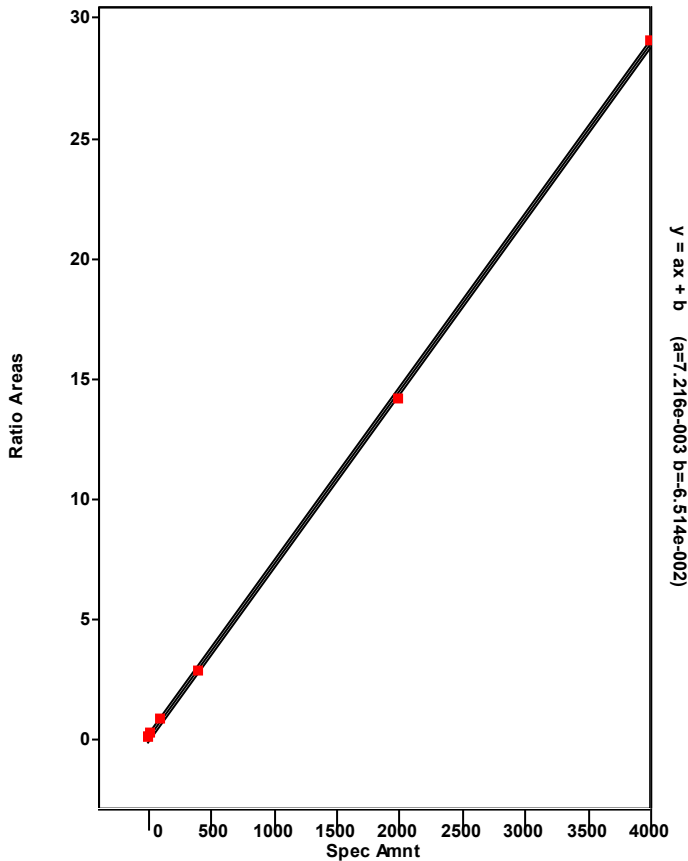
NL:
 3.37E5
 m/z=
 441.72-
 441.76 MS
 ICIS
 HRMS01_2
 20204_22

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	3117111
RM1 Area	2919509
RM1 Ratio (A)	0.9366
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0300
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

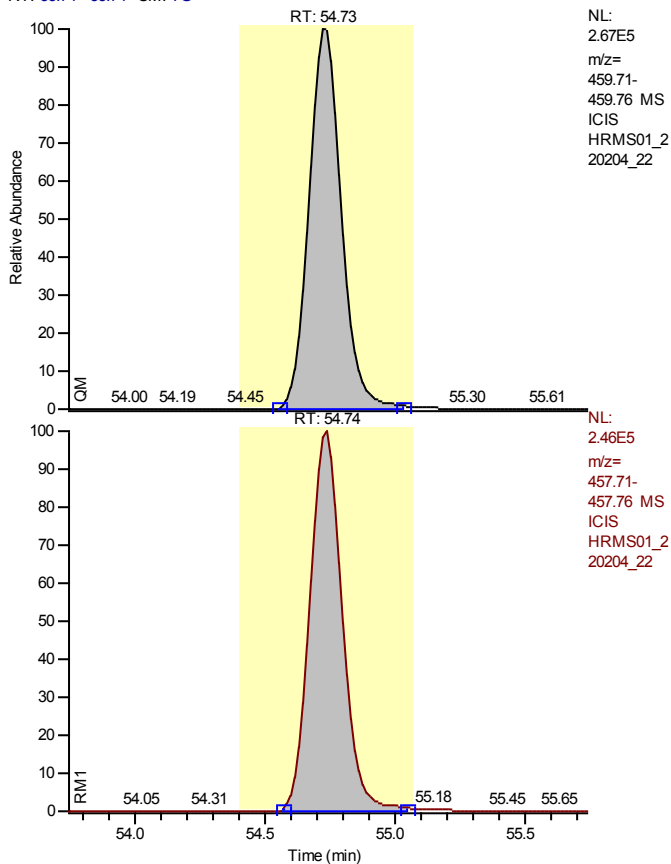
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.74 - 55.74 SM: 7G



NL:
2.67E5
m/z=
459.71-
459.76 MS
ICIS
HRMS01_2
20204_22

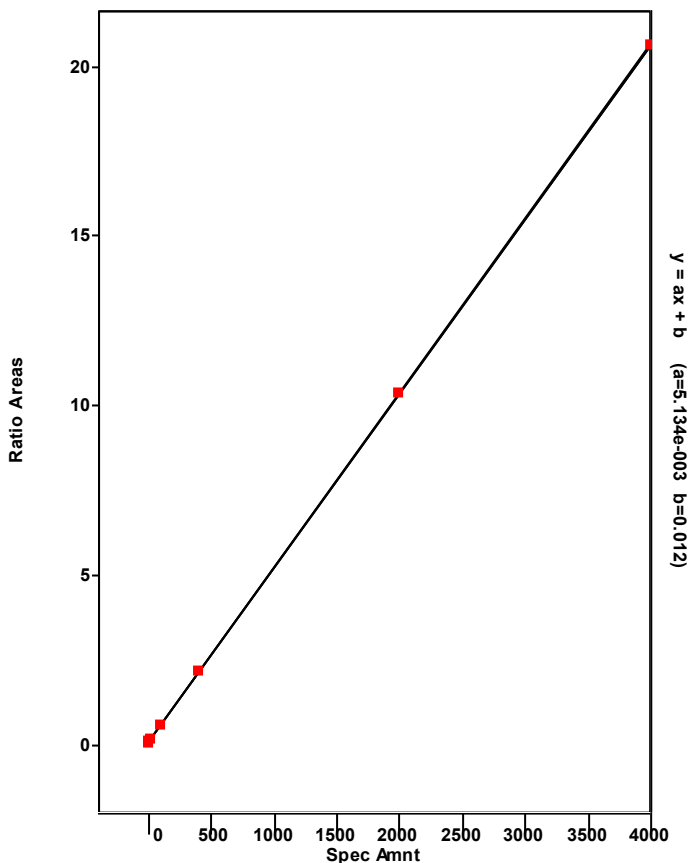
NL:
2.46E5
m/z=
457.71-
457.76 MS
ICIS
HRMS01_2
20204_22

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	2315284
RM1 Area	2123197
RM1 Ratio (A)	0.9170
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0300
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

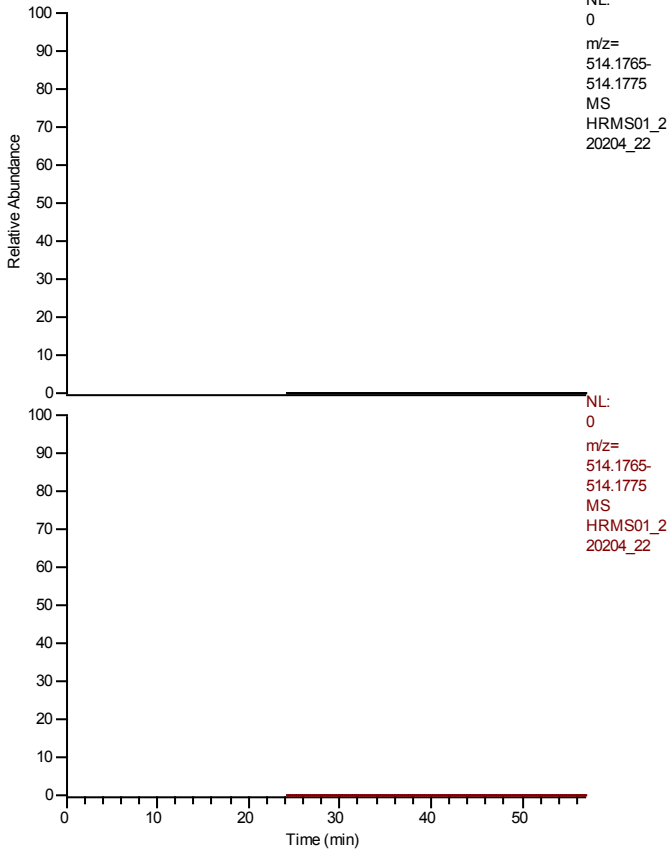
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.01 SM: 5G

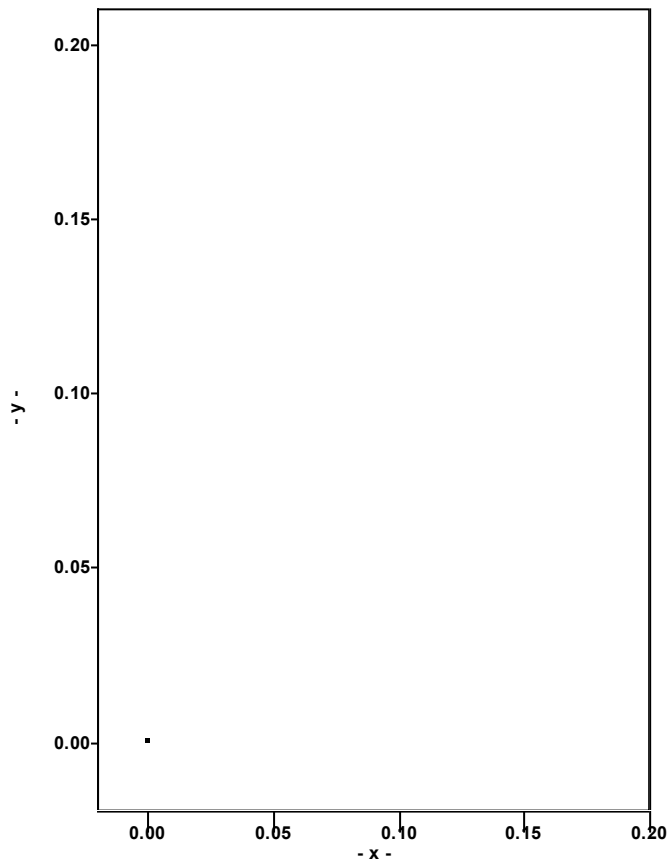


Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	25286139
RM1 Area	29537846
RM1 Ratio (A)	1.1681
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	870.00
Percent Recovery (A)	---
TEQ (A)	114.0600
Label2	

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_22

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 06:28
Number of Entries	59
Comment	HRMS200402D
Vial	8
Sample Name	IA1613STD-40
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_24_seq
Data	hrms01_220204_24
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

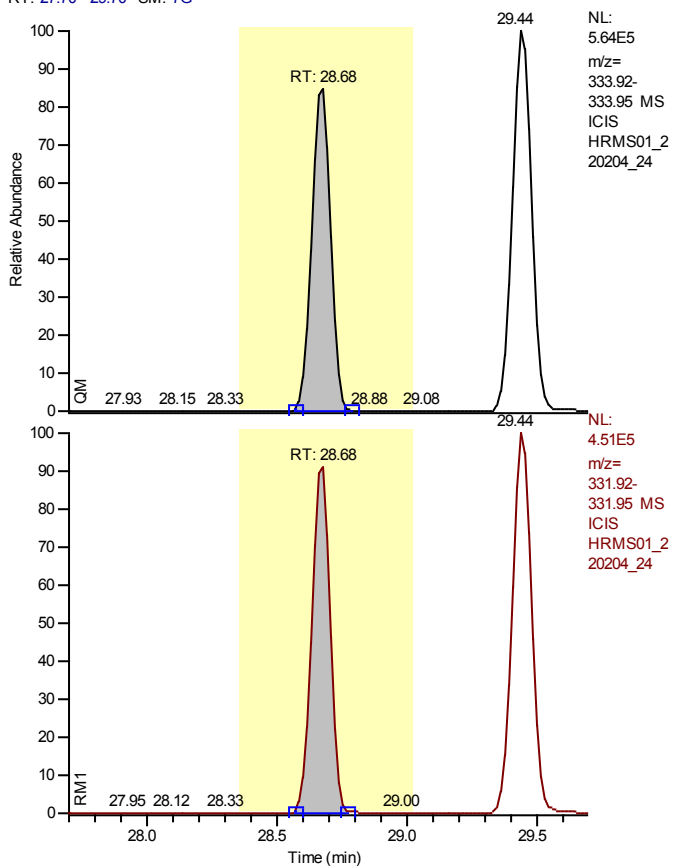
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2405737	2011559	0.8362	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		4016139	3073618	0.7653	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	1580405	1216796	0.7699	0.6500 - 0.8900	40.00	40.00	100	4.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	1580405	1216796	0.7699	0.6500 - 0.8900	40.00	40.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	1580405	1216796	0.7699	0.6500 - 0.8900	40.00	40.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		2871532	2306961	0.8034	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	1266931	978517	0.7724	0.6500 - 0.8900	40.00	40.00	100	40.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	1266931	978517	0.7724	0.6500 - 0.8900	40.00	40.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	1266931	978517	0.7724	0.6500 - 0.8900	40.00	40.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2507806	4015649	1.6013	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	5011474	7835488	1.5635	1.3200 - 1.7800	200.00	200.00	100	6.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	10714156	16686803	1.5575	1.3200 - 1.7800	200.00	400.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	5702682	8851315	1.5521	1.3200 - 1.7800	200.00	200.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	5011474	7835488	1.5635	1.3200 - 1.7800	200.00	200.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2581933	4141626	1.6041	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	5702682	8851315	1.5521	1.3200 - 1.7800	200.00	200.00	100	60.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1872891	2854542	1.5241	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	3542922	5465481	1.5426	1.3200 - 1.7800	200.00	200.00	100	200.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	3542922	5465481	1.5426	1.3200 - 1.7800	200.00	200.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	3542922	5465481	1.5426	1.3200 - 1.7800	200.00	200.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		2122342	2122342	1.0000	0.8500 - 1.1500	40.00	40.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2494487	3132663	1.2558	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		4261028	2231647	0.5237	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	6818610	8353781	1.2251	1.0500 - 1.4300	200.00	200.00	100	20.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	29035066	36126048	1.2442	1.0500 - 1.4300	200.00	800.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	8133299	10162098	1.2494	1.0500 - 1.4300	200.00	200.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	6818610	8353781	1.2251	1.0500 - 1.4300	200.00	200.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	7397869	9259967	1.2517	1.0500 - 1.4300	200.00	200.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	6685288	8350203	1.2490	1.0500 - 1.4300	200.00	200.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		5090555	2631428	0.5169	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	8133299	10162098	1.2494	1.0500 - 1.4300	200.00	200.00	100	20.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		4566086	2495830	0.5466	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	7397869	9259967	1.2517	1.0500 - 1.4300	200.00	200.00	100	20.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		4253494	2249118	0.5288	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	6685288	8350203	1.2490	1.0500 - 1.4300	200.00	200.00	100	20.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2283292	2818928	1.2346	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	4657907	5830381	1.2517	1.0500 - 1.4300	200.00	200.00	100	20.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	14248162	17883410	1.2551	1.0500 - 1.4300	200.00	600.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	4861435	6027717	1.2399	1.0500 - 1.4300	200.00	200.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	4657907	5830381	1.2517	1.0500 - 1.4300	200.00	200.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	4728820	6025312	1.2742	1.0500 - 1.4300	200.00	200.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2283292	2818928	1.2346	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	4657907	5830381	1.2517	1.0500 - 1.4300	200.00	200.00	100	20.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	4861435	6027717	1.2399	1.0500 - 1.4300	200.00	200.00	100	20.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4590159	2099299	0.4573	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	8534621	8992467	1.0536	0.8800 - 1.2000	200.00	200.00	100	2.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	16304918	17206034	1.0553	0.8800 - 1.2000	200.00	400.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	8534621	8992467	1.0536	0.8800 - 1.2000	200.00	200.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	7770297	8213567	1.0570	0.8800 - 1.2000	200.00	200.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		4345583	1920567	0.4420	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	7770297	8213567	1.0570	0.8800 - 1.2000	200.00	200.00	100	2.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2526011	2757178	1.0915	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	5618968	5905167	1.0509	0.8800 - 1.2000	200.00	200.00	100	2.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	5618968	5905167	1.0509	0.8800 - 1.2000	200.00	200.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	5618968	5905167	1.0509	0.8800 - 1.2000	200.00	200.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4858204	4476837	0.9215	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	13216357	12114917	0.9167	0.7600 - 1.0200	400.00	400.00	100	0.1200
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	10297698	9299990	0.9031	0.7600 - 1.0200	400.00	400.00	100	0.1200
59	overall TEQ	overall TEQ test		105754671	122688231	1.1601	0.0000 - 0.0000	0.00	3480.00	---	456.2400

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

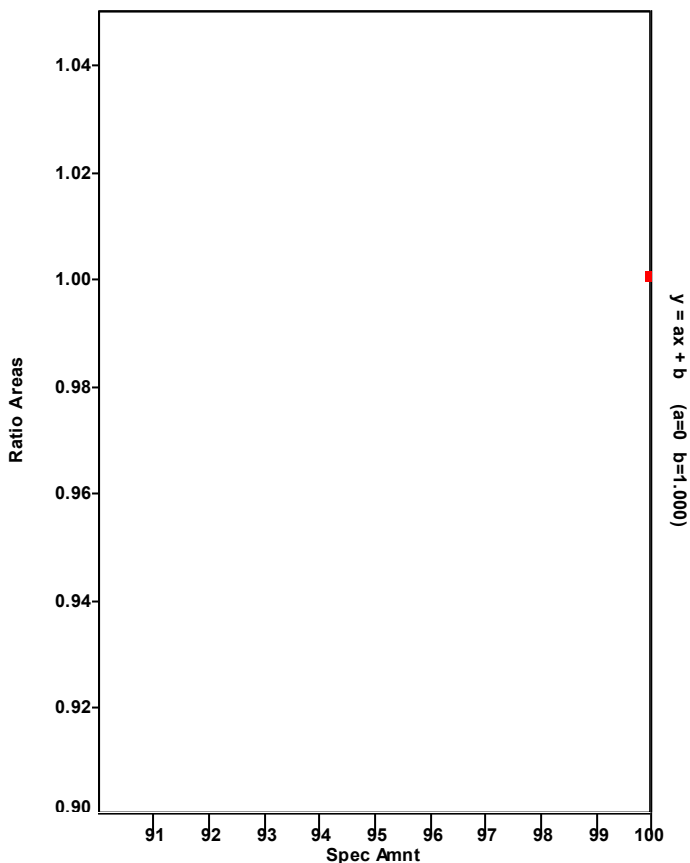


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2405737
RM1 Area	2011559
RM1 Ratio (A)	0.8362
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

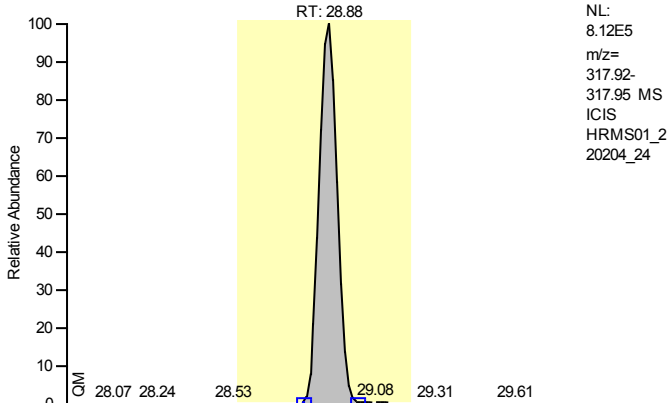
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



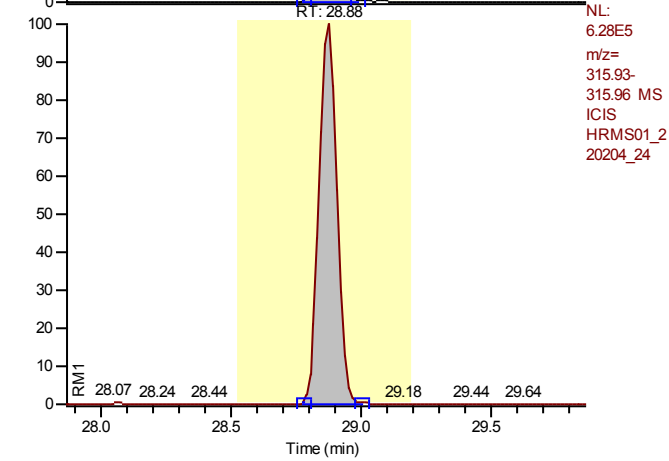
Chromatogram

Entry Parameters

RT: 27.86 - 29.86 SM: 7G



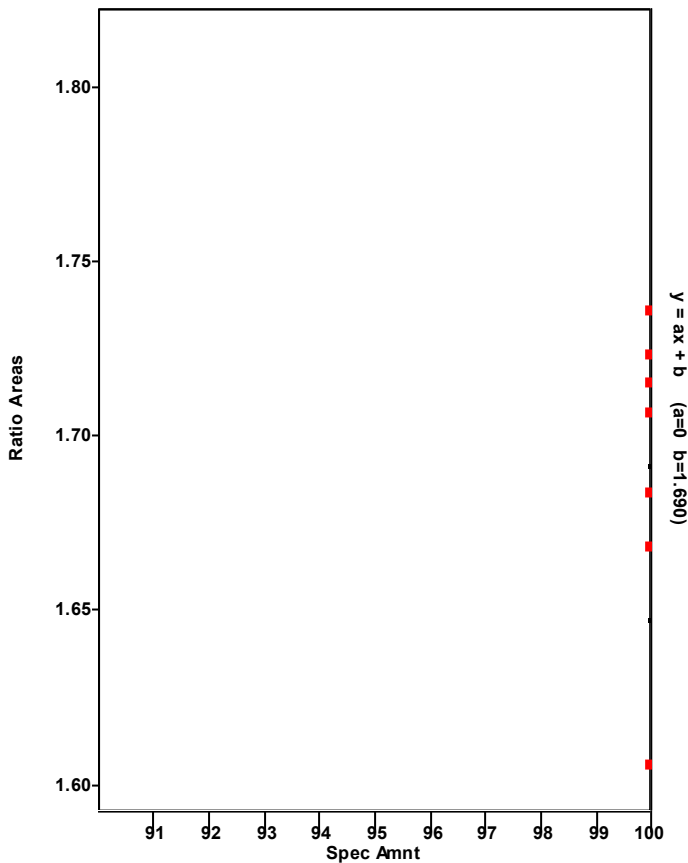
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	4016139
RM1 Area	3073618
RM1 Ratio (A)	0.7653
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

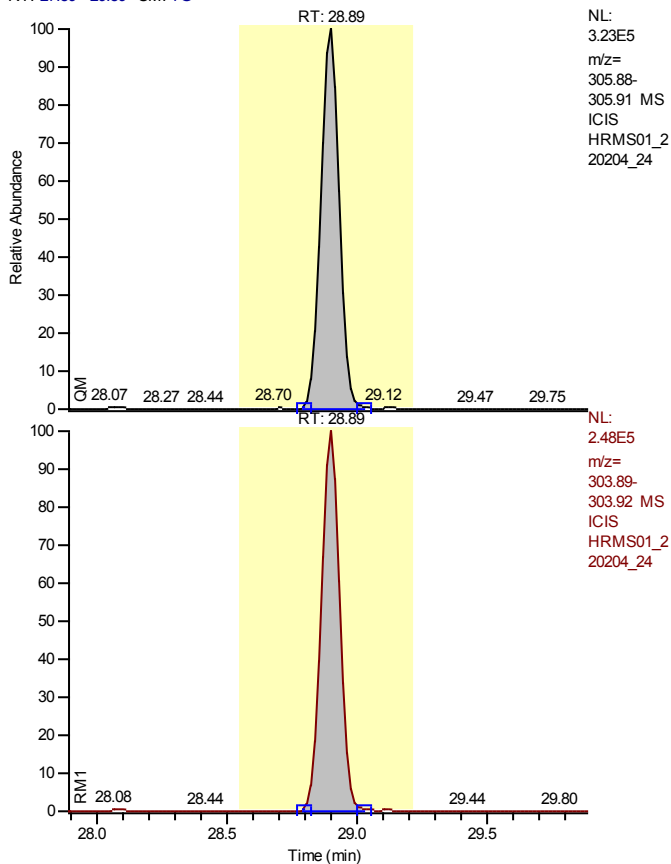
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.89 - 29.89 SM: 7G

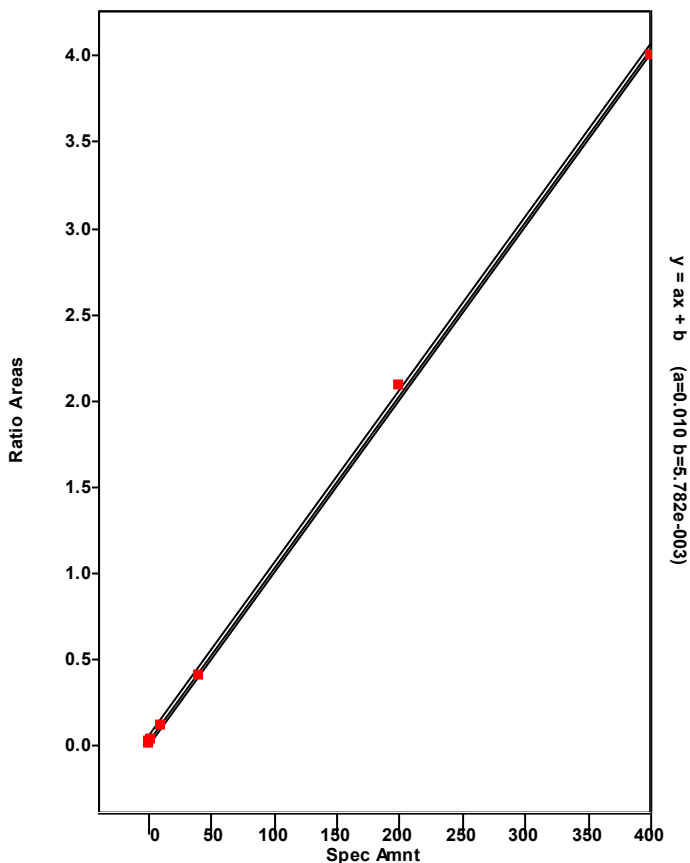


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	1580405
RM1 Area	1216796
RM1 Ratio (A)	0.7699
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	4.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

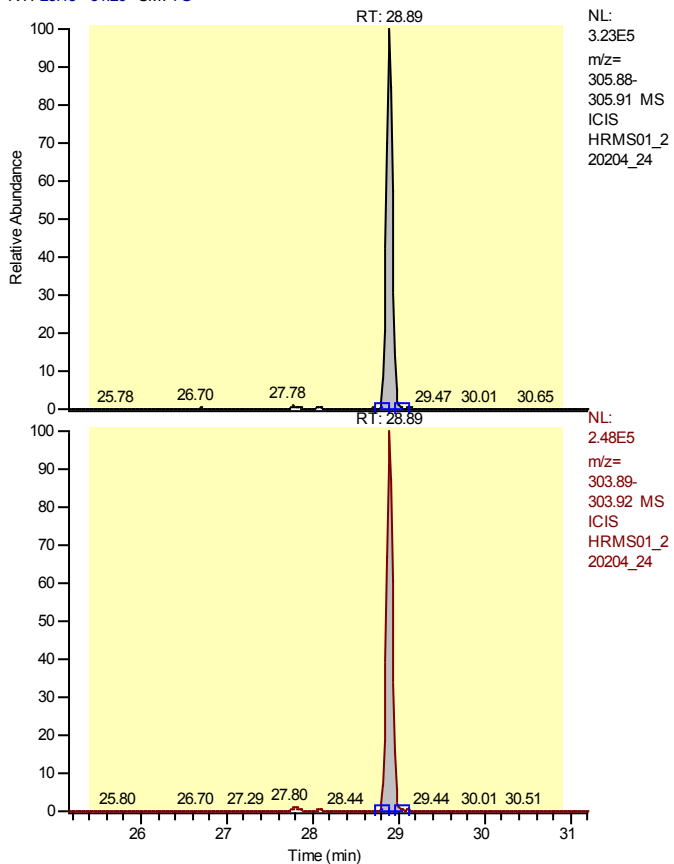
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.15 - 31.20 SM: 7G

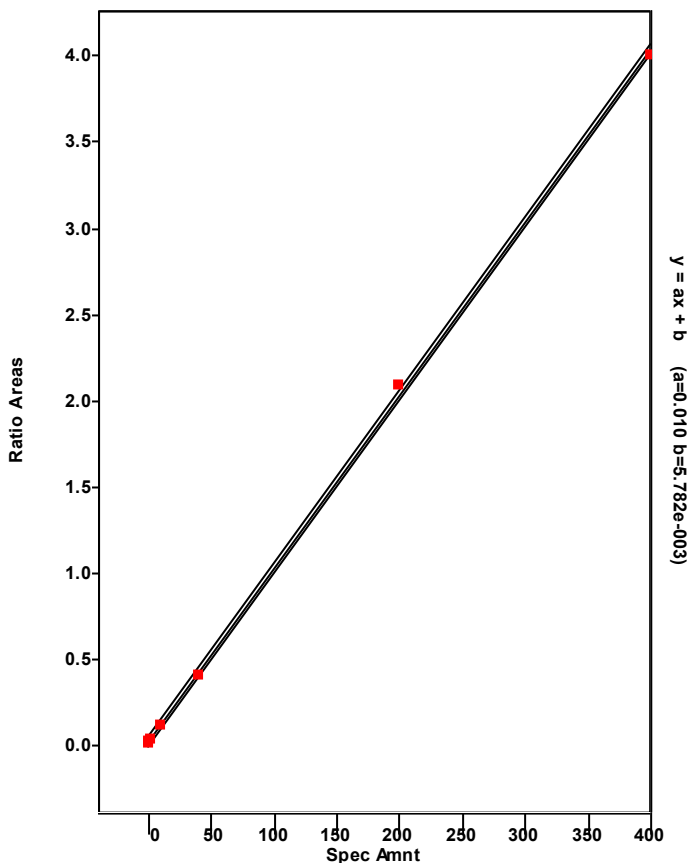


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	1580405
RM1 Area	1216796
RM1 Ratio (A)	0.7699
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

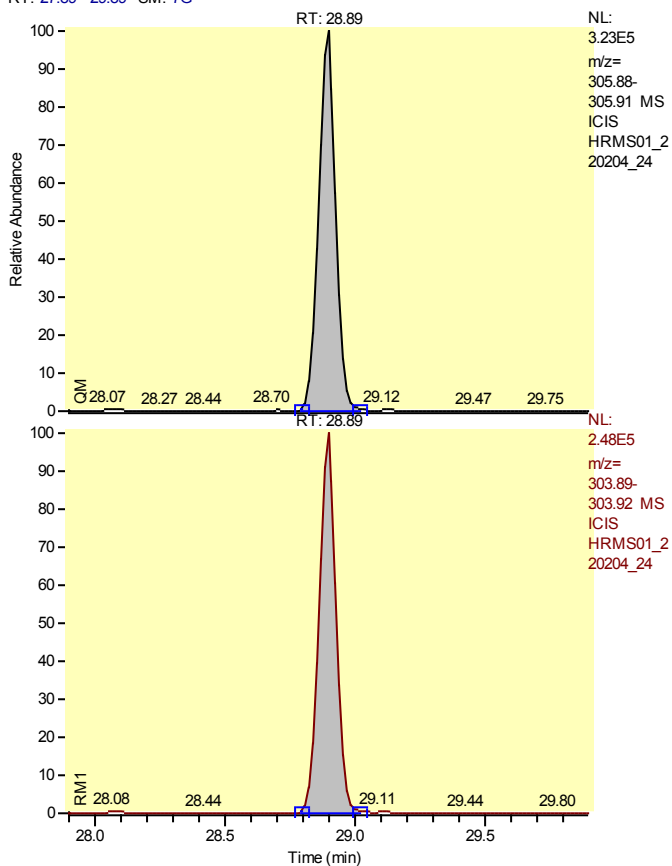
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.89 - 29.89 SM: 7G

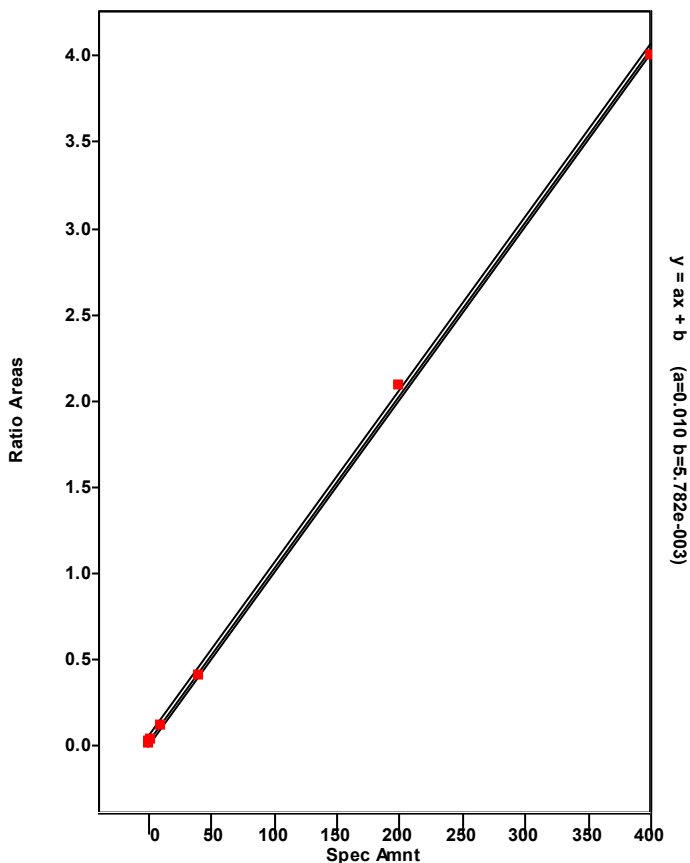


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	1580405
RM1 Area	1216796
RM1 Ratio (A)	0.7699
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

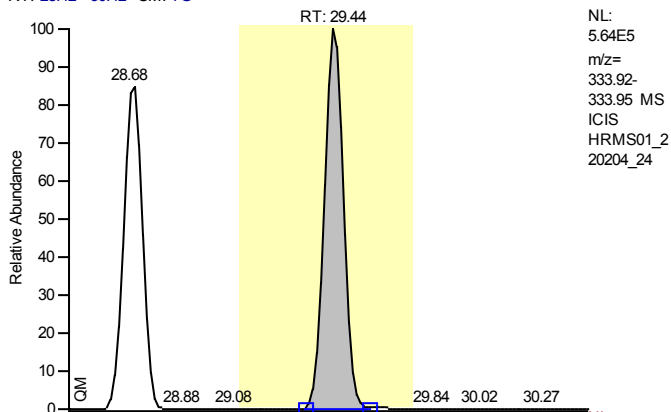
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



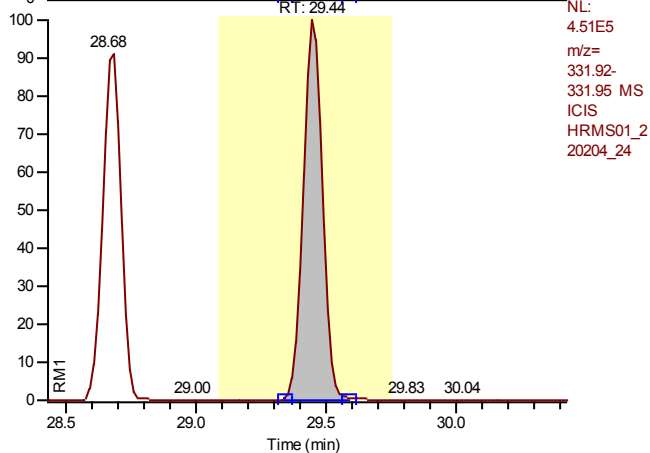
Chromatogram

Entry Parameters

RT: 28.42 - 30.42 SM: 7G



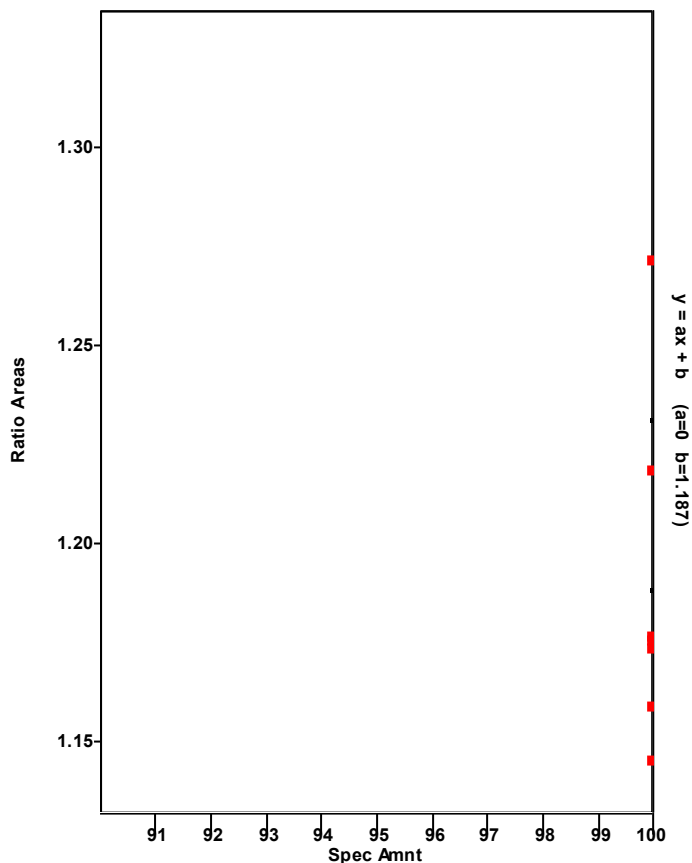
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	2871532
RM1 Area	2306961
RM1 Ratio (A)	0.8034
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

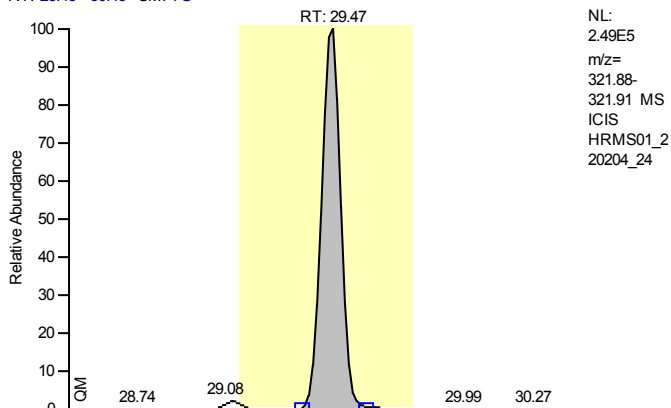
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



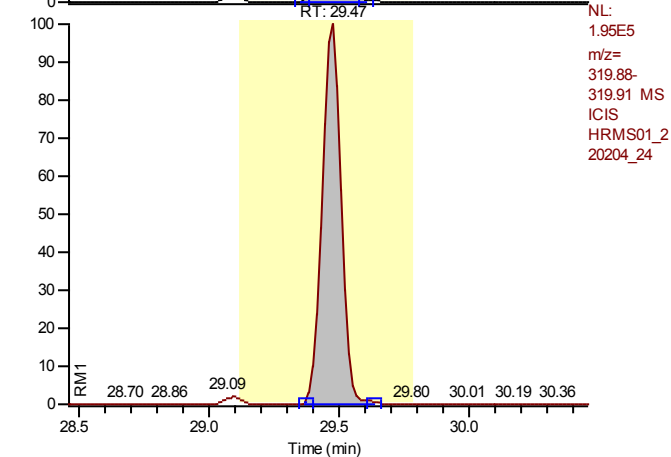
Chromatogram

Entry Parameters

RT: 28.45 - 30.45 SM: 7G



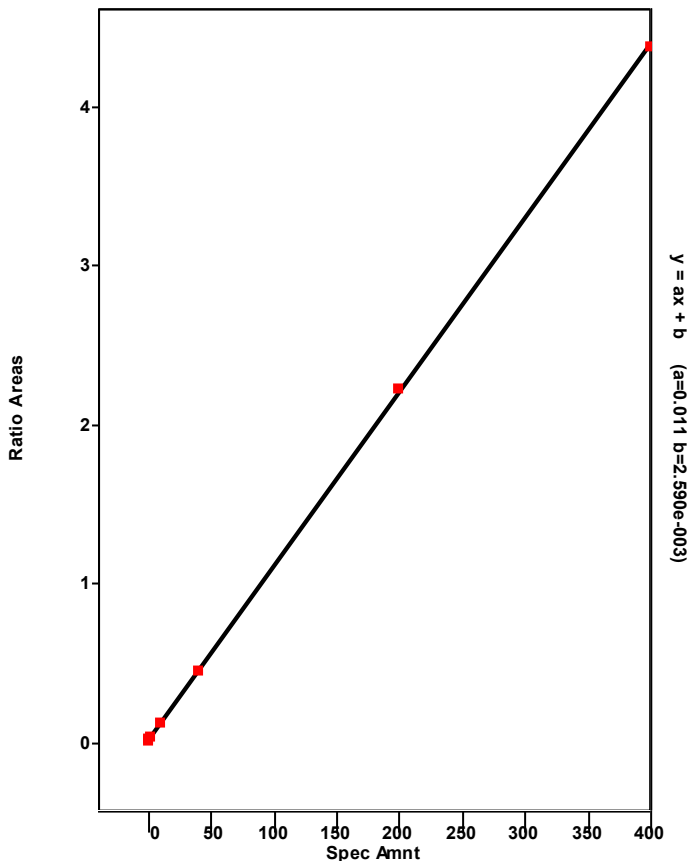
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	1266931
RM1 Area	978517
RM1 Ratio (A)	0.7724
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	40.0000
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

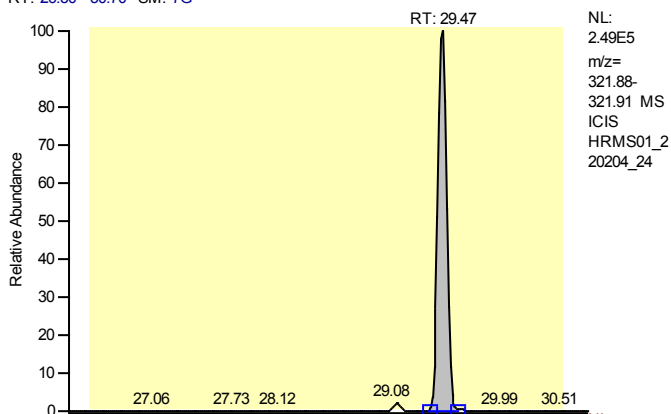
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



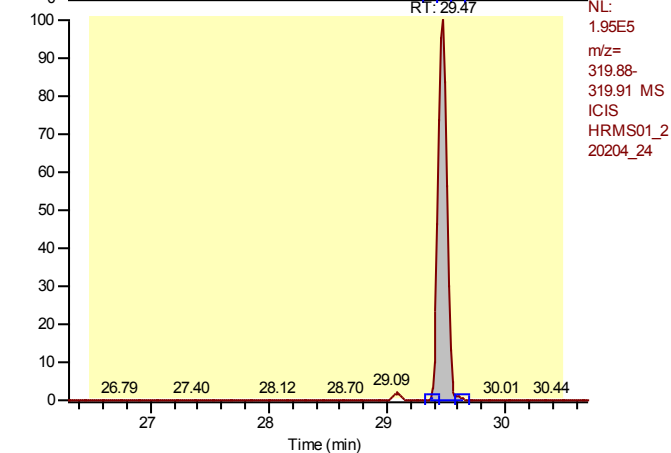
Chromatogram

Entry Parameters

RT: 26.30 - 30.70 SM: 7G



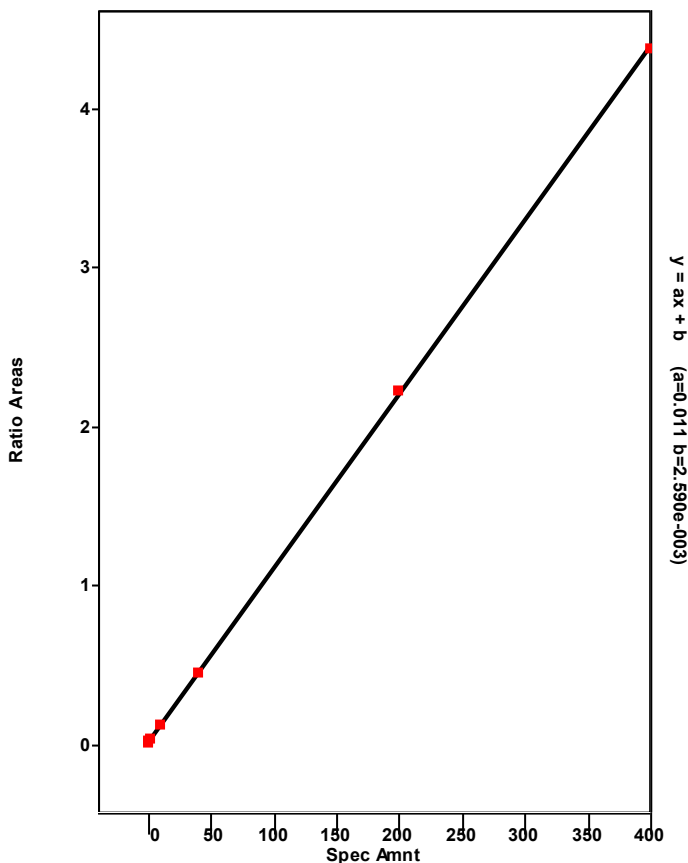
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	1266931
RM1 Area	978517
RM1 Ratio (A)	0.7724
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

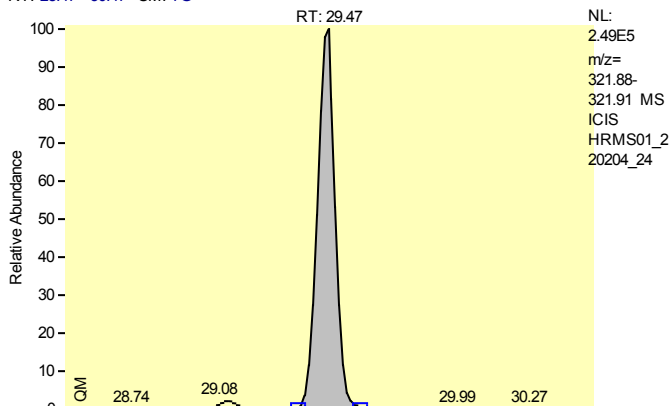
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



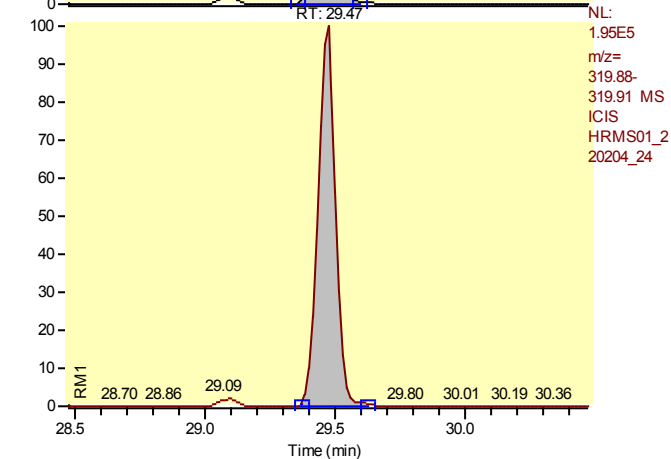
Chromatogram

Entry Parameters

RT: 28.47 - 30.47 SM: 7G



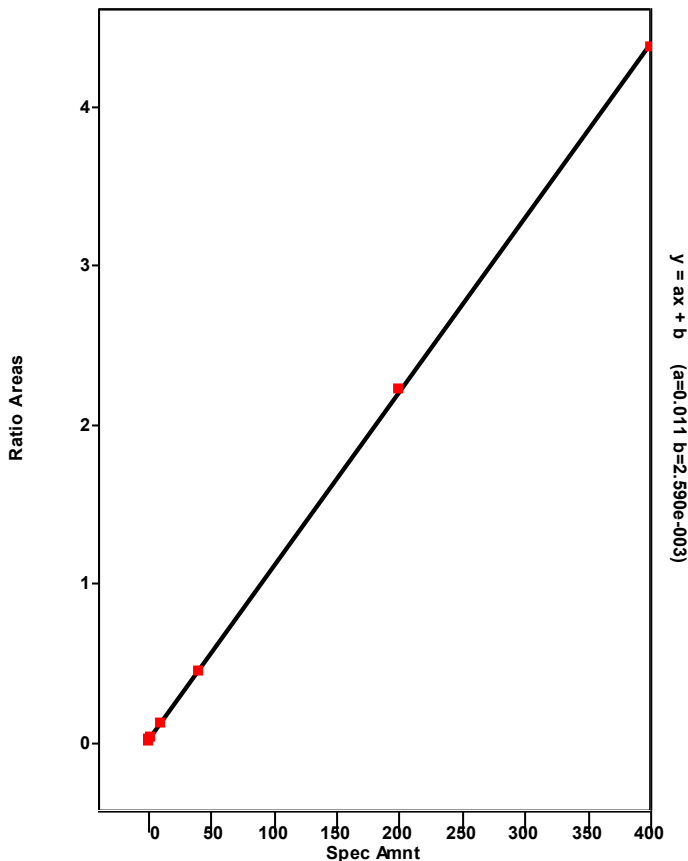
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	1266931
RM1 Area	978517
RM1 Ratio (A)	0.7724
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

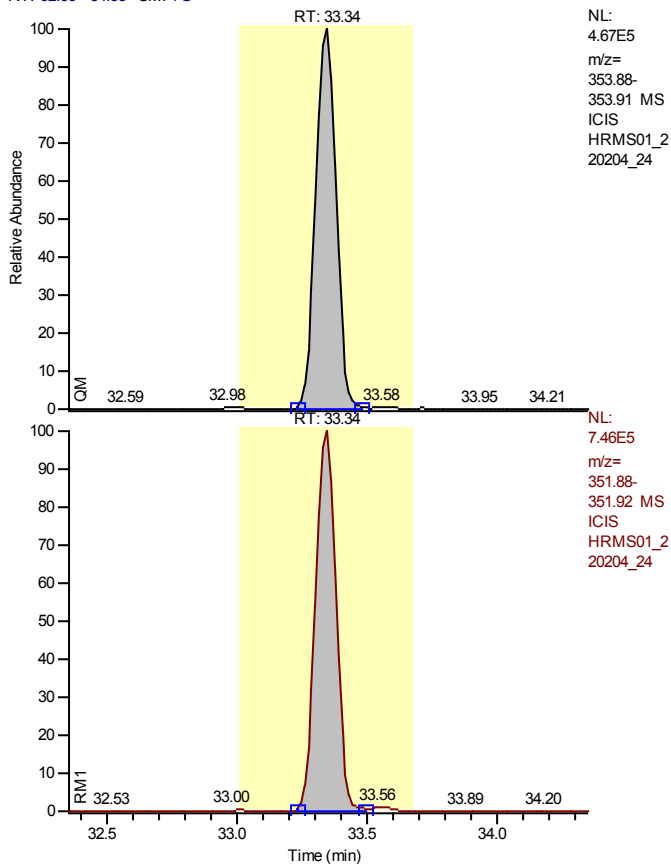
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.35 - 34.35 SM: 7G



NL:
4.67E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20204_24

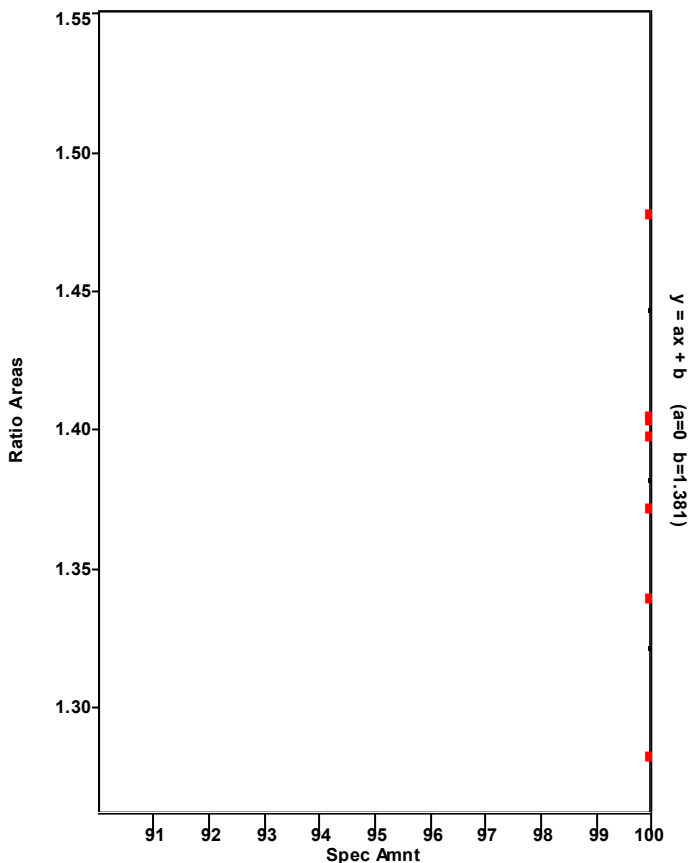
NL:
7.46E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20204_24

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2507806
RM1 Area	4015649
RM1 Ratio (A)	1.6013
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

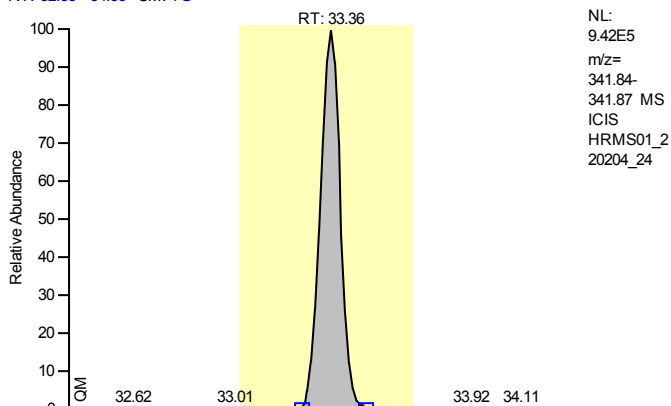
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



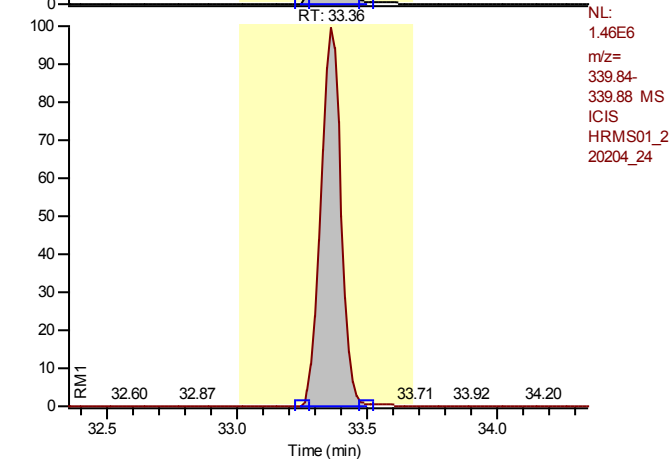
Chromatogram

Entry Parameters

RT: 32.35 - 34.35 SM: 7G



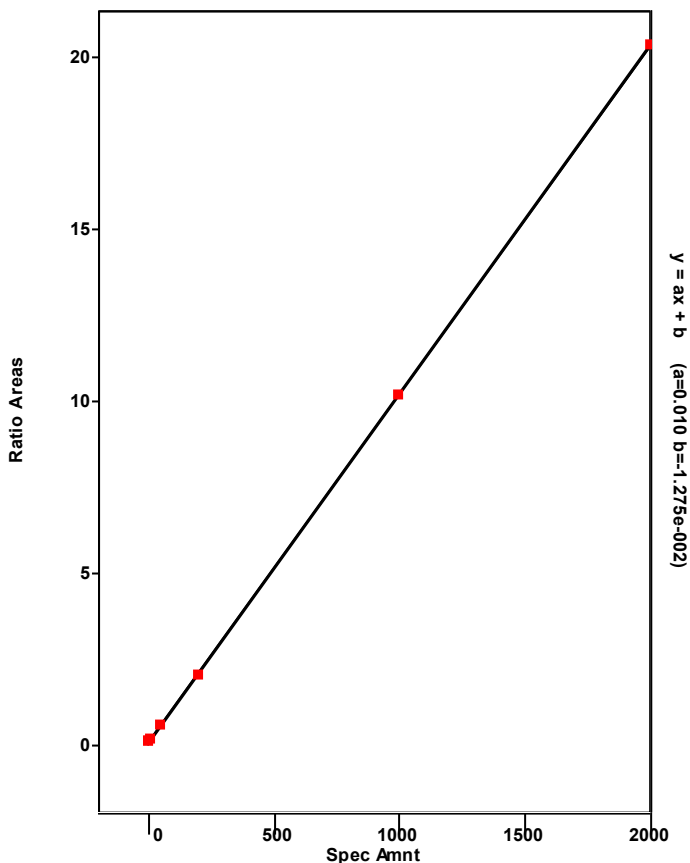
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	5011474
RM1 Area	7835488
RM1 Ratio (A)	1.5635
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	6.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

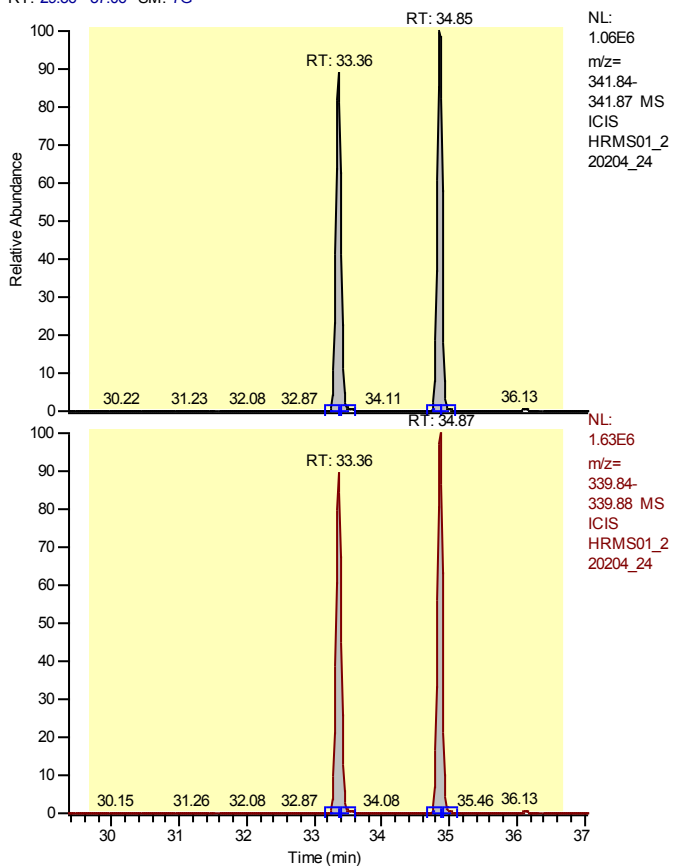
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.36 - 37.06 SM: 7G

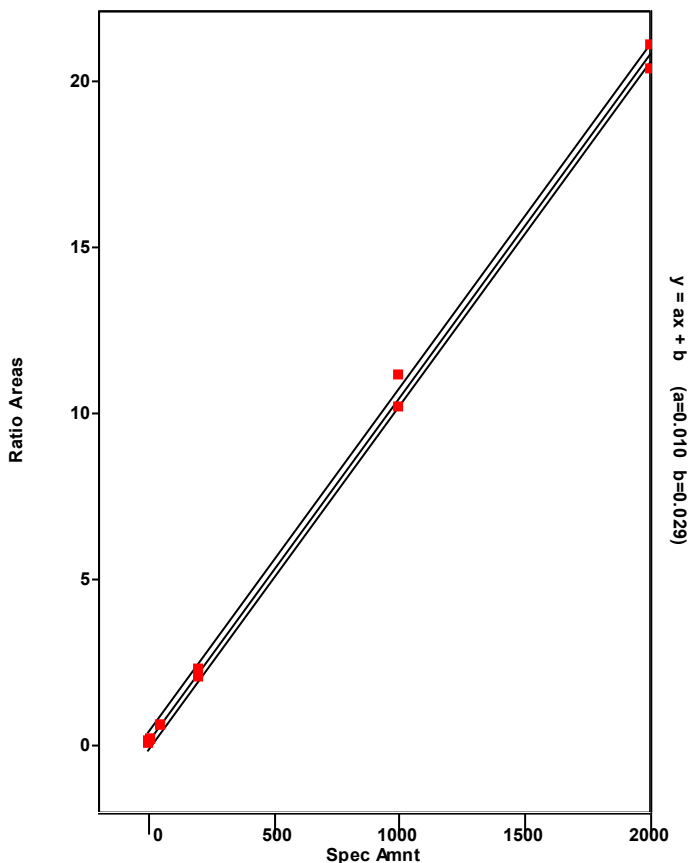


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	10714156
RM1 Area	16686803
RM1 Ratio (A)	1.5575
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	400.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

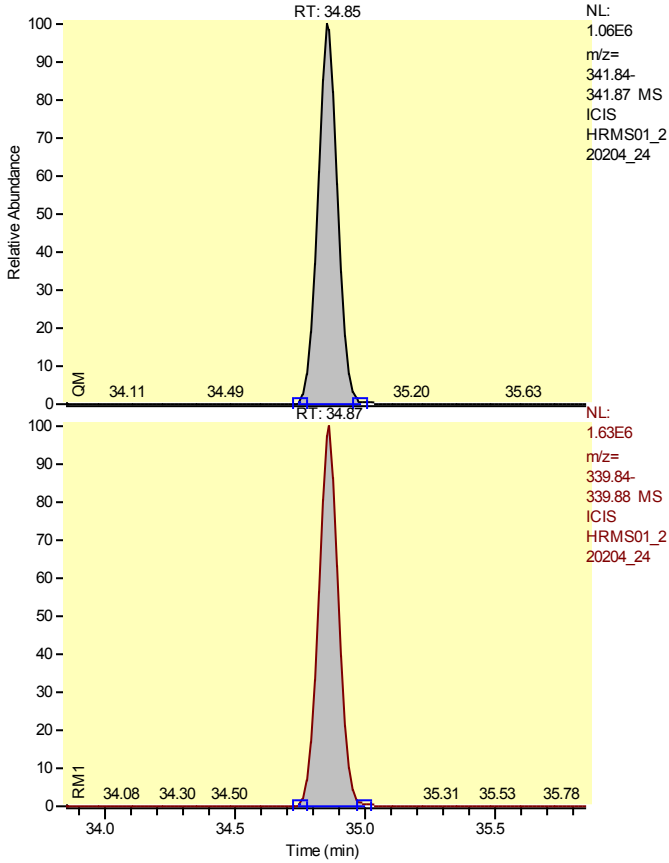
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.85 - 35.85 SM: 7G

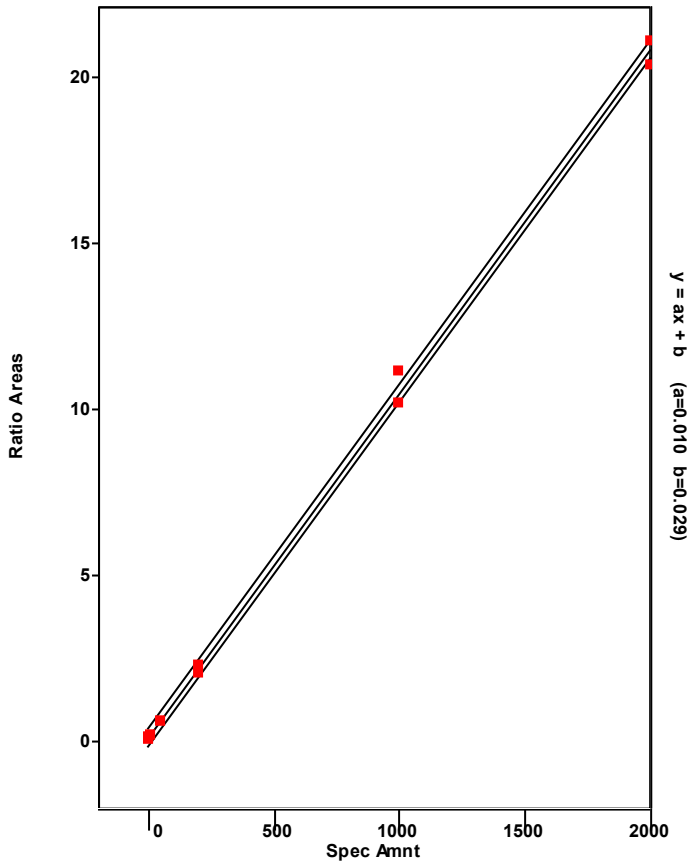


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	5702682
RM1 Area	8851315
RM1 Ratio (A)	1.5521
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

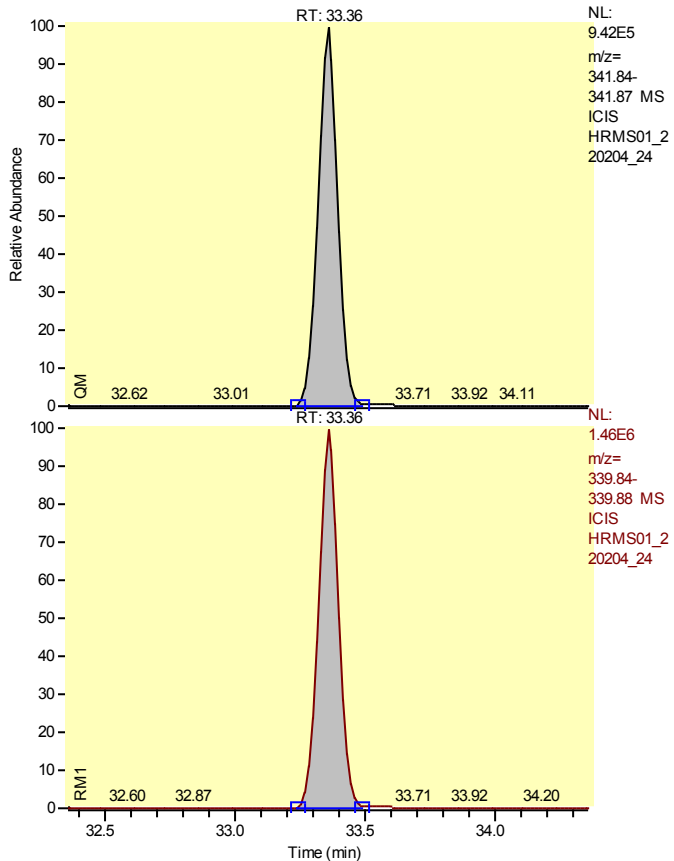
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.36 - 34.36 SM: 7G



NL:
9.42E5
m/z=
341.84-
341.87 MS
ICIS
HRMS01_2
20204_24

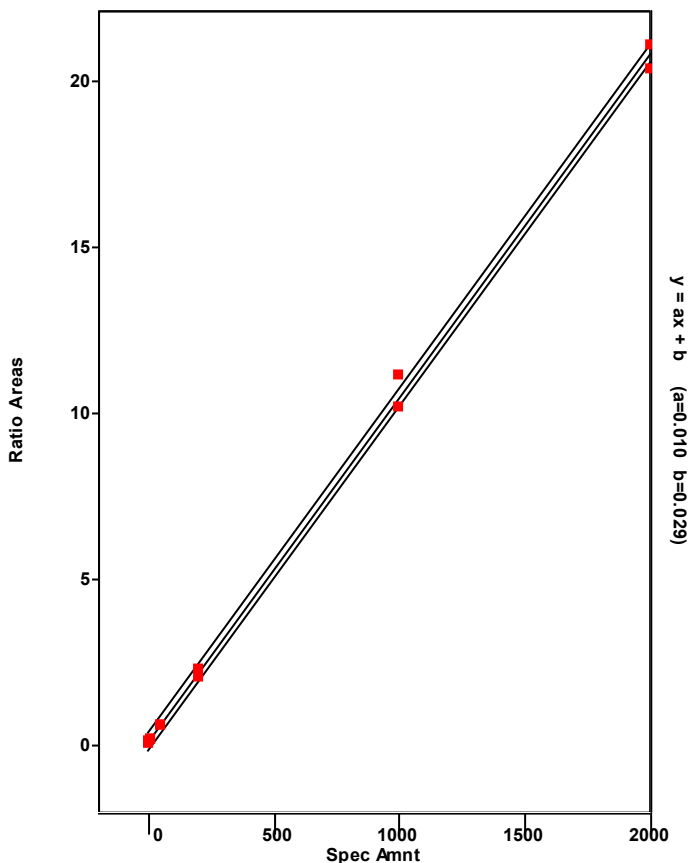
NL:
1.46E6
m/z=
339.84-
339.88 MS
ICIS
HRMS01_2
20204_24

Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	5011474
RM1 Area	7835488
RM1 Ratio (A)	1.5635
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

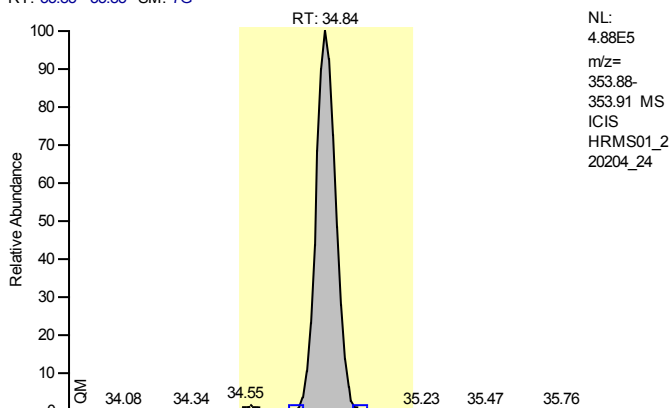
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



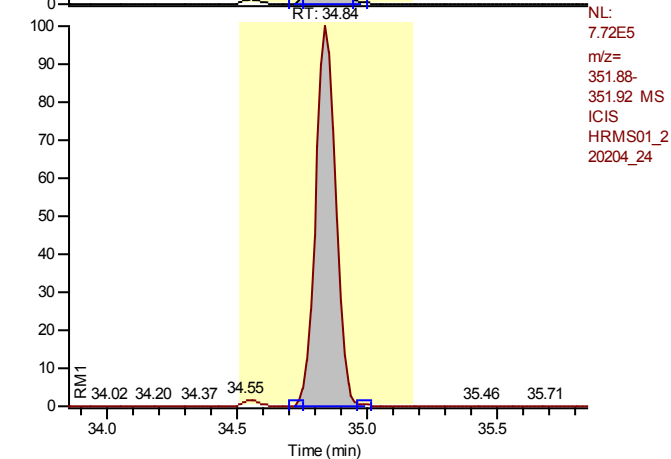
Chromatogram

Entry Parameters

RT: 33.85 - 35.85 SM: 7G



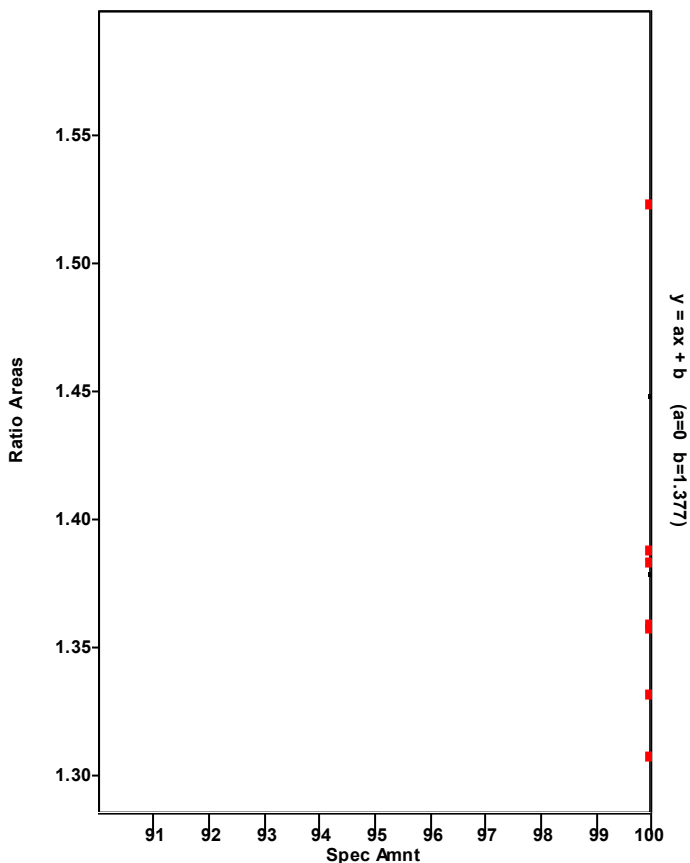
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2581933
RM1 Area	4141626
RM1 Ratio (A)	1.6041
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

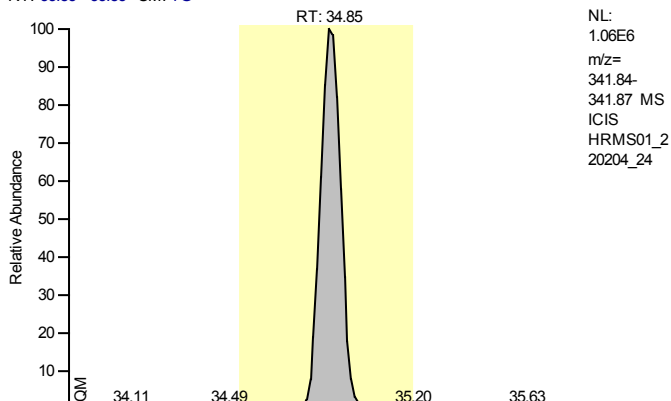
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



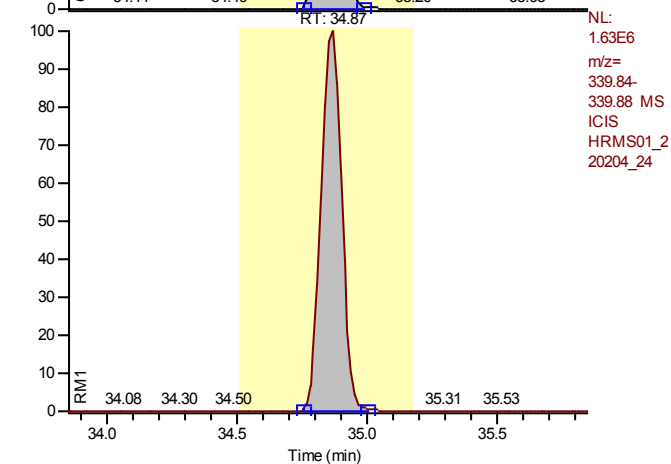
Chromatogram

Entry Parameters

RT: 33.85 - 35.85 SM: 7G



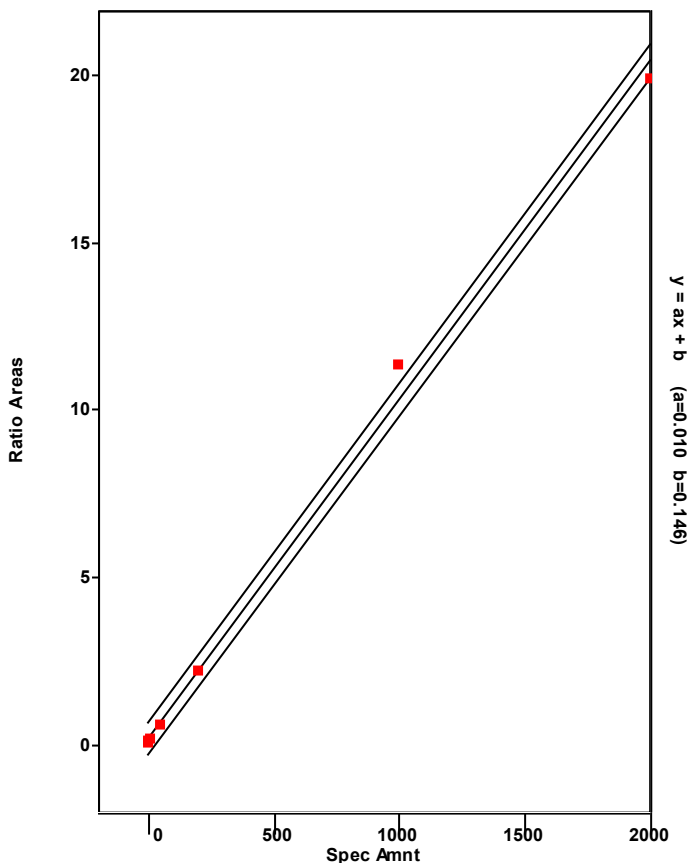
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	5702682
RM1 Area	8851315
RM1 Ratio (A)	1.5521
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	60.0000
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

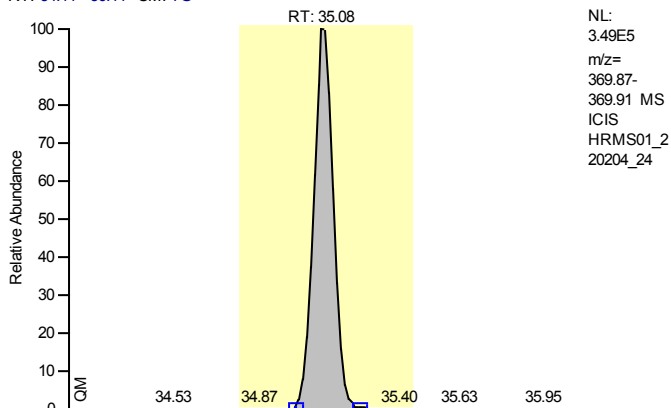
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



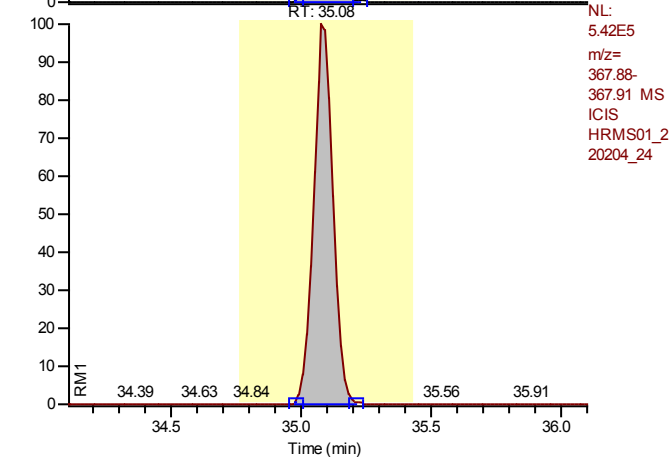
Chromatogram

Entry Parameters

RT: 34.11-36.11 SM: 7G



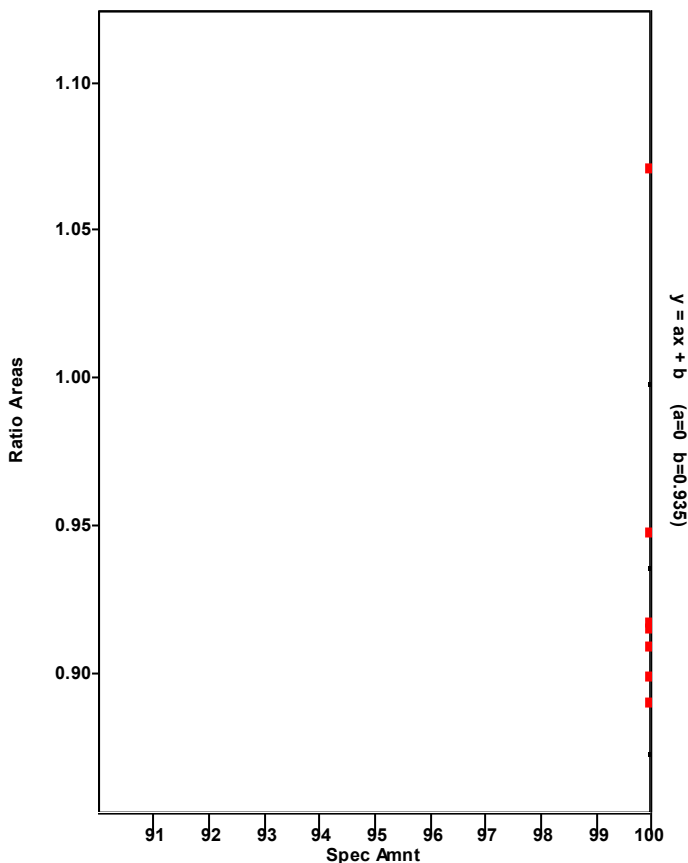
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1872891
RM1 Area	2854542
RM1 Ratio (A)	1.5241
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

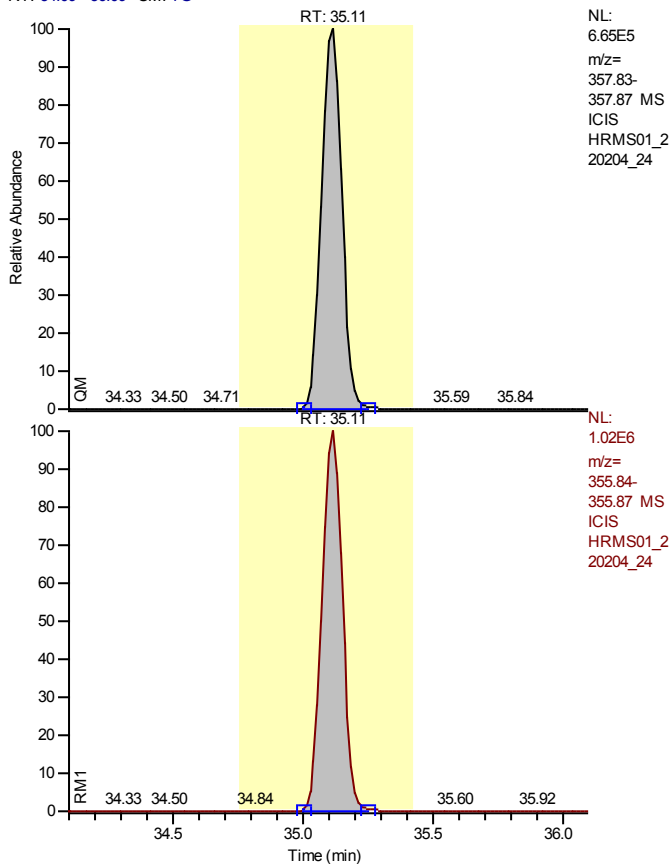
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.09 - 36.09 SM: 7G

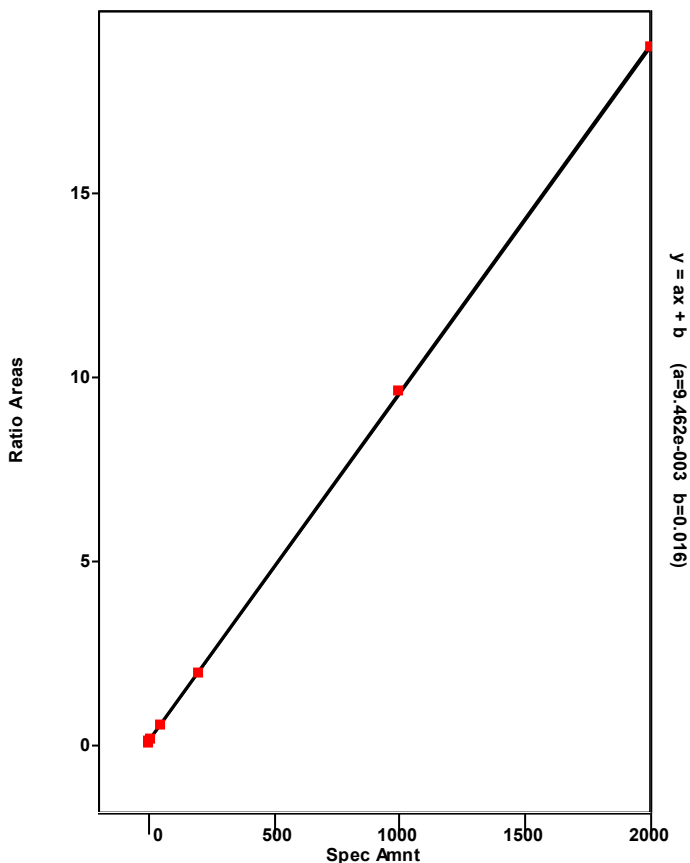


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	3542922
RM1 Area	5465481
RM1 Ratio (A)	1.5426
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

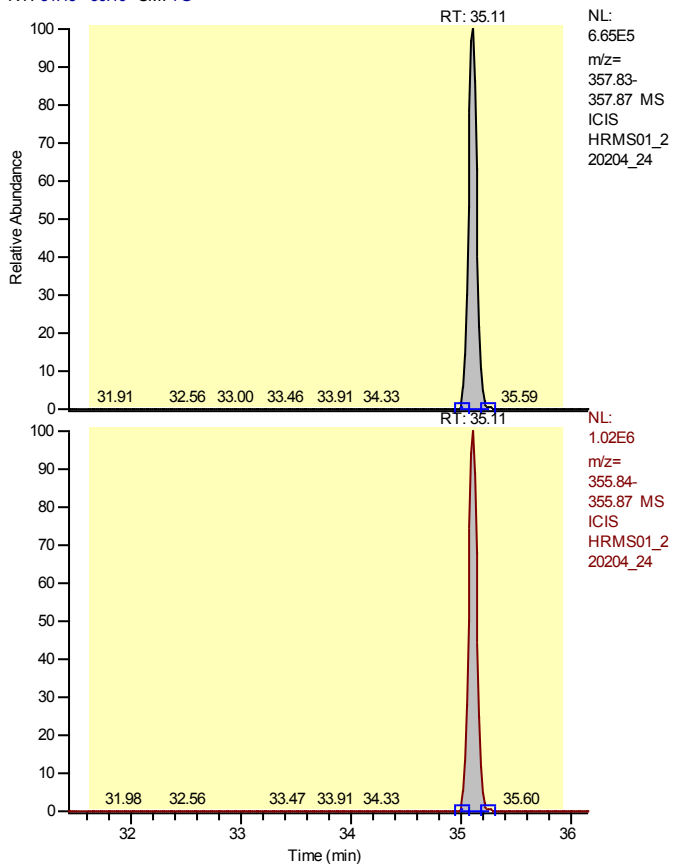
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.43 - 36.16 SM: 7G

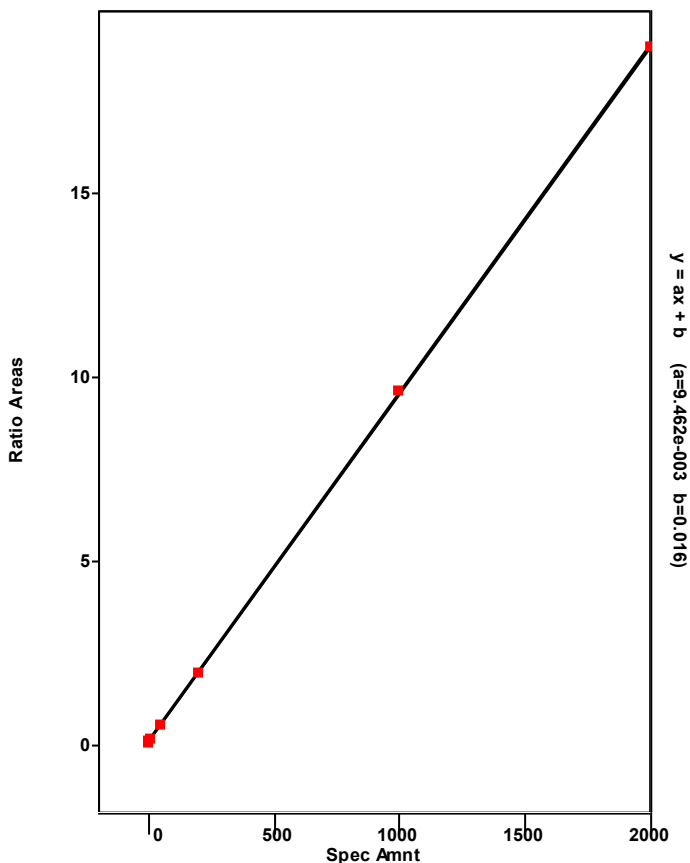


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	3542922
RM1 Area	5465481
RM1 Ratio (A)	1.5426
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

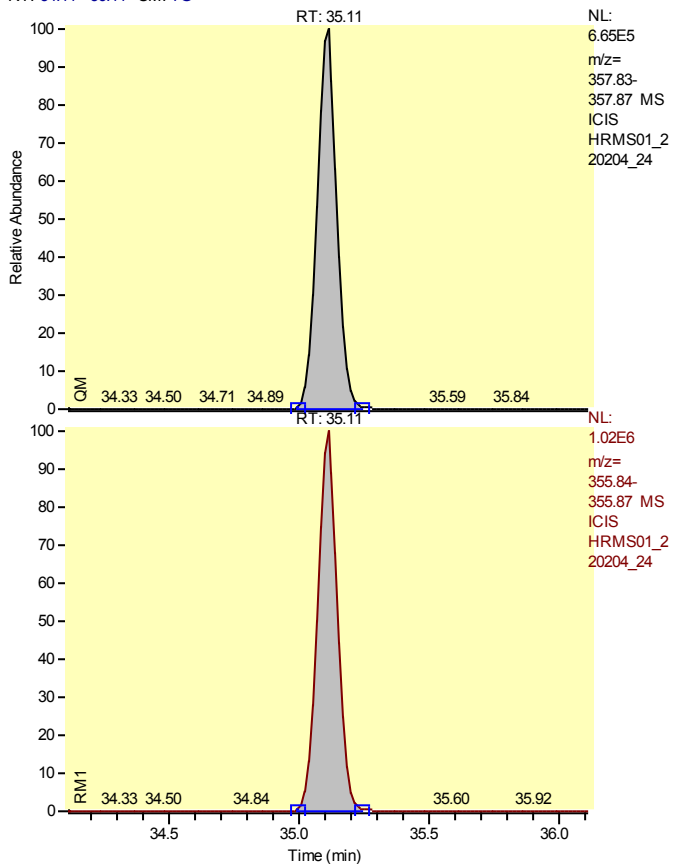
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.11-36.11 SM: 7G

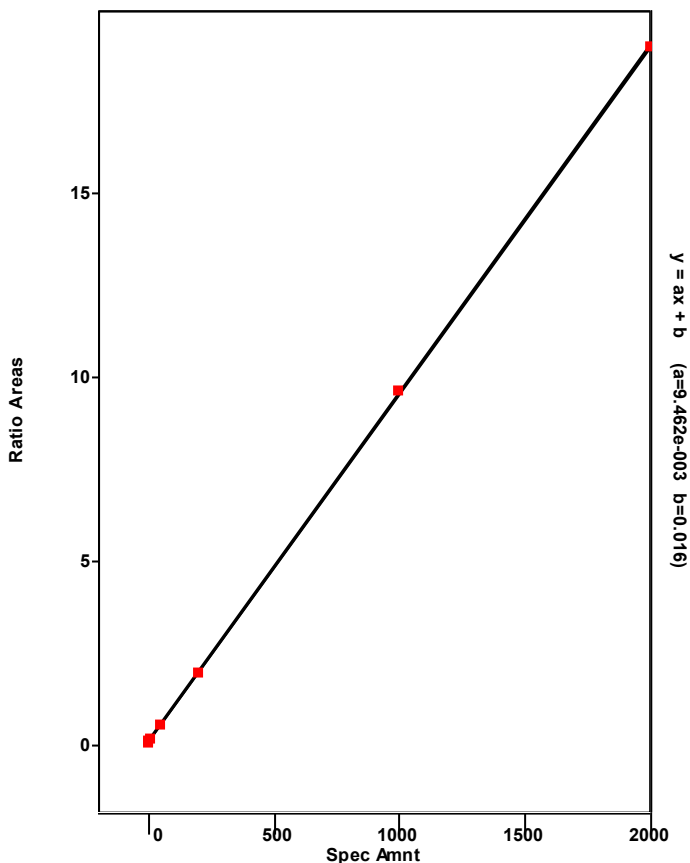


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	3542922
RM1 Area	5465481
RM1 Ratio (A)	1.5426
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

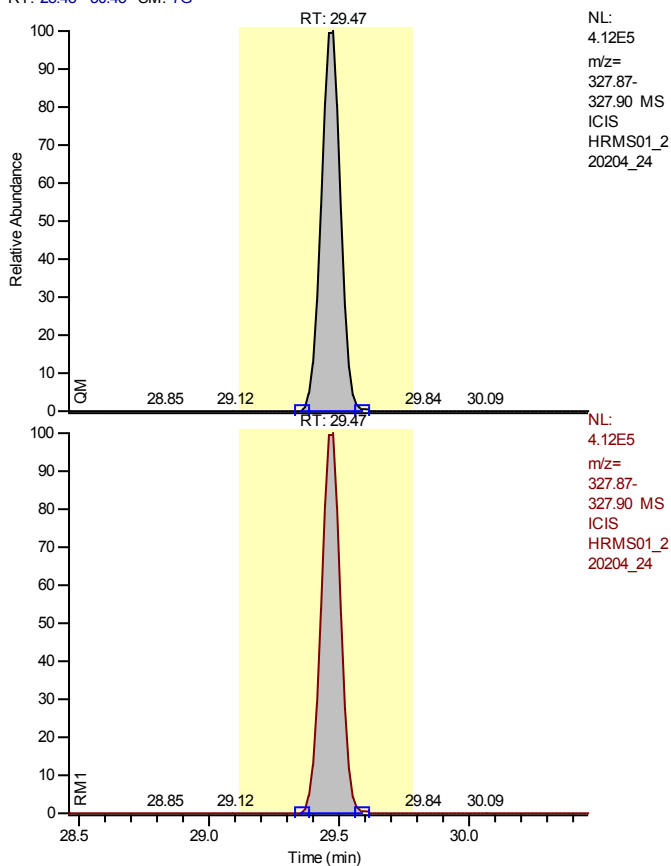
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.45 - 30.45 SM: 7G



NL:
 4.12E5
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_24

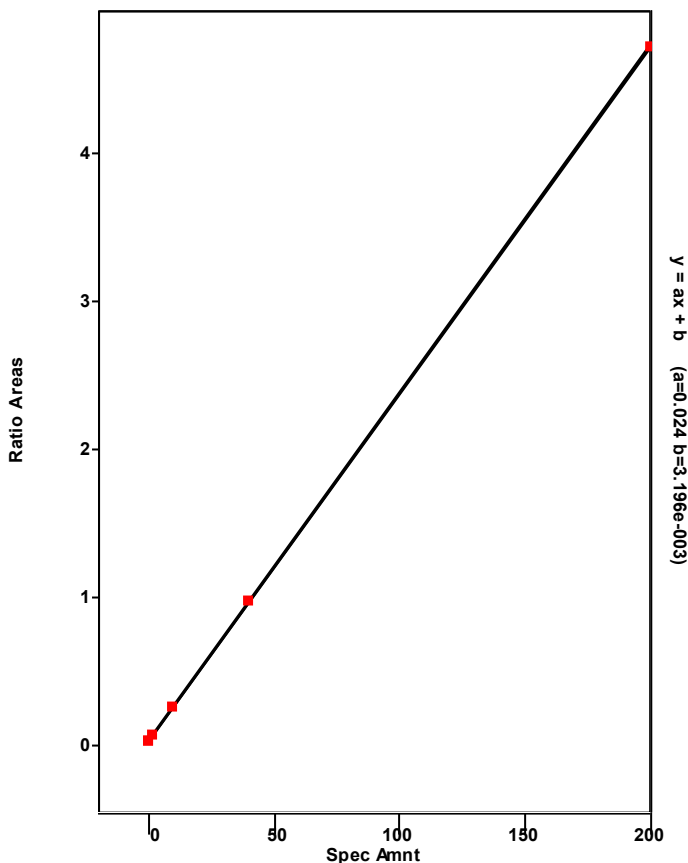
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	2122342
RM1 Area	2122342
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 4.12E5
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_24

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

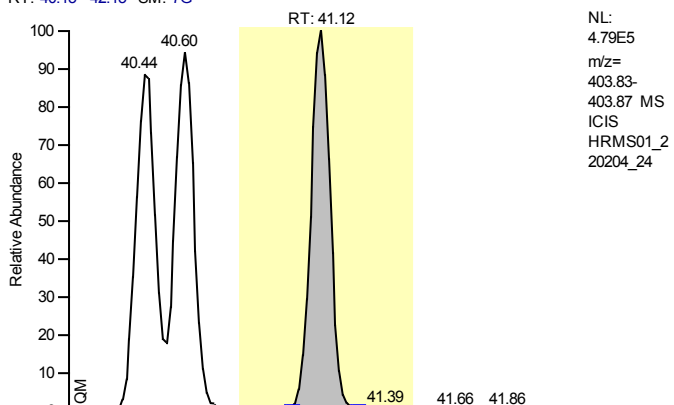
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

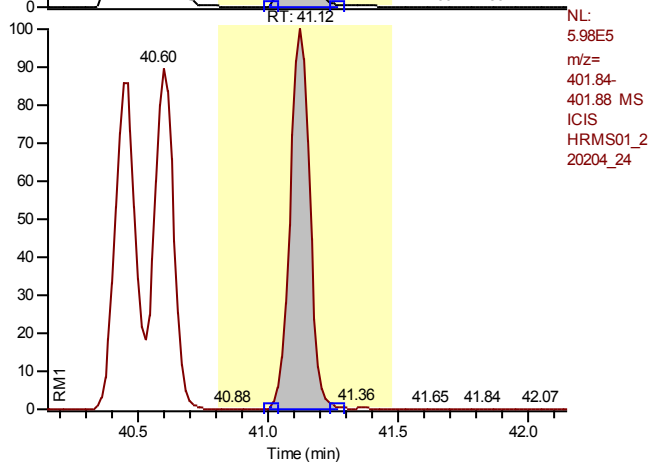
Entry Parameters

RT: 40.15- 42.15 SM: 7G



NL:
 4.79E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_24

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2494487
RM1 Area	3132663
RM1 Ratio (A)	1.2558
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

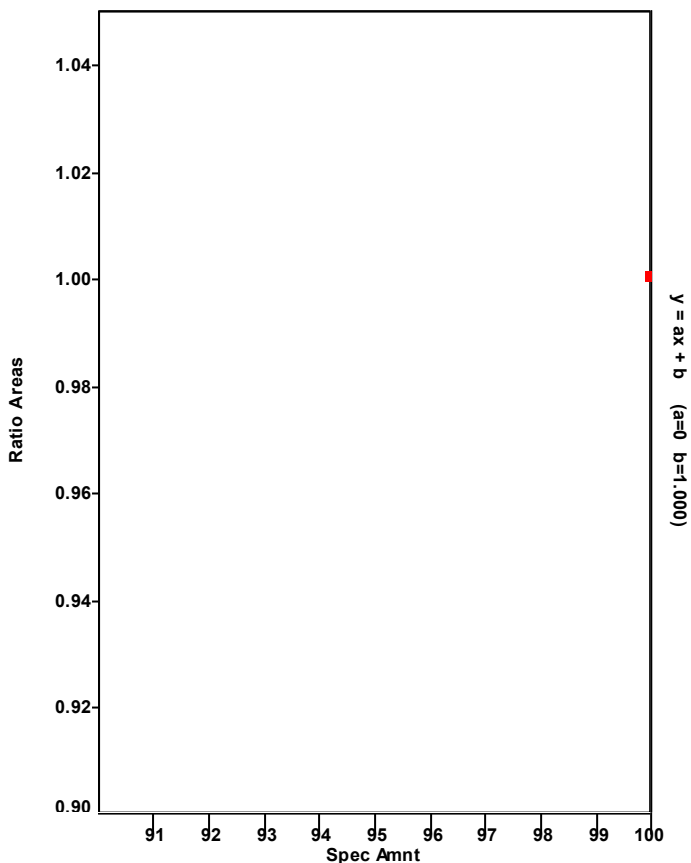


NL:
 5.98E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_24

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

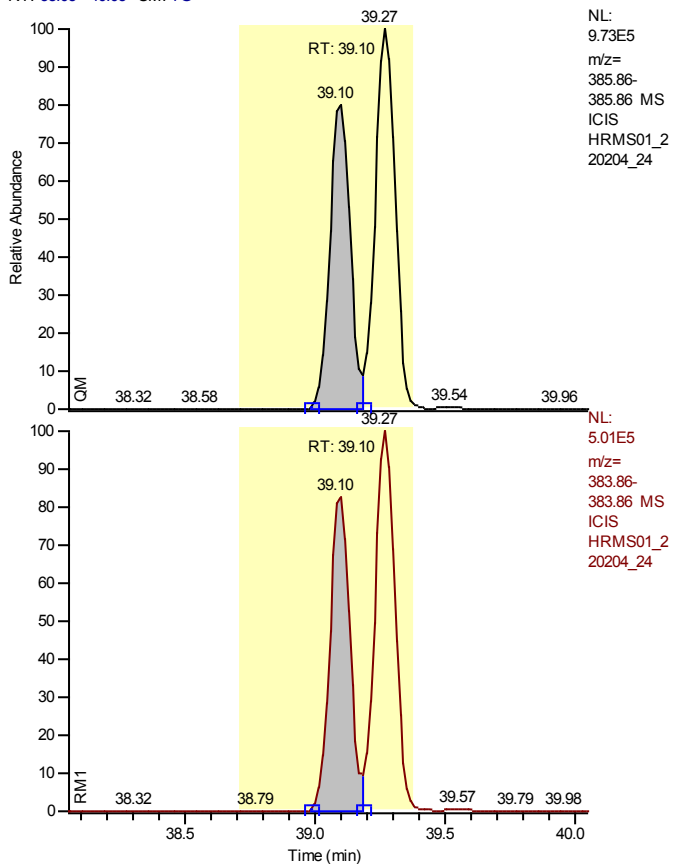
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G



NL:
 9.73E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_24

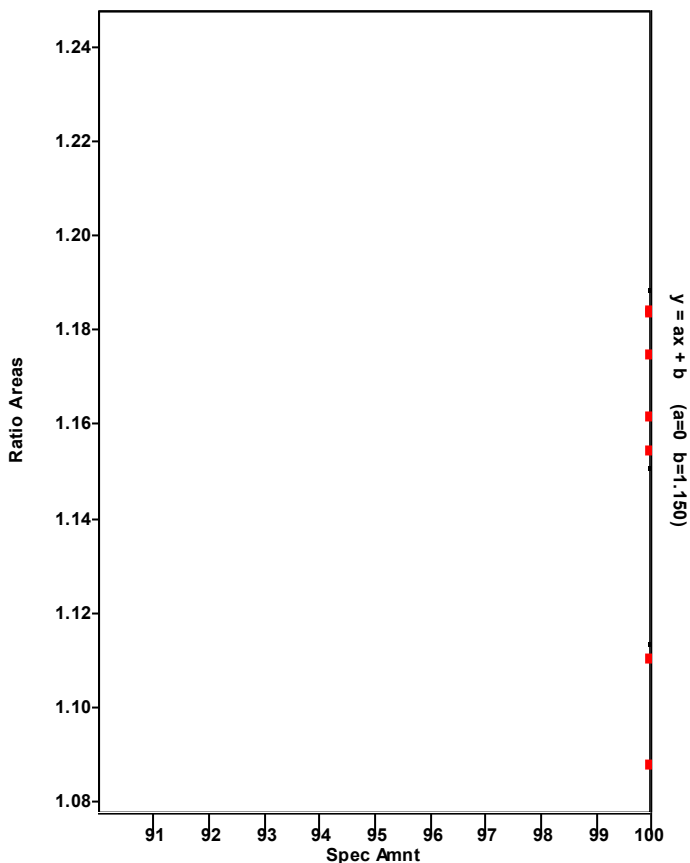
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	4261028
RM1 Area	2231647
RM1 Ratio (A)	0.5237
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 5.01E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_24

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

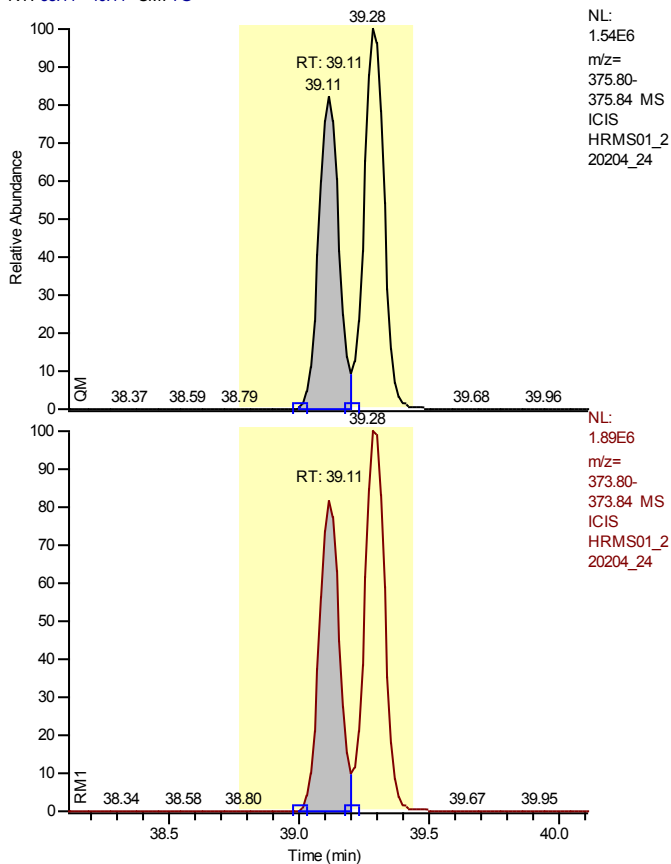
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G

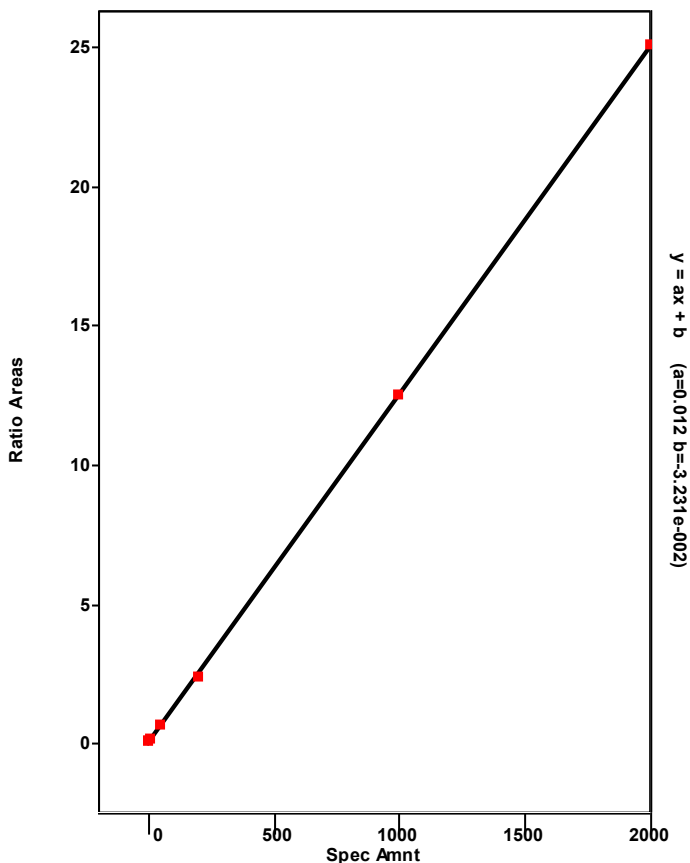


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	6818610
RM1 Area	8353781
RM1 Ratio (A)	1.2251
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

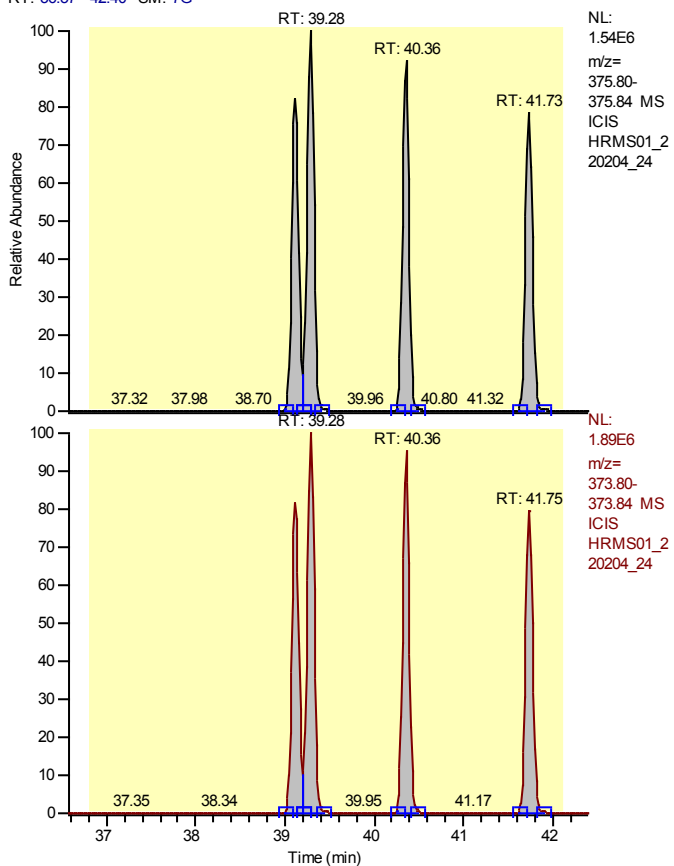
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.57 - 42.40 SM: 7G



NL:
 1.54E6
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_24

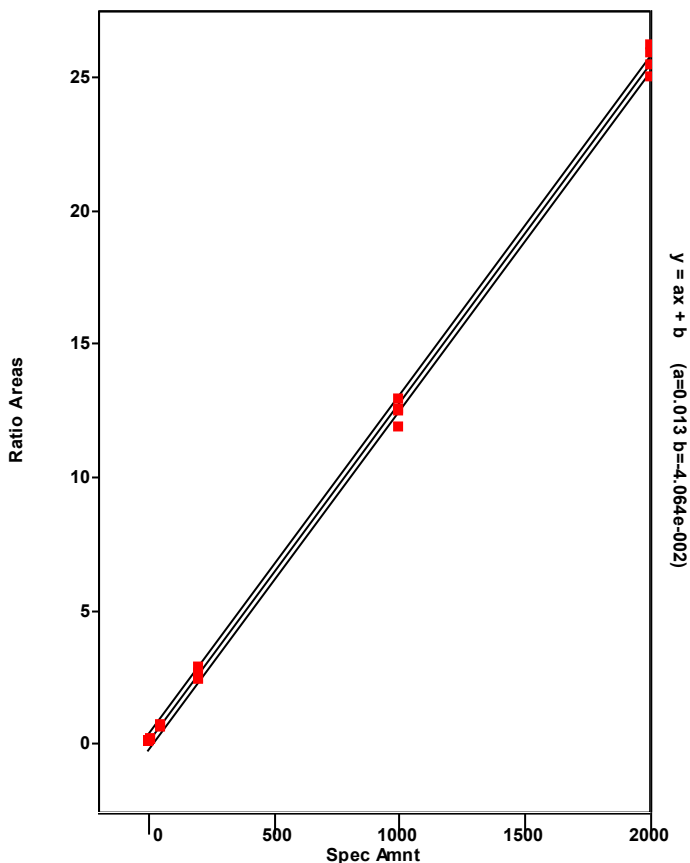
NL:
 1.89E6
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_24

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	29035066
RM1 Area	36126048
RM1 Ratio (A)	1.2442
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	800.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

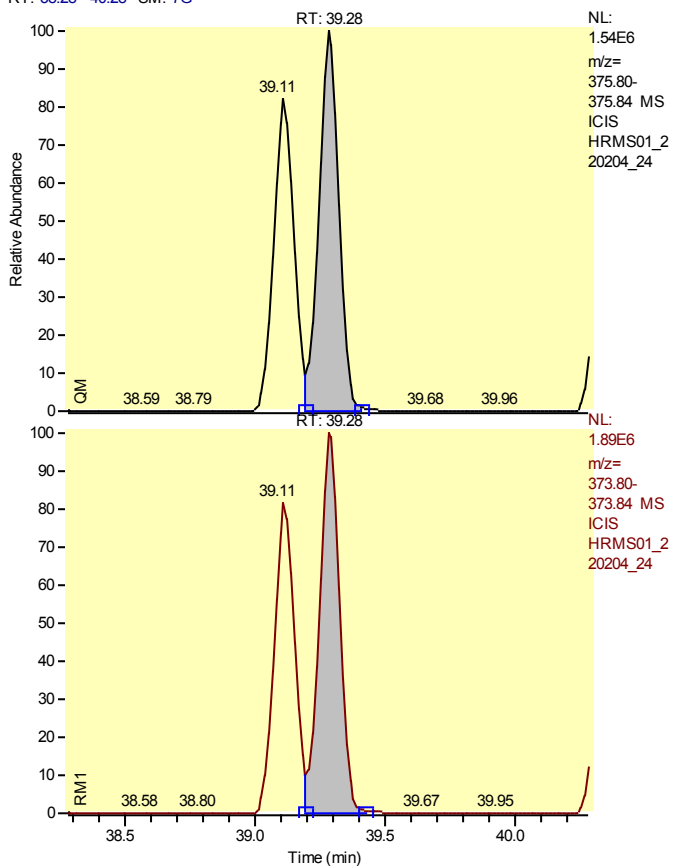
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.28 - 40.28 SM: 7G

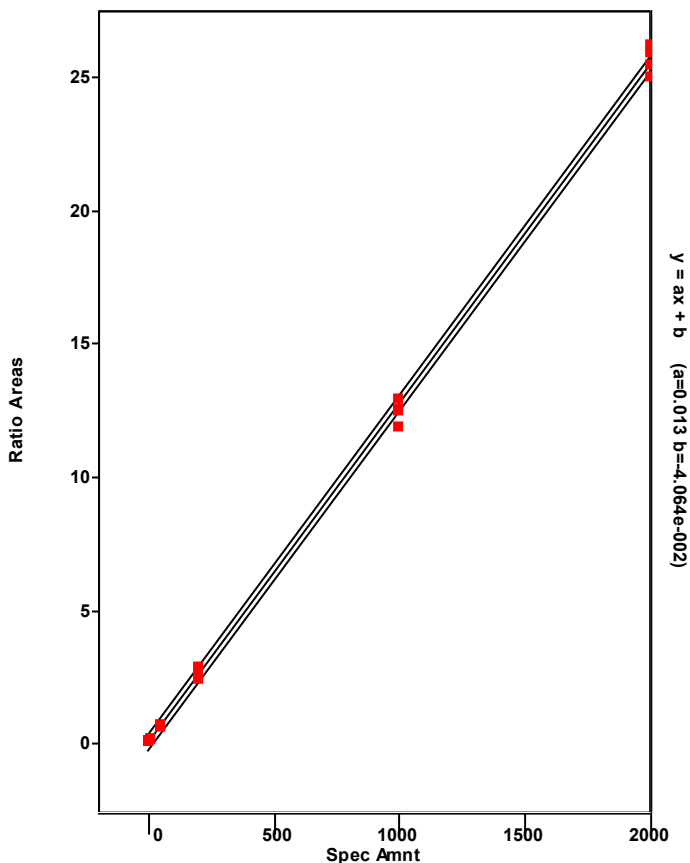


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	8133299
RM1 Area	10162098
RM1 Ratio (A)	1.2494
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

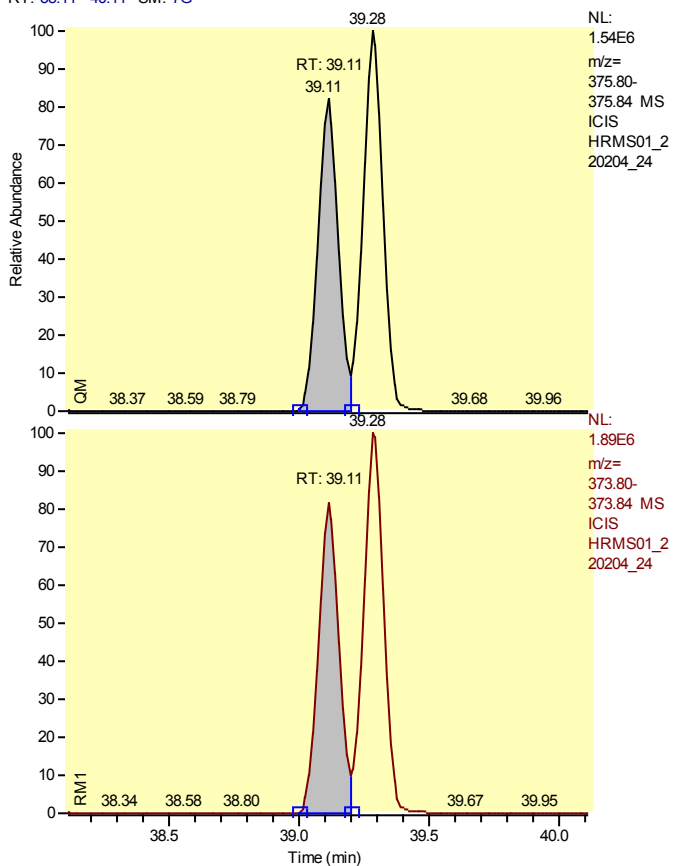
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.11-40.11 SM: 7G

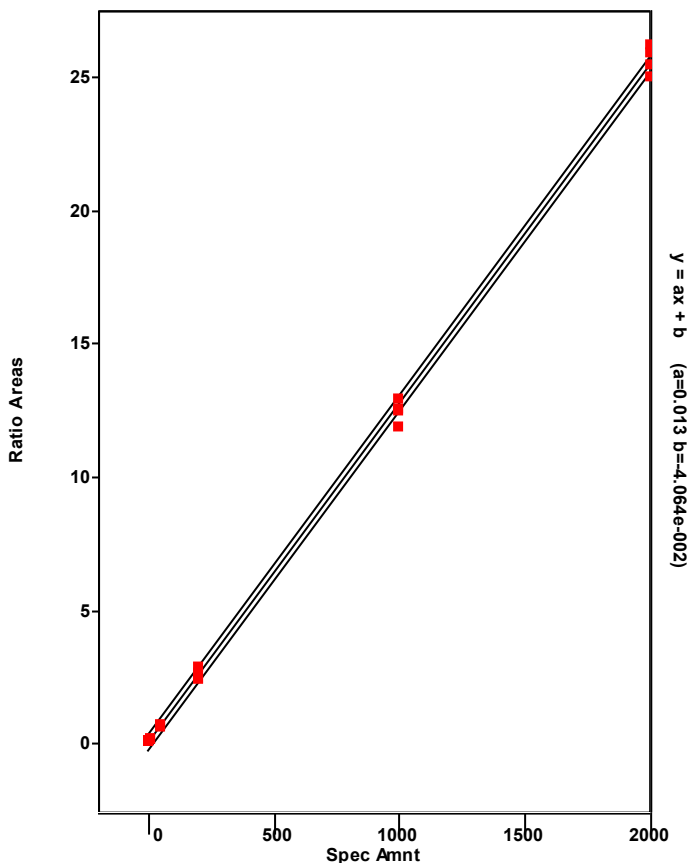


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	6818610
RM1 Area	8353781
RM1 Ratio (A)	1.2251
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

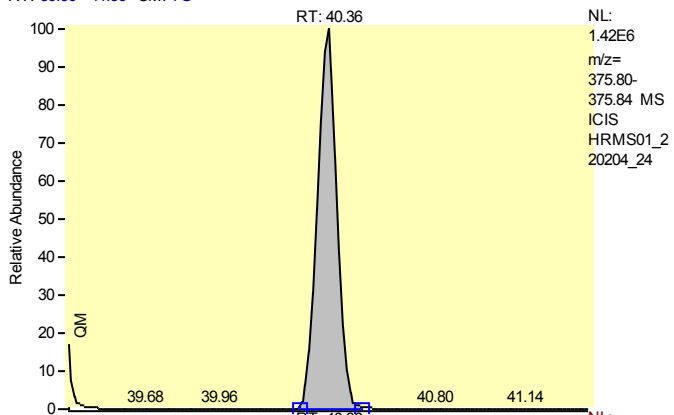
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



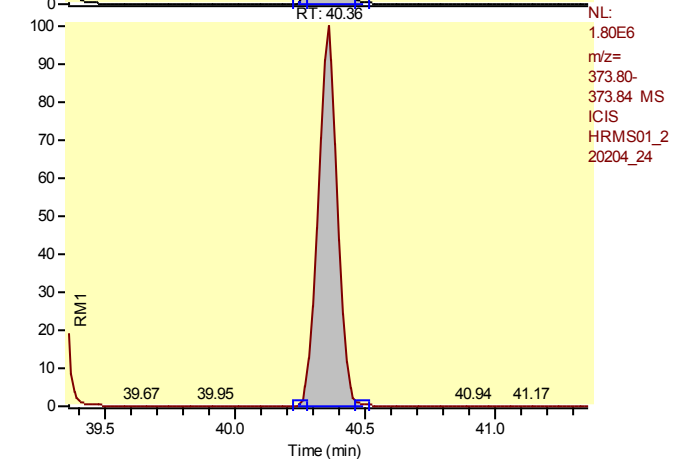
Chromatogram

Entry Parameters

RT: 39.36 - 41.36 SM: 7G



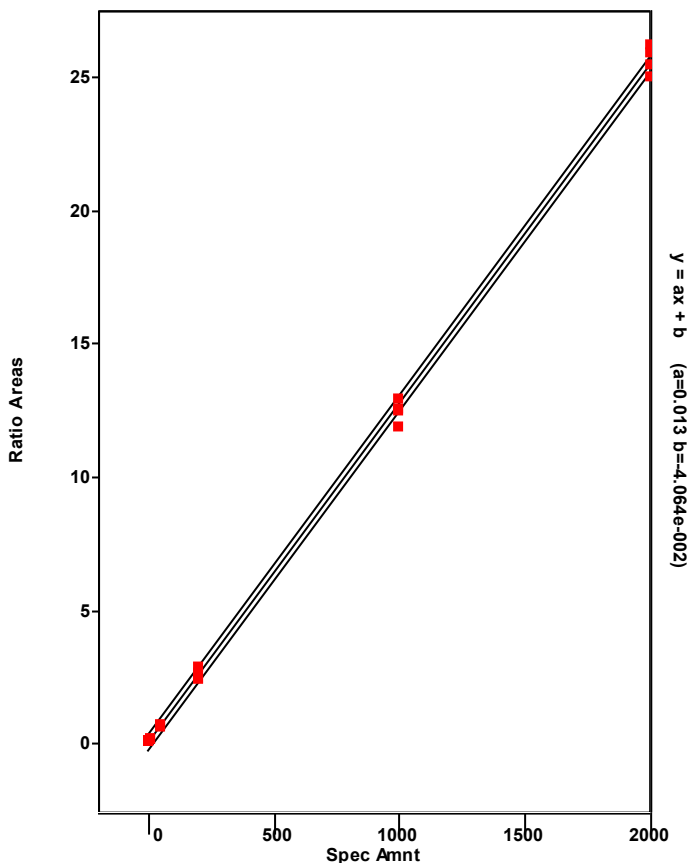
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	7397869
RM1 Area	9259967
RM1 Ratio (A)	1.2517
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

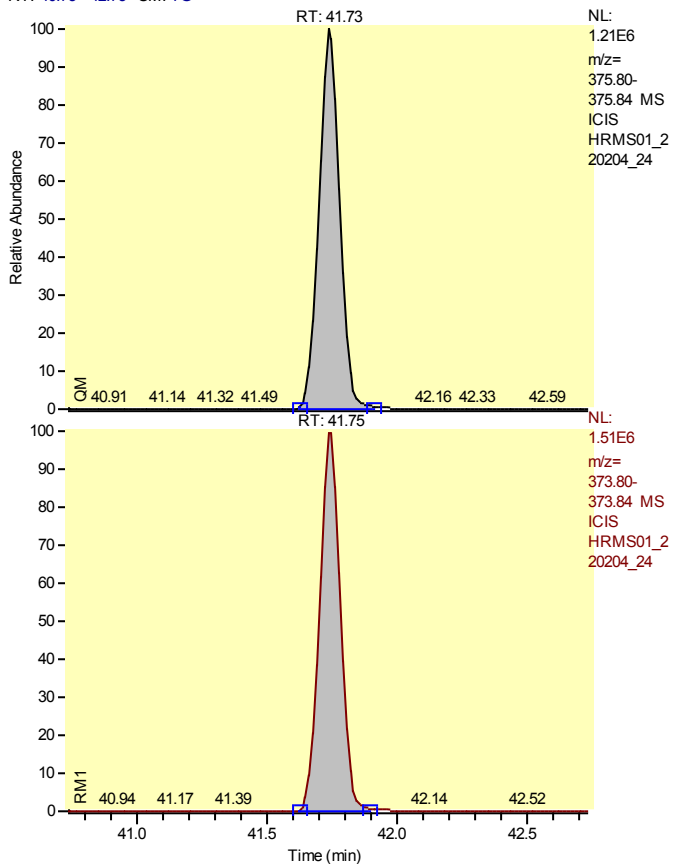
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.73 - 42.73 SM: 7G

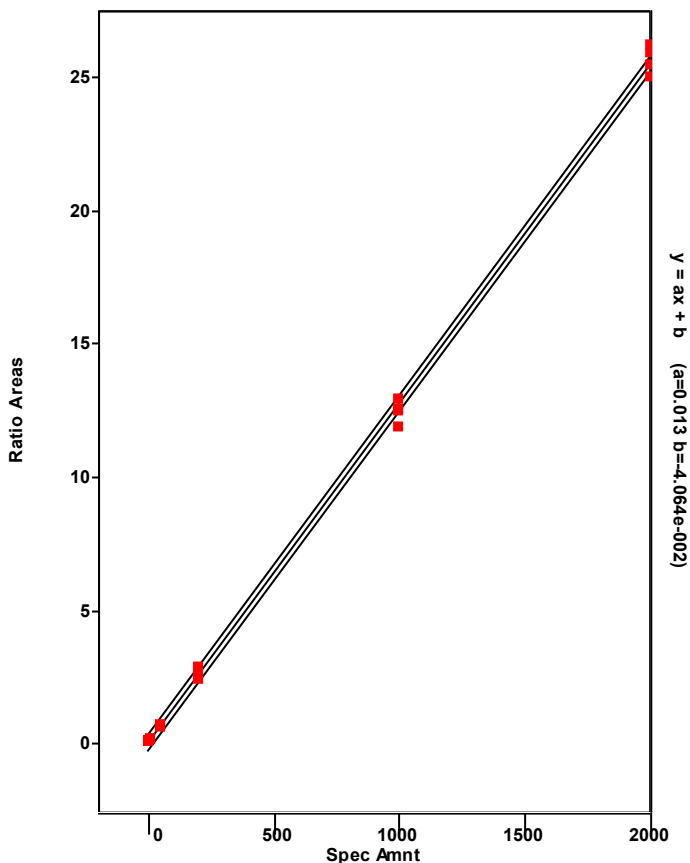


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	6685288
RM1 Area	8350203
RM1 Ratio (A)	1.2490
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

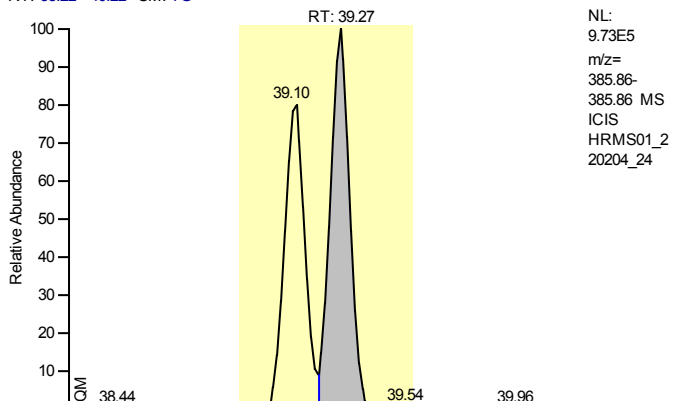
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

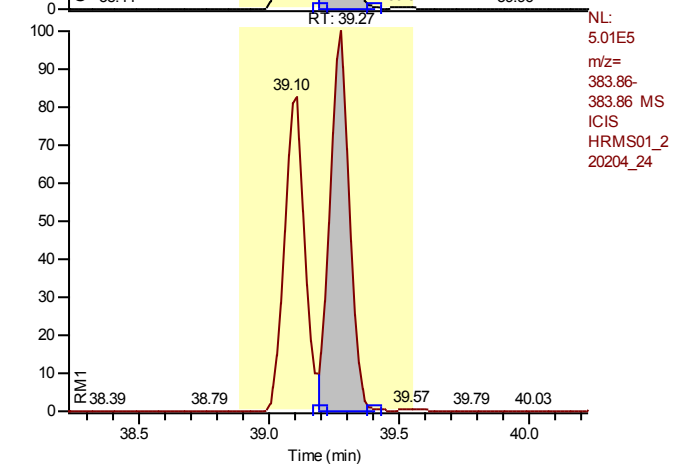
Entry Parameters

RT: 38.22 - 40.22 SM: 7G



NL:
 9.73E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_24

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	5090555
RM1 Area	2631428
RM1 Ratio (A)	0.5169
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

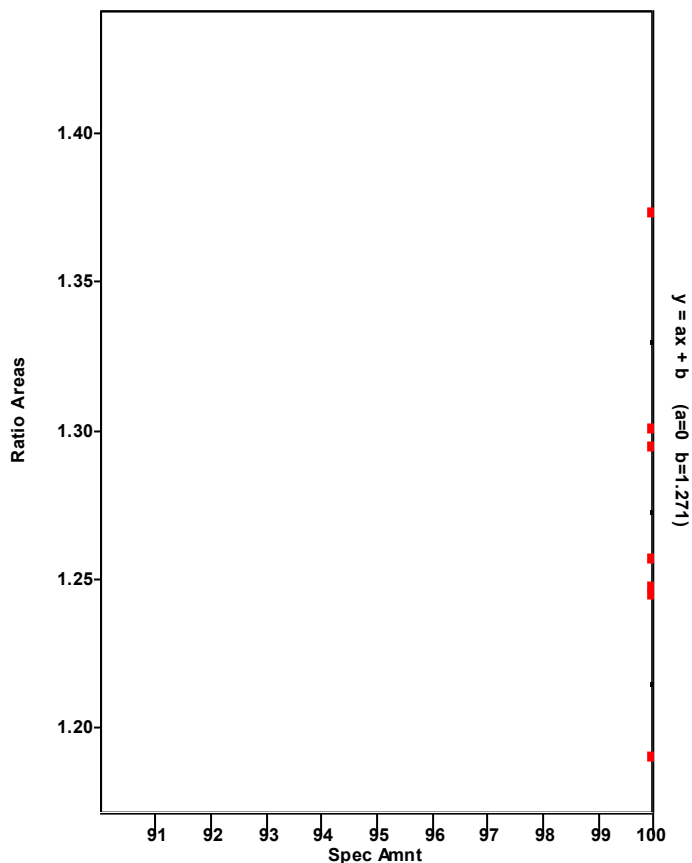


NL:
 5.01E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_24

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

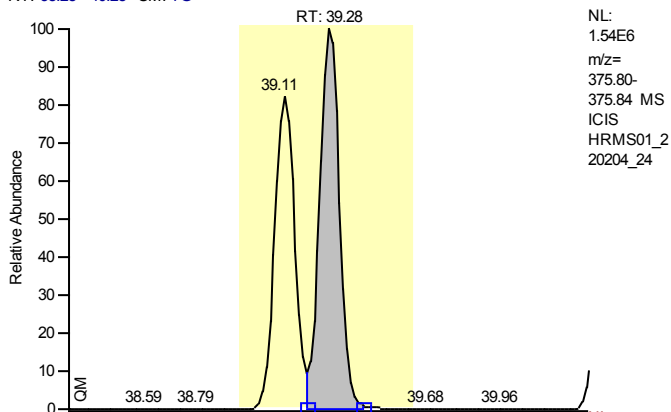
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



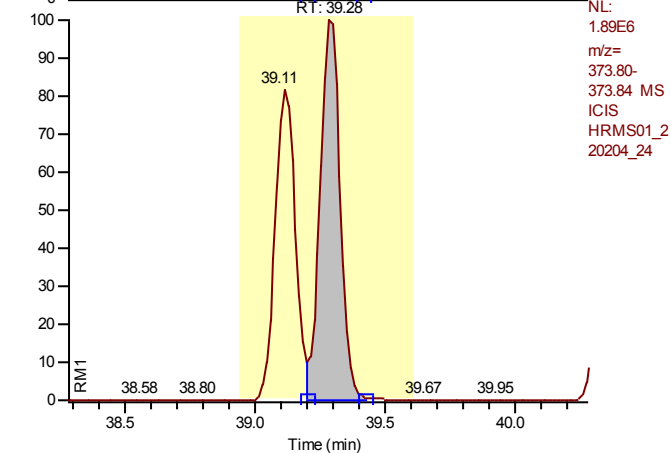
Chromatogram

Entry Parameters

RT: 38.28 - 40.28 SM: 7G



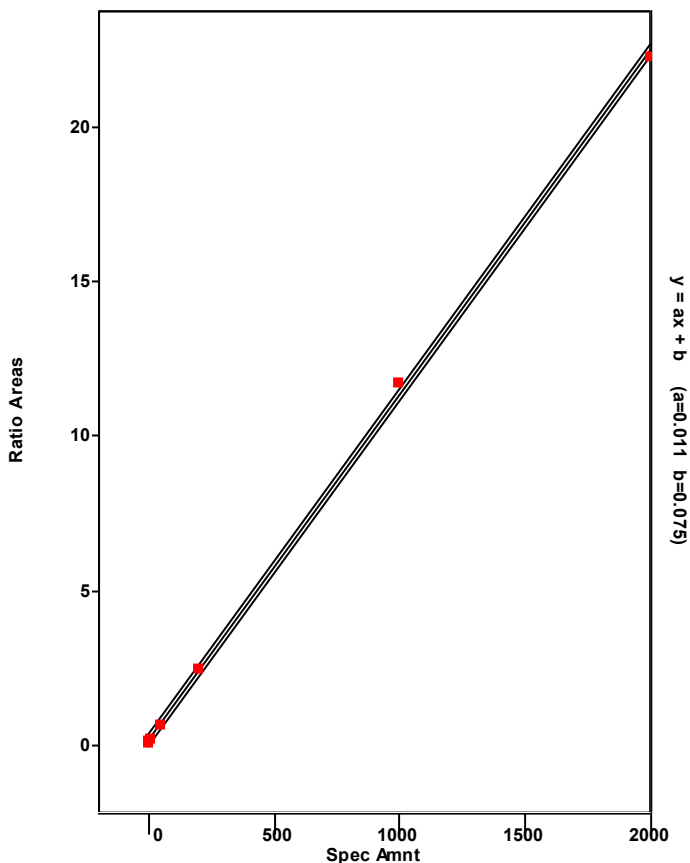
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	8133299
RM1 Area	10162098
RM1 Ratio (A)	1.2494
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

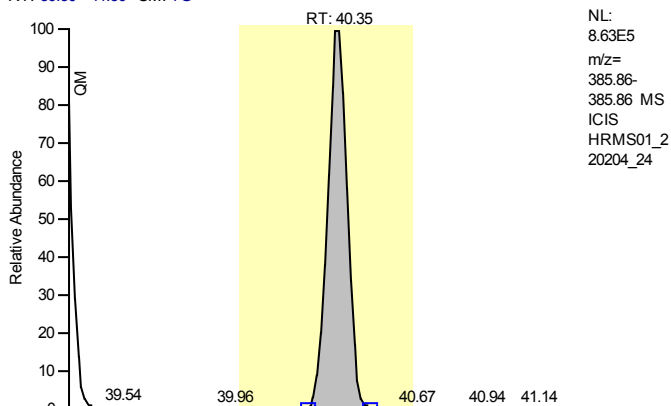
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



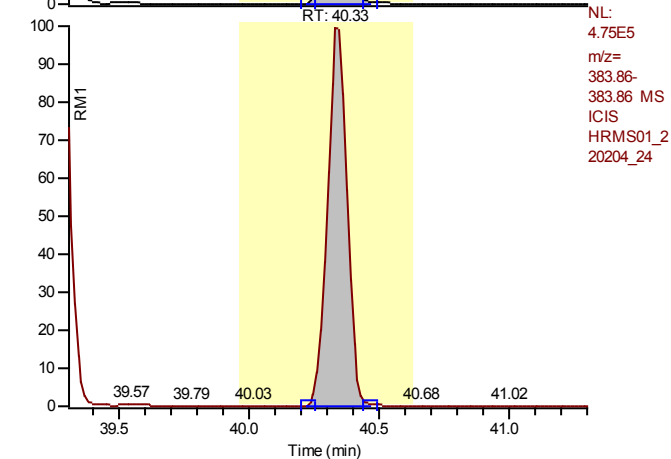
Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G



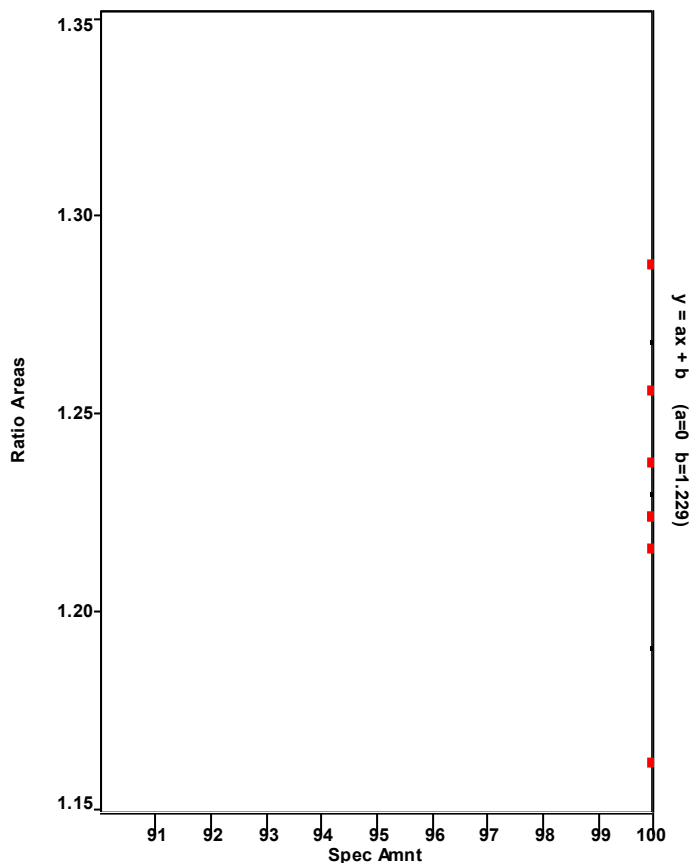
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	4566086
RM1 Area	2495830
RM1 Ratio (A)	0.5466
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

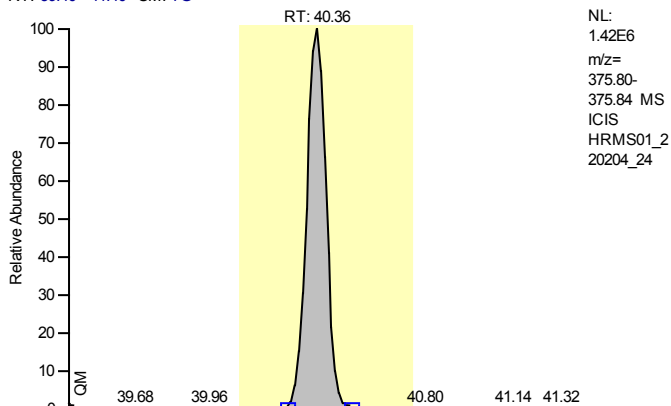
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



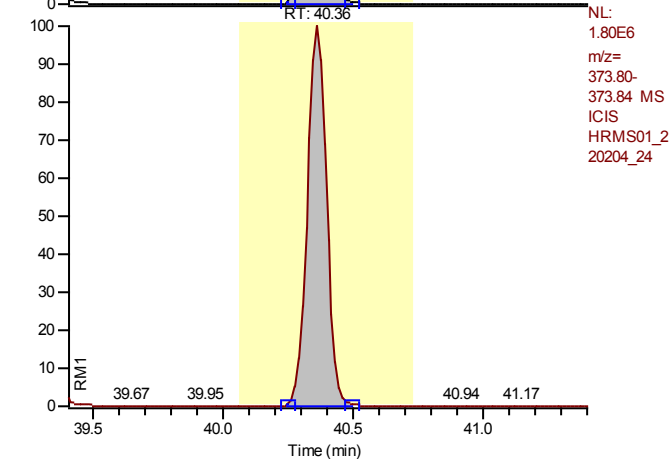
Chromatogram

Entry Parameters

RT: 39.40 - 41.40 SM: 7G



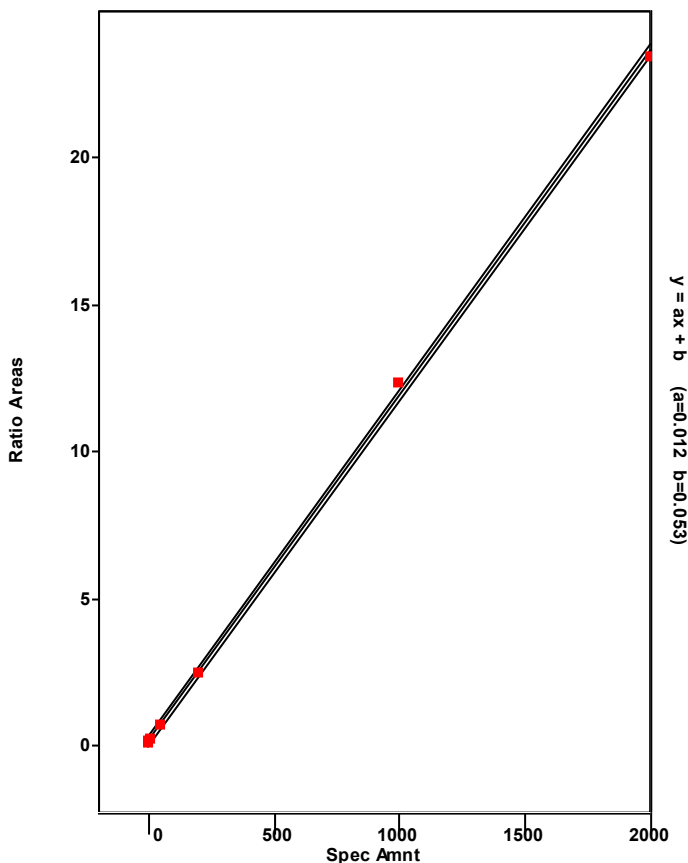
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	7397869
RM1 Area	9259967
RM1 Ratio (A)	1.2517
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

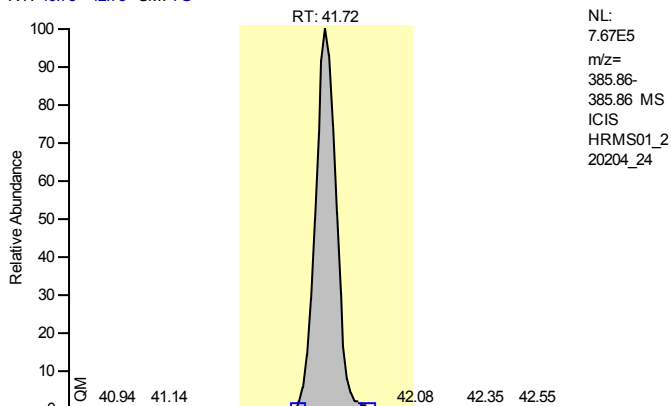
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



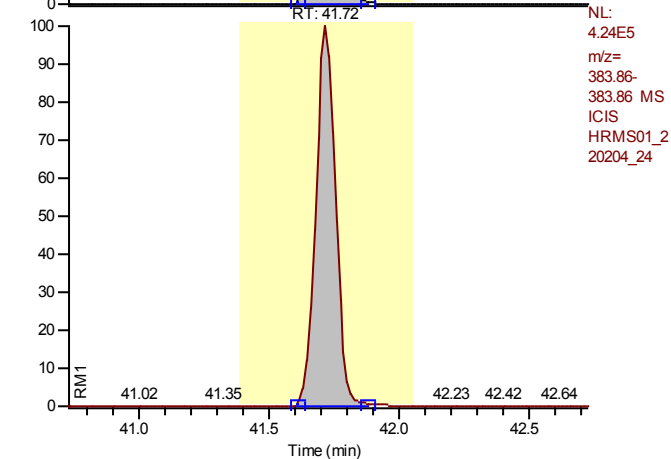
Chromatogram

Entry Parameters

RT: 40.73 - 42.73 SM: 7G



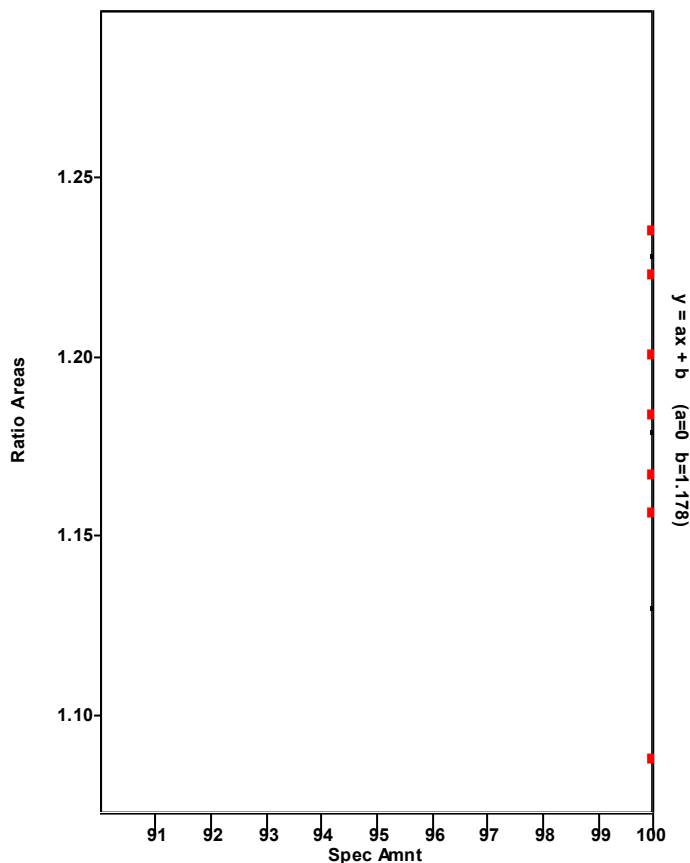
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	4253494
RM1 Area	2249118
RM1 Ratio (A)	0.5288
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

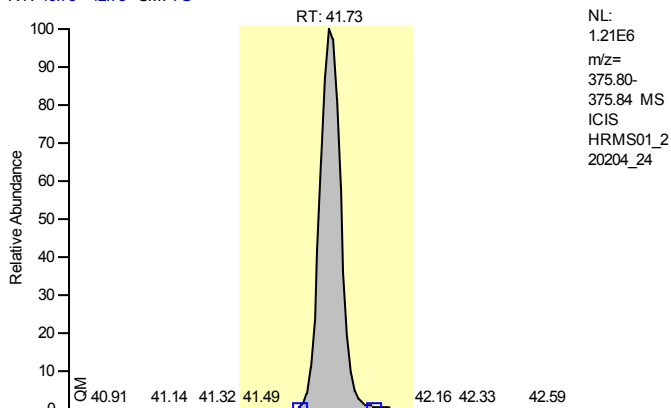
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



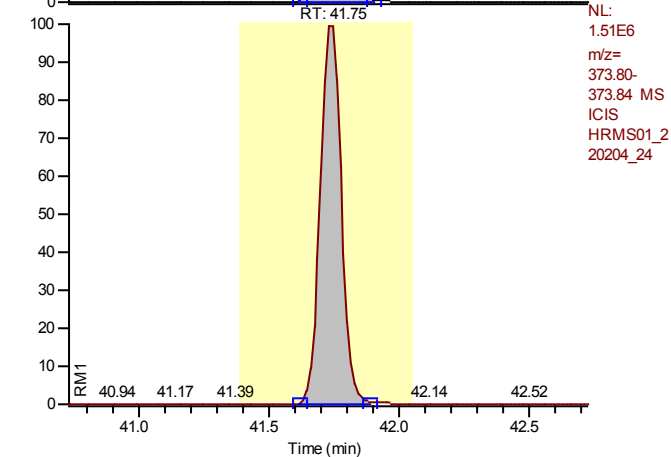
Chromatogram

Entry Parameters

RT: 40.73-42.73 SM: 7G



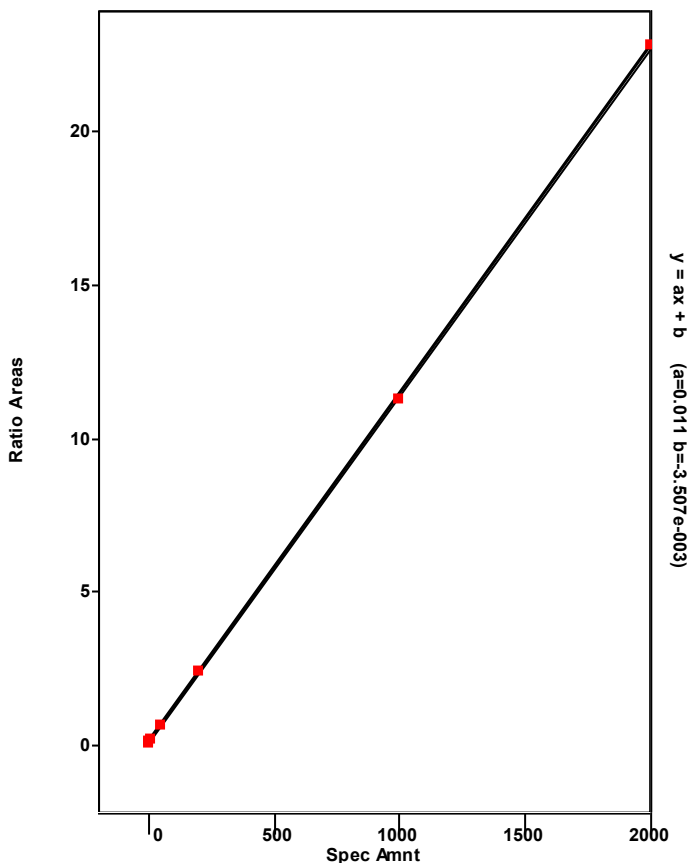
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	6685288
RM1 Area	8350203
RM1 Ratio (A)	1.2490
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

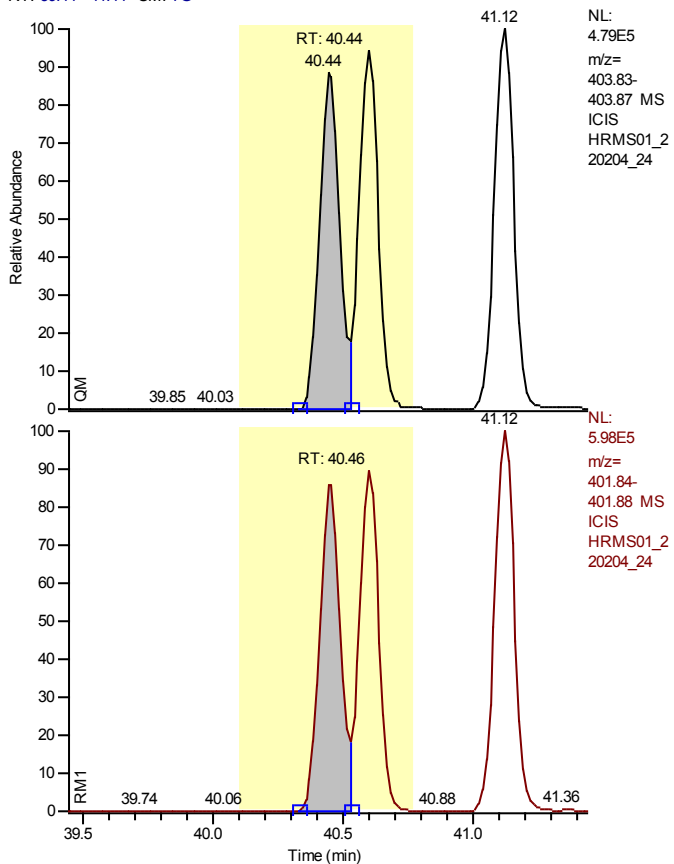
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

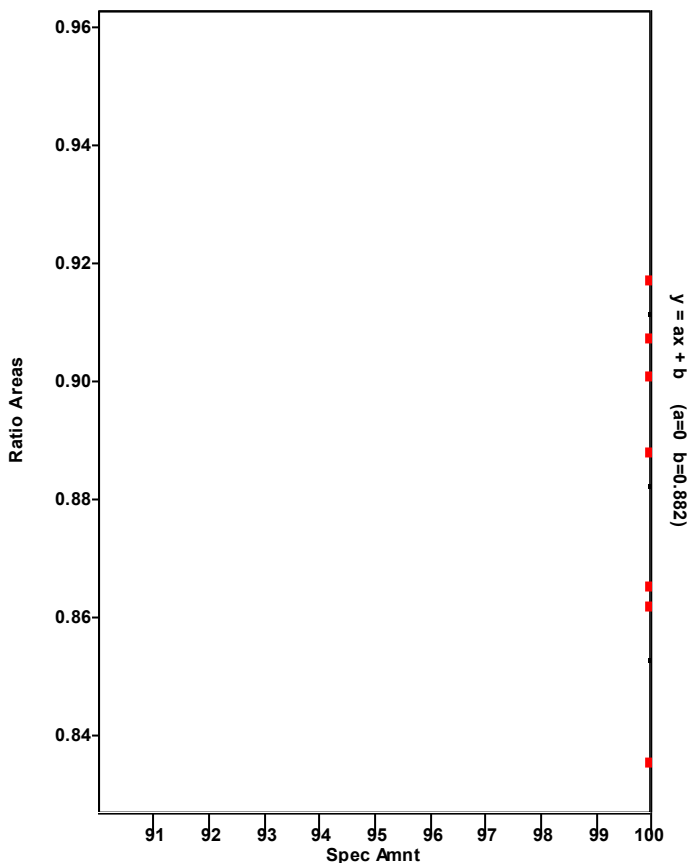
RT: 39.44 - 41.44 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2283292
RM1 Area	2818928
RM1 Ratio (A)	1.2346
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

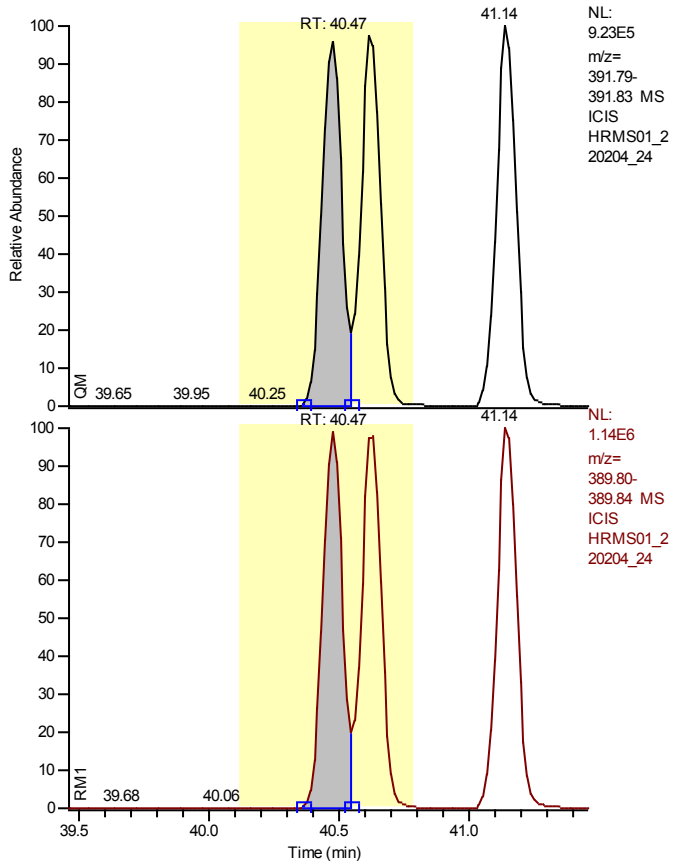
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.45 - 41.45 SM: 7G

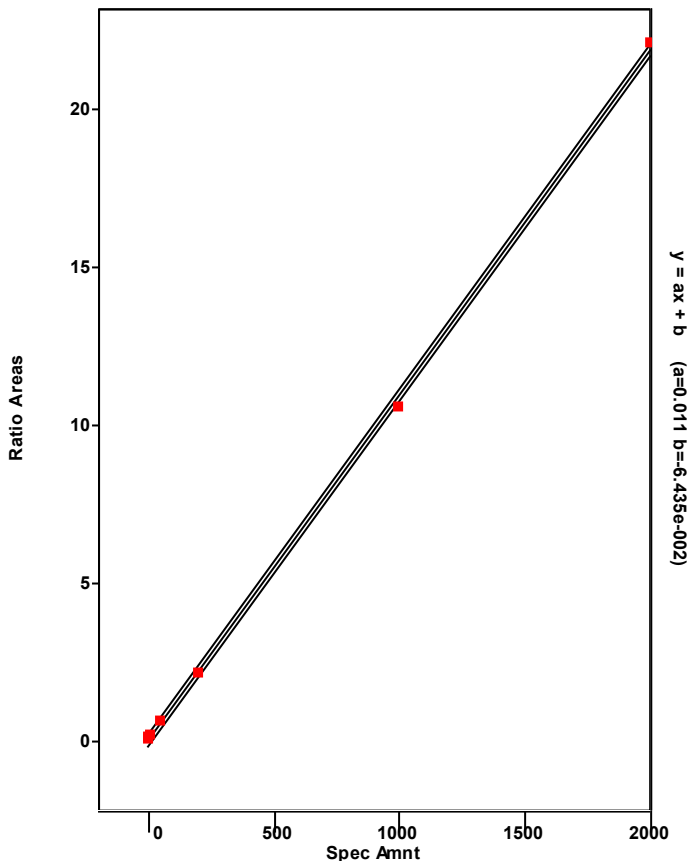


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	4657907
RM1 Area	5830381
RM1 Ratio (A)	1.2517
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

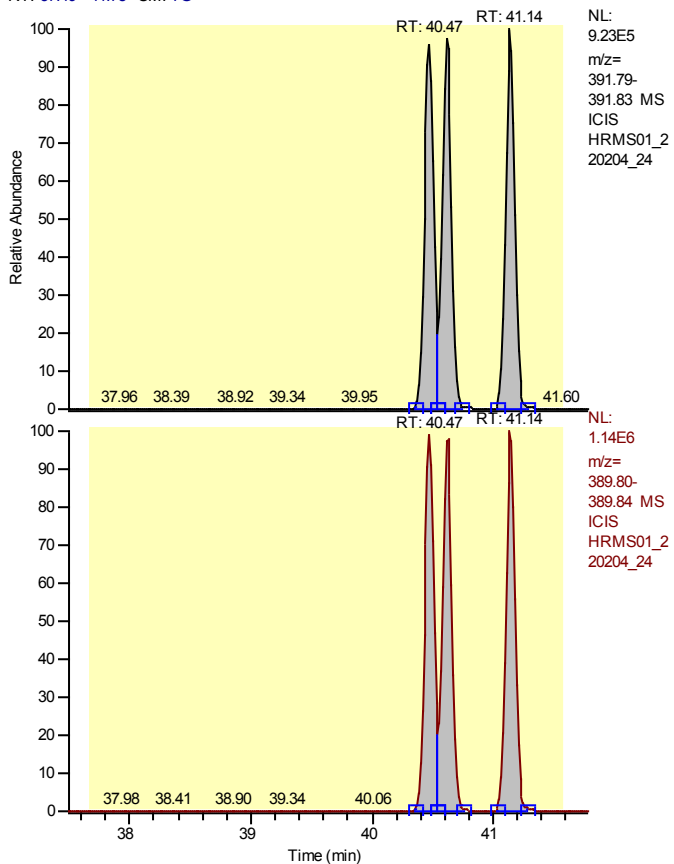
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.49 - 41.78 SM: 7G

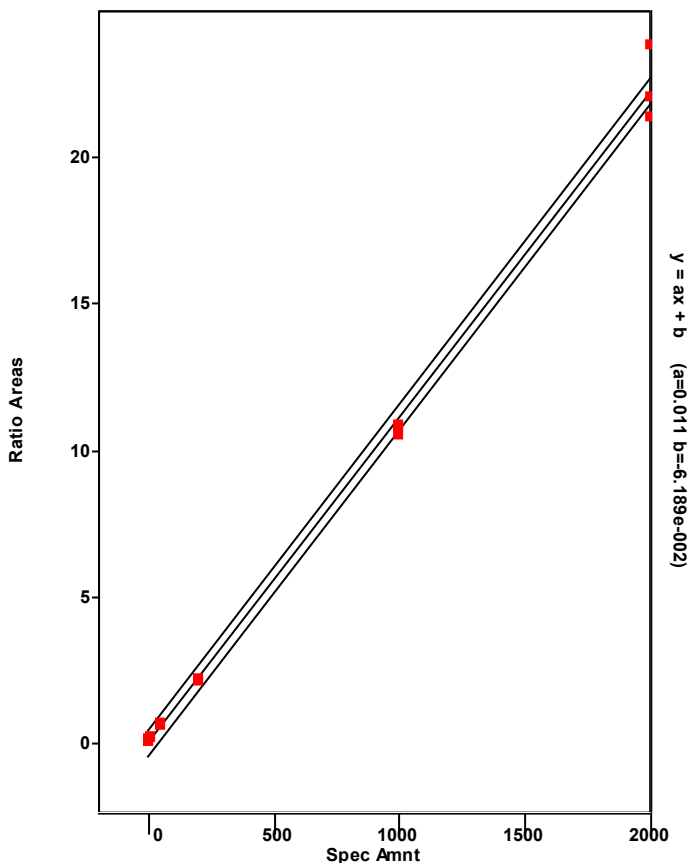


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	14248162
RM1 Area	17883410
RM1 Ratio (A)	1.2551
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	600.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

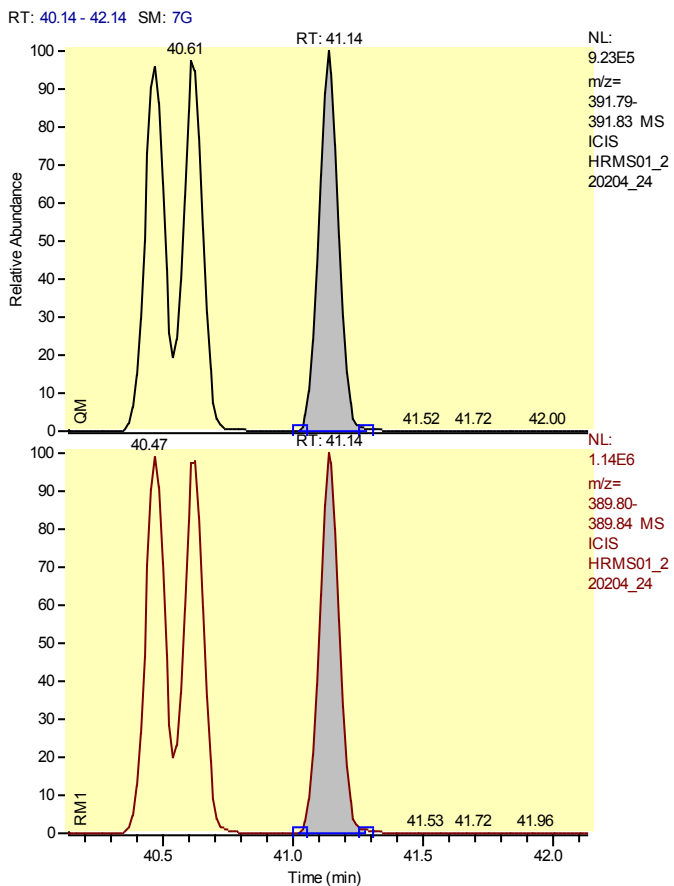
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

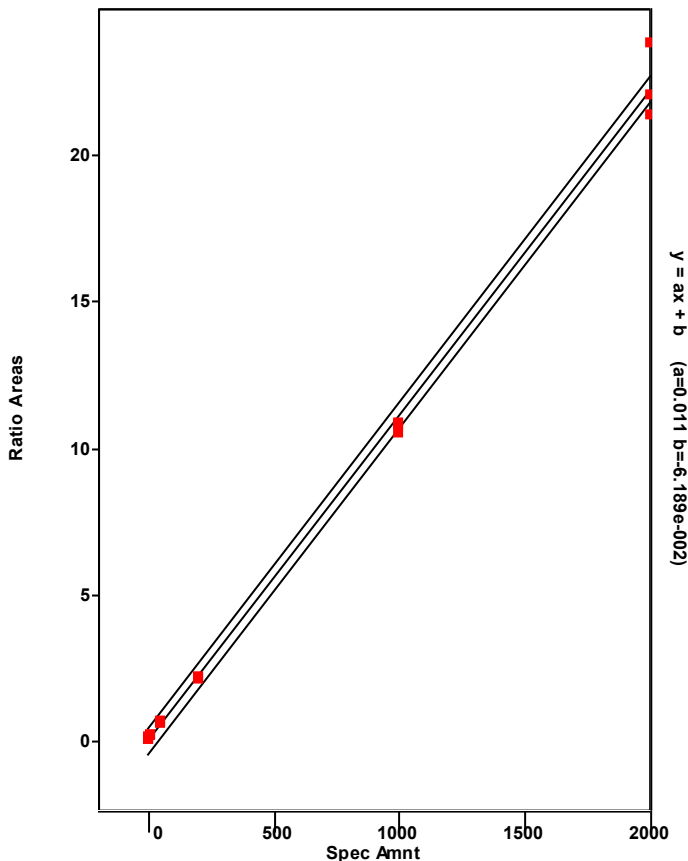


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	4861435
RM1 Area	6027717
RM1 Ratio (A)	1.2399
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

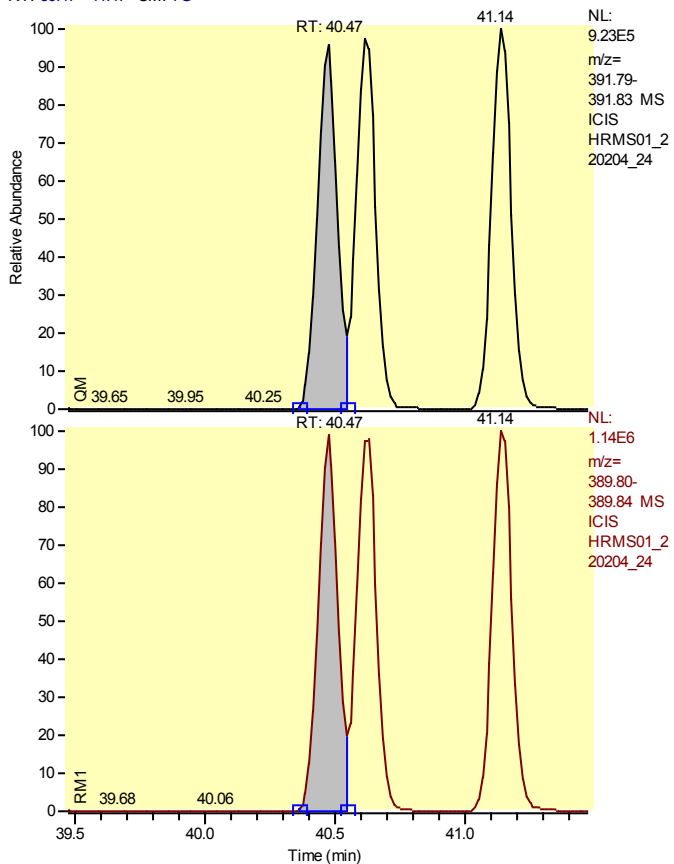
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.47 - 41.47 SM: 7G

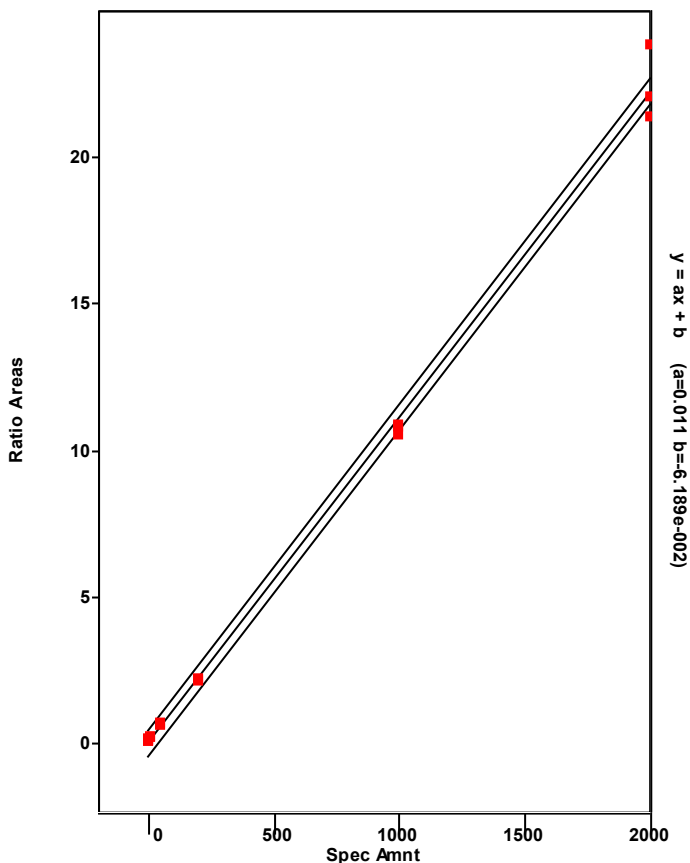


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	4657907
RM1 Area	5830381
RM1 Ratio (A)	1.2517
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

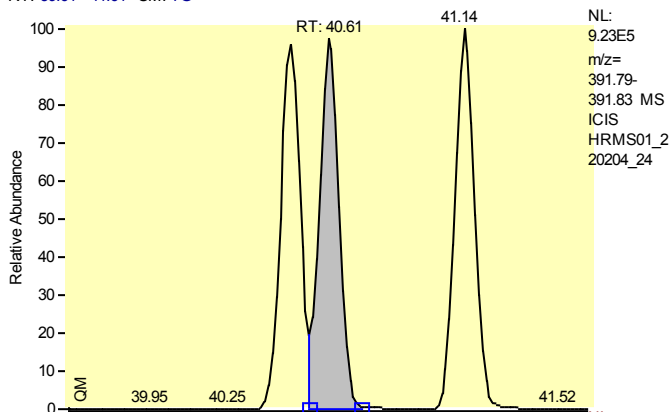
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



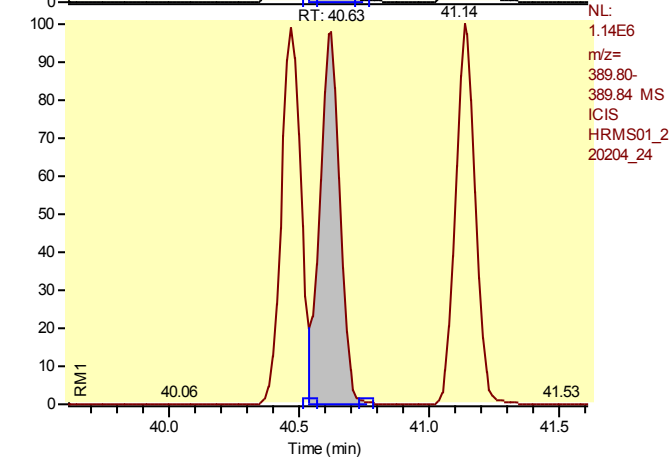
Chromatogram

Entry Parameters

RT: 39.61 - 41.61 SM: 7G



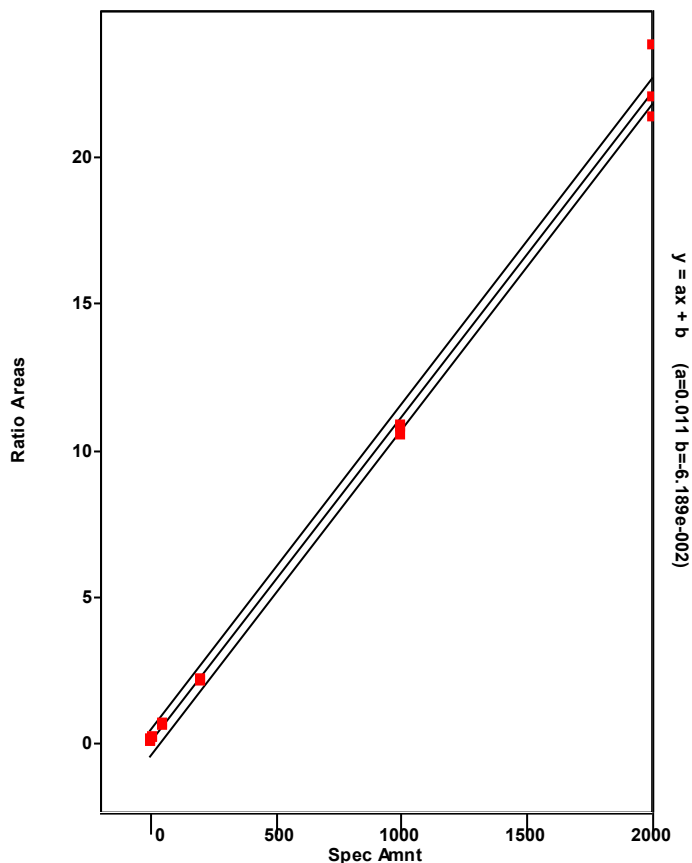
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	4728820
RM1 Area	6025312
RM1 Ratio (A)	1.2742
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

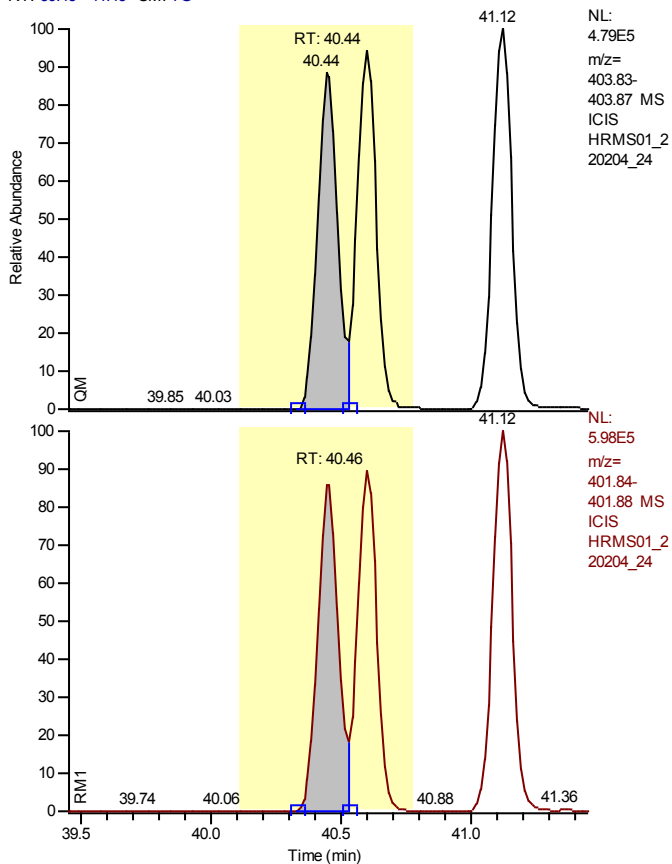
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

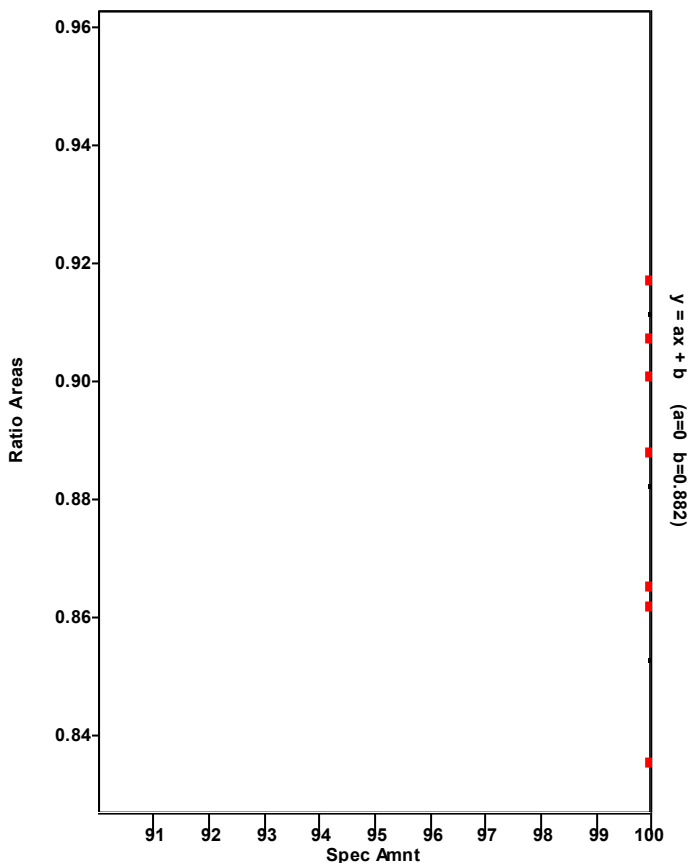
RT: 39.45 - 41.45 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2283292
RM1 Area	2818928
RM1 Ratio (A)	1.2346
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

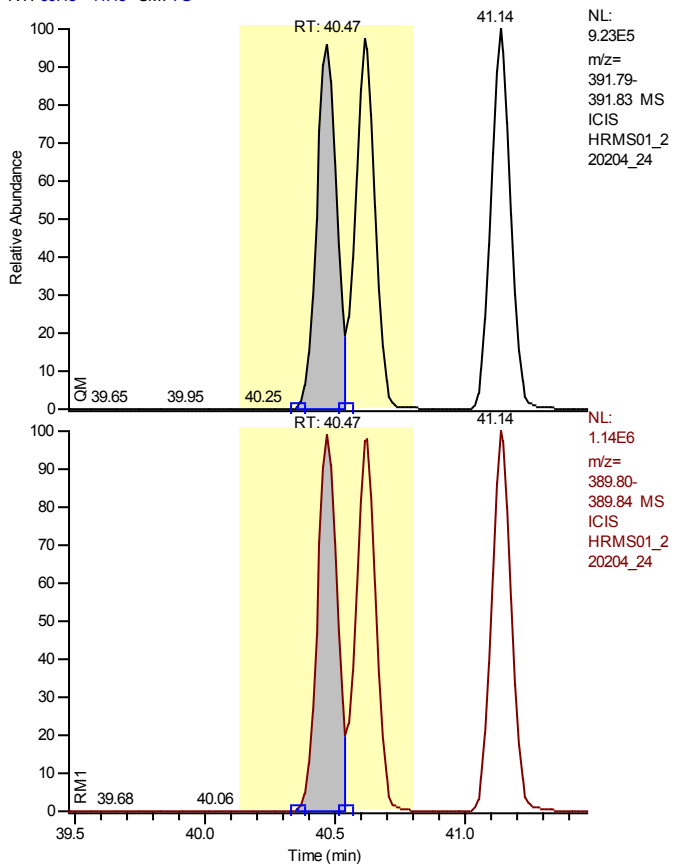
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.48 - 41.48 SM: 7G

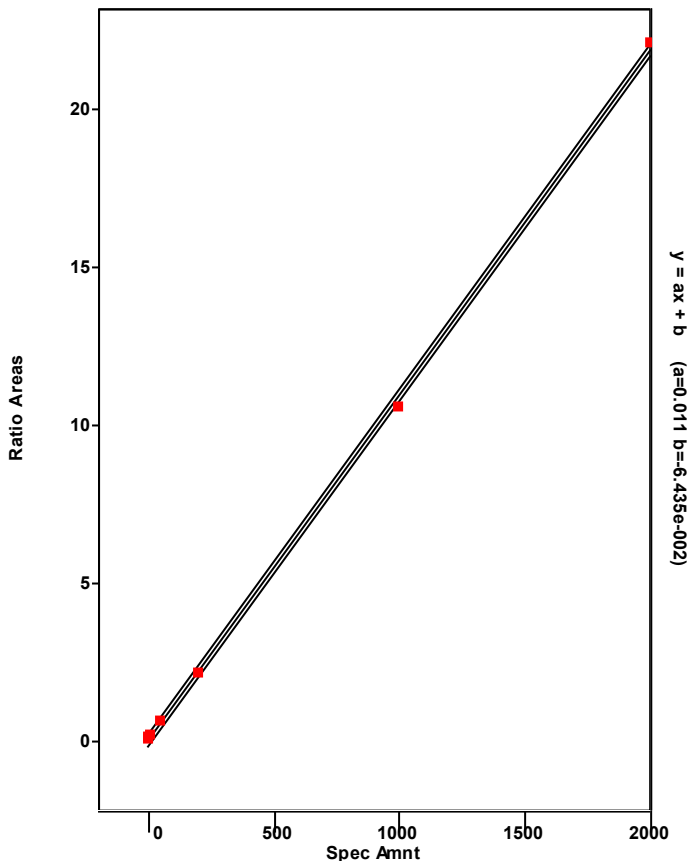


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	4657907
RM1 Area	5830381
RM1 Ratio (A)	1.2517
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

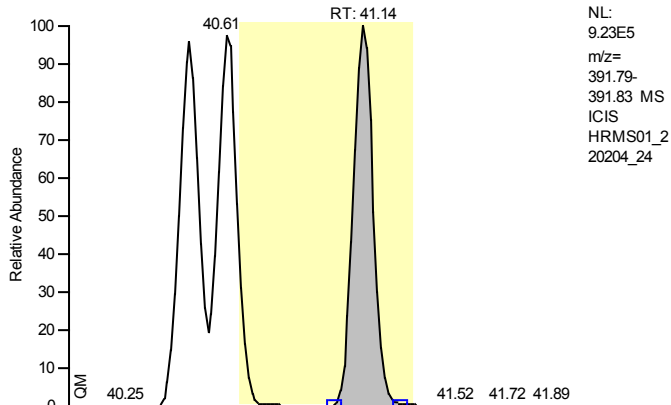
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



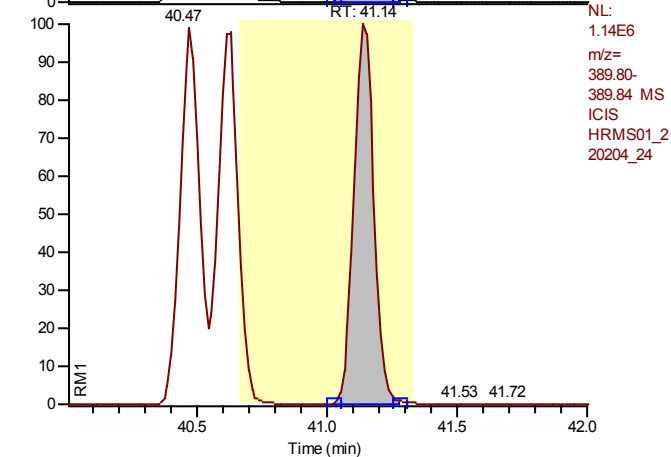
Chromatogram

Entry Parameters

RT: 40.00 - 42.00 SM: 7G



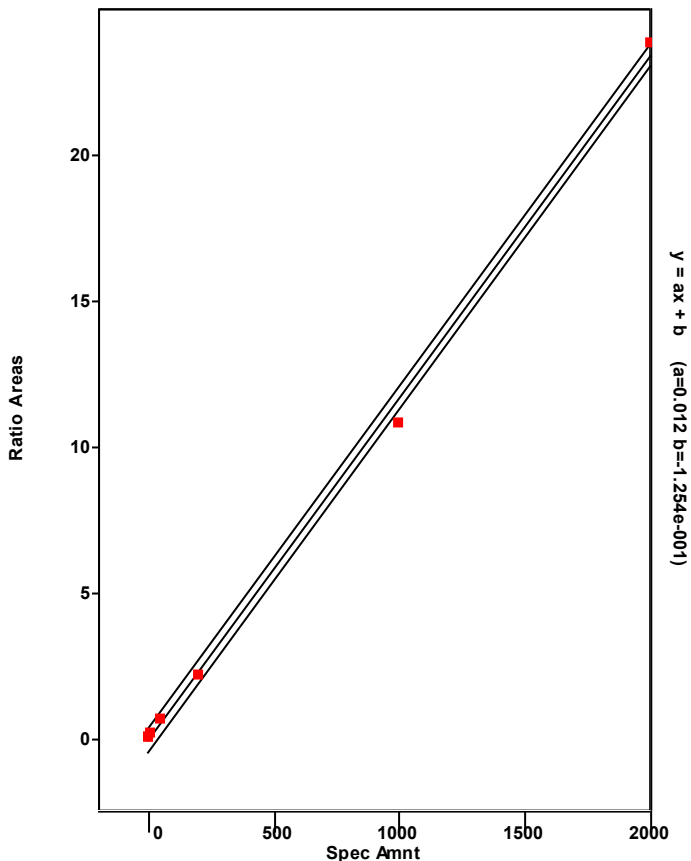
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	4861435
RM1 Area	6027717
RM1 Ratio (A)	1.2399
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

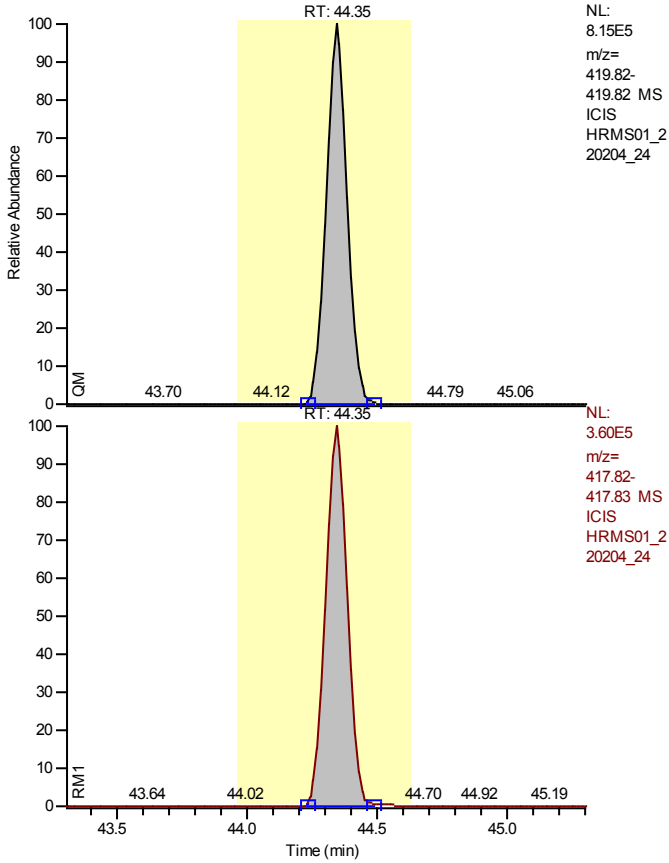
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

Entry Parameters

RT: 43.31 - 45.31 SM: 7G



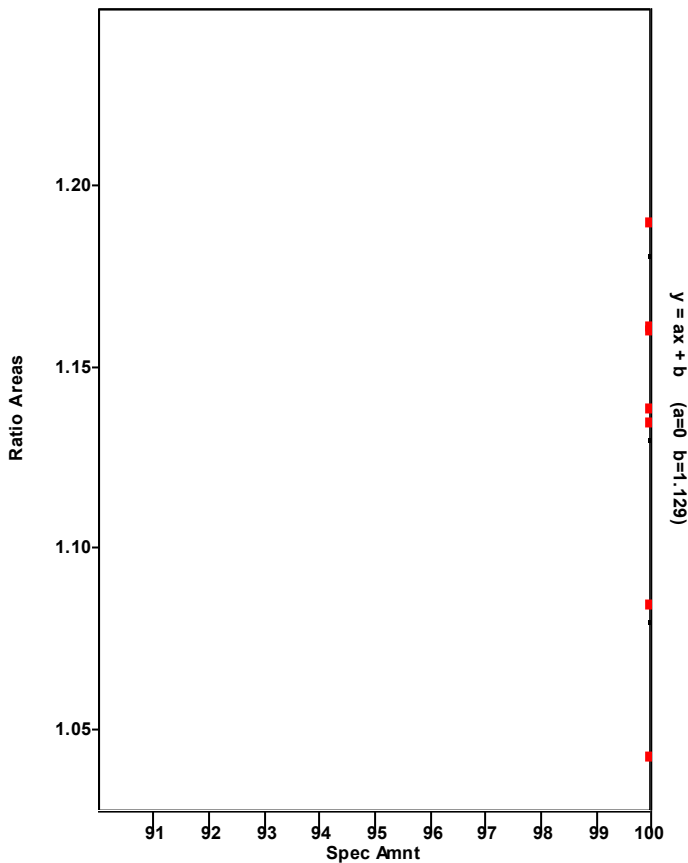
NL:
 8.15E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20204_24

NL:
 3.60E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20204_24

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4590159
RM1 Area	2099299
RM1 Ratio (A)	0.4573
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

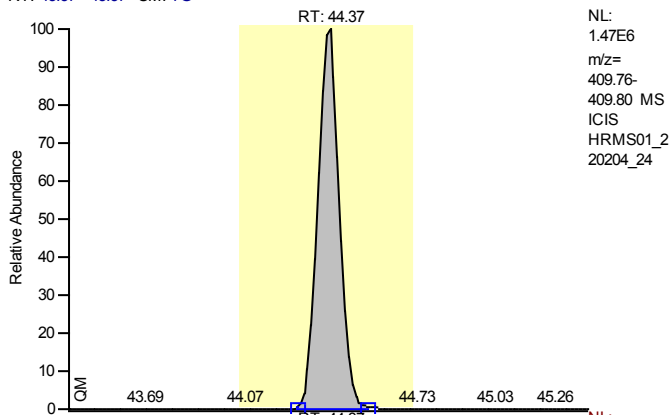
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



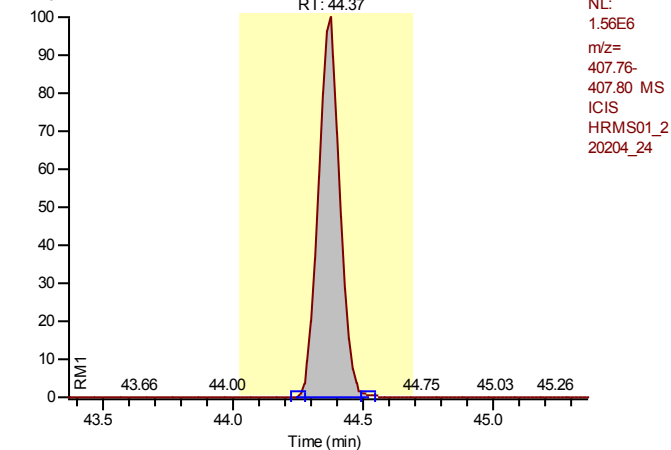
Chromatogram

Entry Parameters

RT: 43.37 - 45.37 SM: 7G



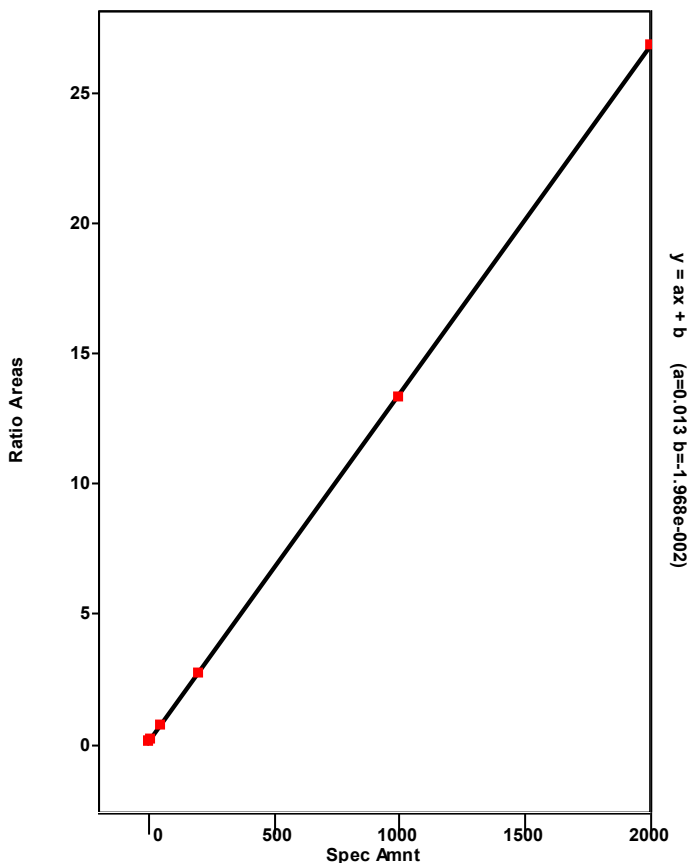
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	8534621
RM1 Area	8992467
RM1 Ratio (A)	1.0536
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

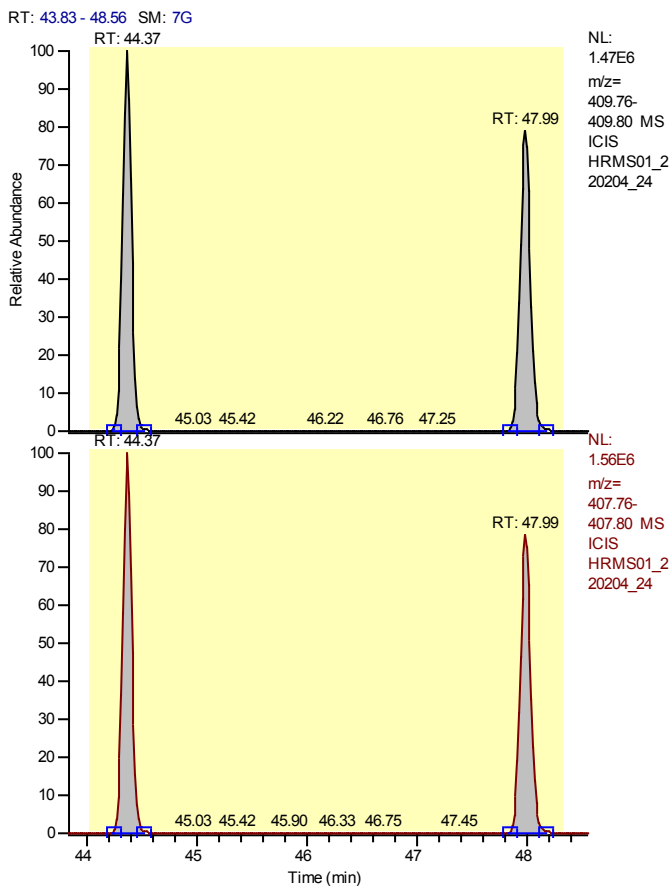
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

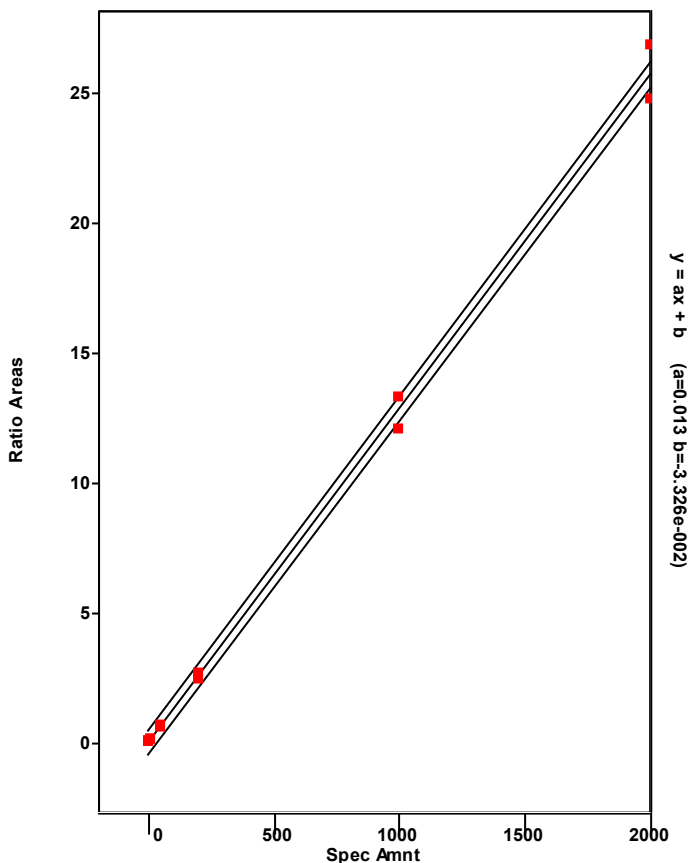


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	16304918
RM1 Area	17206034
RM1 Ratio (A)	1.0553
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	400.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

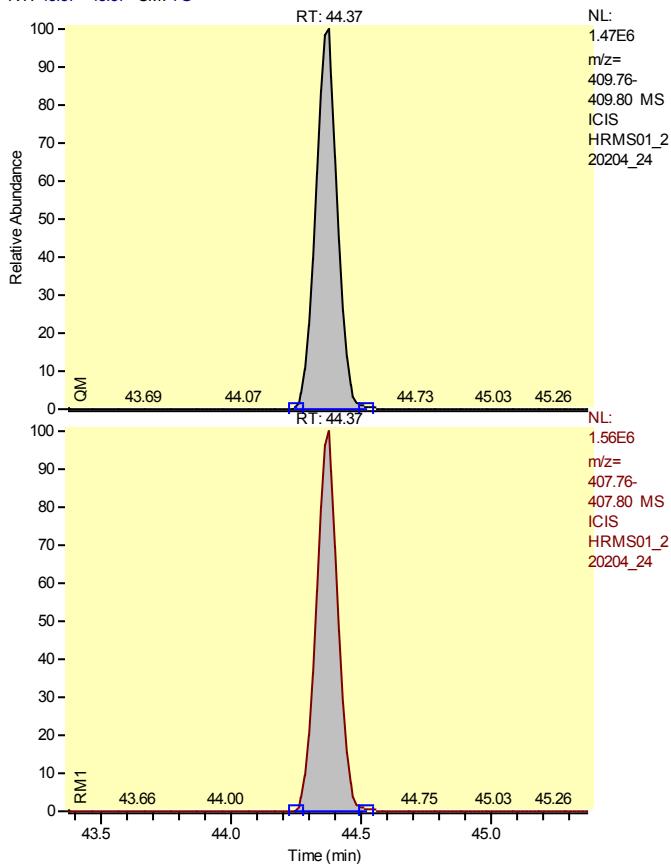
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.37 - 45.37 SM: 7G

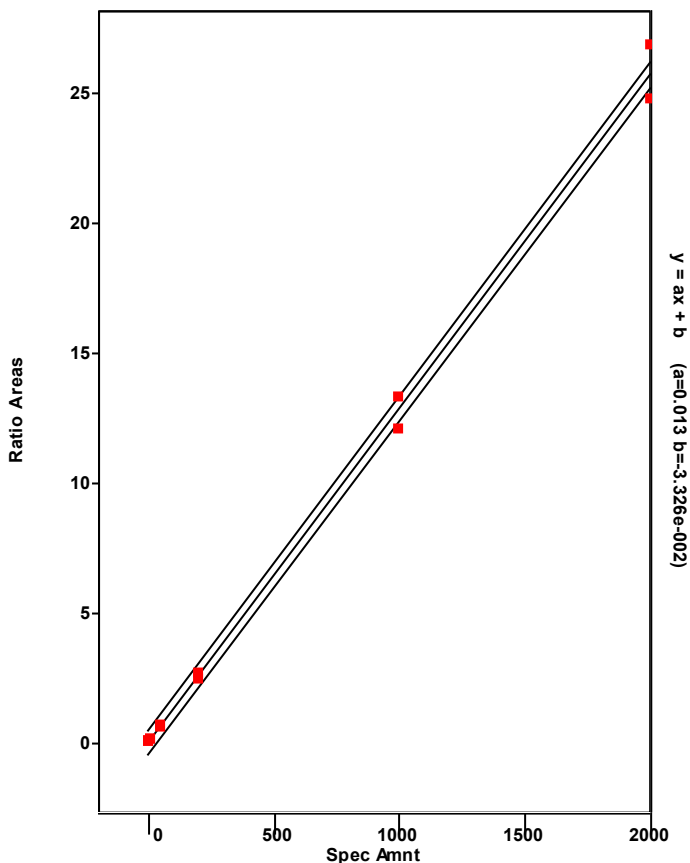


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	8534621
RM1 Area	8992467
RM1 Ratio (A)	1.0536
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

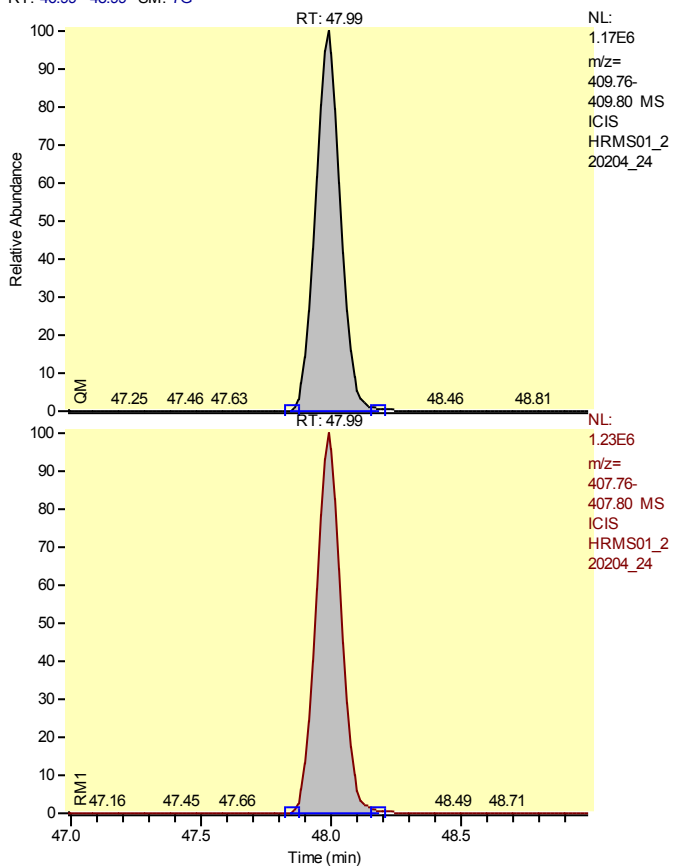
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G

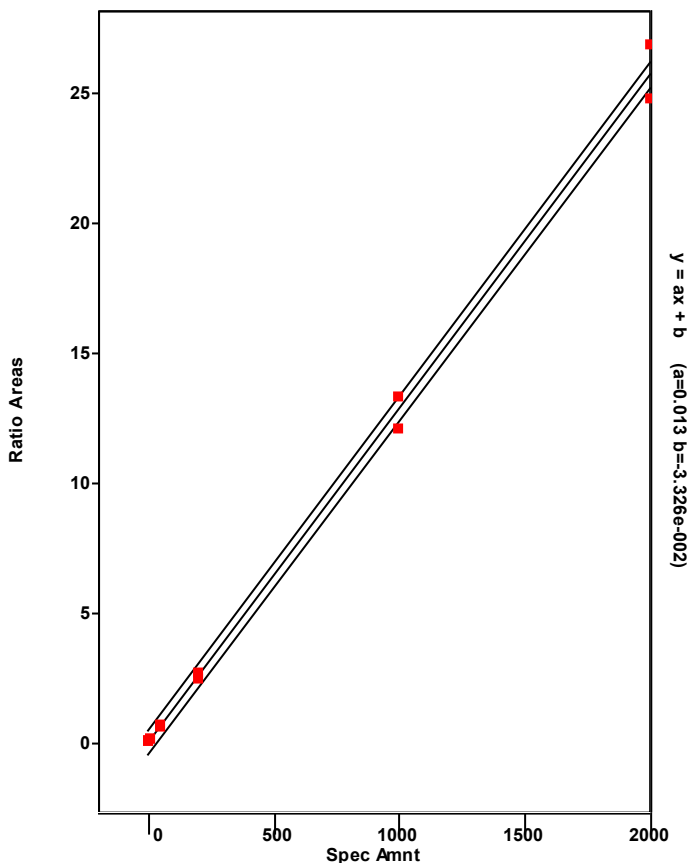


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	7770297
RM1 Area	8213567
RM1 Ratio (A)	1.0570
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

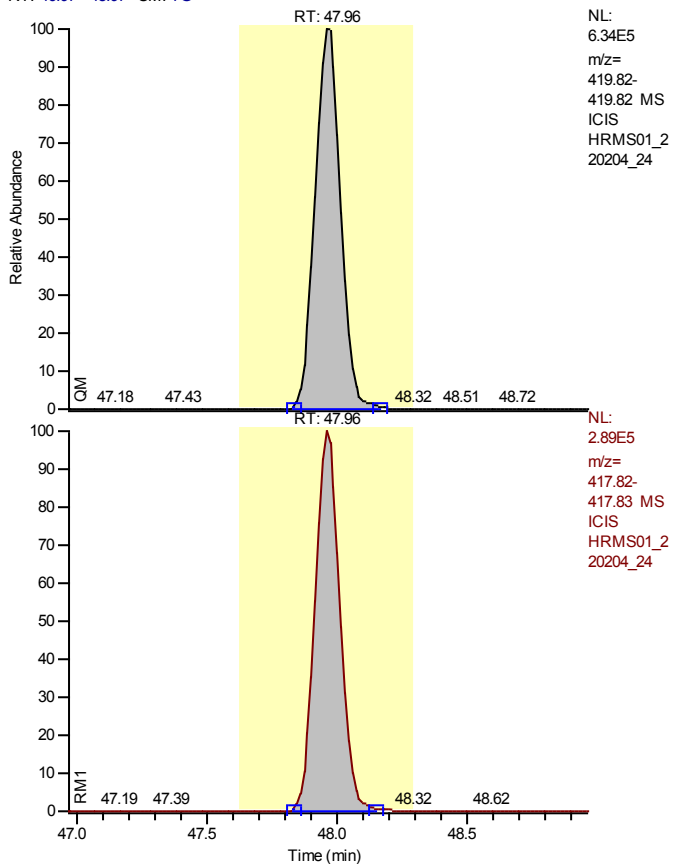
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.97 - 48.97 SM: 7G



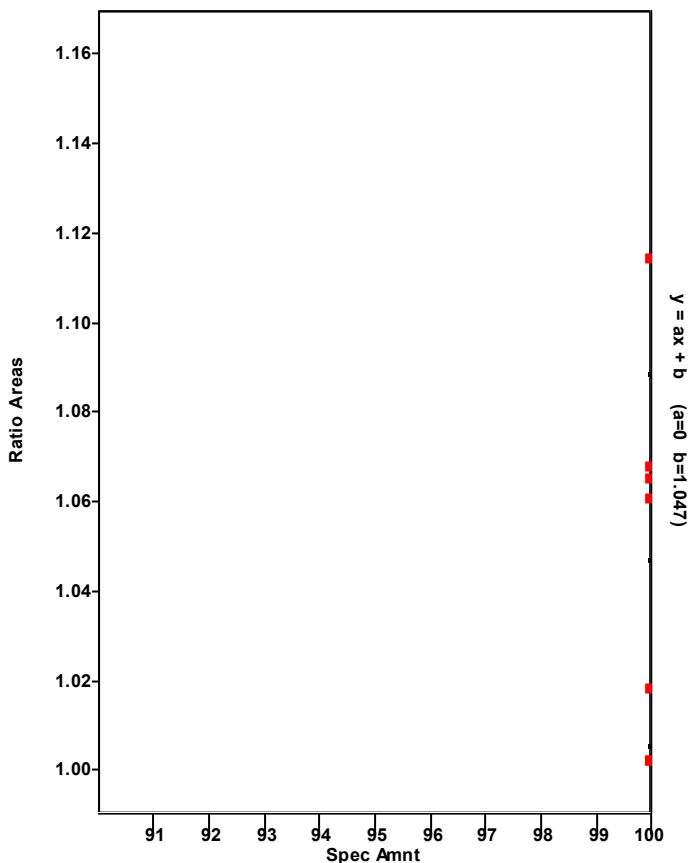
NL:
 6.34E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20204_24

NL:
 2.89E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20204_24

Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	4345583
RM1 Area	1920567
RM1 Ratio (A)	0.4420
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

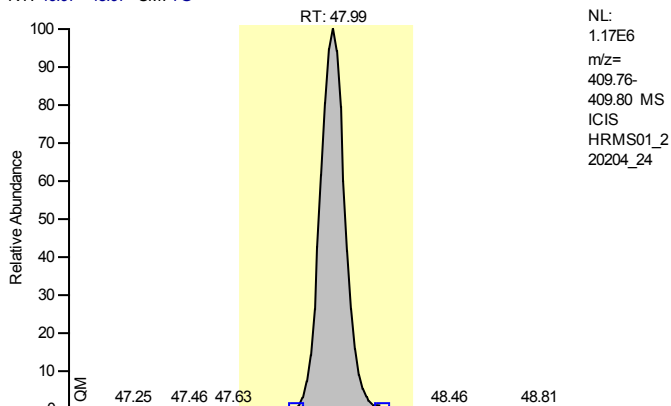
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



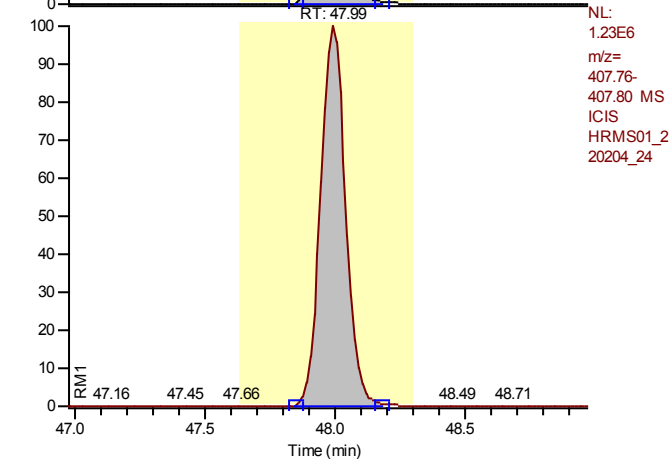
Chromatogram

Entry Parameters

RT: 46.97 - 48.97 SM: 7G



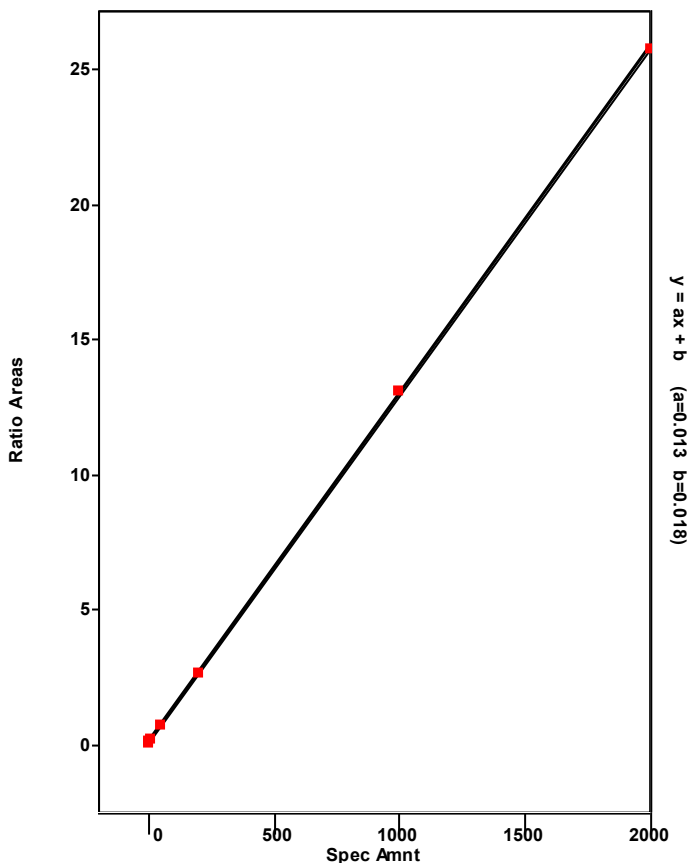
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	7770297
RM1 Area	8213567
RM1 Ratio (A)	1.0570
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

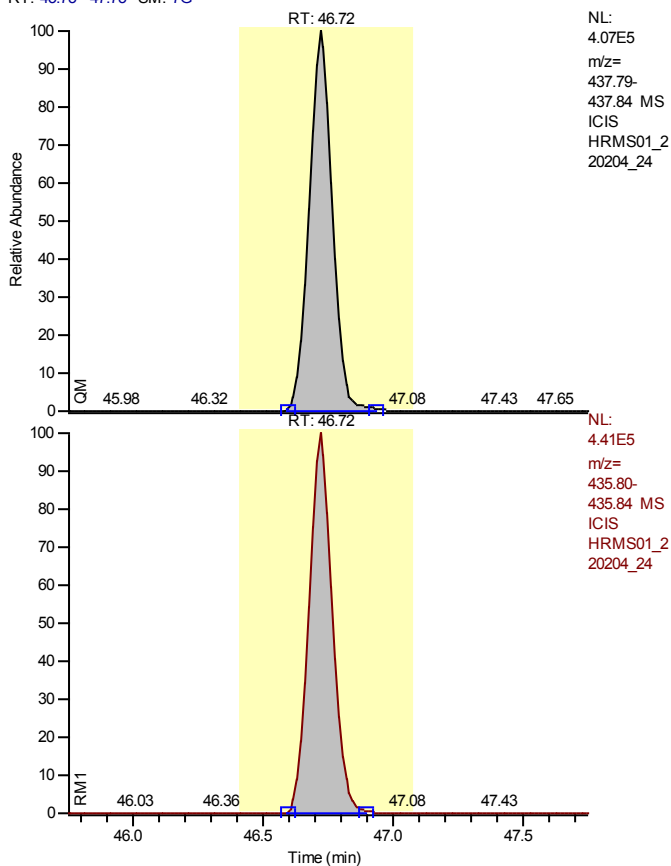
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.75 - 47.75 SM: 7G



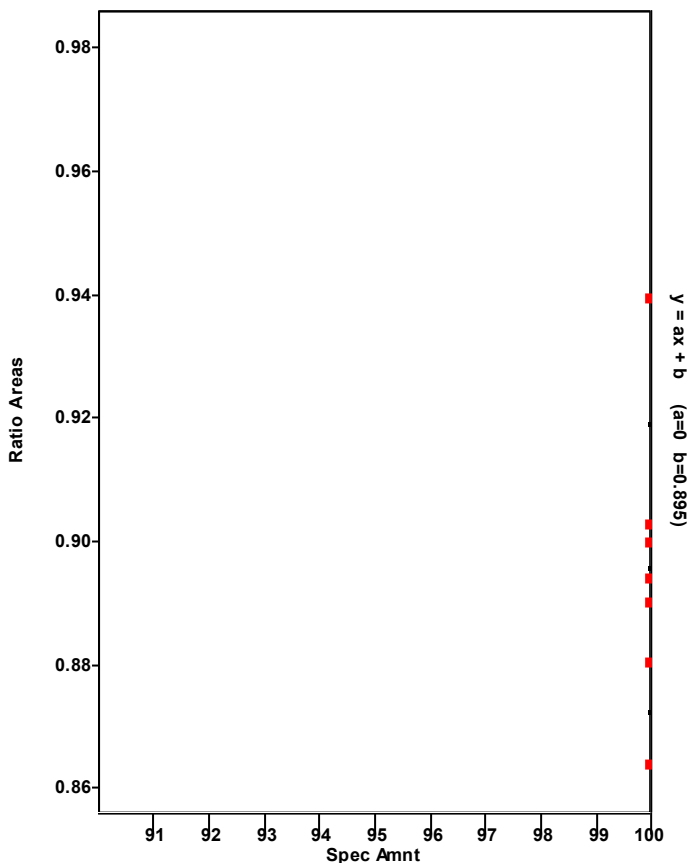
NL:
4.07E5
m/z=
437.79-
437.84 MS
ICIS
HRMS01_2
20204_24

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2526011
RM1 Area	2757178
RM1 Ratio (A)	1.0915
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
4.41E5
m/z=
435.80-
435.84 MS
ICIS
HRMS01_2
20204_24

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

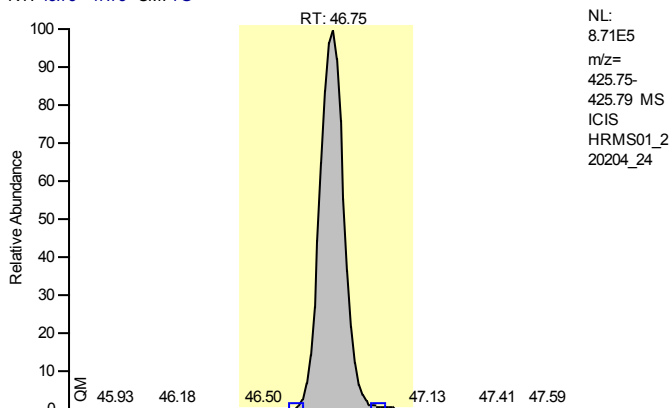
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



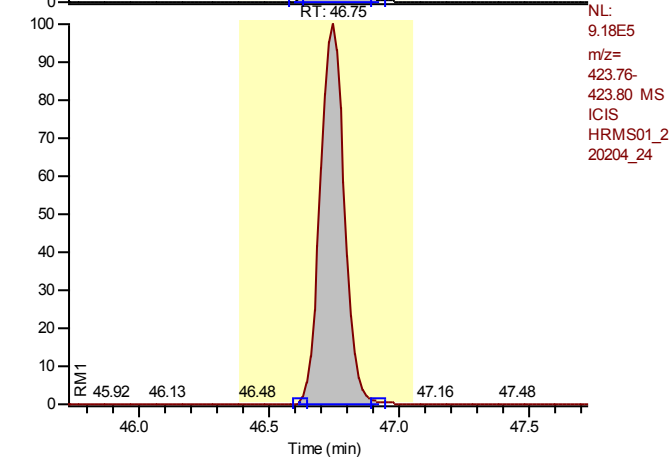
Chromatogram

Entry Parameters

RT: 45.73 - 47.73 SM: 7G



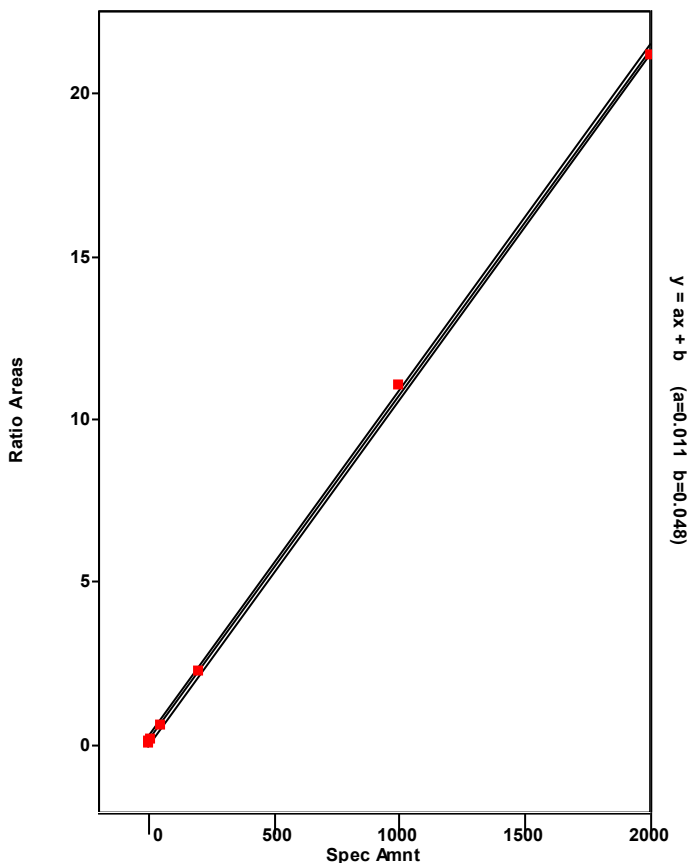
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	5618968
RM1 Area	5905167
RM1 Ratio (A)	1.0509
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

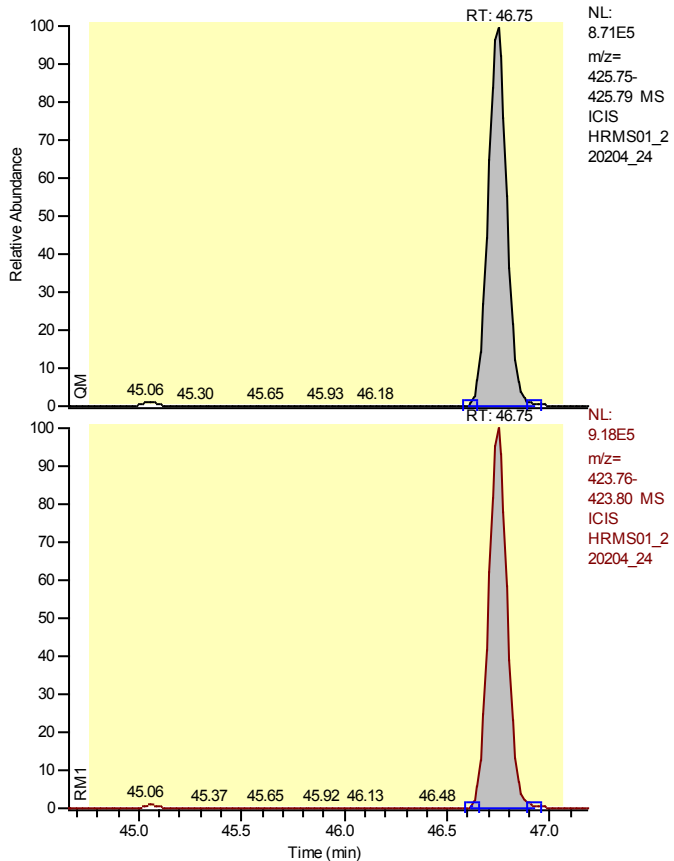
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.66 - 47.19 SM: 7G

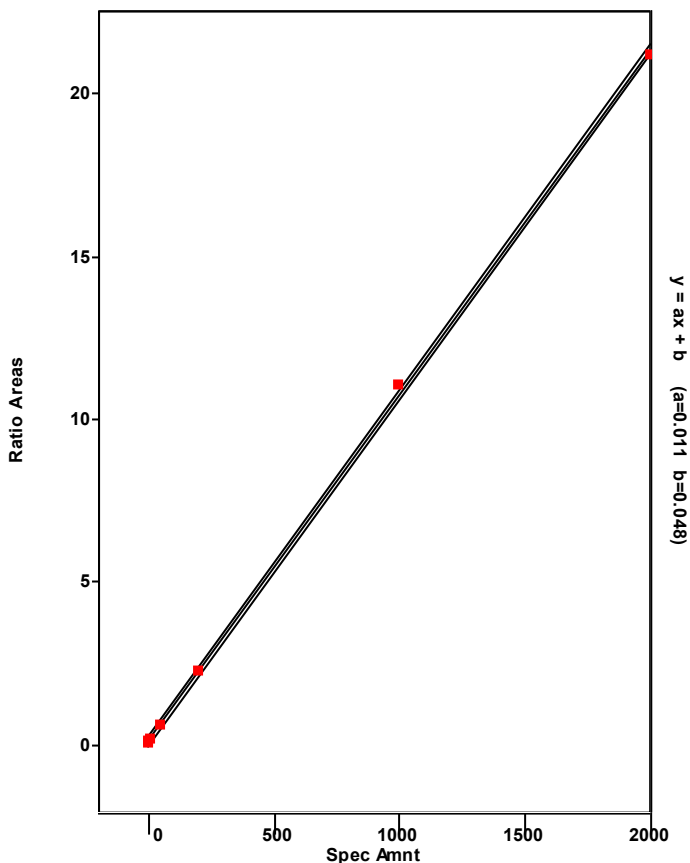


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	5618968
RM1 Area	5905167
RM1 Ratio (A)	1.0509
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

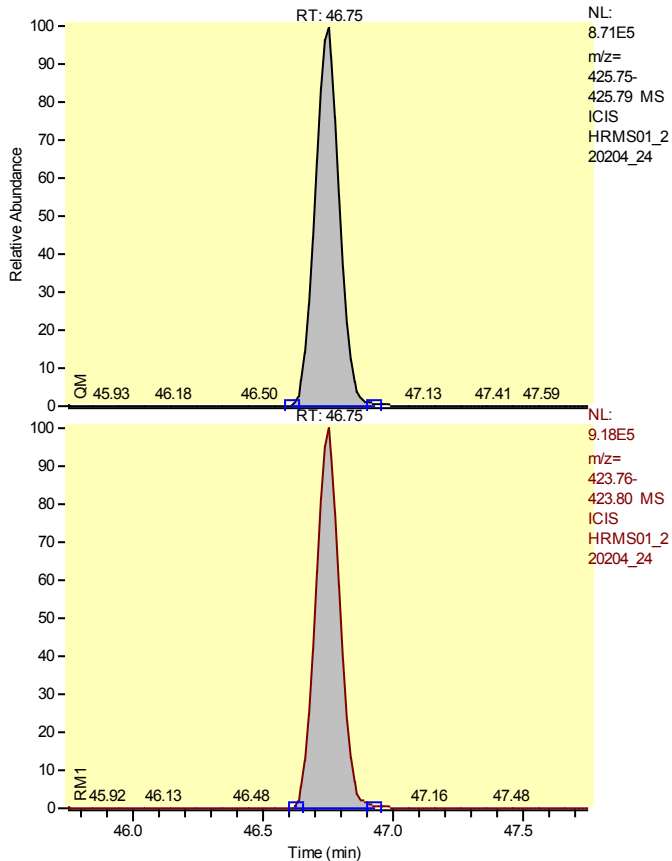
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.75 - 47.75 SM: 7G

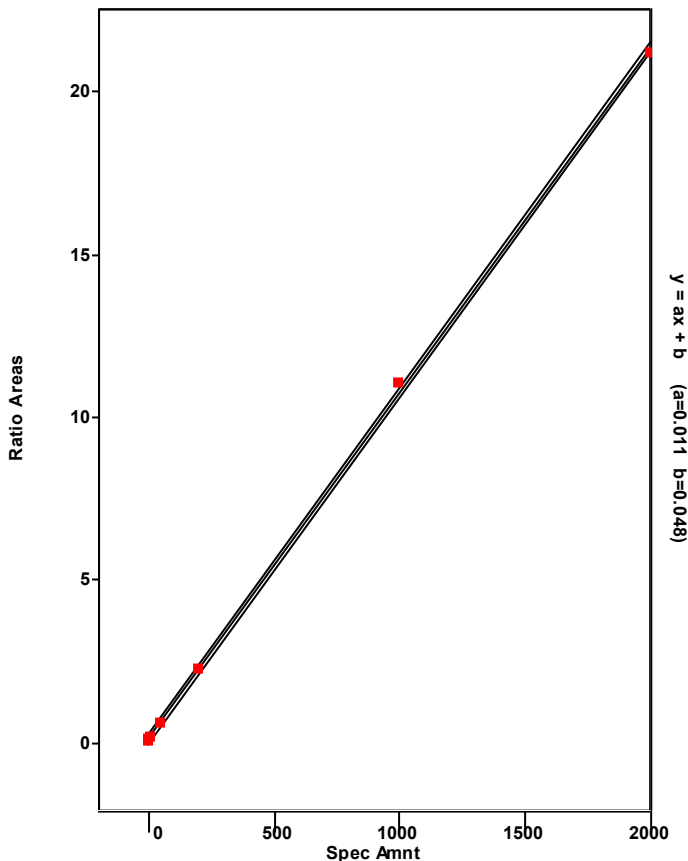


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	5618968
RM1 Area	5905167
RM1 Ratio (A)	1.0509
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

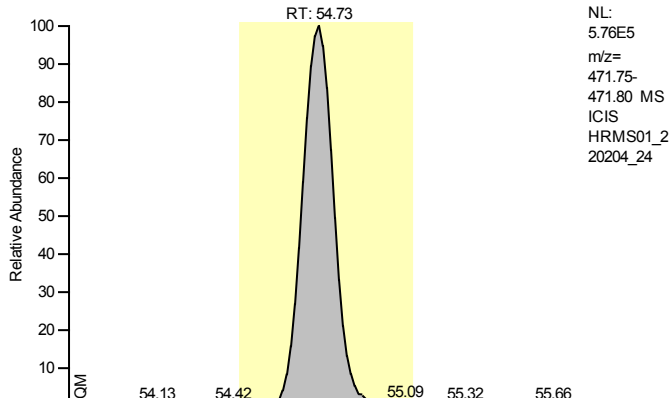
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



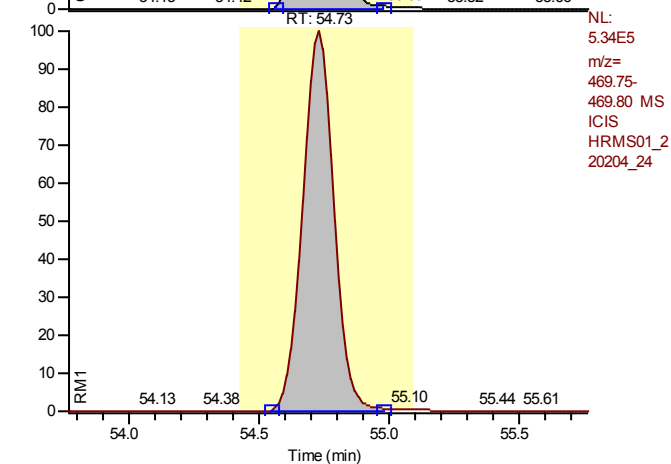
Chromatogram

Entry Parameters

RT: 53.76 - 55.76 SM: 7G



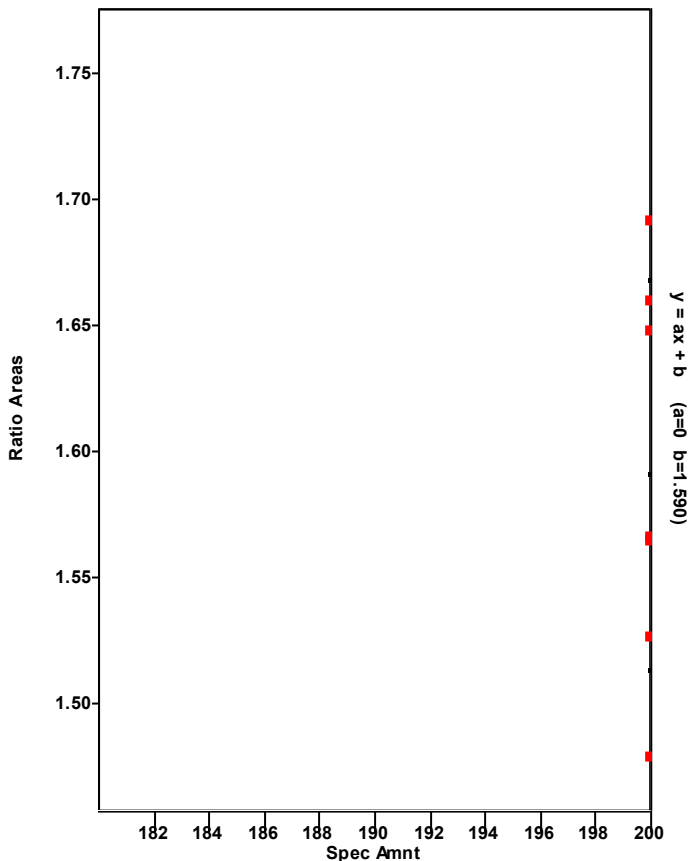
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4858204
RM1 Area	4476837
RM1 Ratio (A)	0.9215
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

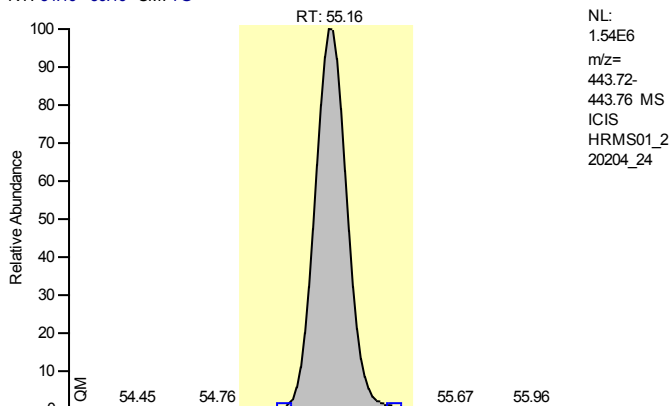
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



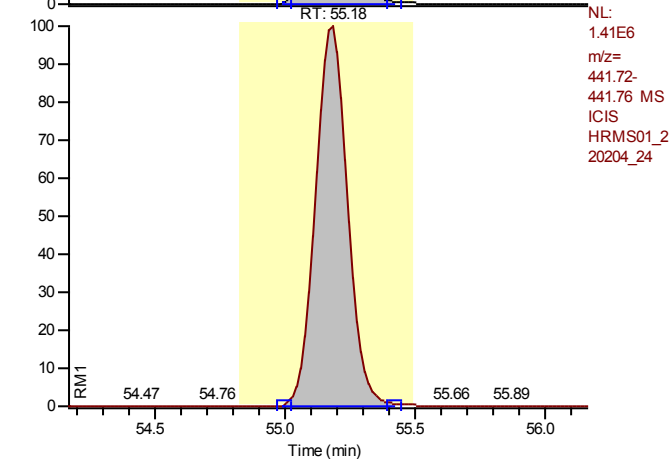
Chromatogram

Entry Parameters

RT: 54.16 - 56.16 SM: 7G



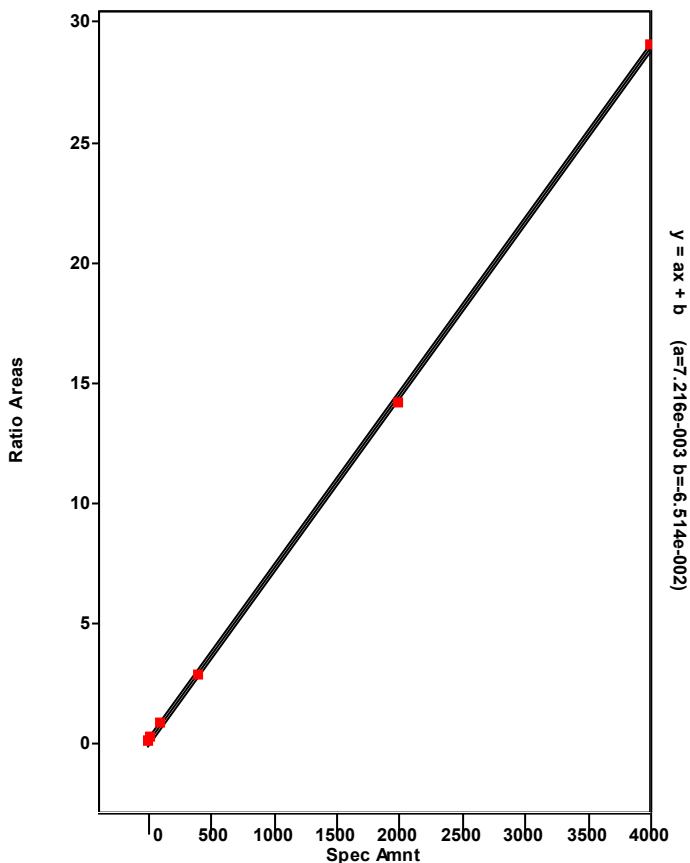
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	13216357
RM1 Area	12114917
RM1 Ratio (A)	0.9167
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.1200
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

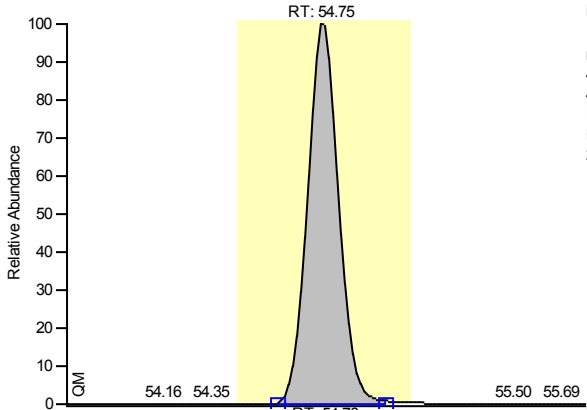
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

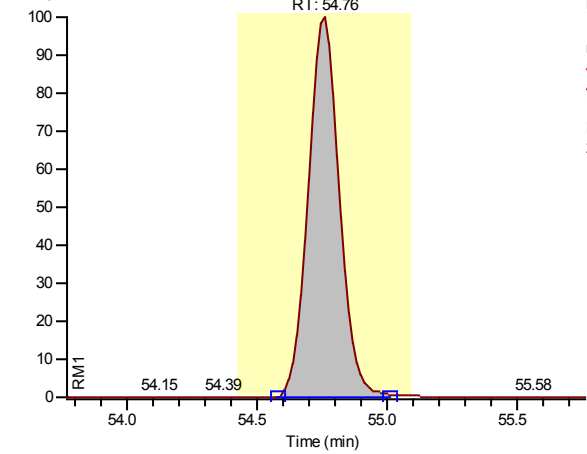
Entry Parameters

RT: 53.76 - 55.76 SM: 7G



NL:
1.23E6
m/z=
459.71-
459.76 MS
ICIS
HRMS01_2
20204_24

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	10297698
RM1 Area	9299990
RM1 Ratio (A)	0.9031
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.1200
Label2	

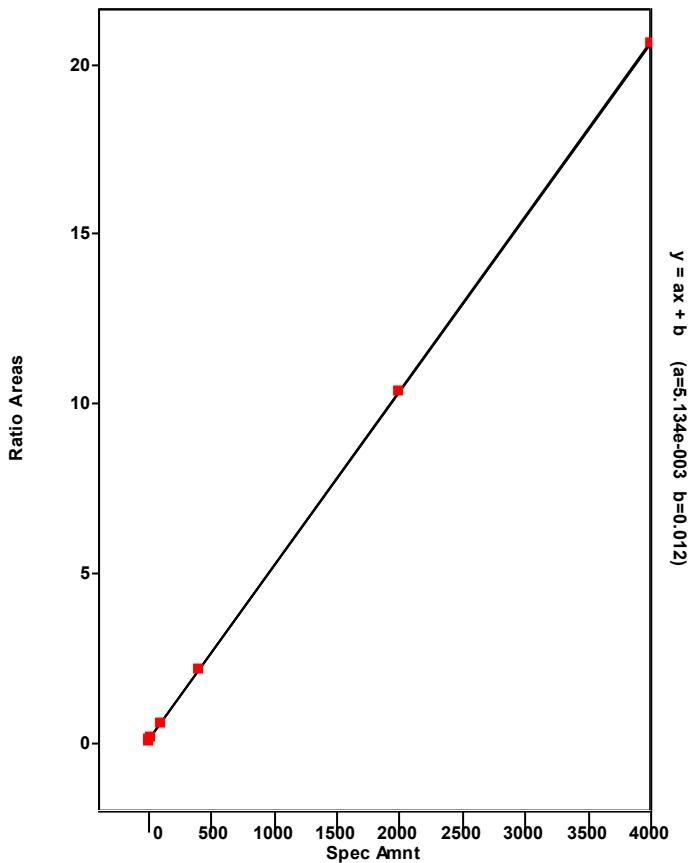


NL:
1.11E6
m/z=
457.71-
457.76 MS
ICIS
HRMS01_2
20204_24

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

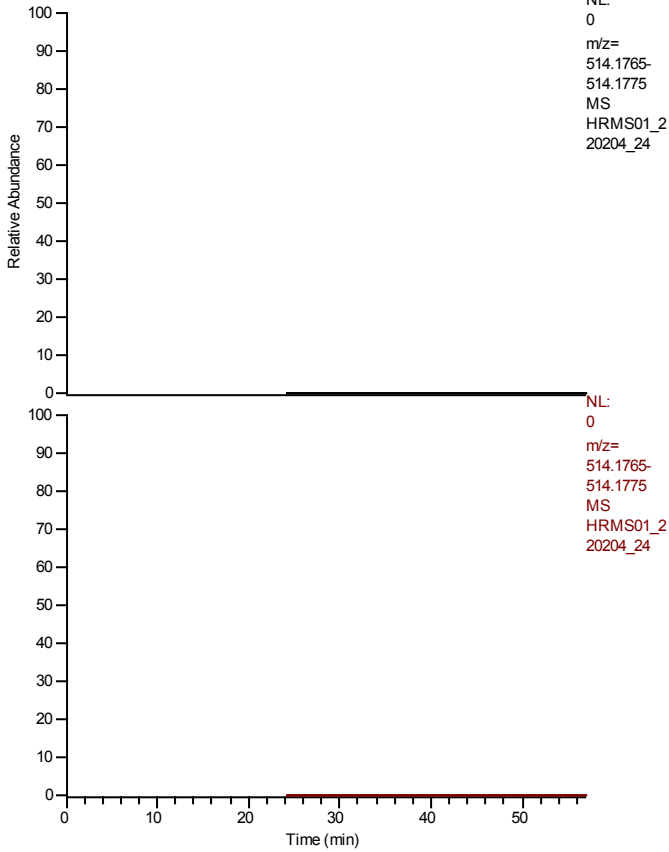
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.00 SM: 5G



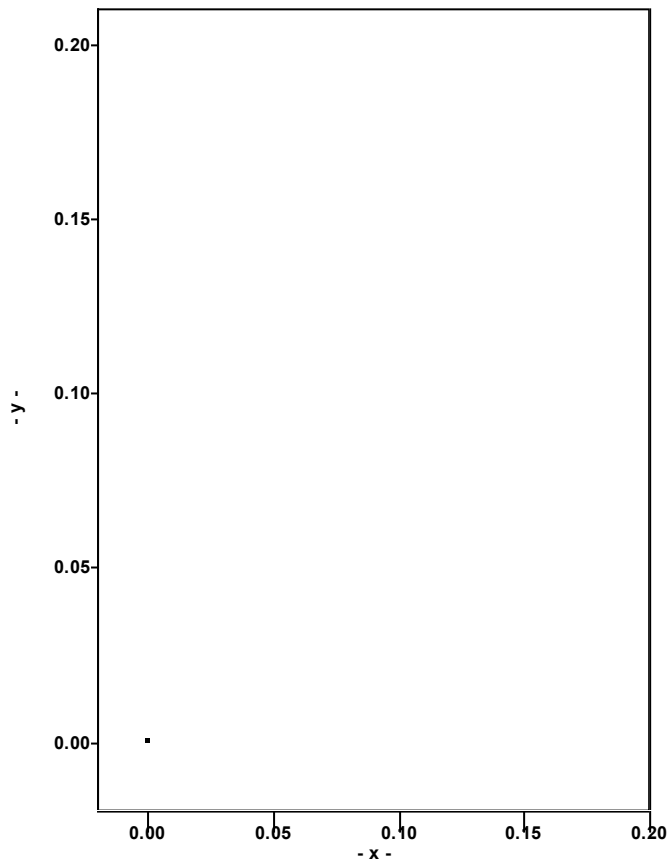
NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_24

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_24

Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	105754671
RM1 Area	122688231
RM1 Ratio (A)	1.1601
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	3480.00
Percent Recovery (A)	---
TEQ (A)	456.2400
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 07:39
Number of Entries	59
Comment	HRMS200402E
Vial	9
Sample Name	IA1613STD-200
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_26_seq
Data	hrms01_220204_26
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

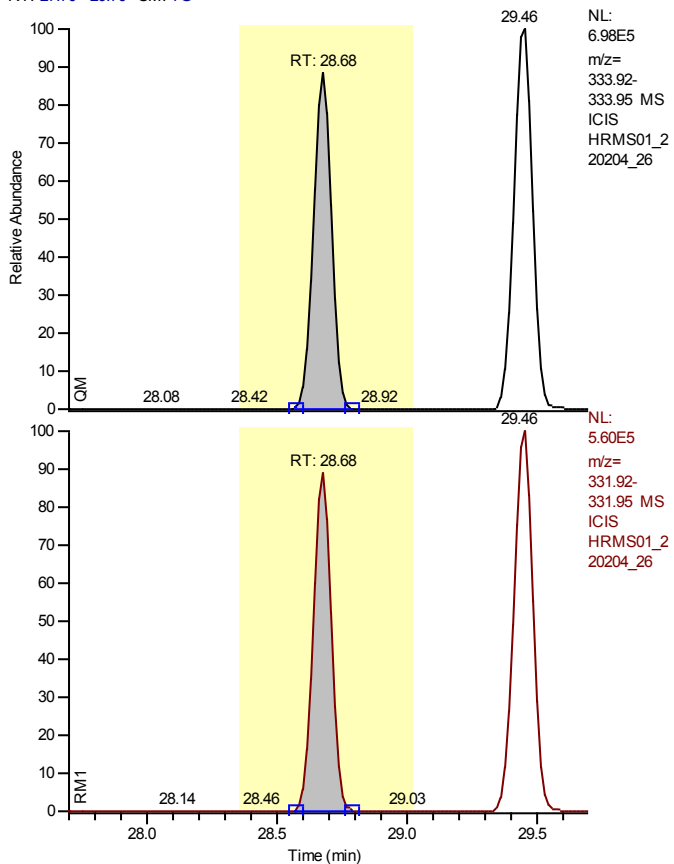
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2972915	2392779	0.8049	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		5136357	4063657	0.7912	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	10638734	8428767	0.7923	0.6500 - 0.8900	200.00	200.00	100	20.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	10638734	8428767	0.7923	0.6500 - 0.8900	200.00	200.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	10638734	8428767	0.7923	0.6500 - 0.8900	200.00	200.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		3470148	2831488	0.8160	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	7775361	6177115	0.7944	0.6500 - 0.8900	200.00	200.00	100	200.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	7775361	6177115	0.7944	0.6500 - 0.8900	200.00	200.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	7775361	6177115	0.7944	0.6500 - 0.8900	200.00	200.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2965892	4561034	1.5378	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	29248817	46951954	1.6053	1.3200 - 1.7800	1000.00	1000.00	100	30.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	61483161	98330083	1.5993	1.3200 - 1.7800	1000.00	2000.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	32234344	51378128	1.5939	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	29248817	46951954	1.6053	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2885625	4530091	1.5699	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	32234344	51378128	1.5939	1.3200 - 1.7800	1000.00	1000.00	100	300.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		2023918	3054756	1.5093	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	18895628	29582838	1.5656	1.3200 - 1.7800	1000.00	1000.00	100	1000.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	18895628	29582838	1.5656	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	18895628	29582838	1.5656	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		12635040	12635040	1.0000	0.8500 - 1.1500	200.00	200.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2841928	3430658	1.2072	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		4718112	2565613	0.5438	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	39832150	50693540	1.2727	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	159858752	201303590	1.2593	1.0500 - 1.4300	1000.00	4000.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	41724584	52150081	1.2499	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	39832150	50693540	1.2727	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	40475670	50453086	1.2465	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	37826348	48006882	1.2691	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		5114344	2704374	0.5288	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	40475670	50453086	1.2465	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		4947928	2726200	0.5510	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	41724584	52150081	1.2499	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		5018328	2645790	0.5272	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	37826348	48006882	1.2691	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2497625	3252099	1.3021	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	26153215	34033817	1.3013	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	81050528	102580907	1.2656	1.0500 - 1.4300	1000.00	3000.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	27506866	34004329	1.2362	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	26153215	34033817	1.3013	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	27390447	34542761	1.2611	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2497625	3252099	1.3021	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	26153215	34033817	1.3013	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	27390447	34542761	1.2611	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4949536	2320082	0.4687	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	46974981	49315217	1.0498	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	89408383	94008688	1.0515	0.8800 - 1.2000	1000.00	2000.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	46974981	49315217	1.0498	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	42433402	44693471	1.0533	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		4602505	2073972	0.4506	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	42433402	44693471	1.0533	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2712107	2947533	1.0868	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	30159627	31976801	1.0603	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	30159627	31976801	1.0603	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	30159627	31976801	1.0603	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		5567533	5038030	0.9049	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	77656377	71430923	0.9198	0.7600 - 1.0200	2000.00	2000.00	100	0.6000
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	57372827	51635431	0.9000	0.7600 - 1.0200	2000.00	2000.00	100	0.6000
59	overall TEQ	overall TEQ test		592945727	695484631	1.1729	0.0000 - 0.0000	0.00	17400.00	---	2281.2000

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

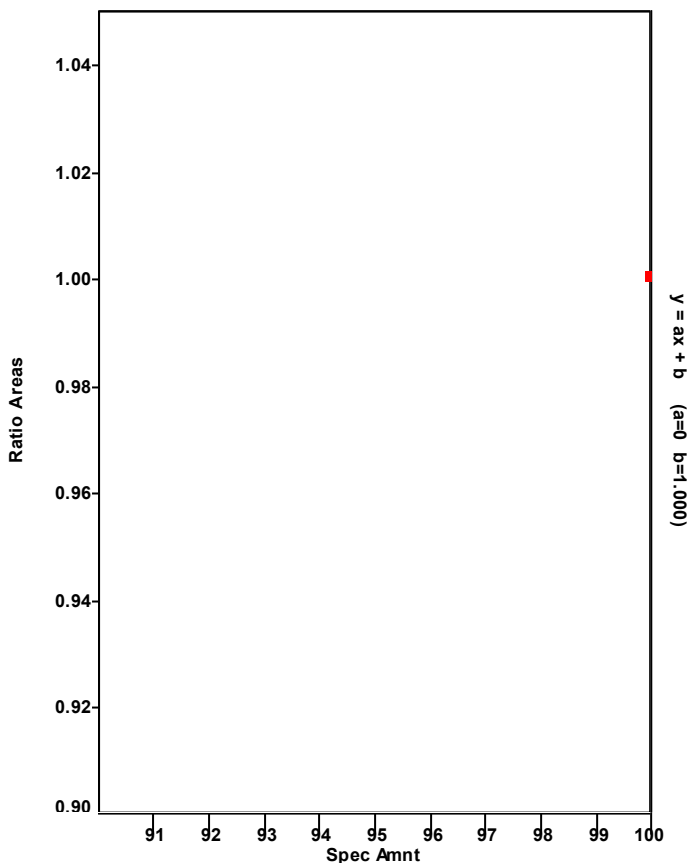


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2972915
RM1 Area	2392779
RM1 Ratio (A)	0.8049
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

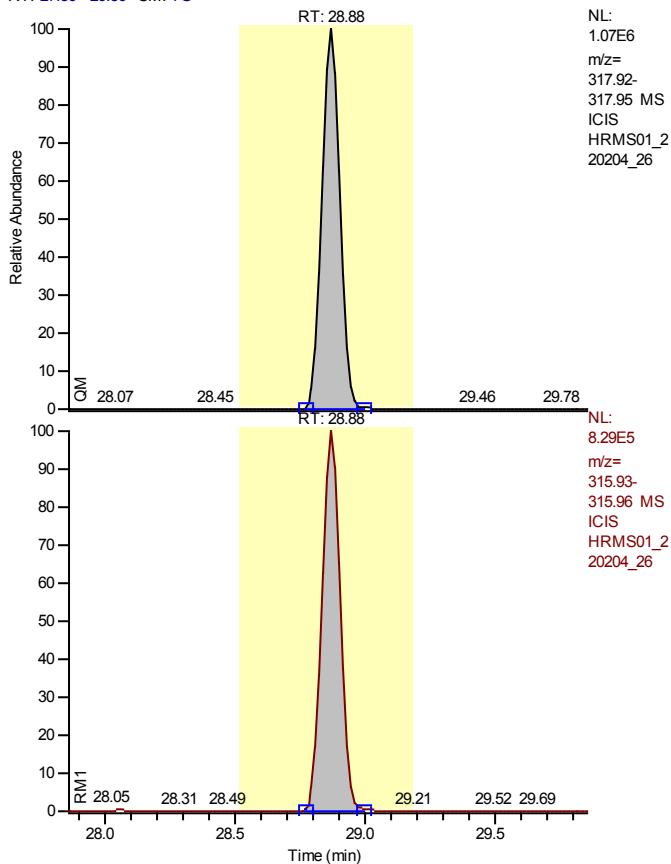
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.86 - 29.86 SM: 7G

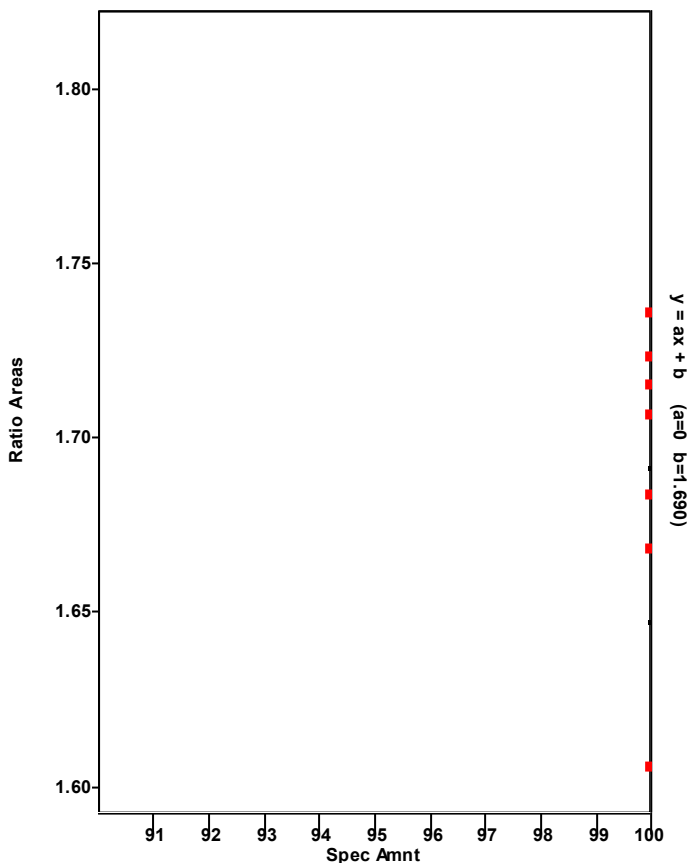


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	5136357
RM1 Area	4063657
RM1 Ratio (A)	0.7912
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

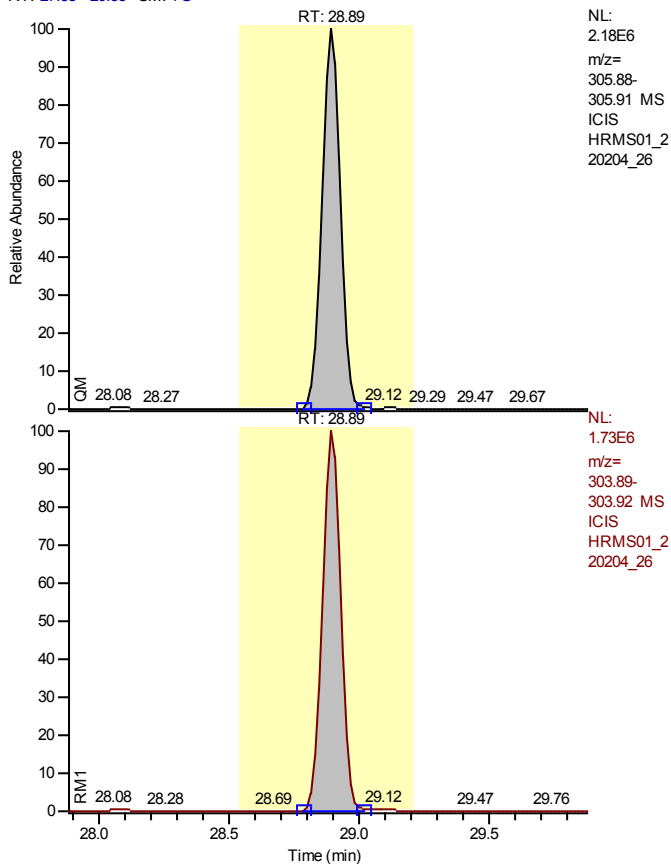
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.88 - 29.88 SM: 7G



NL:
 2.18E6
 m/z=
 305.88-
 305.91 MS
 ICIS
 HRMS01_2
 20204_26

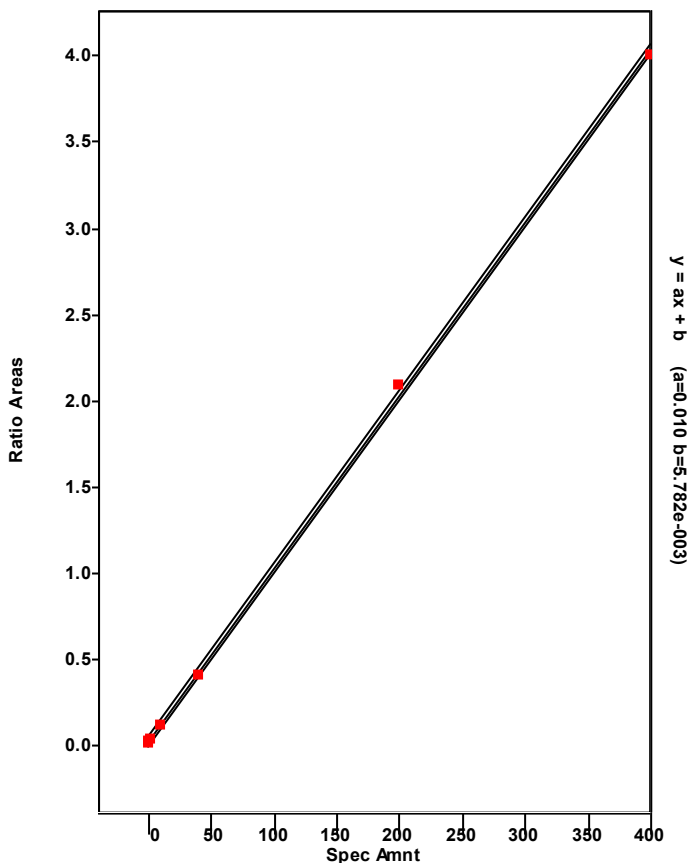
NL:
 1.73E6
 m/z=
 303.89-
 303.92 MS
 ICIS
 HRMS01_2
 20204_26

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	10638734
RM1 Area	8428767
RM1 Ratio (A)	0.7923
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

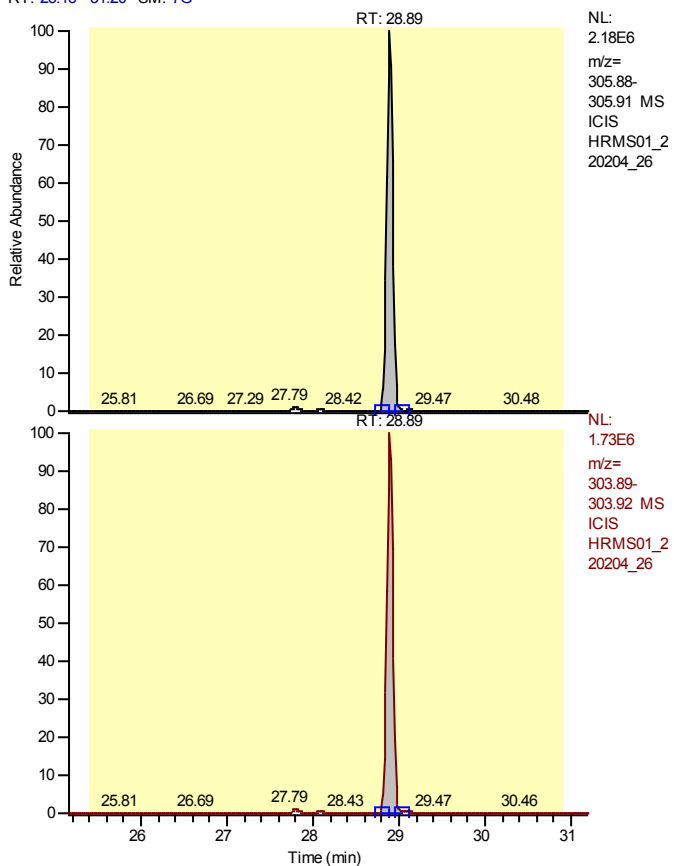
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.15 - 31.20 SM: 7G

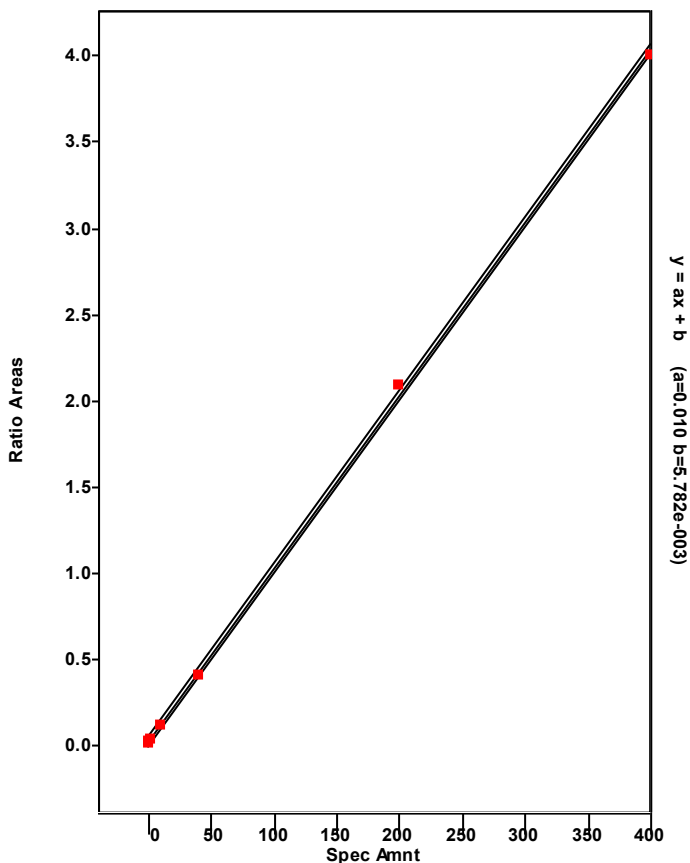


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	10638734
RM1 Area	8428767
RM1 Ratio (A)	0.7923
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

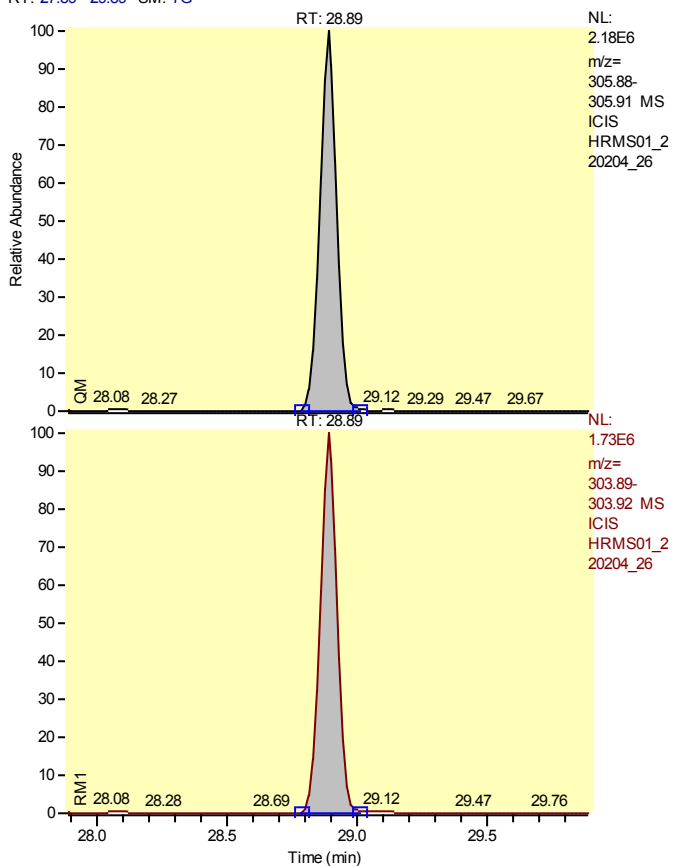
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.89 - 29.89 SM: 7G

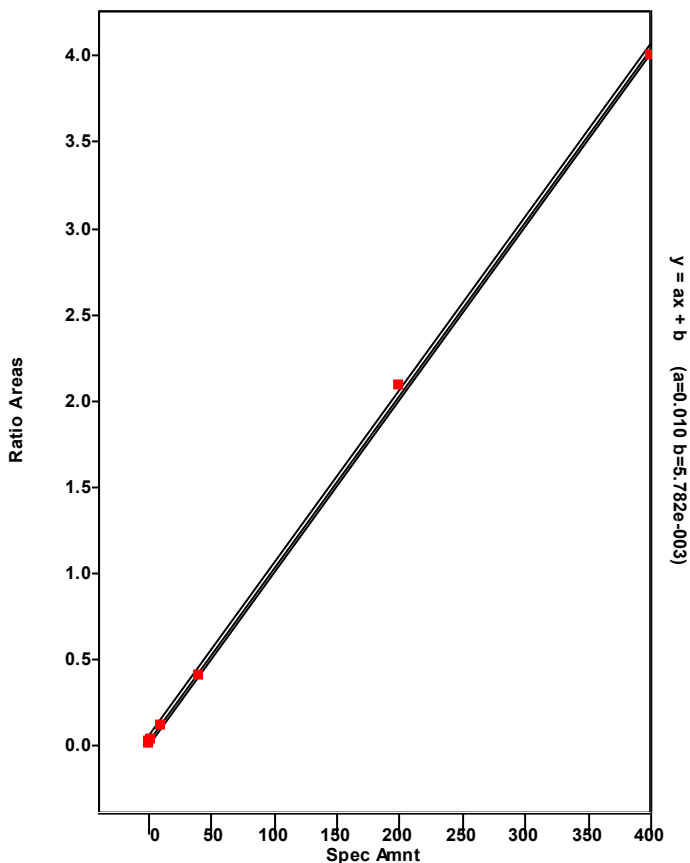


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	10638734
RM1 Area	8428767
RM1 Ratio (A)	0.7923
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

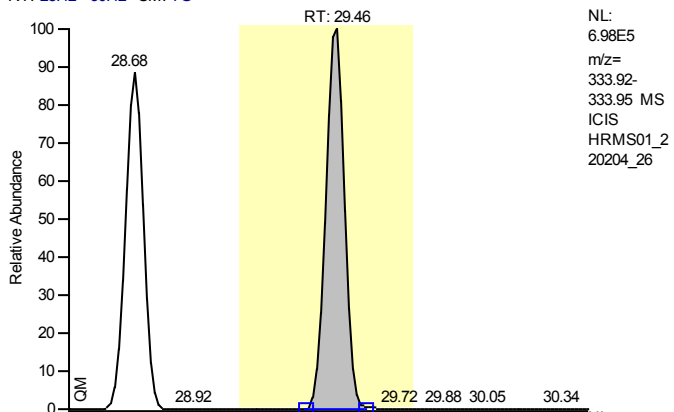
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

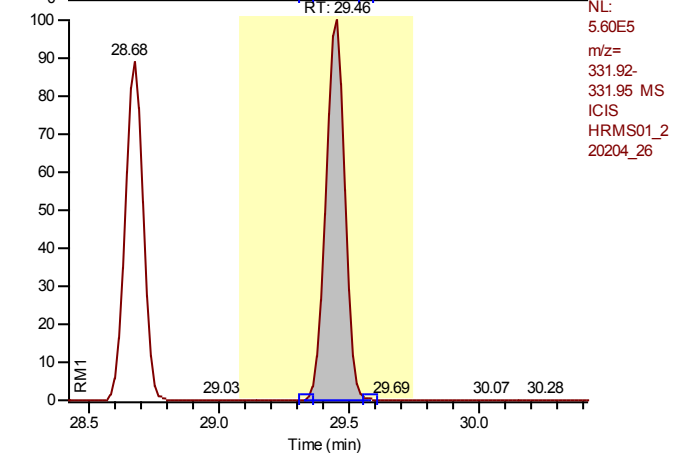
Entry Parameters

RT: 28.42 - 30.42 SM: 7G



NL: 6.98E5
 m/z= 333.92-
 333.95 MS
 ICIS
 HRMS01_2
 20204_26

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	3470148
RM1 Area	2831488
RM1 Ratio (A)	0.8160
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

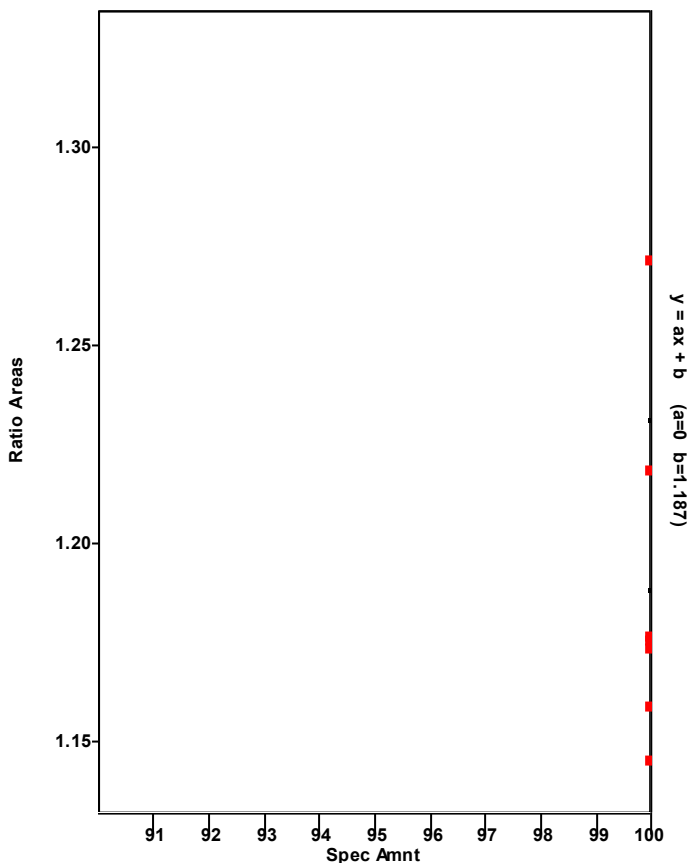


NL: 5.60E5
 m/z= 331.92-
 331.95 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

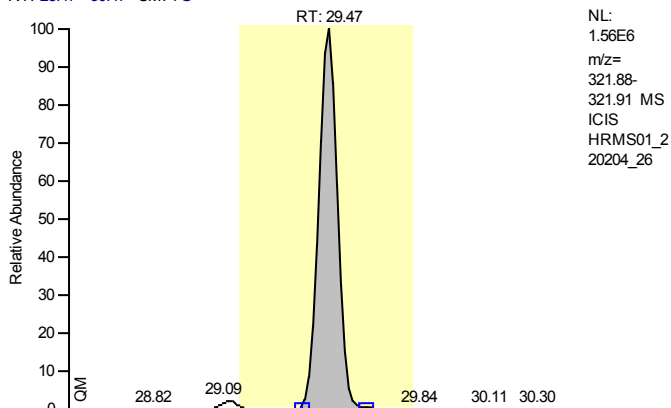
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



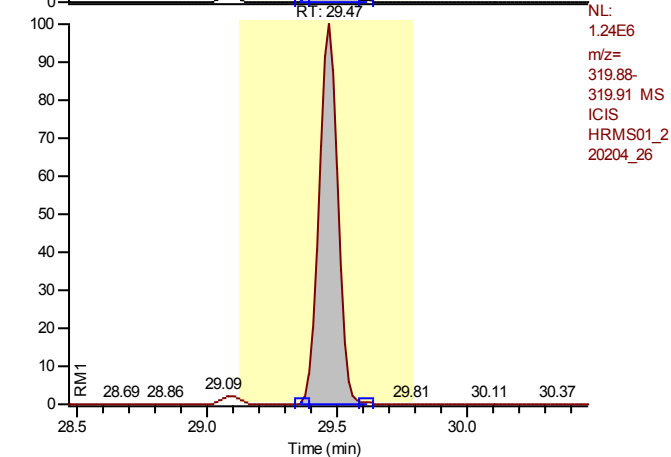
Chromatogram

Entry Parameters

RT: 28.47 - 30.47 SM: 7G



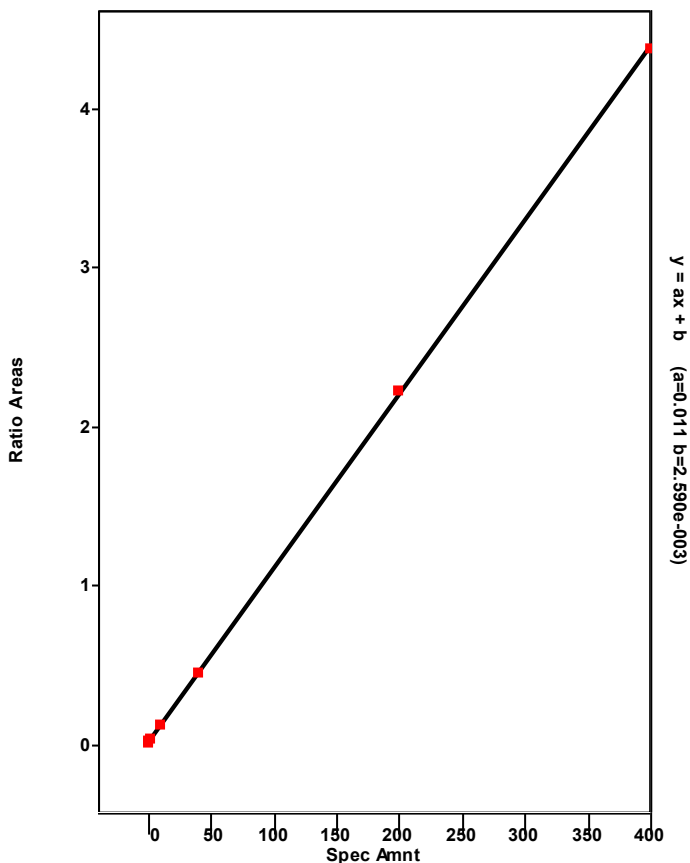
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	7775361
RM1 Area	6177115
RM1 Ratio (A)	0.7944
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

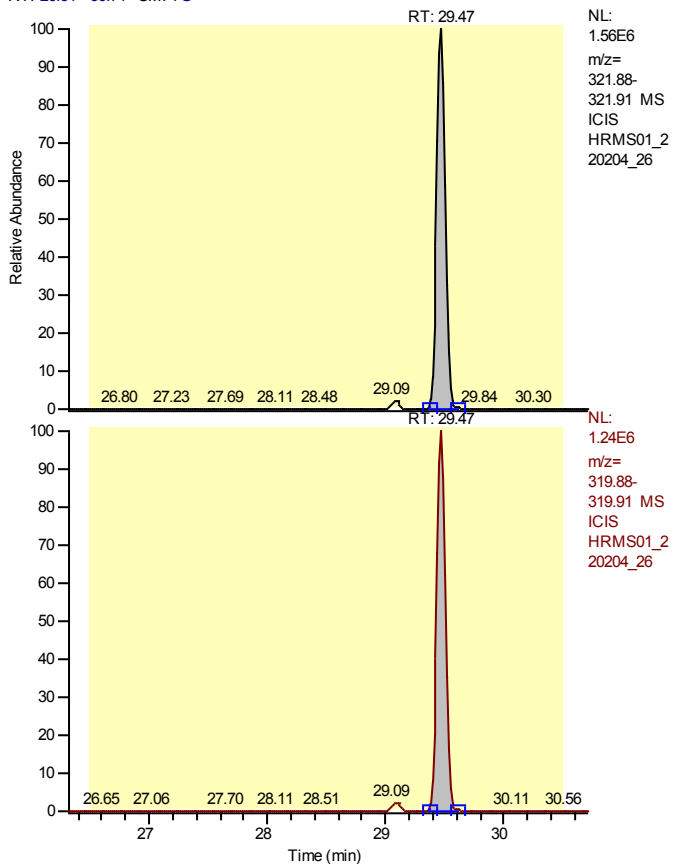
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.31 - 30.71 SM: 7G

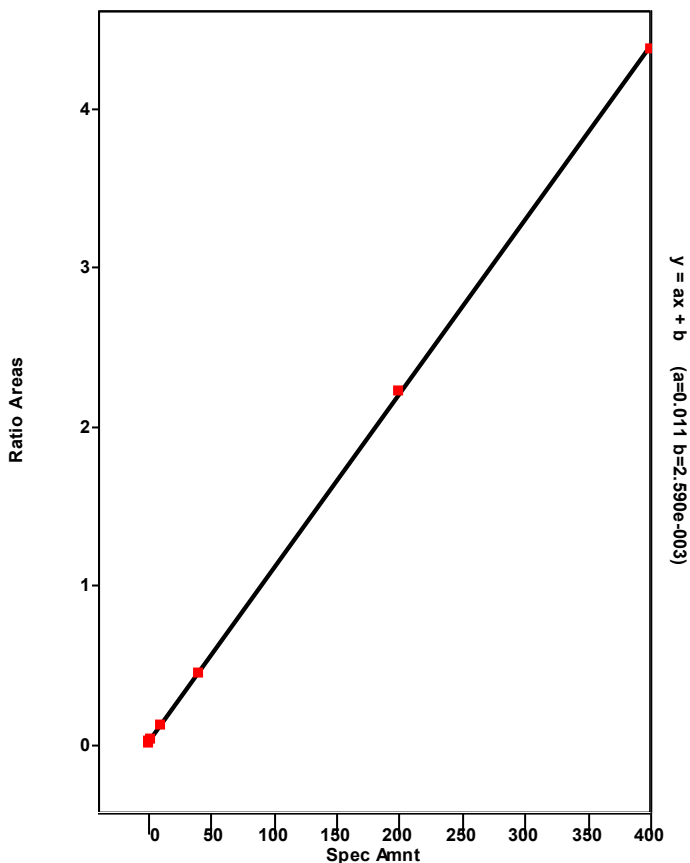


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	7775361
RM1 Area	6177115
RM1 Ratio (A)	0.7944
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

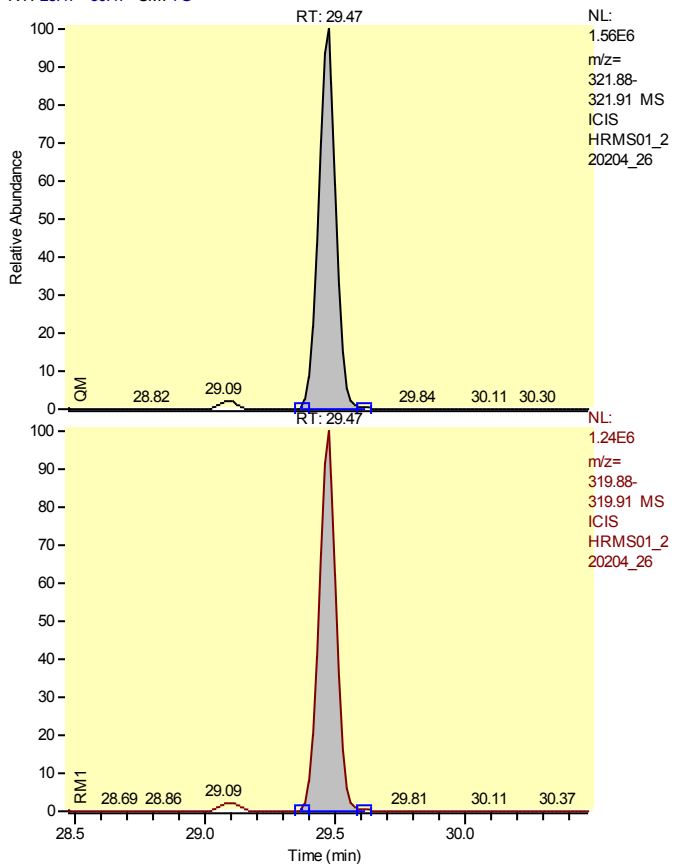
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 28.47 - 30.47 SM: 7G

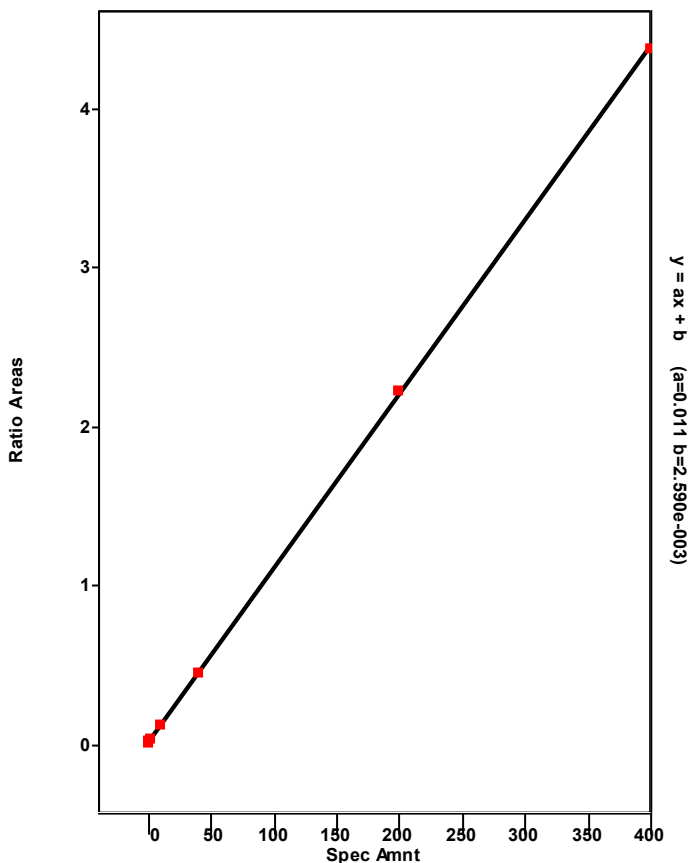


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	7775361
RM1 Area	6177115
RM1 Ratio (A)	0.7944
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

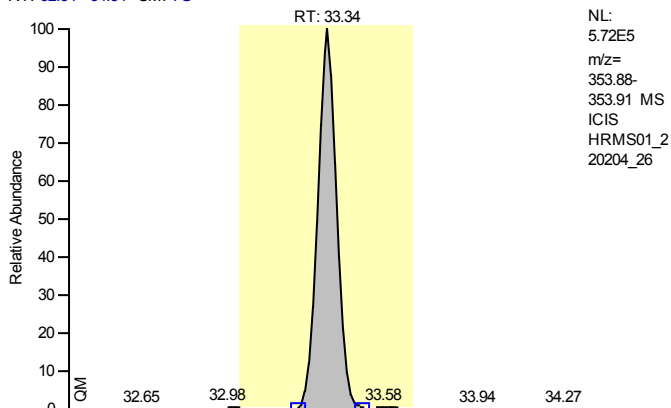
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



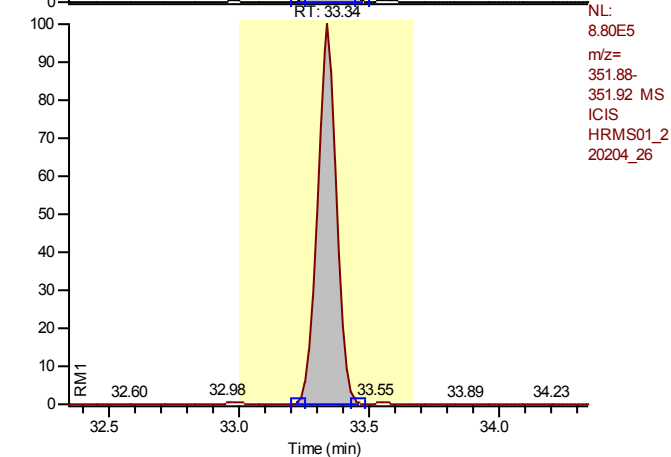
Chromatogram

Entry Parameters

RT: 32.34 - 34.34 SM: 7G



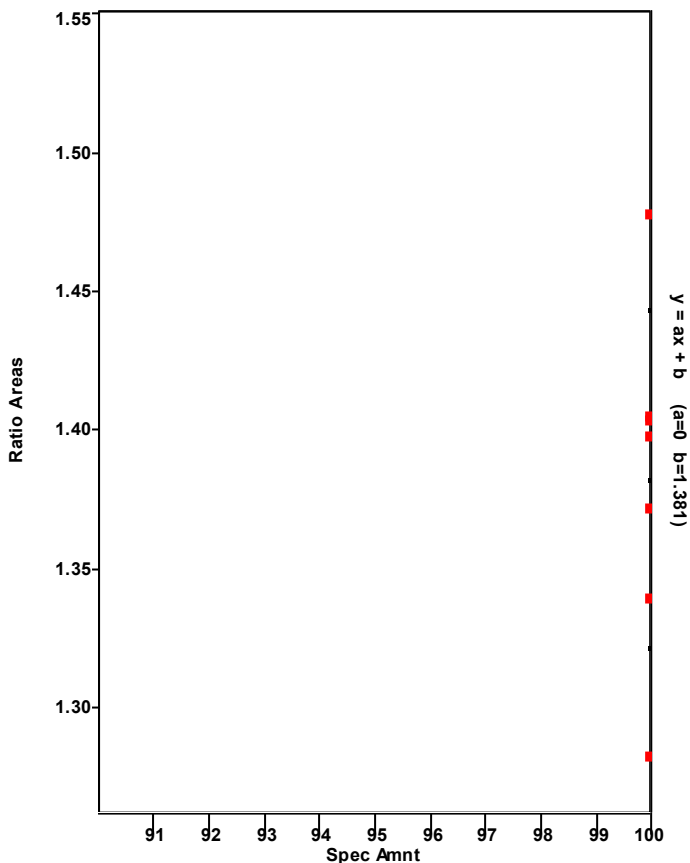
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2965892
RM1 Area	4561034
RM1 Ratio (A)	1.5378
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

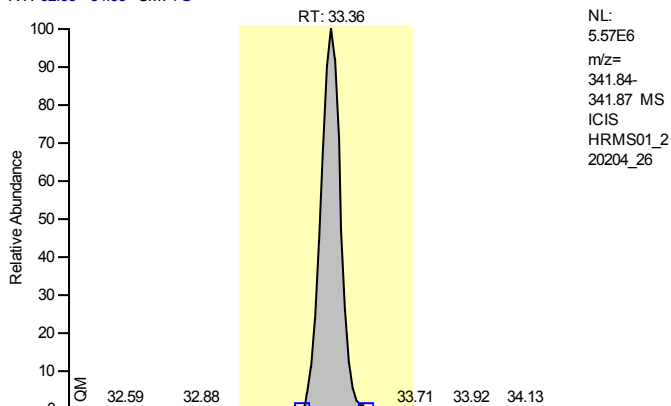
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



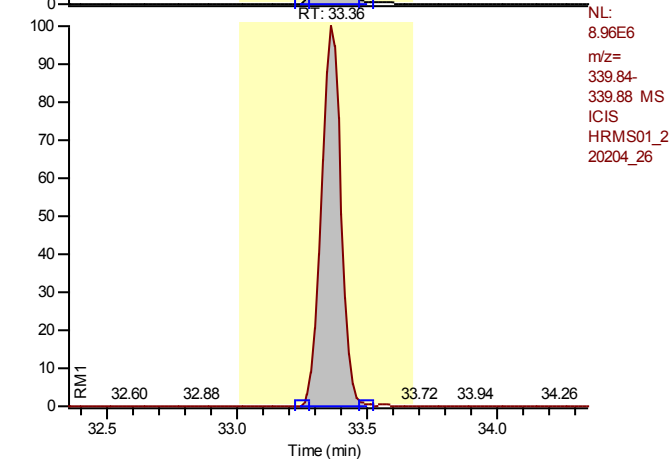
Chromatogram

Entry Parameters

RT: 32.35 - 34.35 SM: 7G



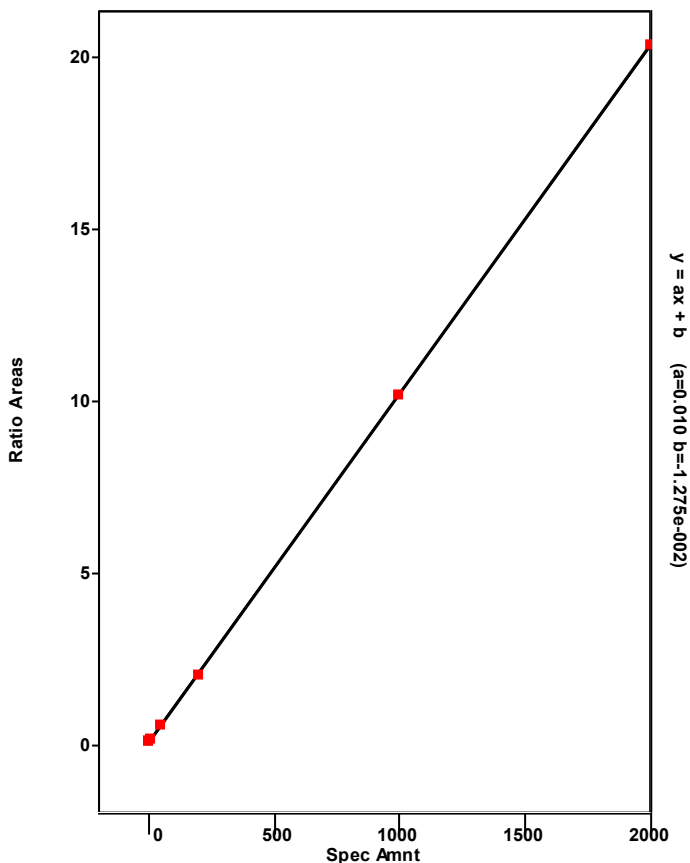
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	29248817
RM1 Area	46951954
RM1 Ratio (A)	1.6053
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	30.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

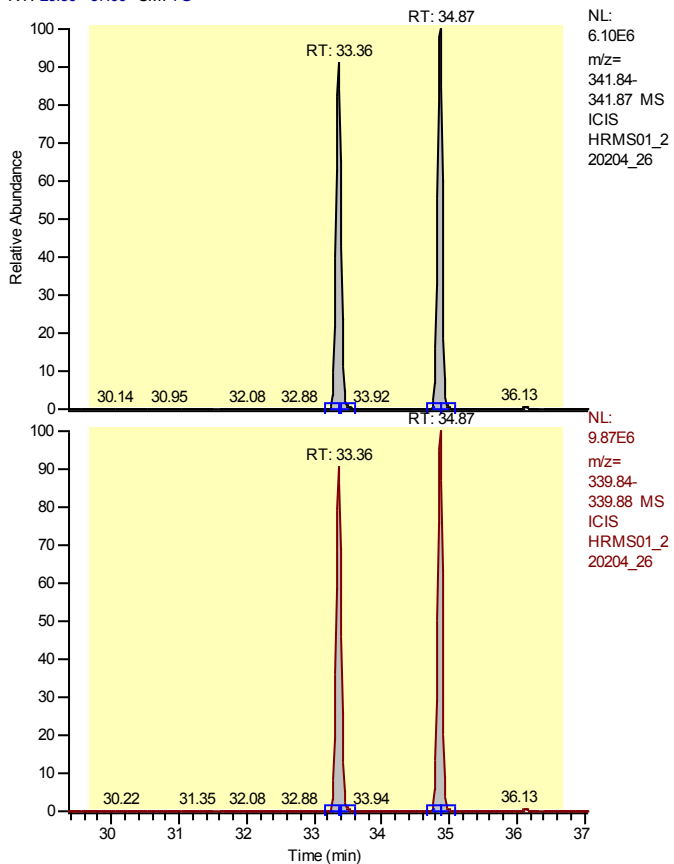
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.36 - 37.06 SM: 7G

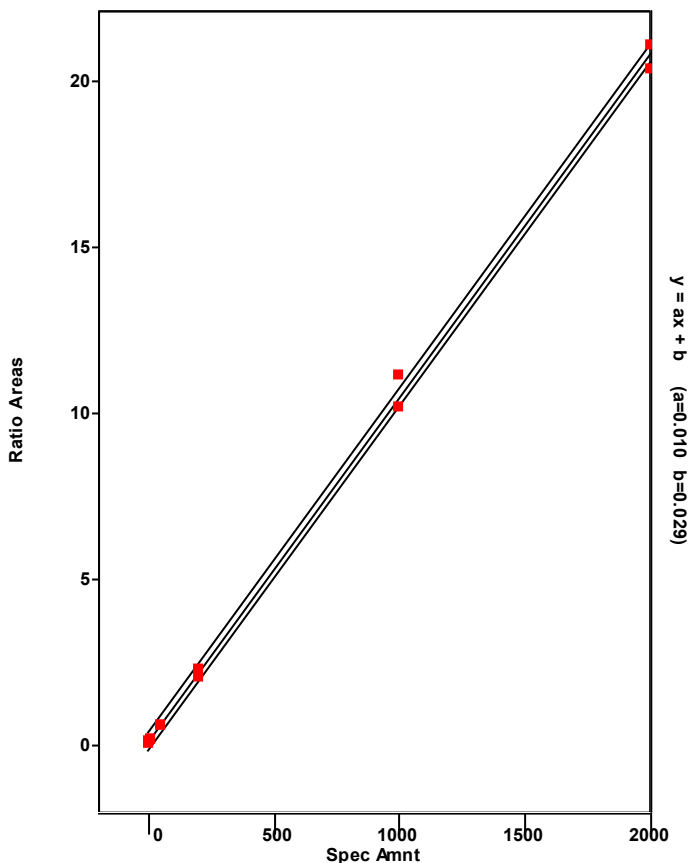


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	61483161
RM1 Area	98330083
RM1 Ratio (A)	1.5993
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

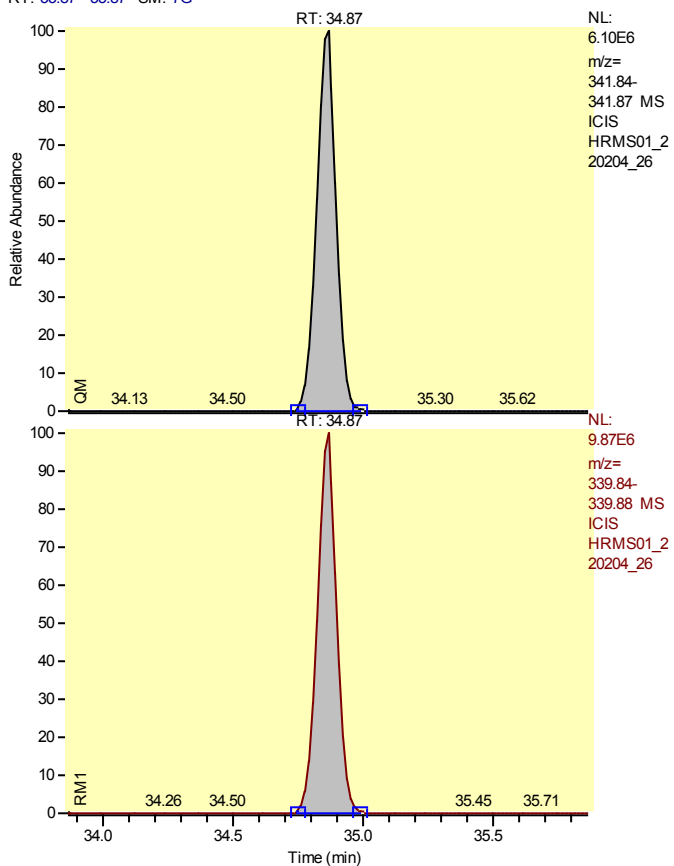
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.87 - 35.87 SM: 7G

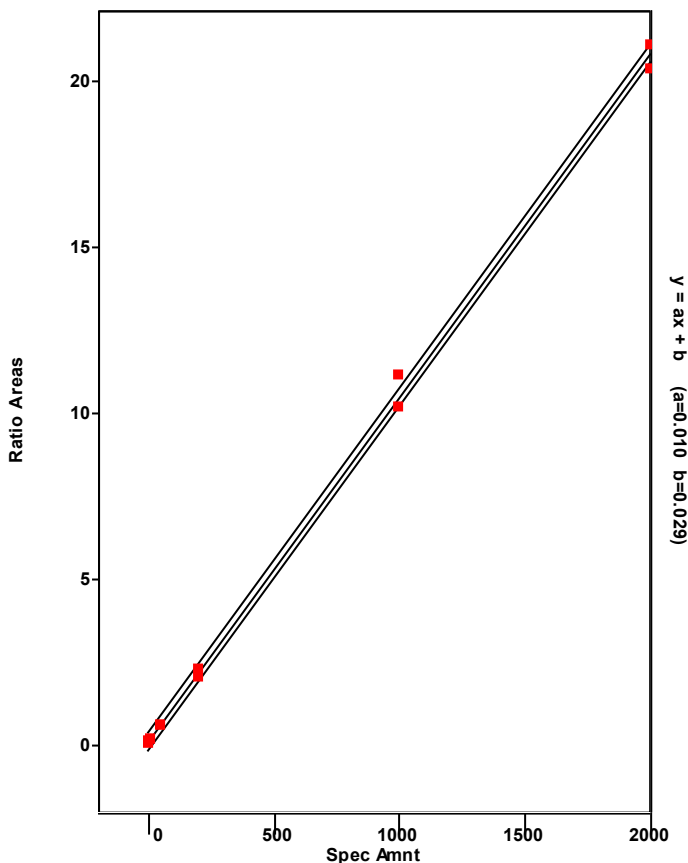


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	32234344
RM1 Area	51378128
RM1 Ratio (A)	1.5939
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

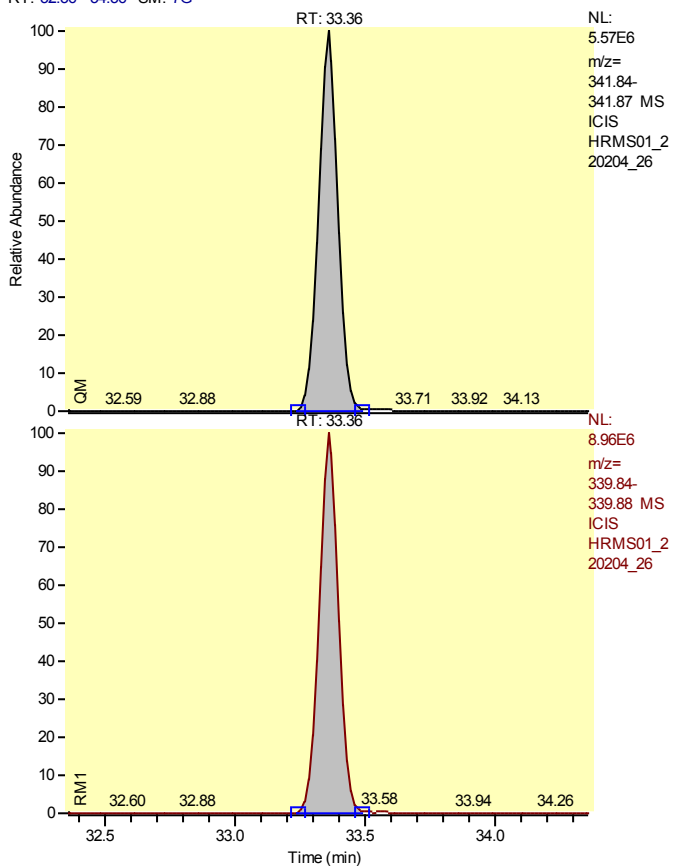
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.36 - 34.36 SM: 7G

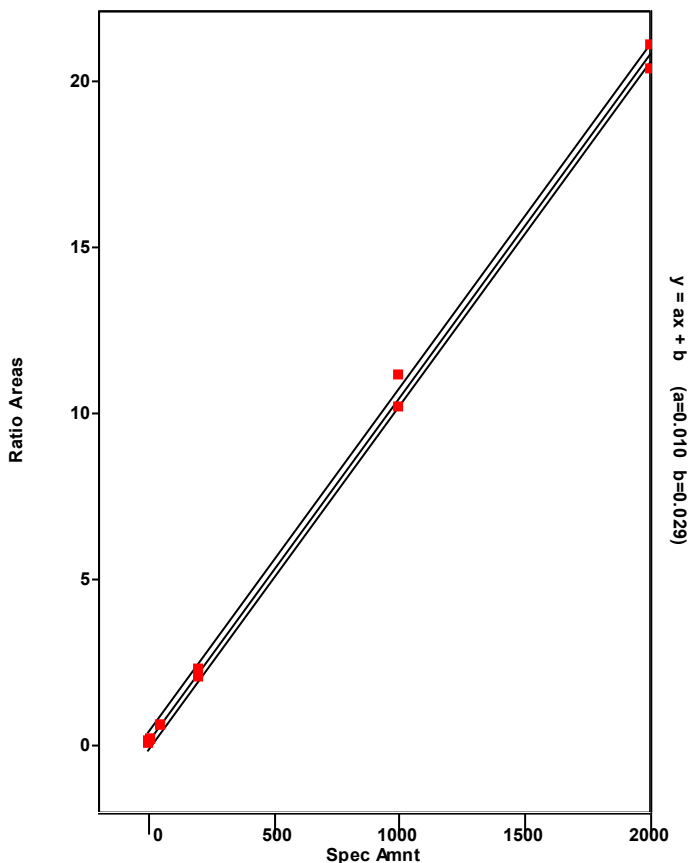


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	29248817
RM1 Area	46951954
RM1 Ratio (A)	1.6053
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

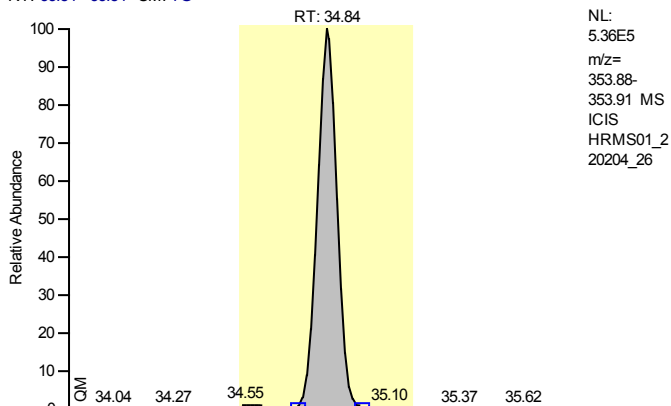
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



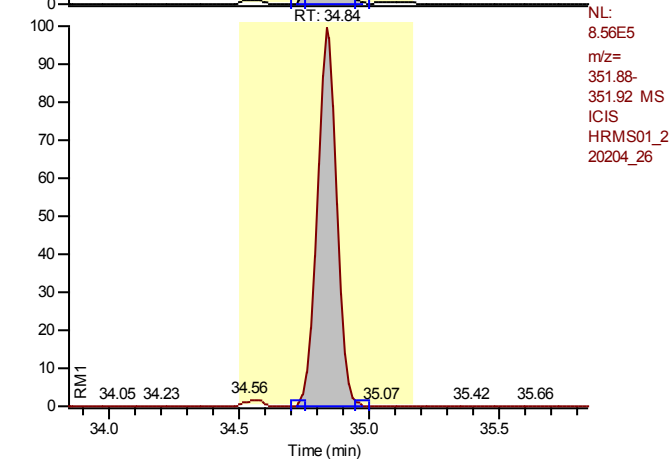
Chromatogram

Entry Parameters

RT: 33.84 - 35.84 SM: 7G



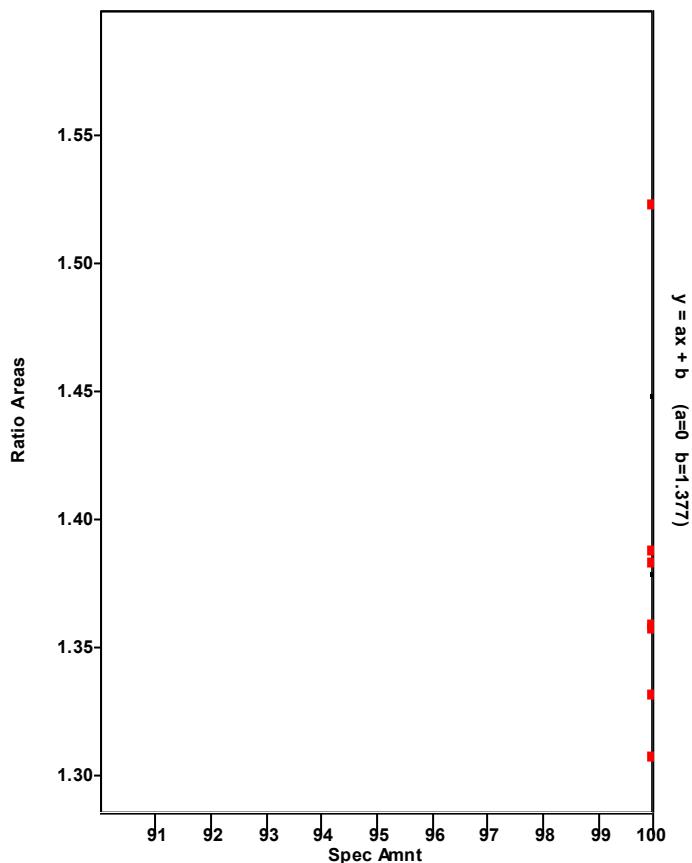
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2885625
RM1 Area	4530091
RM1 Ratio (A)	1.5699
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

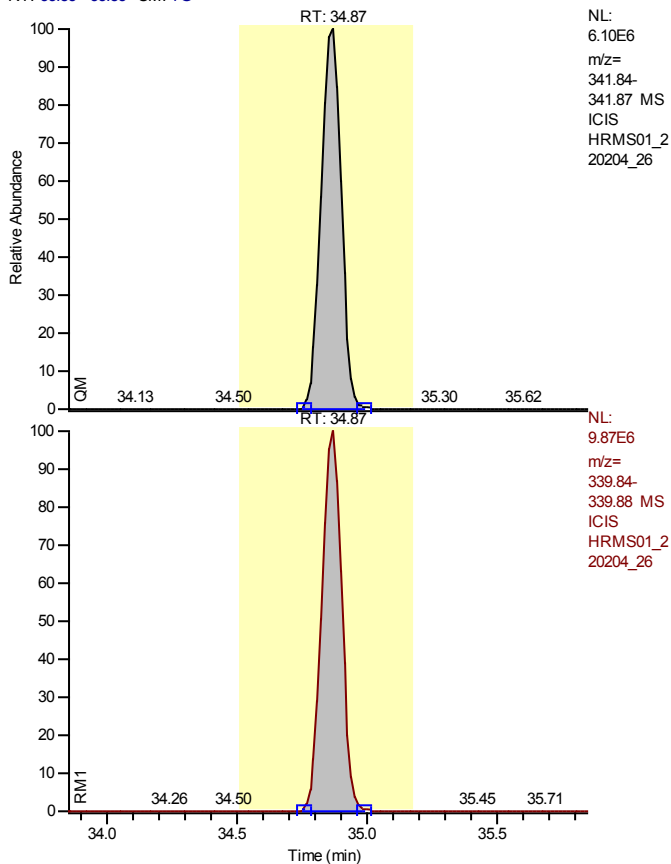
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.85 - 35.85 SM: 7G

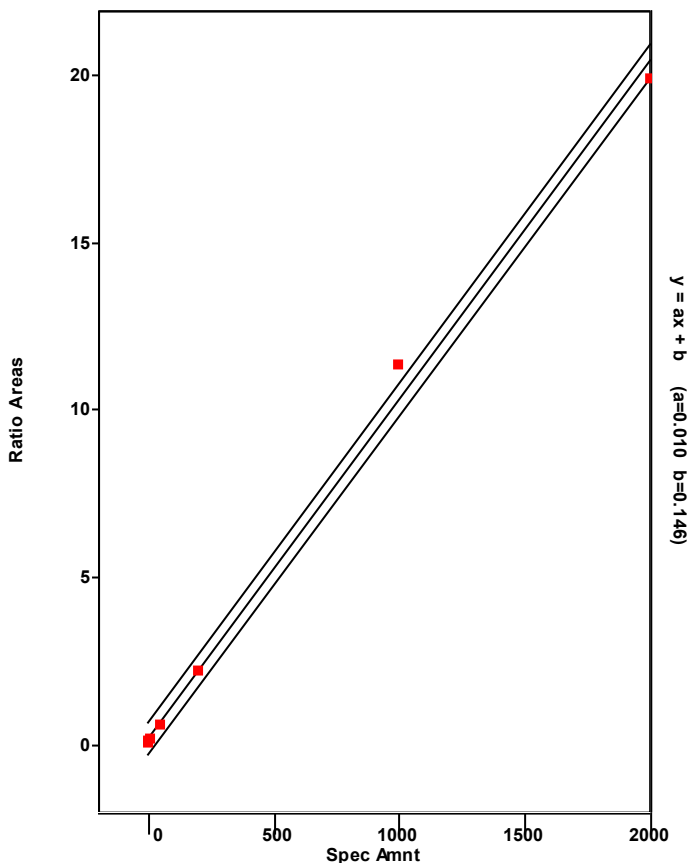


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	32234344
RM1 Area	51378128
RM1 Ratio (A)	1.5939
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	300.0000
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

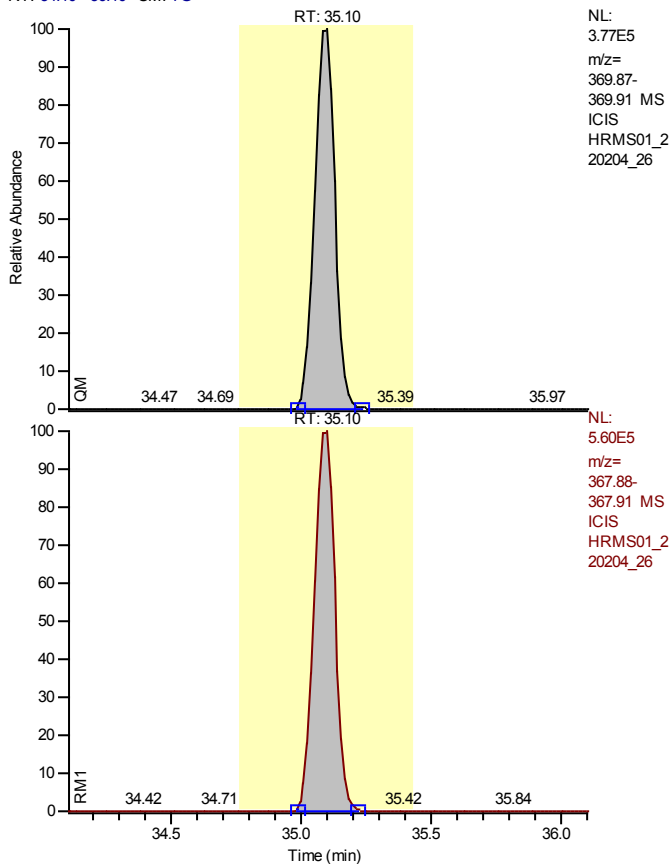
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.10 - 36.10 SM: 7G



NL:
 3.77E5
 m/z=
 369.87-
 369.91 MS
 ICIS
 HRMS01_2
 20204_26

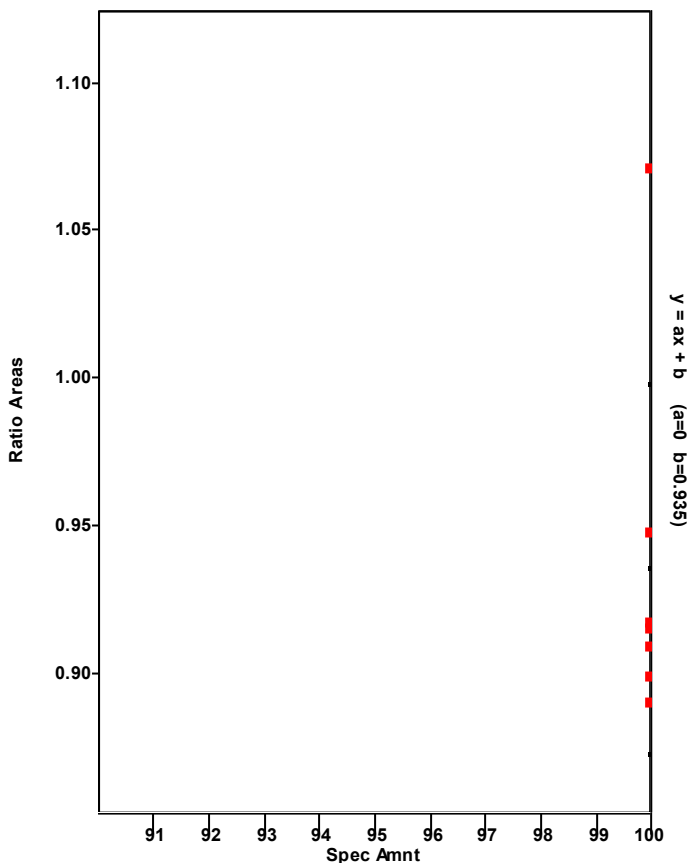
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	2023918
RM1 Area	3054756
RM1 Ratio (A)	1.5093
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 5.60E5
 m/z=
 367.88-
 367.91 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

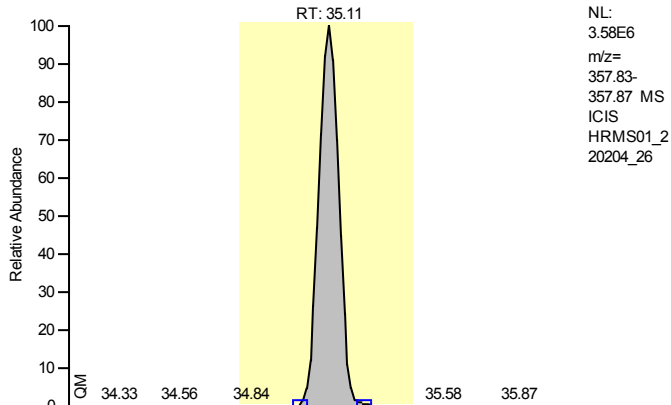
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



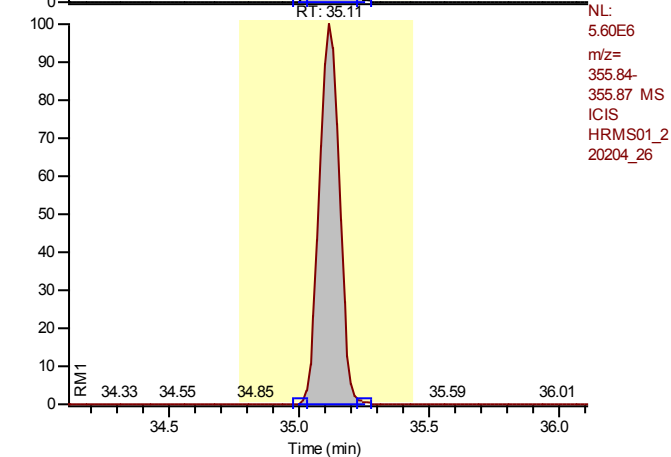
Chromatogram

Entry Parameters

RT: 34.11 - 36.11 SM: 7G



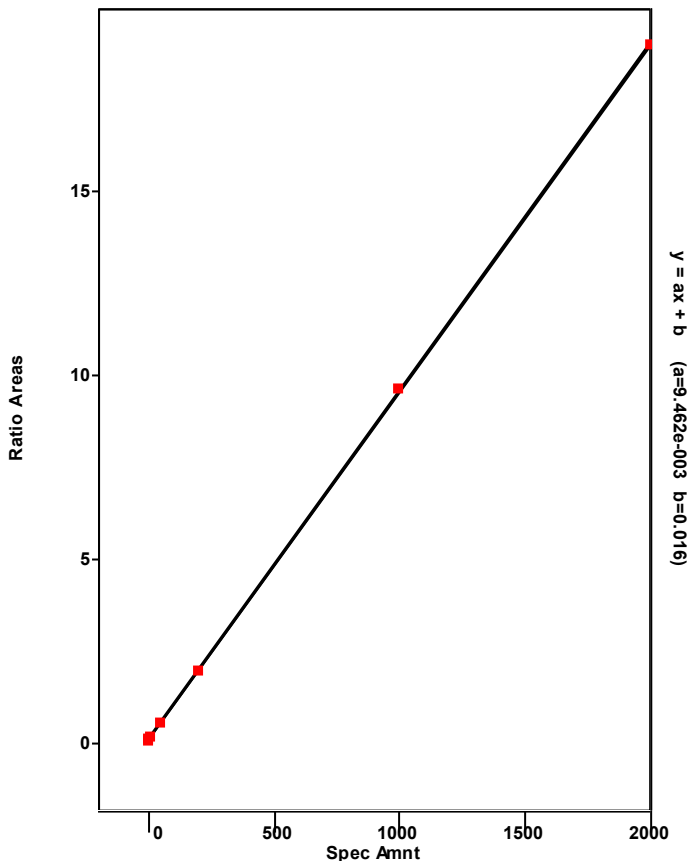
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	18895628
RM1 Area	29582838
RM1 Ratio (A)	1.5656
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	1000.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

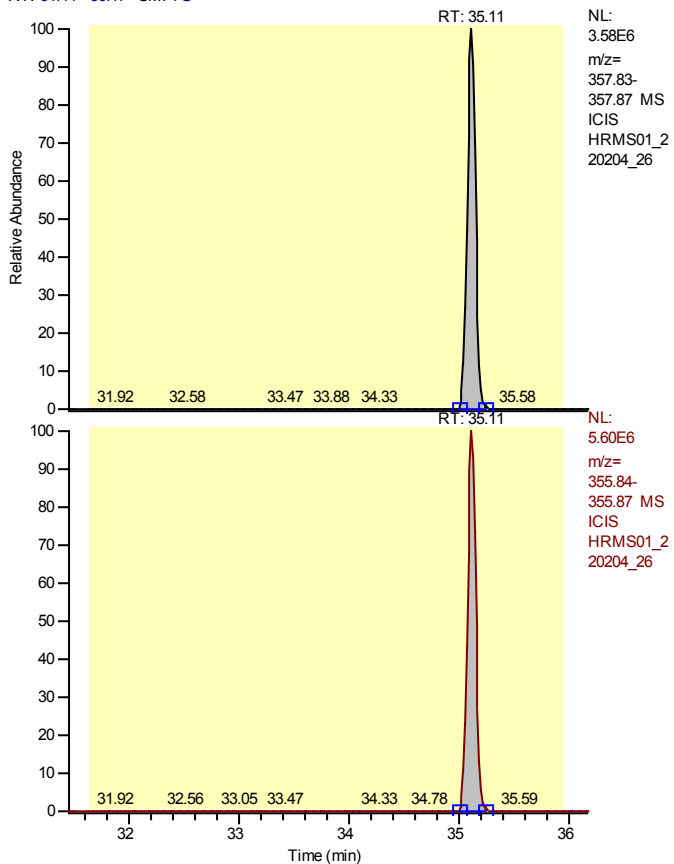
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.44 - 36.17 SM: 7G

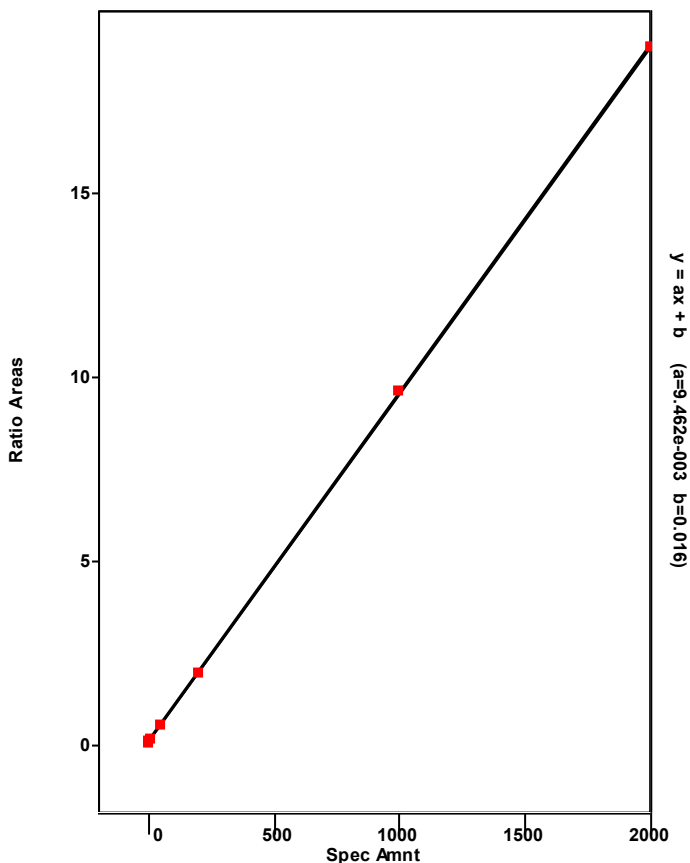


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	18895628
RM1 Area	29582838
RM1 Ratio (A)	1.5656
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

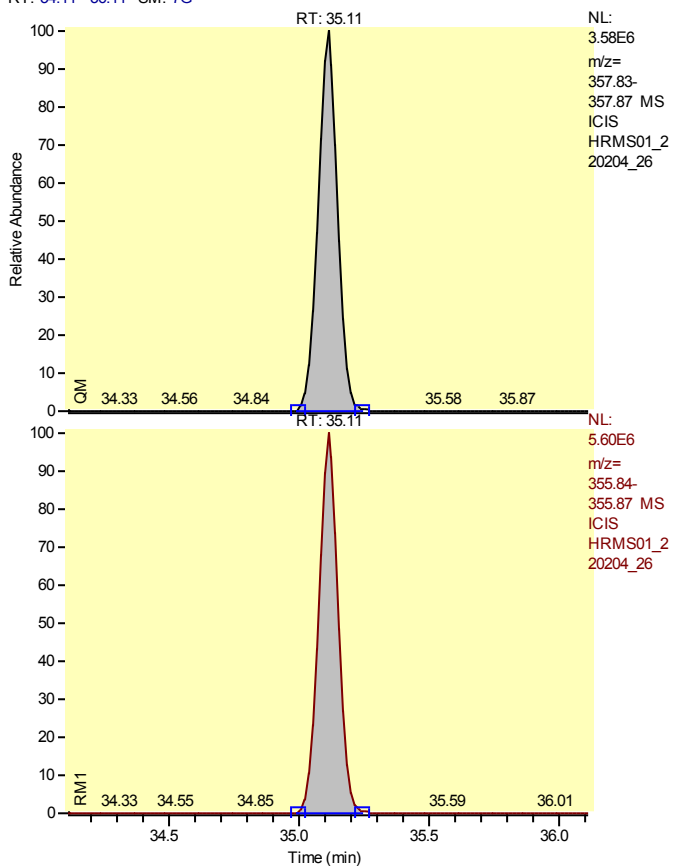
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.11 - 36.11 SM: 7G

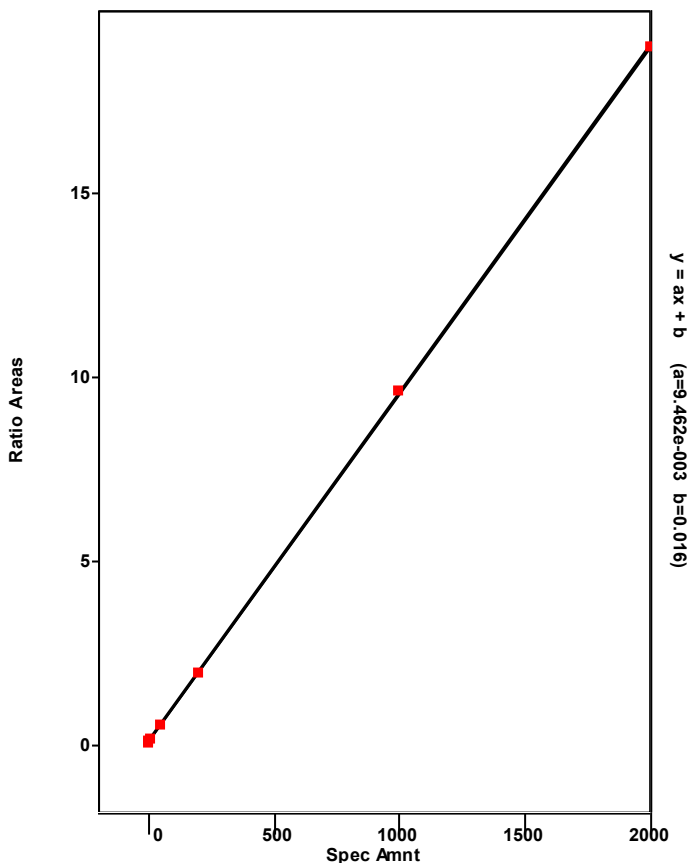


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	18895628
RM1 Area	29582838
RM1 Ratio (A)	1.5656
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

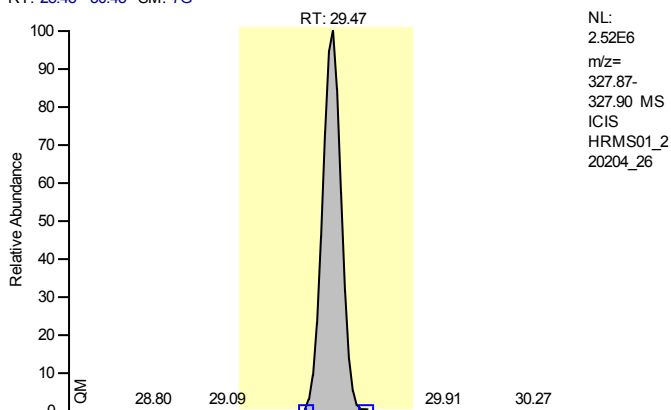
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



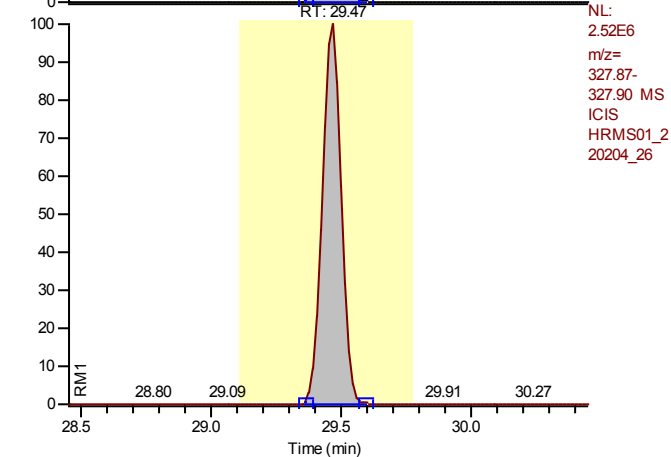
Chromatogram

Entry Parameters

RT: 28.45 - 30.45 SM: 7G



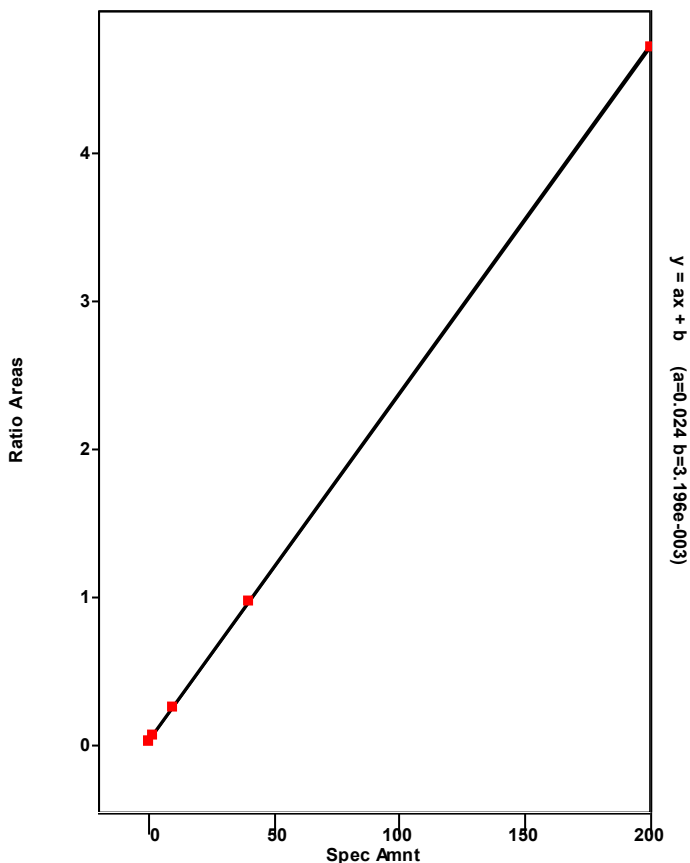
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	12635040
RM1 Area	12635040
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

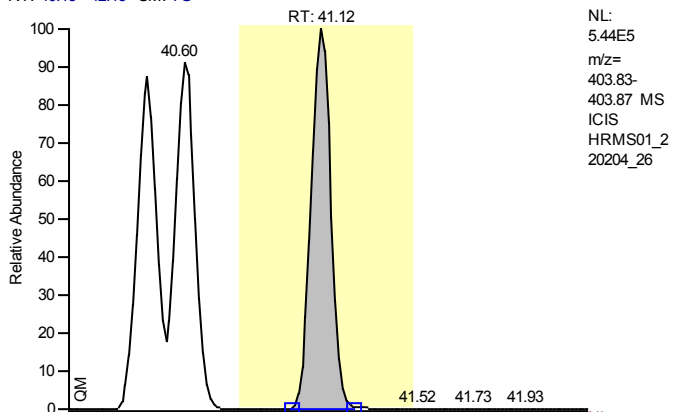
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

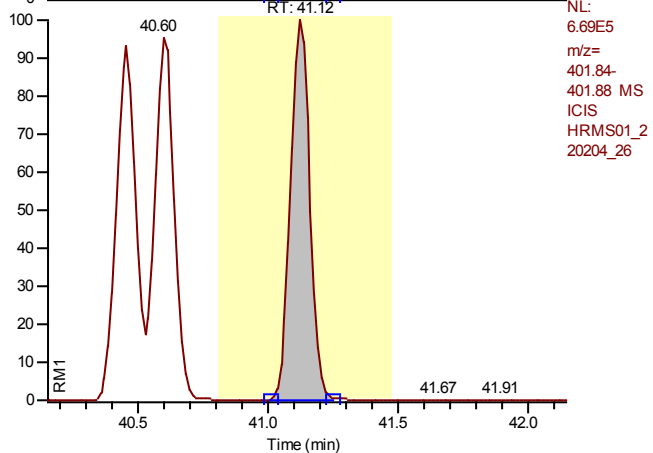
Entry Parameters

RT: 40.15 - 42.15 SM: 7G



NL:
 5.44E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_26

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2841928
RM1 Area	3430658
RM1 Ratio (A)	1.2072
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

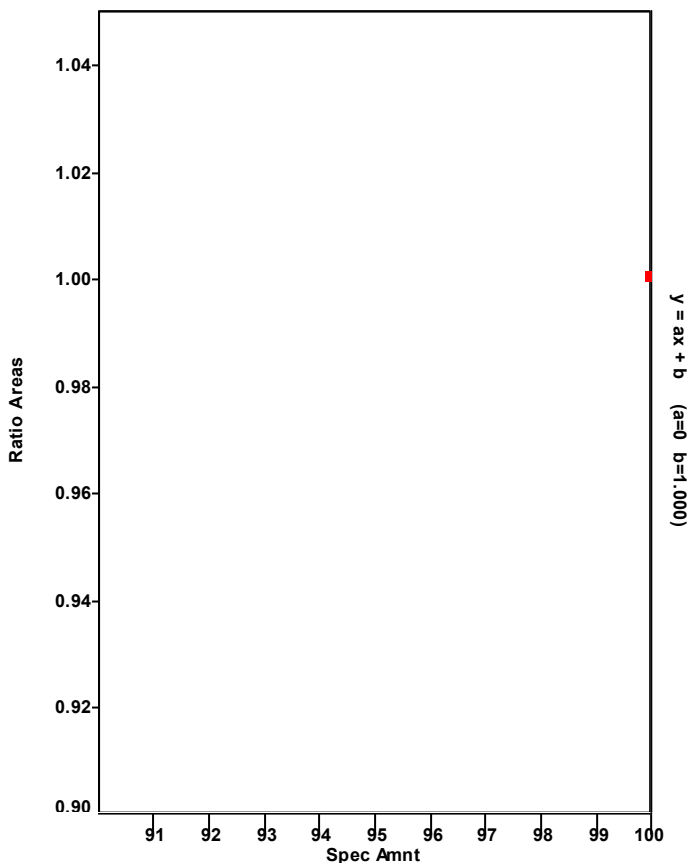


NL:
 6.69E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

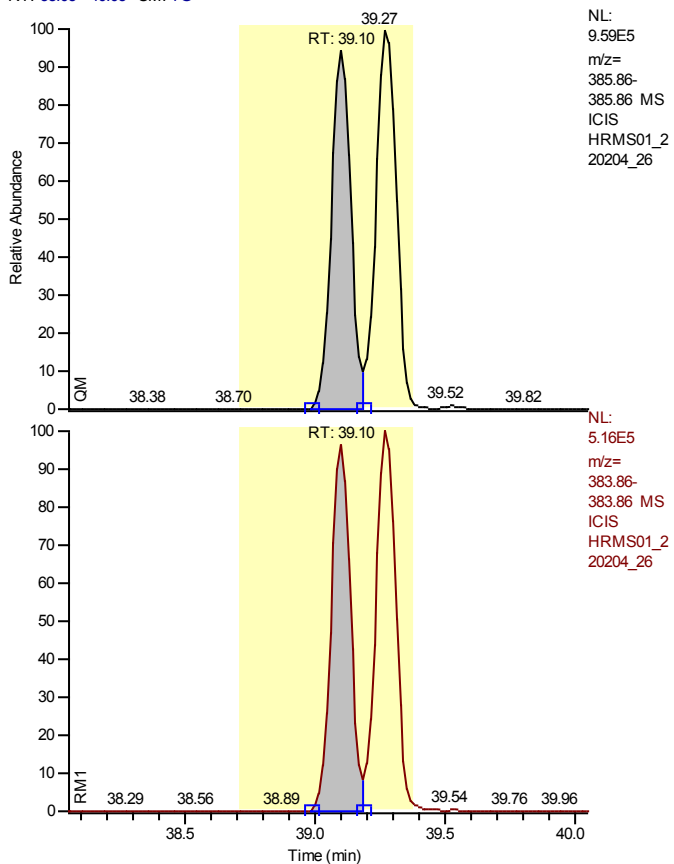
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G

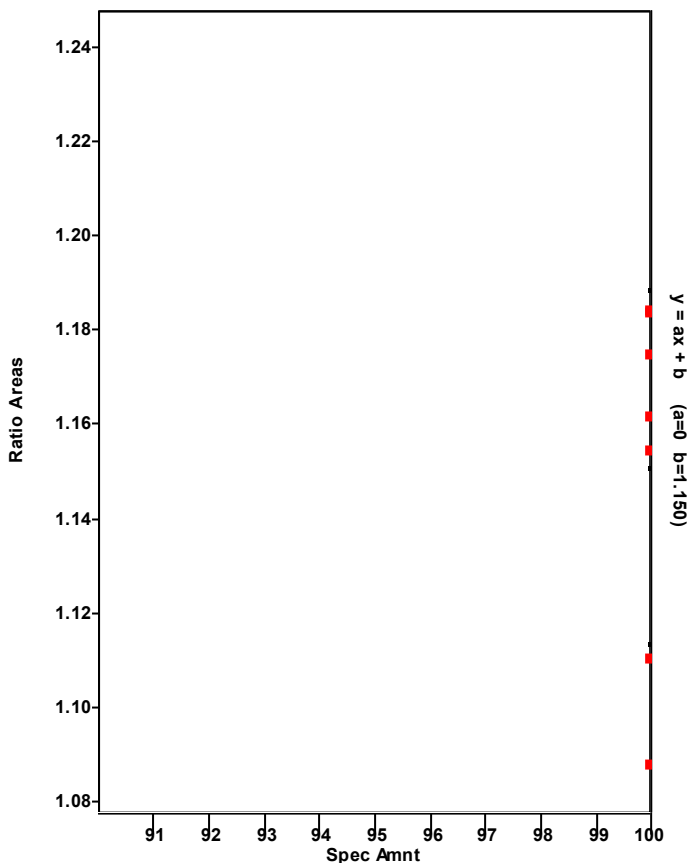


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	4718112
RM1 Area	2565613
RM1 Ratio (A)	0.5438
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

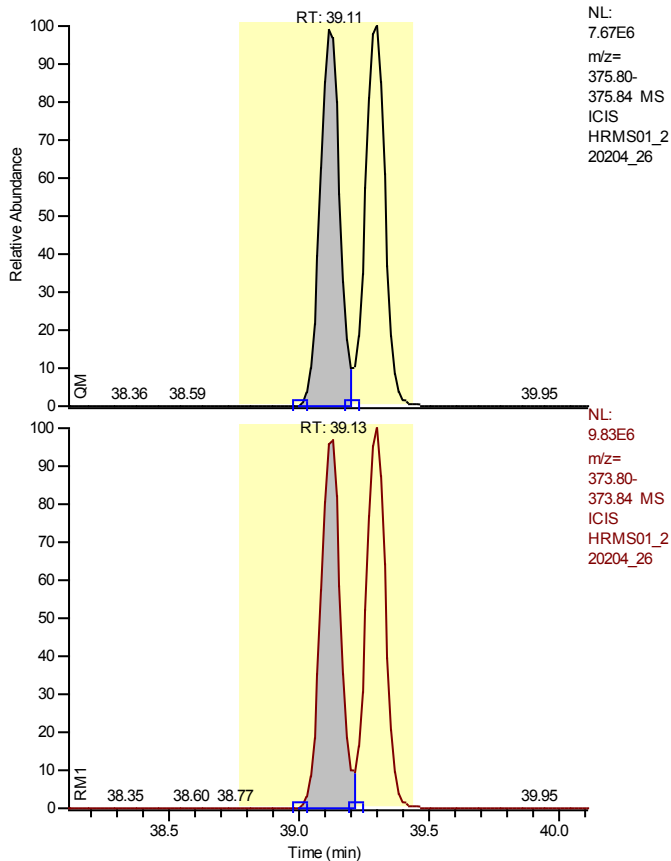
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G

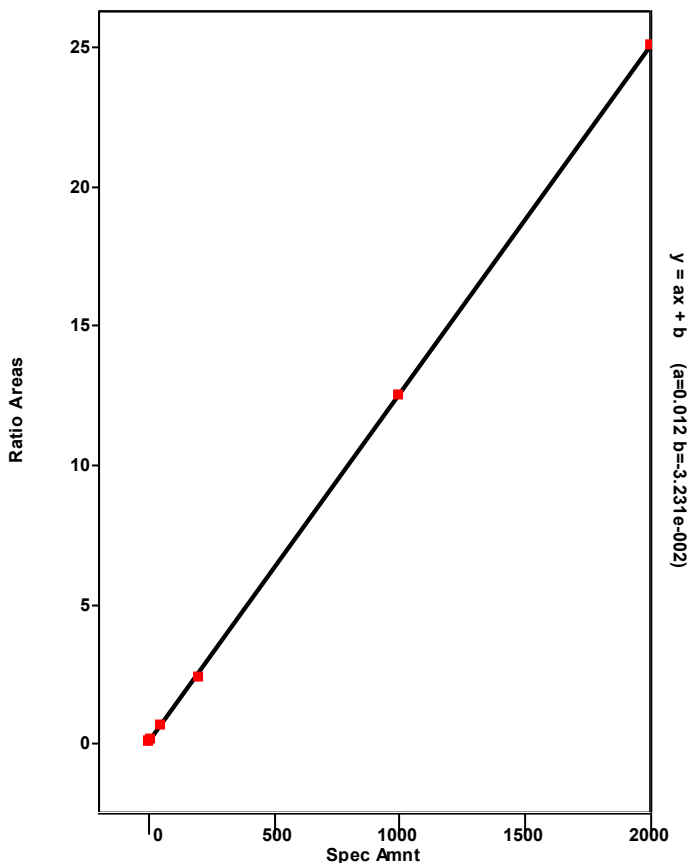


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	39832150
RM1 Area	50693540
RM1 Ratio (A)	1.2727
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

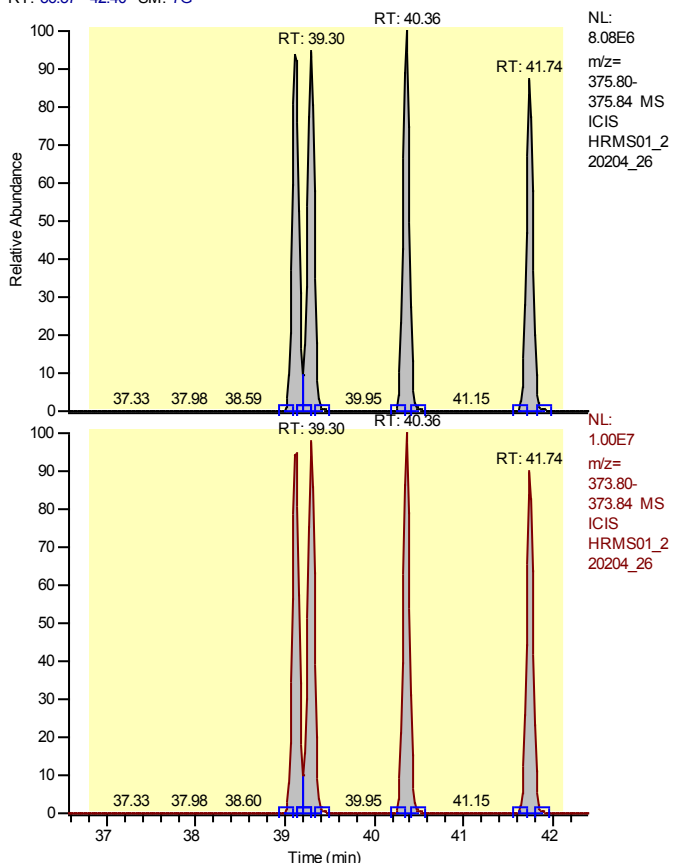
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.57 - 42.40 SM: 7G



NL:
8.08E6
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_26

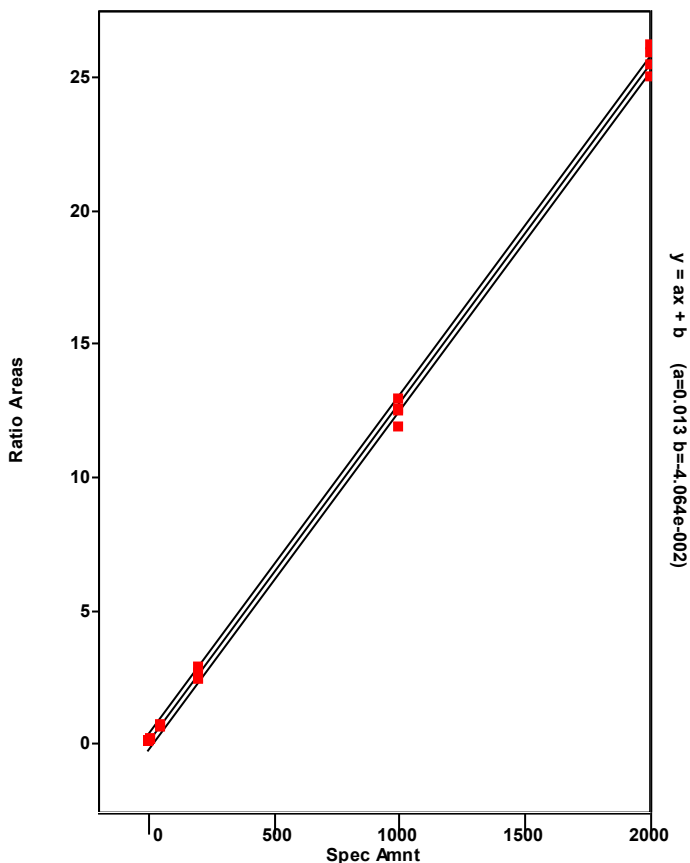
NL:
1.00E7
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_26

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	159858752
RM1 Area	201303590
RM1 Ratio (A)	1.2593
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

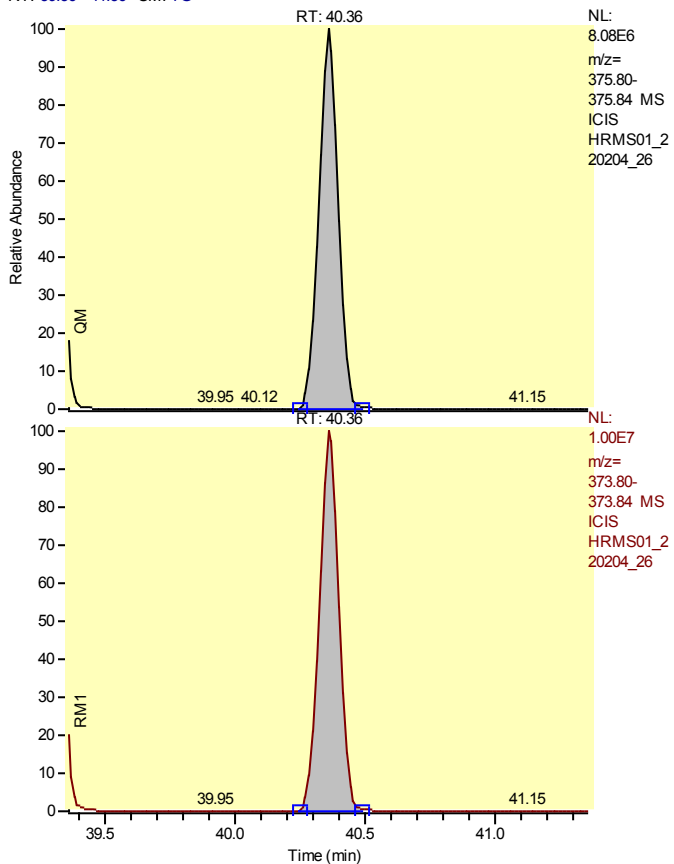
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 39.36 - 41.36 SM: 7G

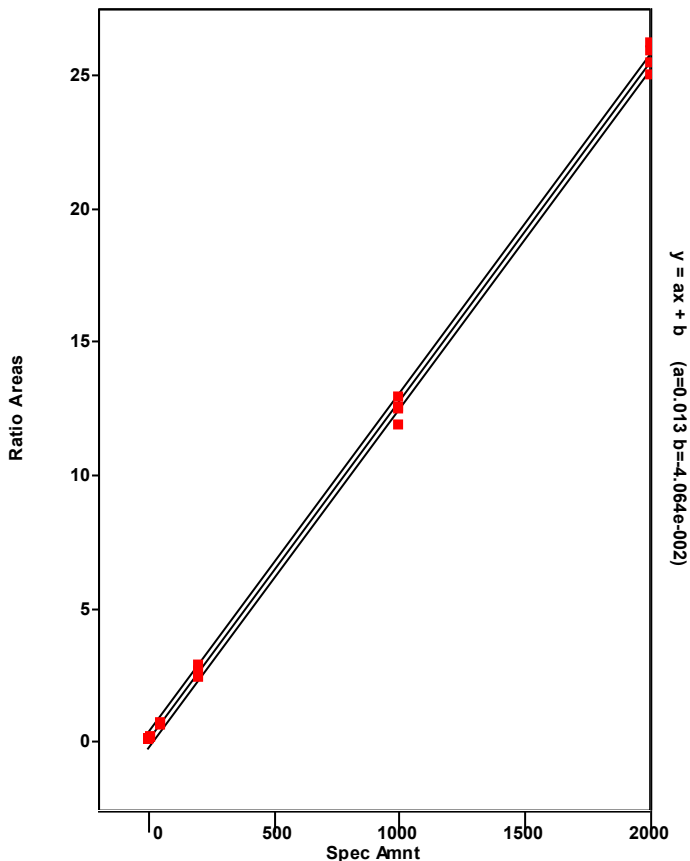


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	41724584
RM1 Area	52150081
RM1 Ratio (A)	1.2499
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

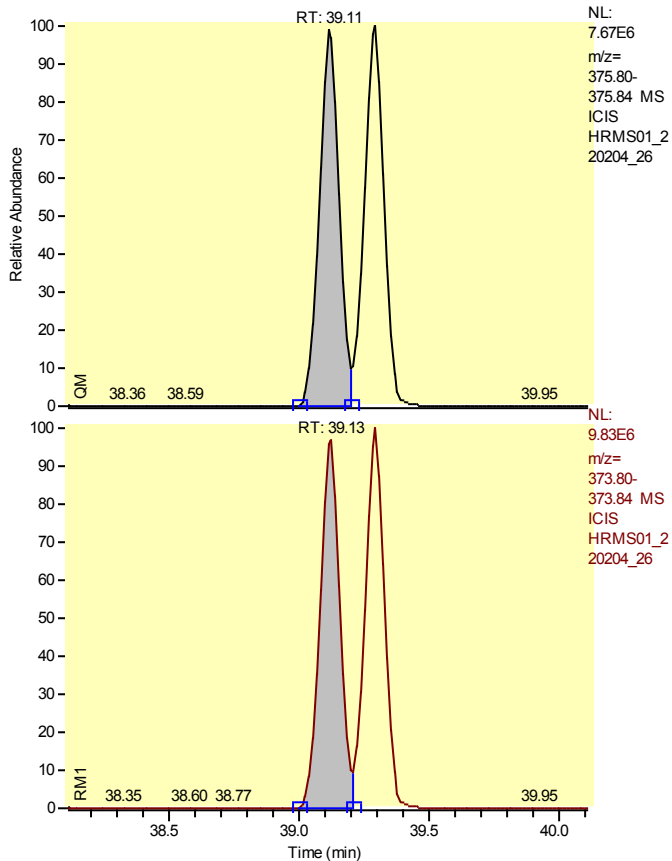
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.11-40.11 SM: 7G

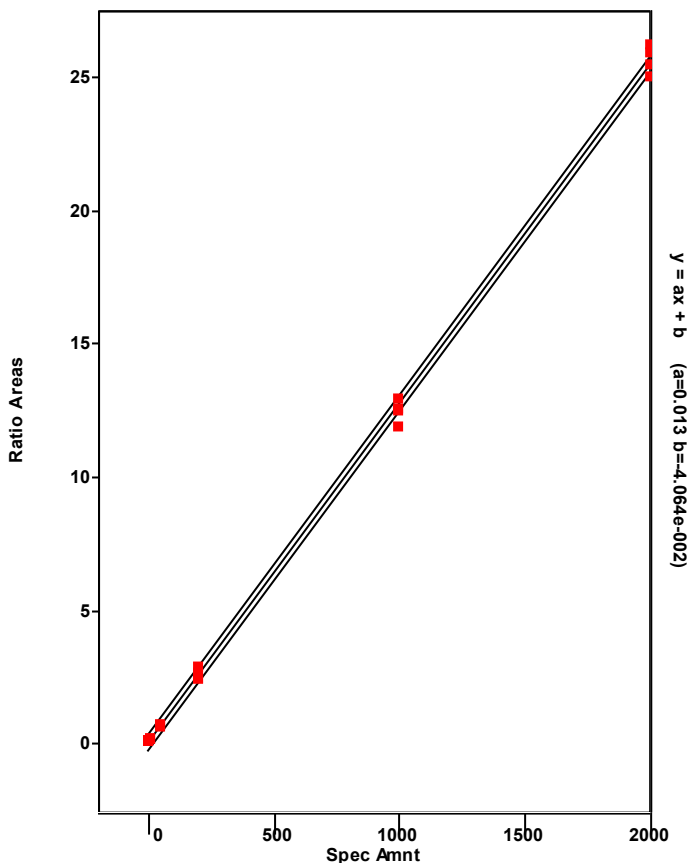


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	39832150
RM1 Area	50693540
RM1 Ratio (A)	1.2727
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

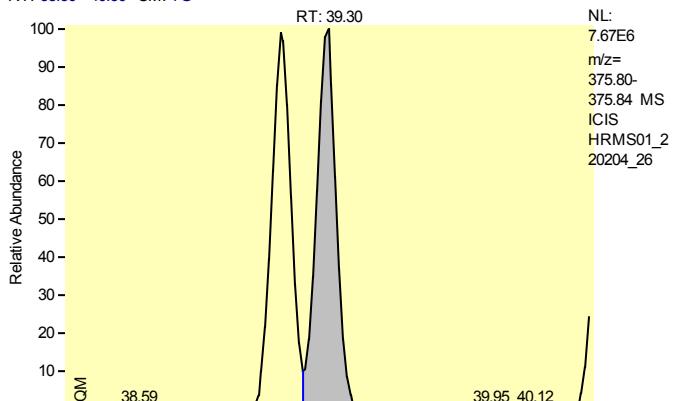
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



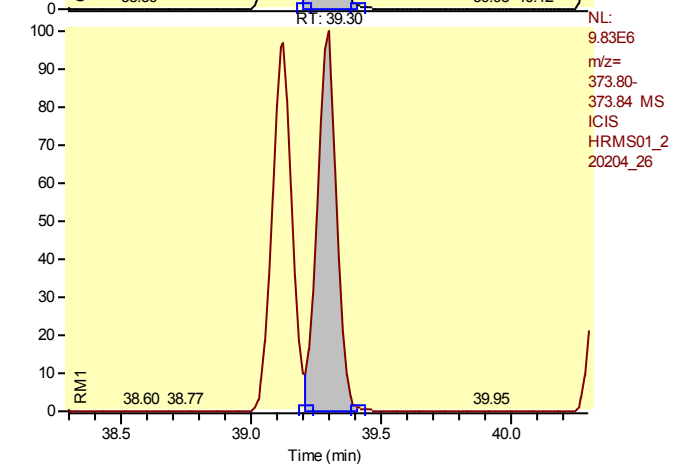
Chromatogram

Entry Parameters

RT: 38.30 - 40.30 SM: 7G



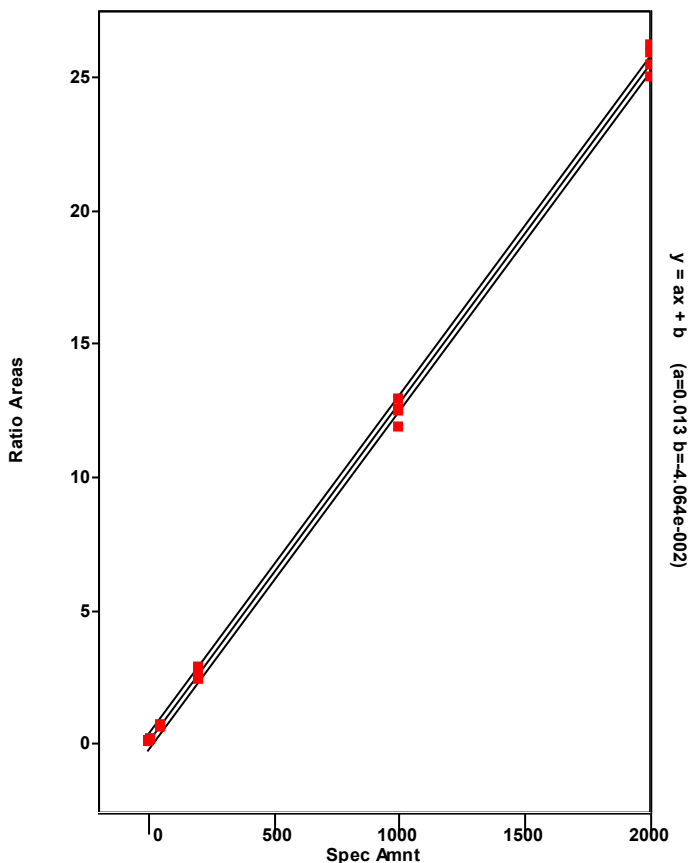
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	40475670
RM1 Area	50453086
RM1 Ratio (A)	1.2465
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

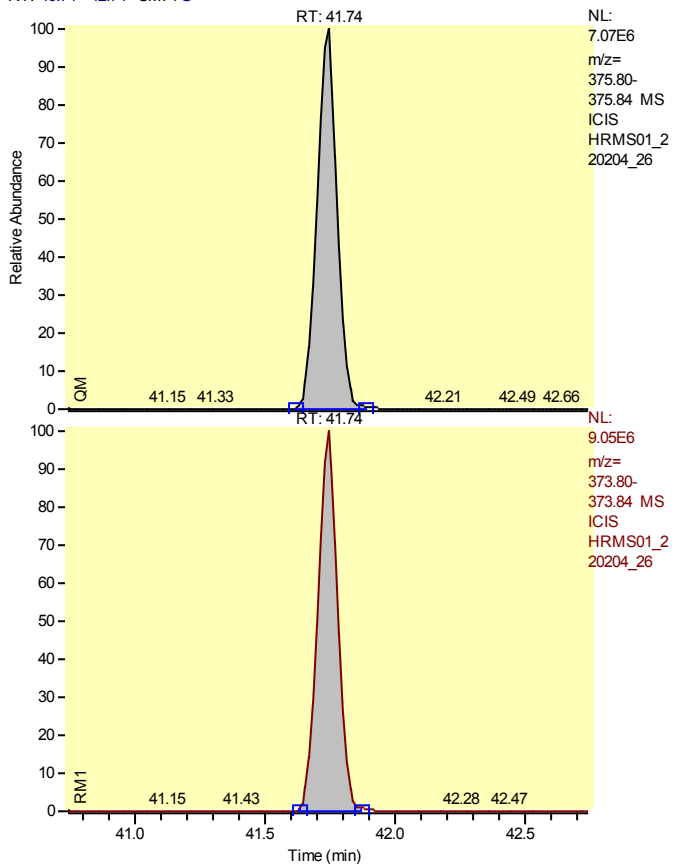
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.74 - 42.74 SM: 7G

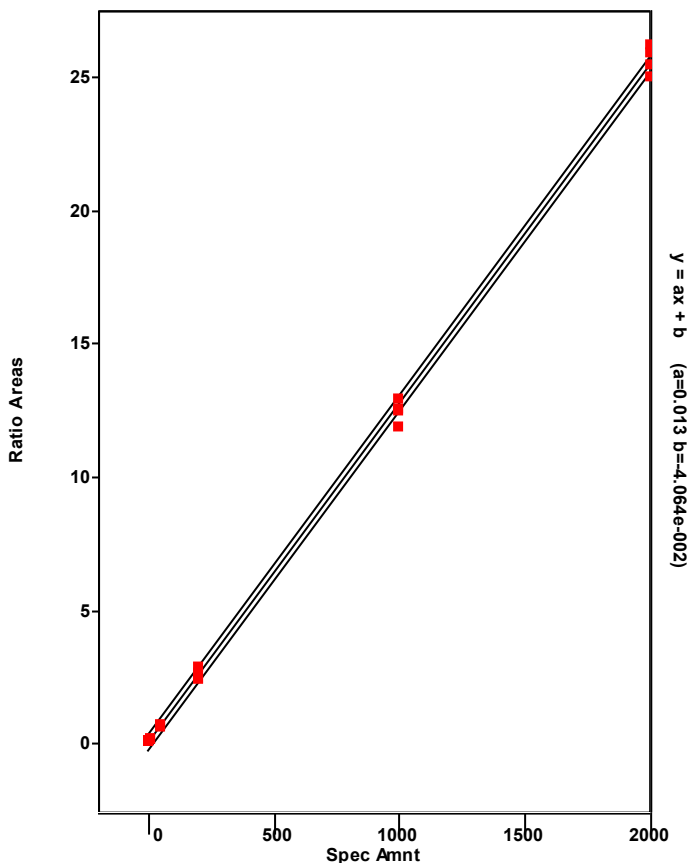


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	37826348
RM1 Area	48006882
RM1 Ratio (A)	1.2691
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

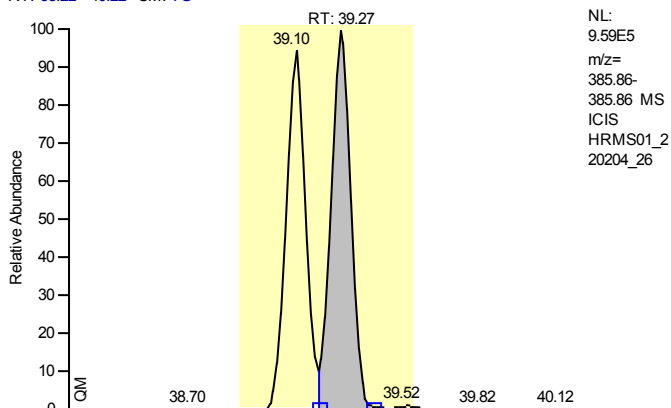
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

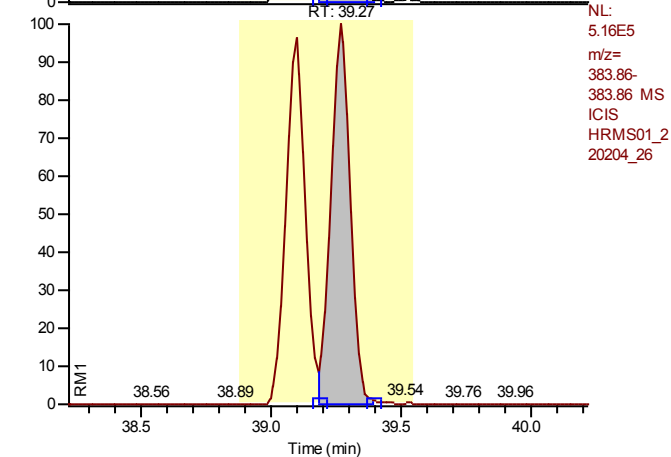
Entry Parameters

RT: 38.22 - 40.22 SM: 7G



NL: 9.59E5
 m/z= 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_26

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	5114344
RM1 Area	2704374
RM1 Ratio (A)	0.5288
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

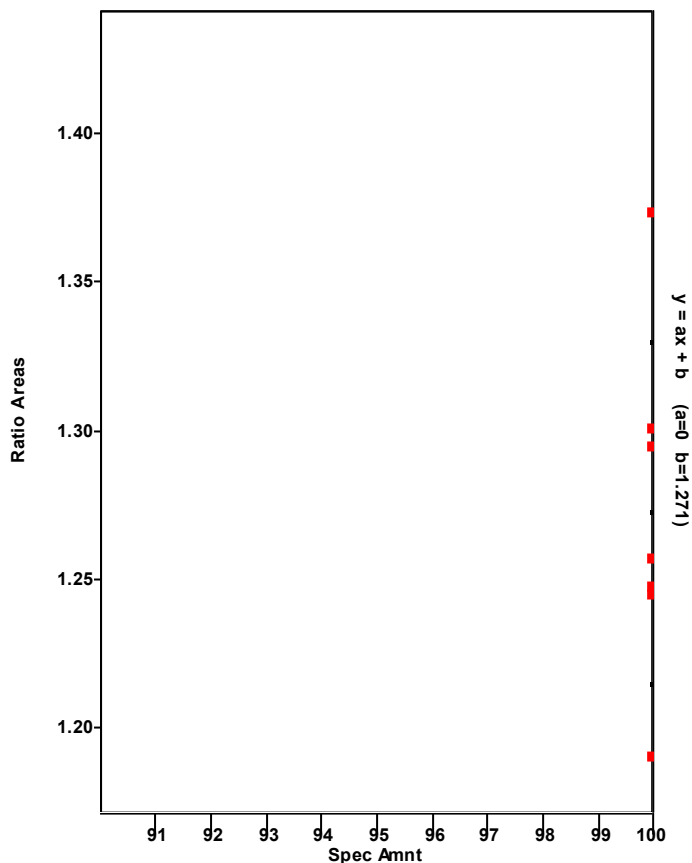


NL: 5.16E5
 m/z= 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

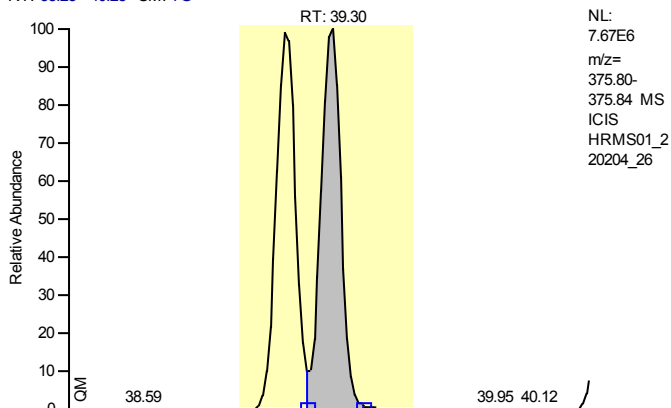
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

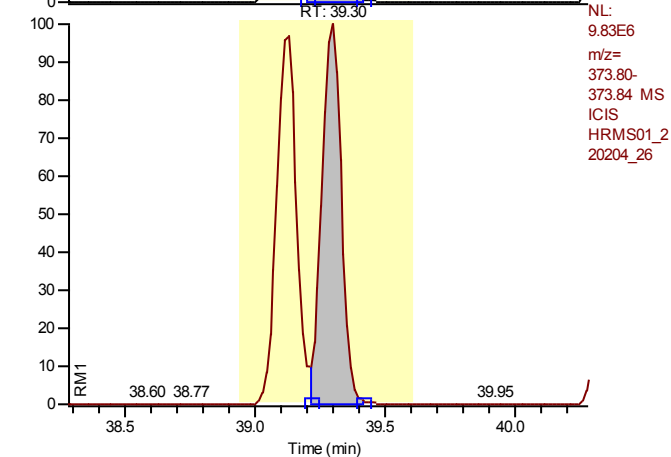
Entry Parameters

RT: 38.28 - 40.28 SM: 7G



NL:
7.67E6
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_26

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	40475670
RM1 Area	50453086
RM1 Ratio (A)	1.2465
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

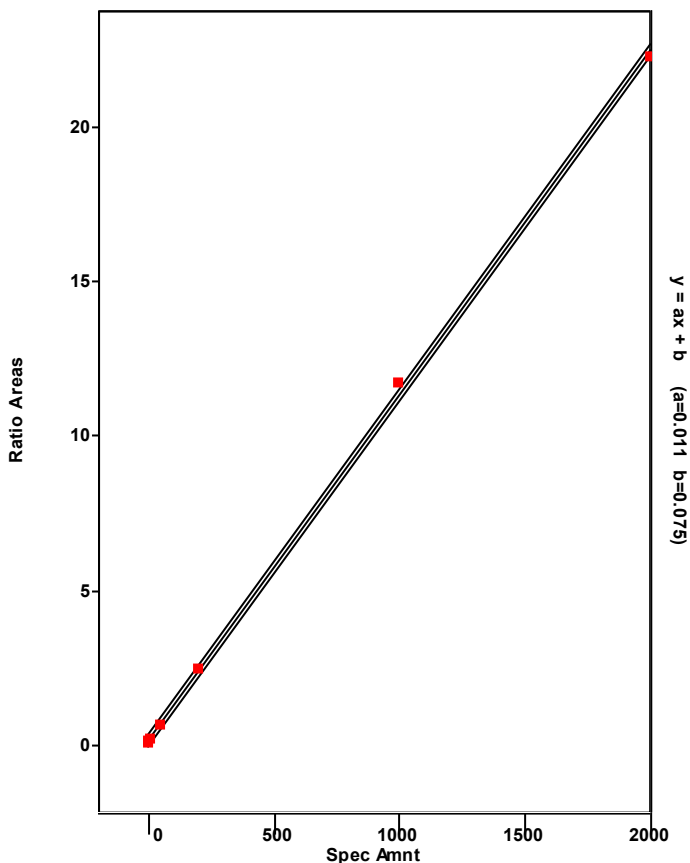


NL:
9.83E6
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_26

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

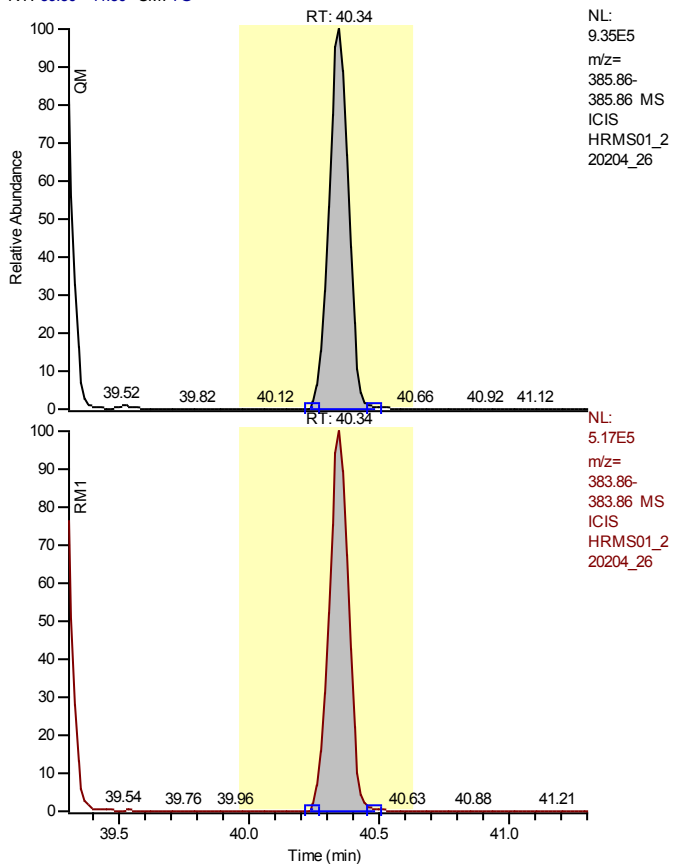
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G



NL:
 9.35E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_26

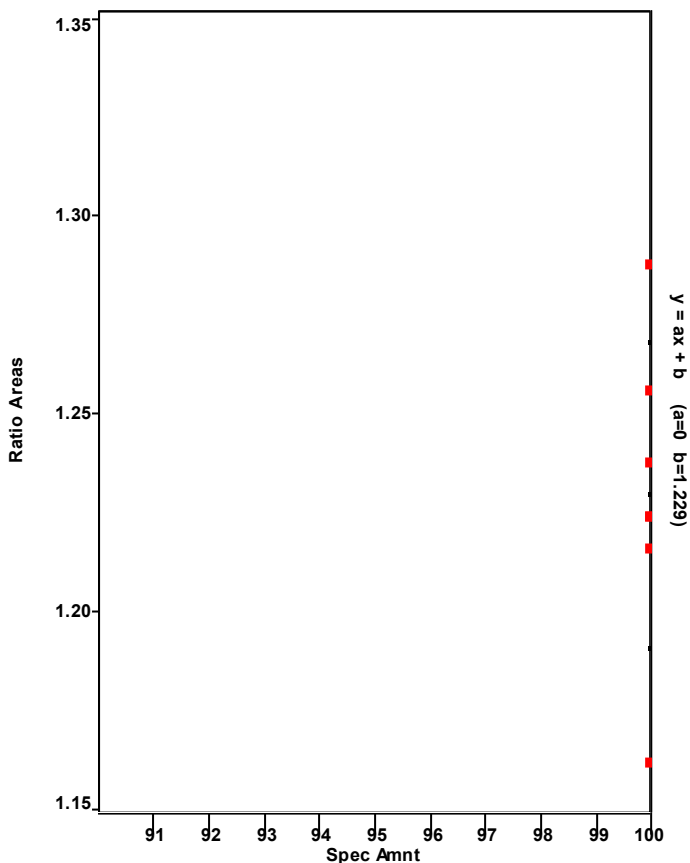
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	4947928
RM1 Area	2726200
RM1 Ratio (A)	0.5510
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 5.17E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

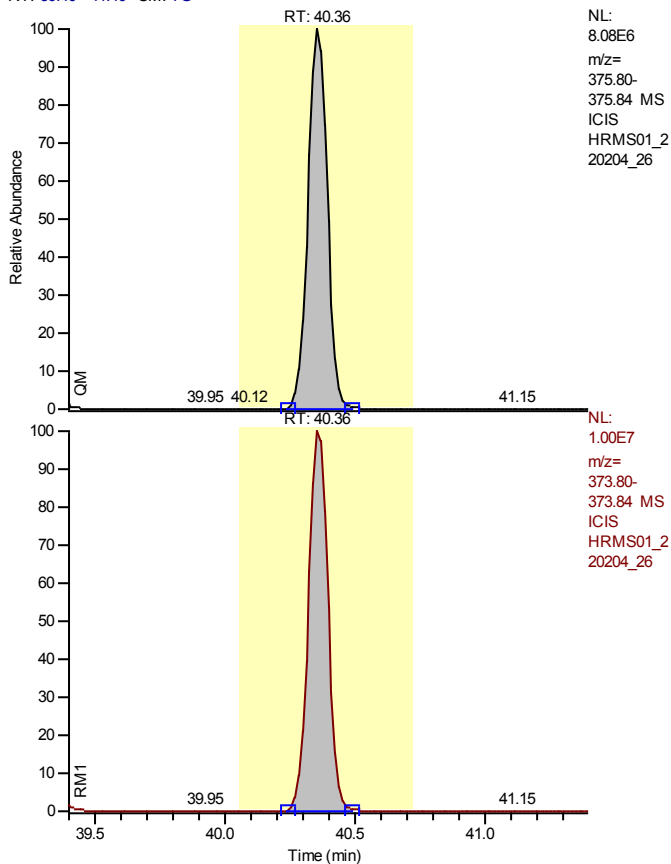
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.40 - 41.40 SM: 7G



NL:
 8.08E6
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_26

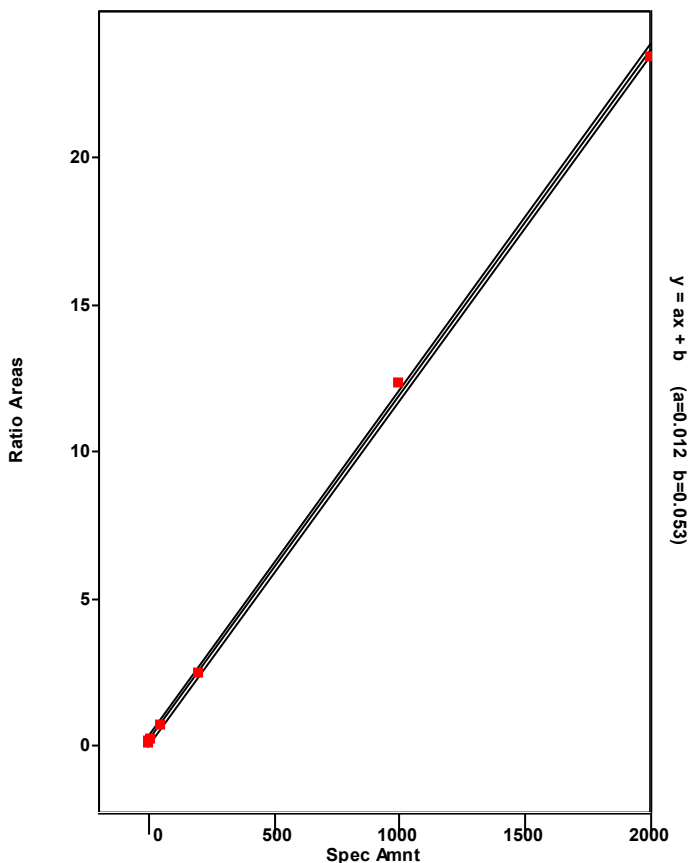
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	41724584
RM1 Area	52150081
RM1 Ratio (A)	1.2499
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

NL:
 1.00E7
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_26

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

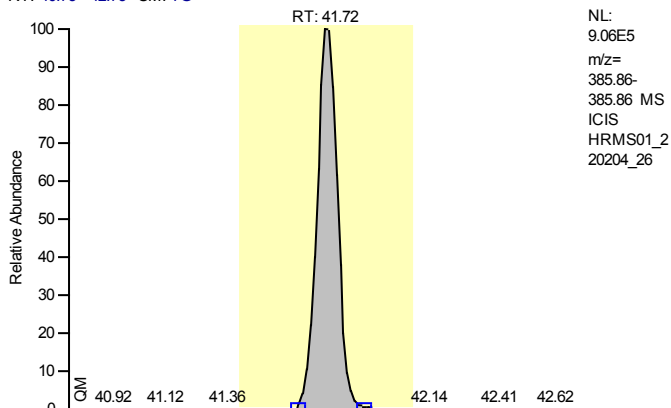
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



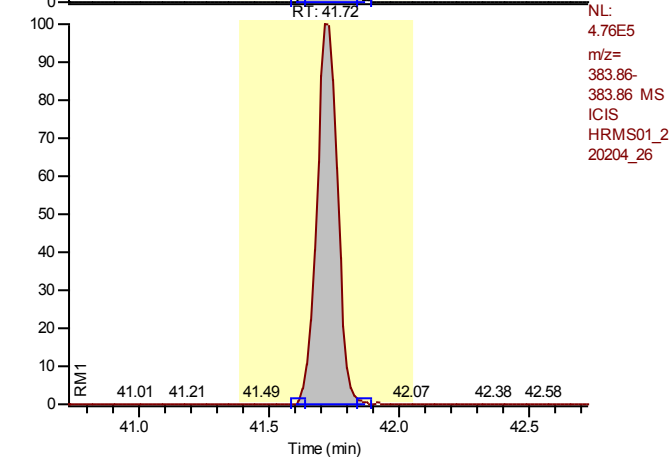
Chromatogram

Entry Parameters

RT: 40.73 - 42.73 SM: 7G



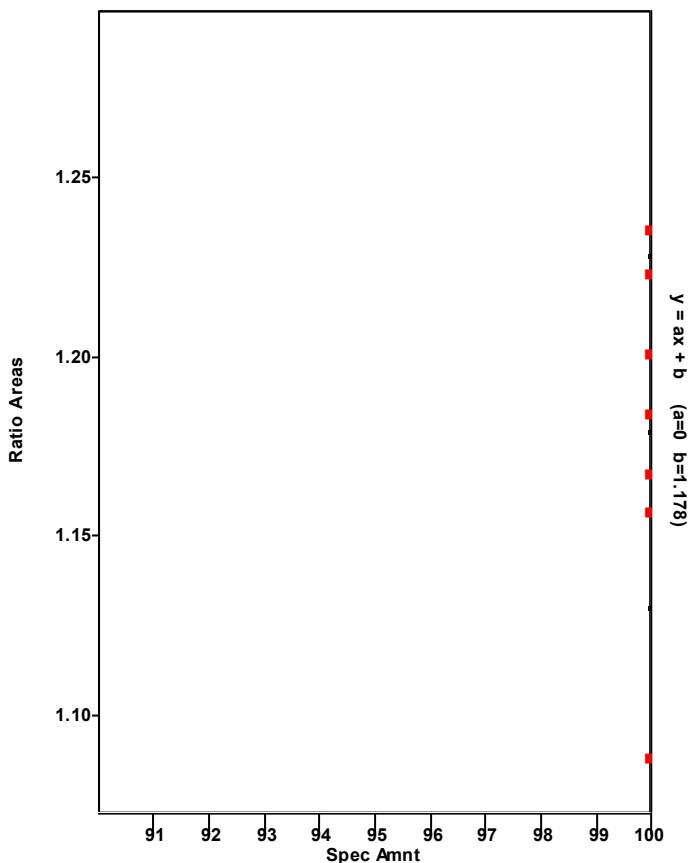
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	5018328
RM1 Area	2645790
RM1 Ratio (A)	0.5272
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

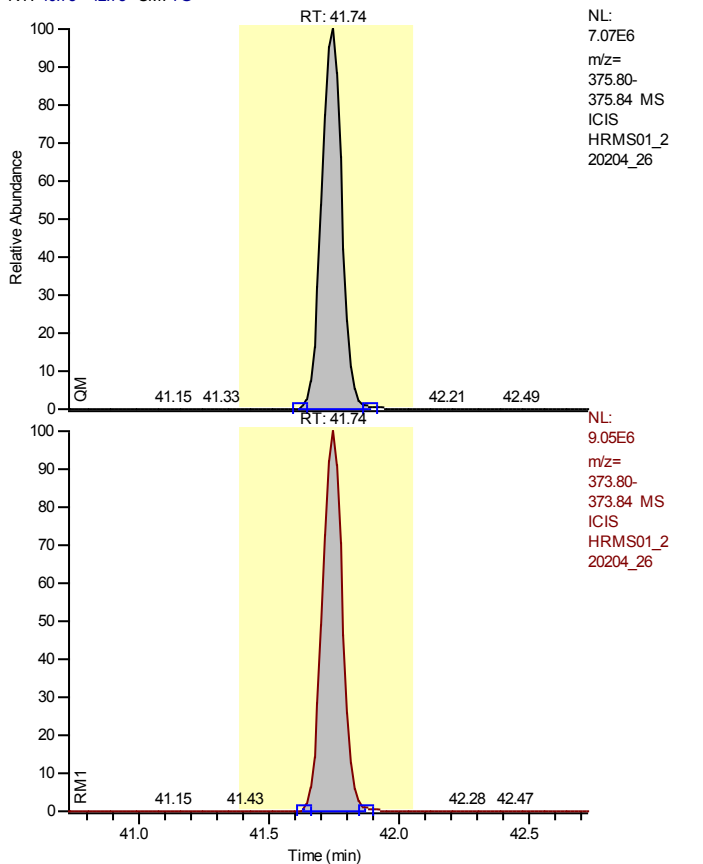
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.73 - 42.73 SM: 7G

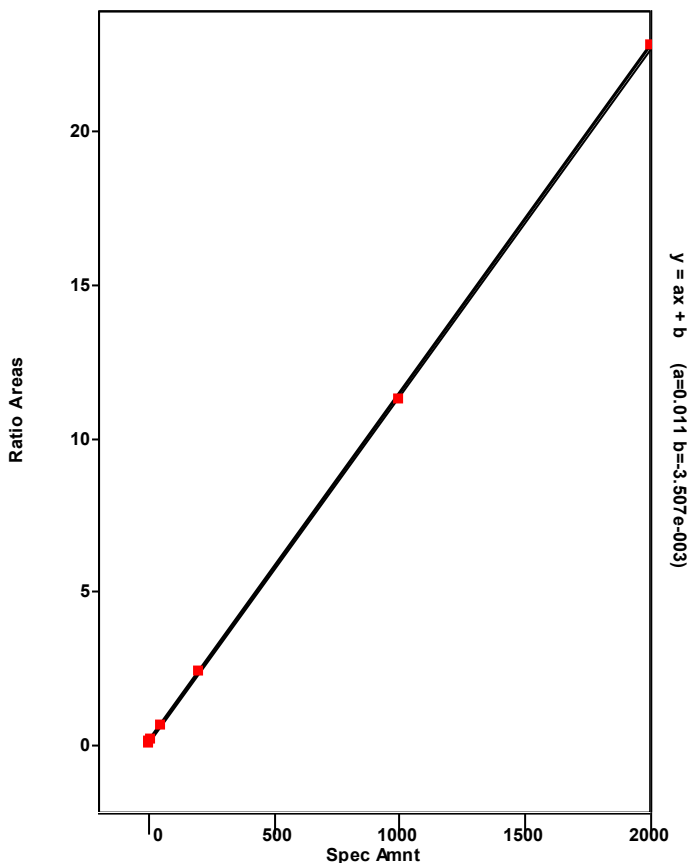


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	37826348
RM1 Area	48006882
RM1 Ratio (A)	1.2691
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

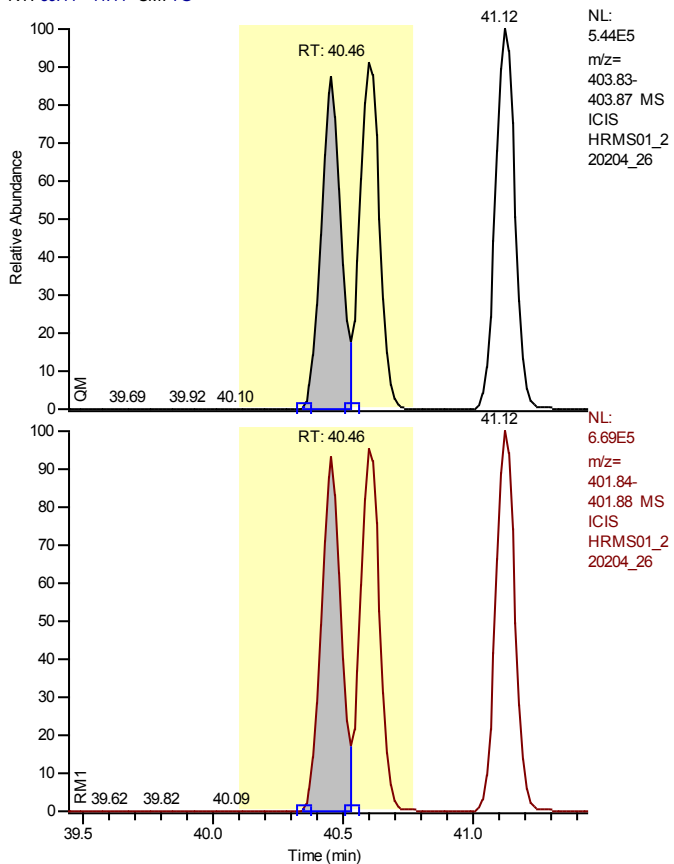
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

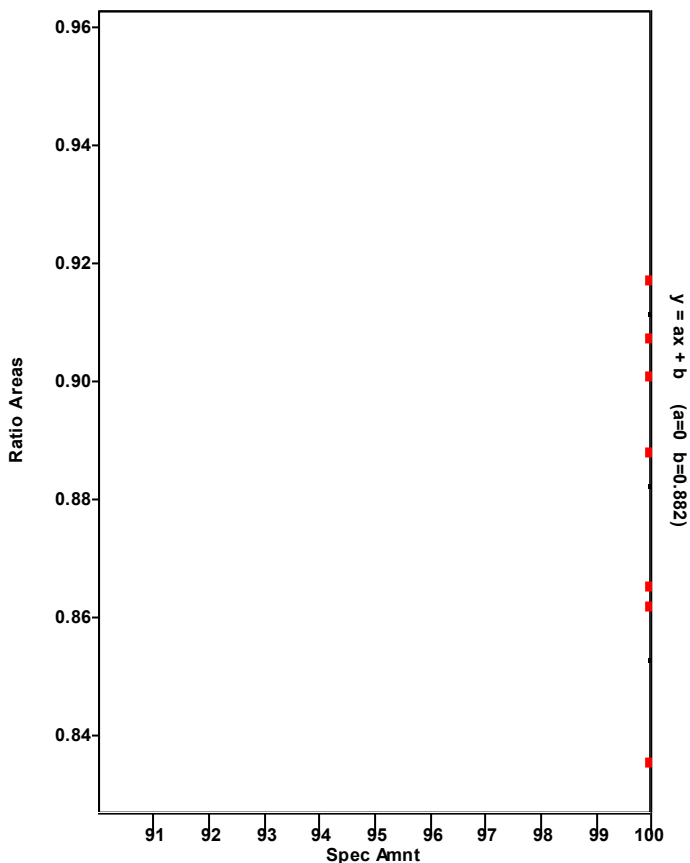
RT: 39.44 - 41.44 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2497625
RM1 Area	3252099
RM1 Ratio (A)	1.3021
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

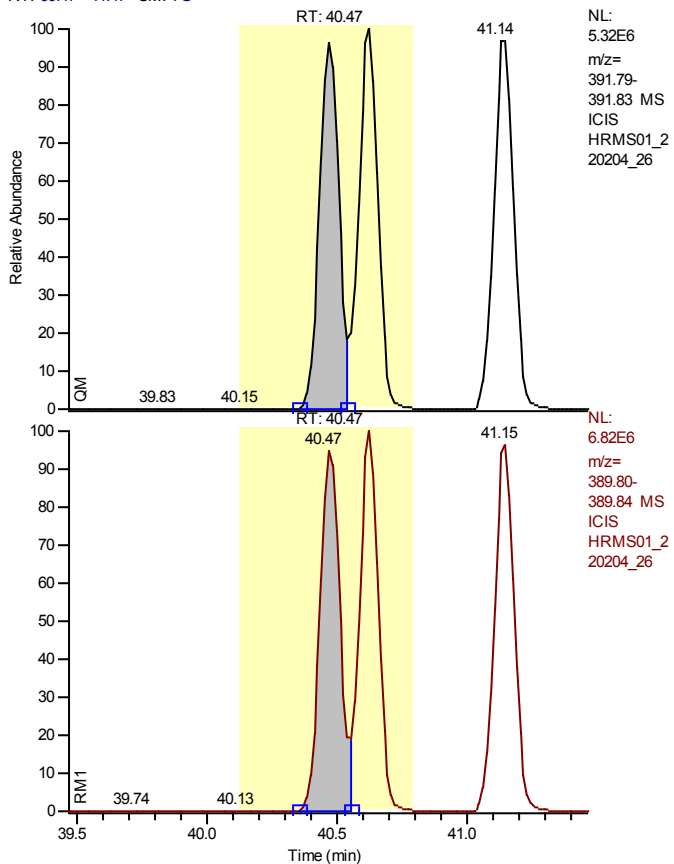
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.47 - 41.47 SM: 7G

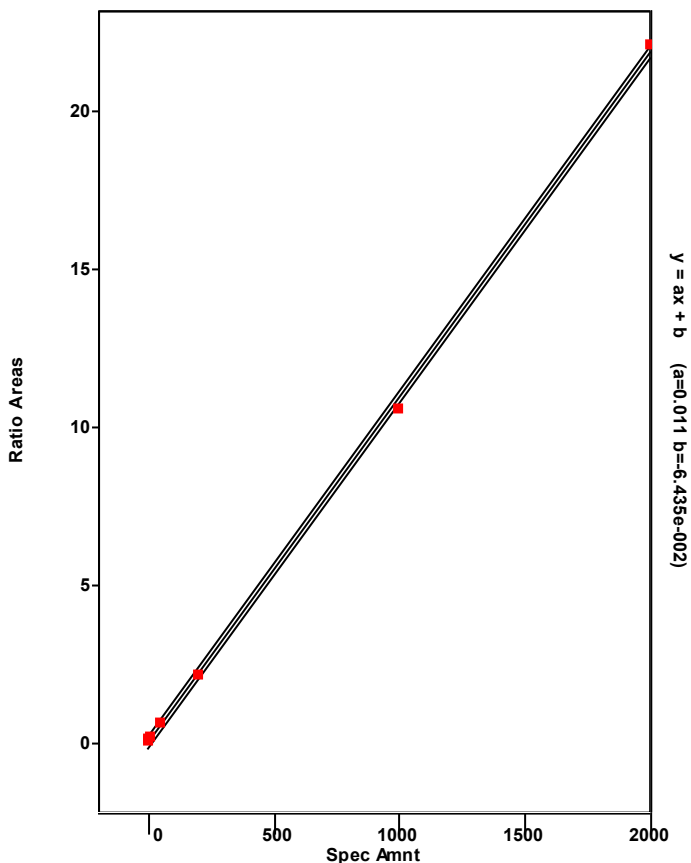


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	26153215
RM1 Area	34033817
RM1 Ratio (A)	1.3013
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

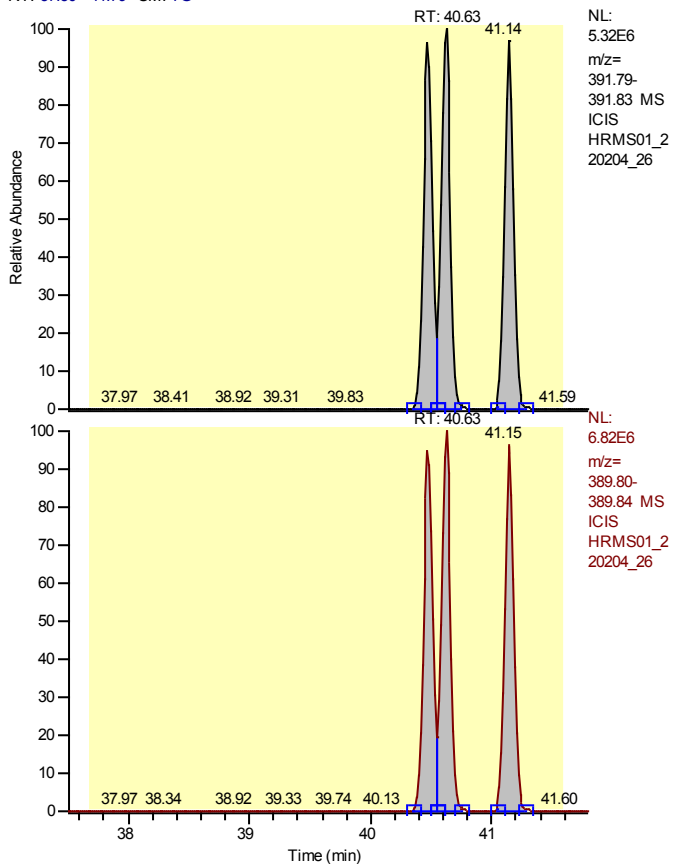
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.50 - 41.79 SM: 7G

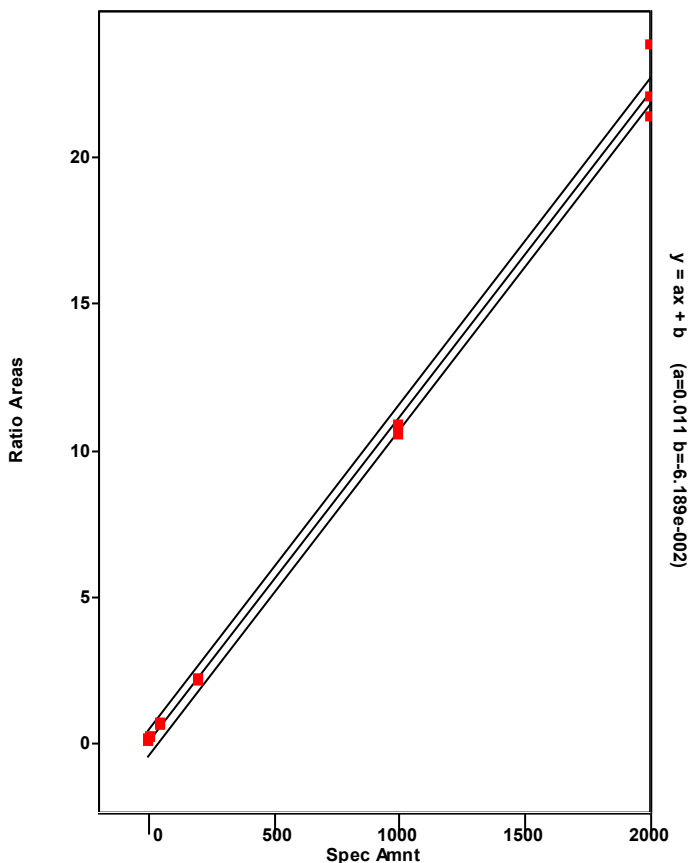


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	81050528
RM1 Area	102580907
RM1 Ratio (A)	1.2656
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	3000.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

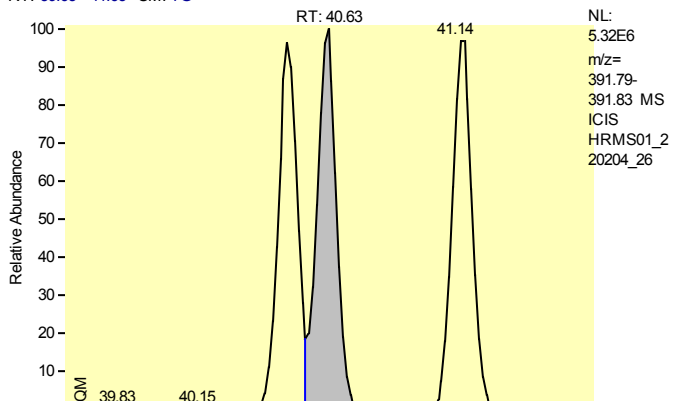
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



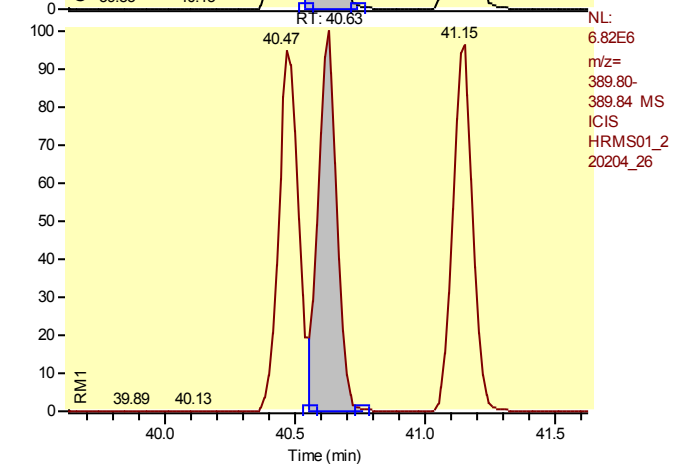
Chromatogram

Entry Parameters

RT: 39.63 - 41.63 SM: 7G



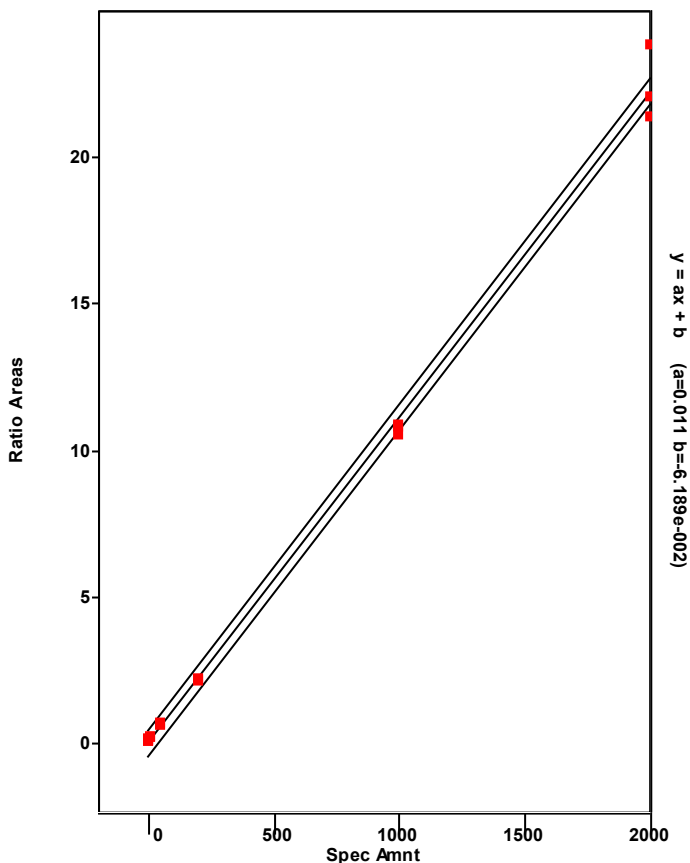
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	27506866
RM1 Area	34004329
RM1 Ratio (A)	1.2362
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

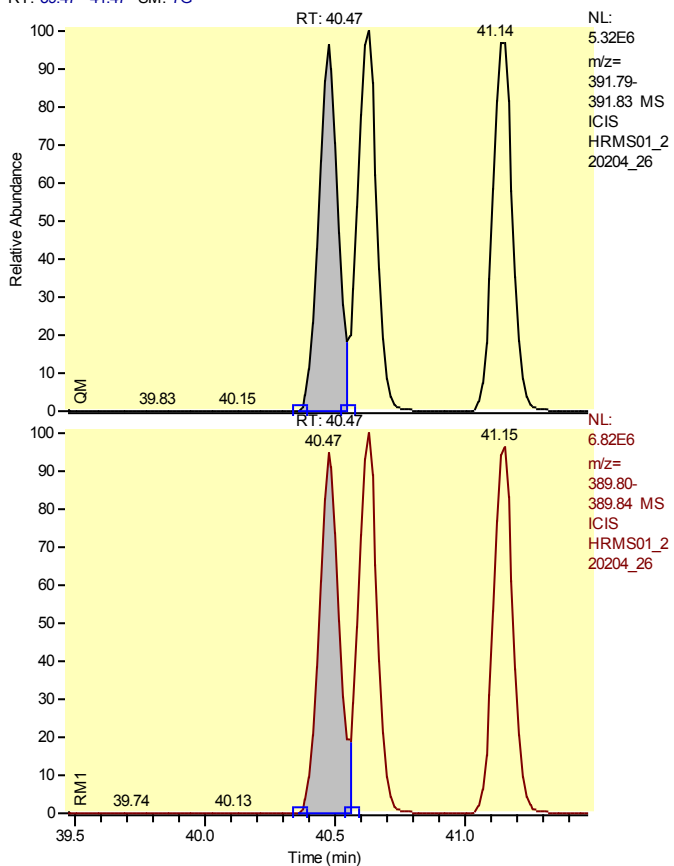
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.47 - 41.47 SM: 7G

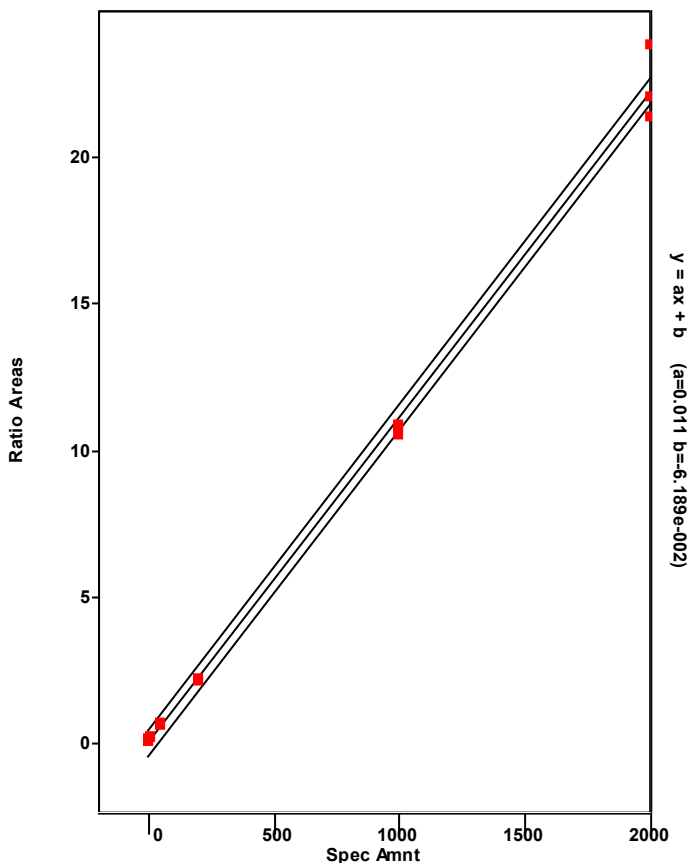


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	26153215
RM1 Area	34033817
RM1 Ratio (A)	1.3013
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

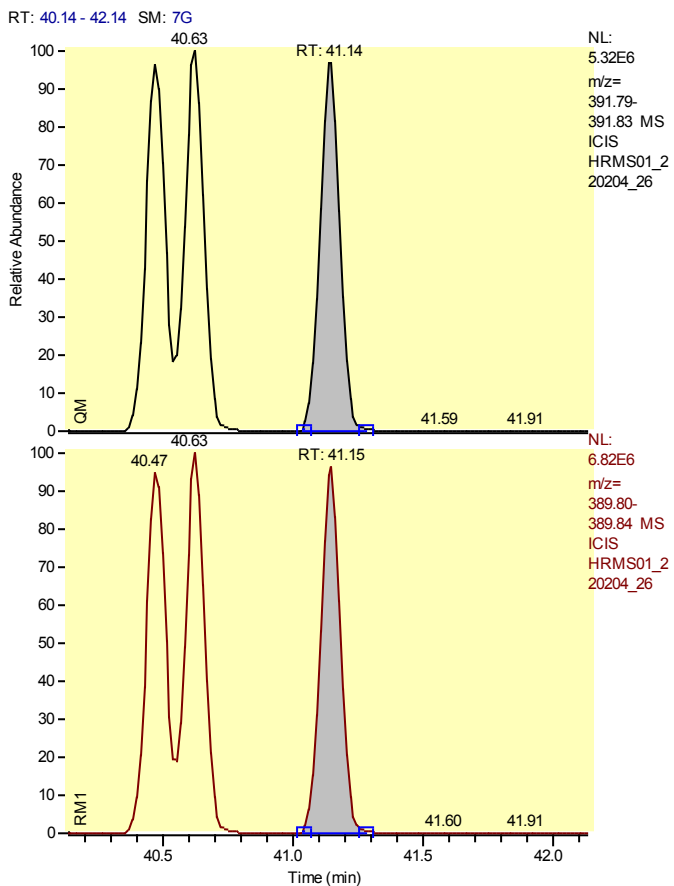
Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

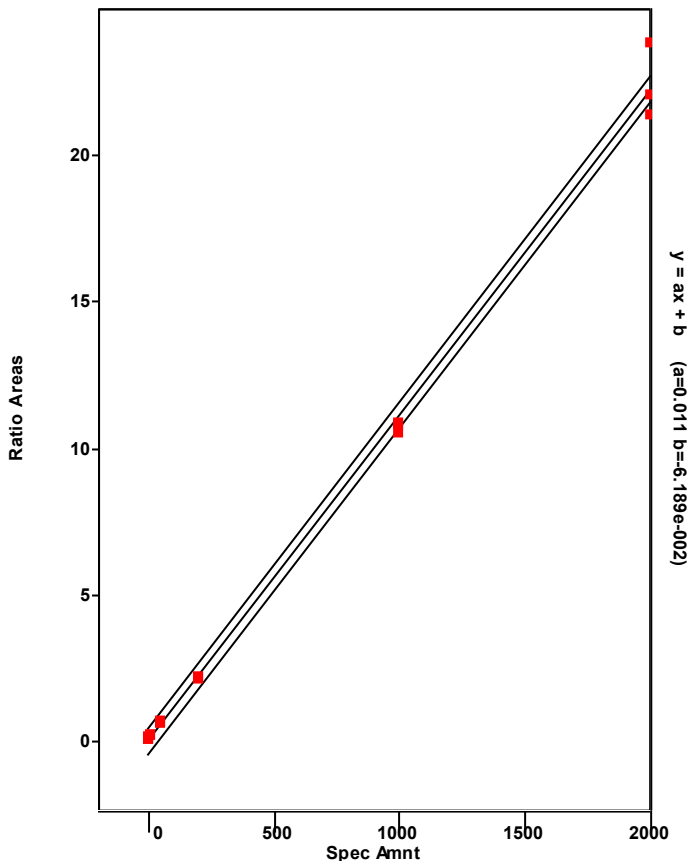


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	27390447
RM1 Area	34542761
RM1 Ratio (A)	1.2611
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

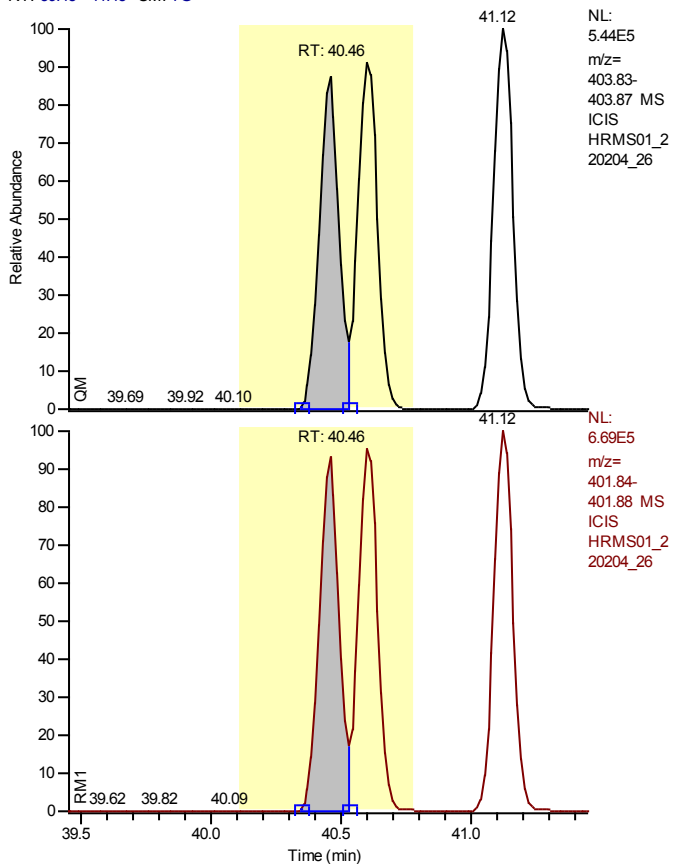
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

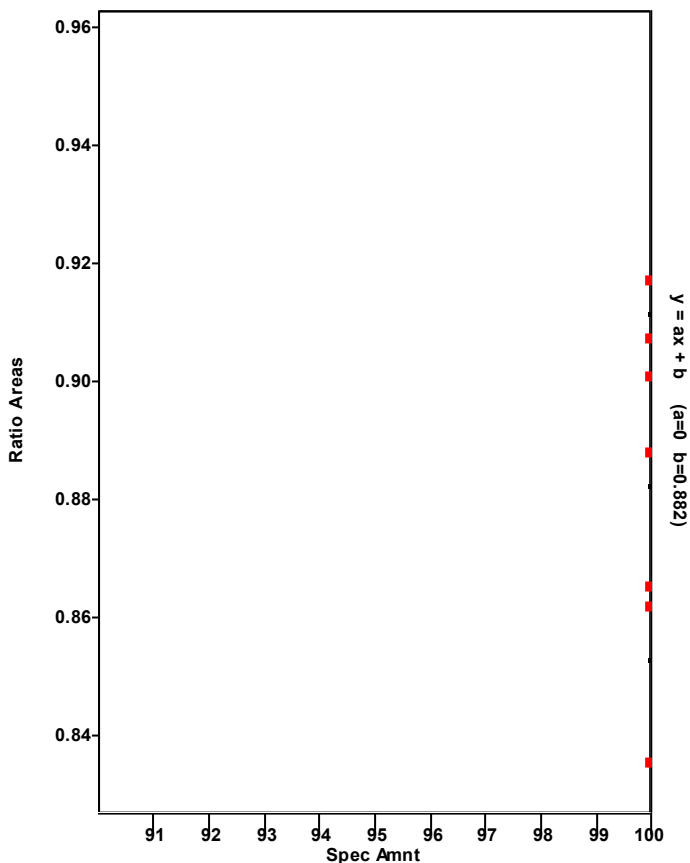
RT: 39.45 - 41.45 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2497625
RM1 Area	3252099
RM1 Ratio (A)	1.3021
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

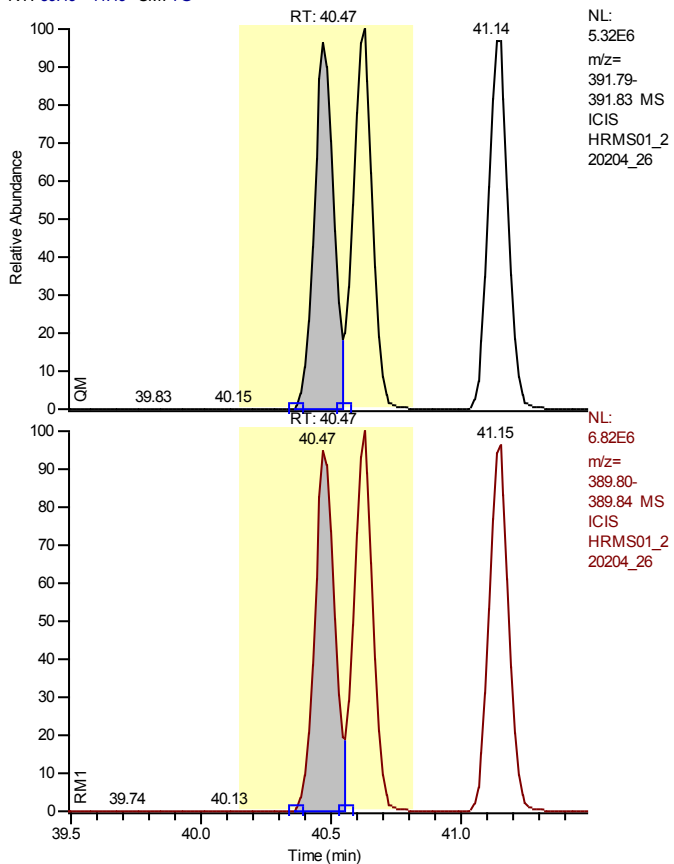
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.49 - 41.49 SM: 7G

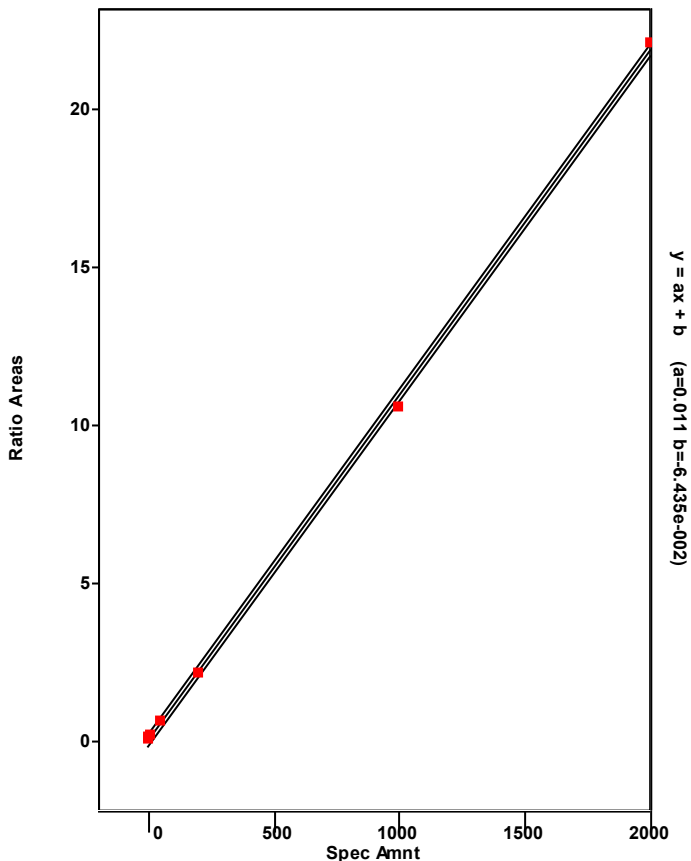


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	26153215
RM1 Area	34033817
RM1 Ratio (A)	1.3013
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

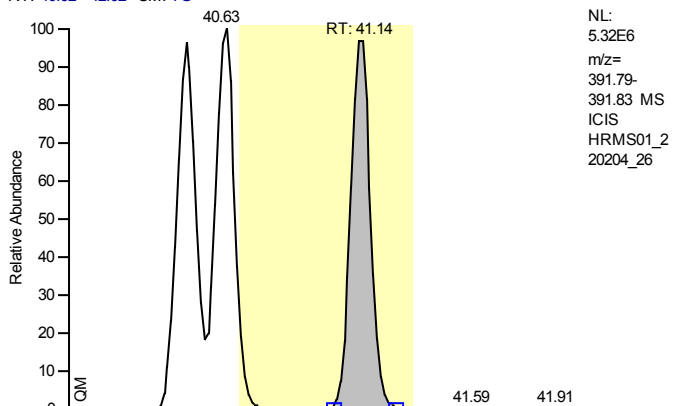
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

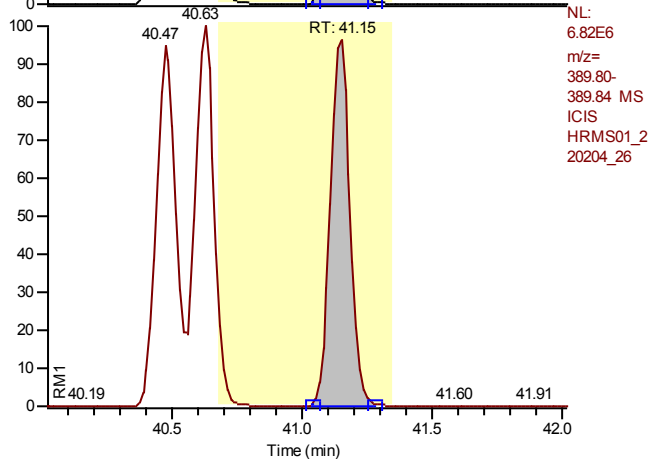
Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
5.32E6
m/z=
391.79-
391.83 MS
ICIS
HRMS01_2
20204_26

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	27390447
RM1 Area	34542761
RM1 Ratio (A)	1.2611
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

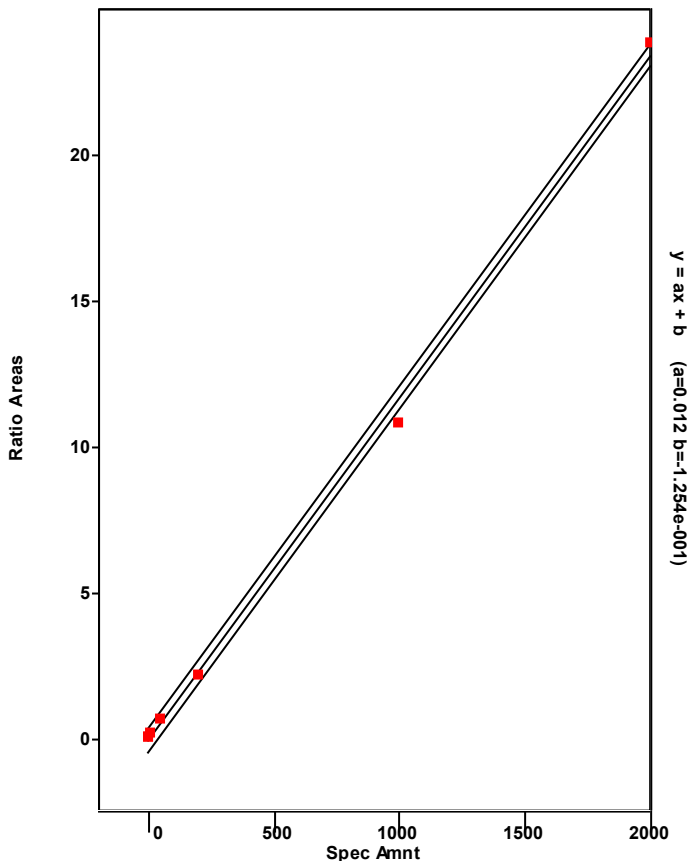


NL:
6.82E6
m/z=
389.80-
389.84 MS
ICIS
HRMS01_2
20204_26

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

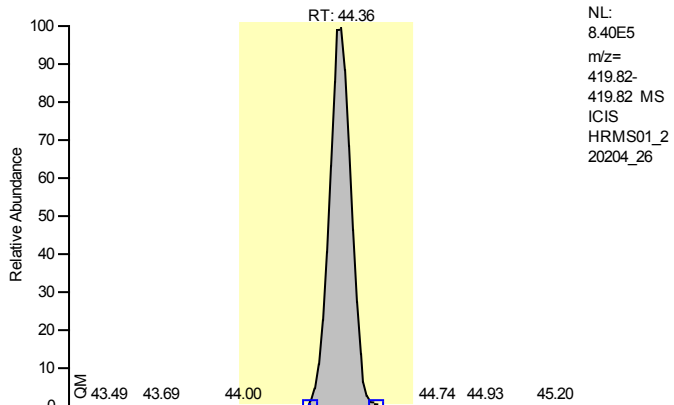
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



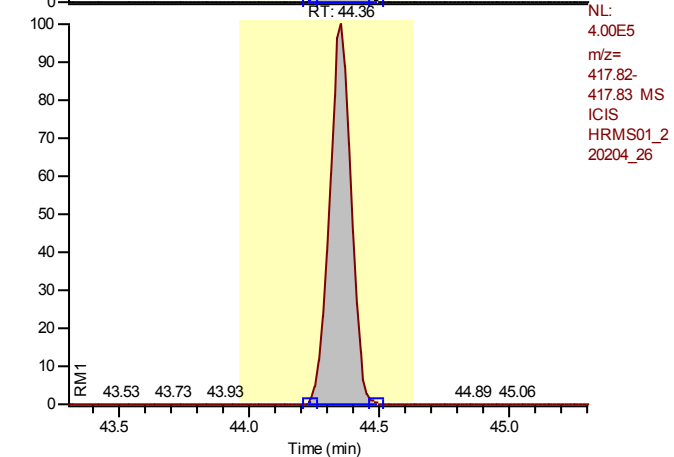
Chromatogram

Entry Parameters

RT: 43.31 - 45.31 SM: 7G

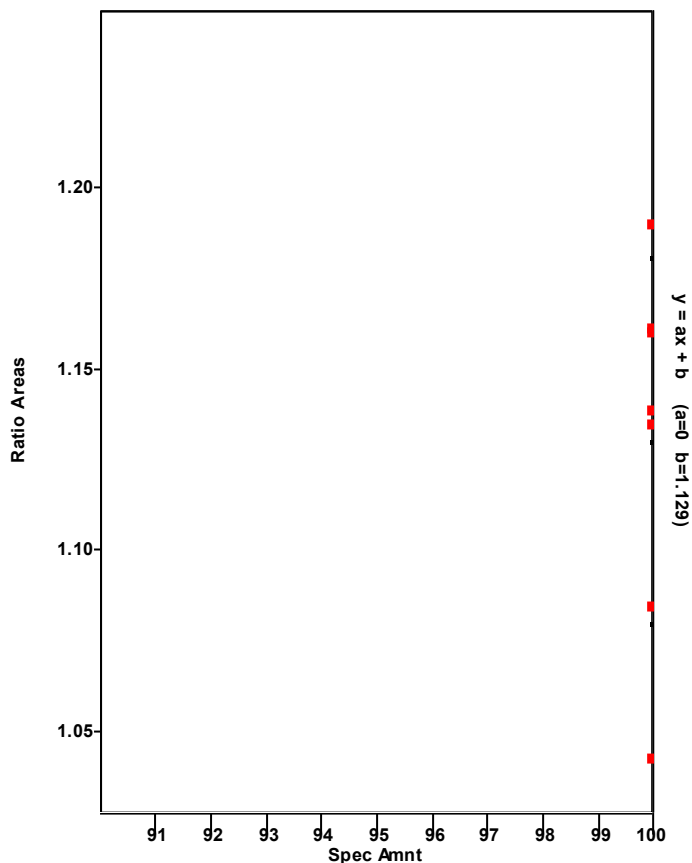


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4949536
RM1 Area	2320082
RM1 Ratio (A)	0.4687
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

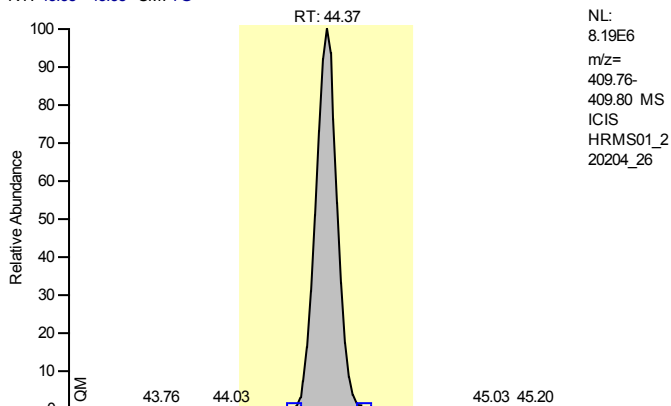
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



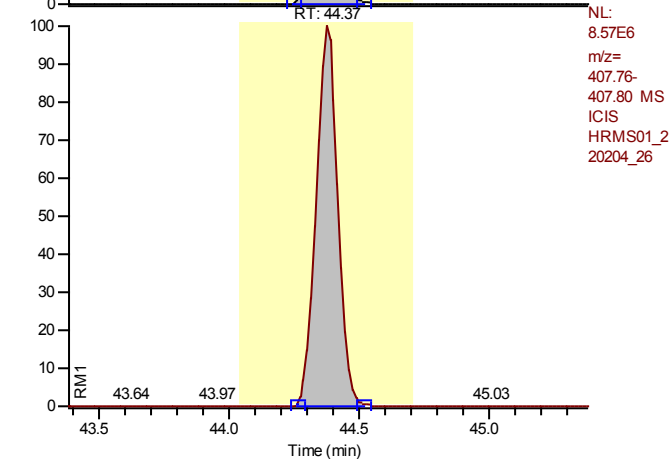
Chromatogram

Entry Parameters

RT: 43.38 - 45.38 SM: 7G



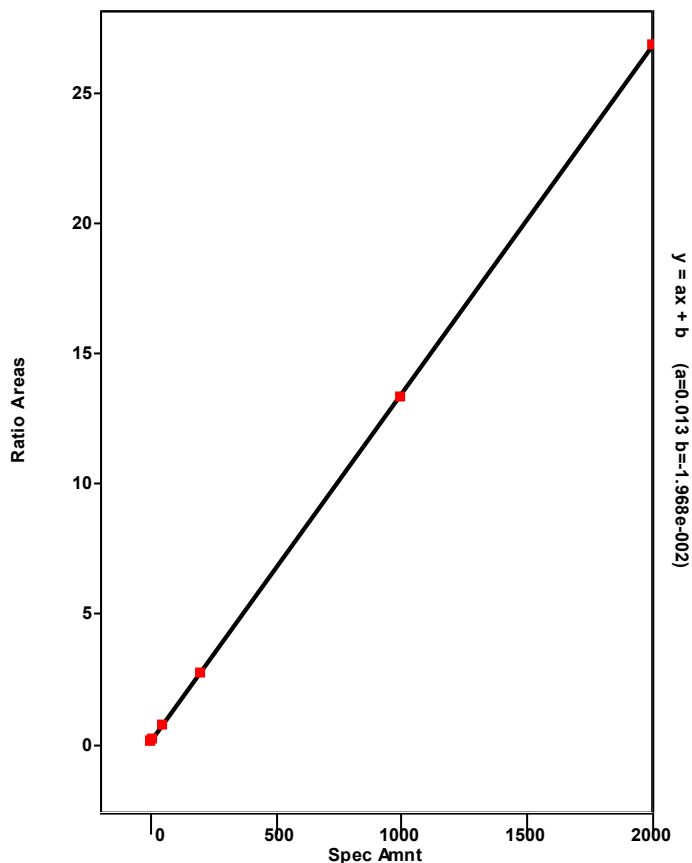
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	46974981
RM1 Area	49315217
RM1 Ratio (A)	1.0498
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

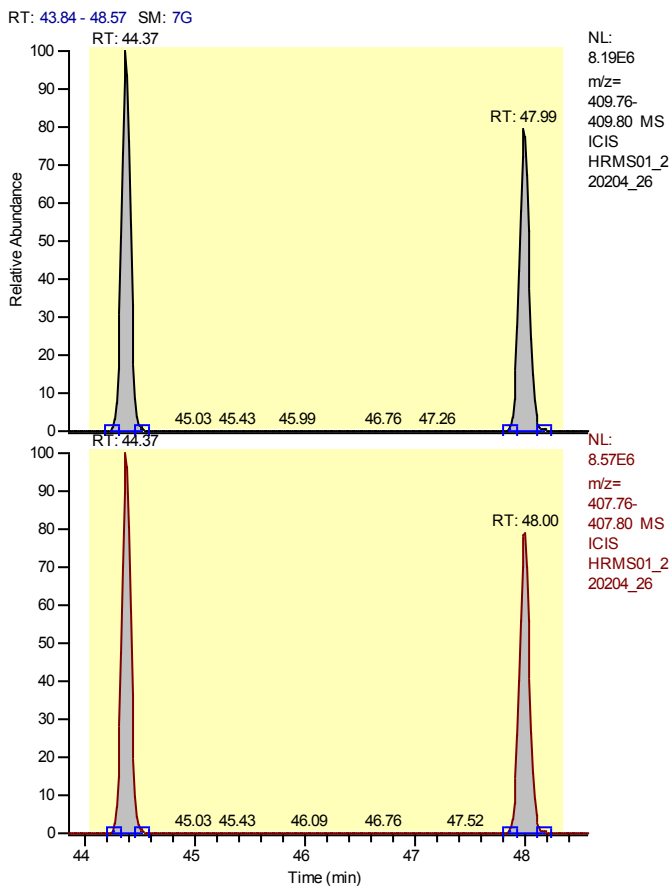
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

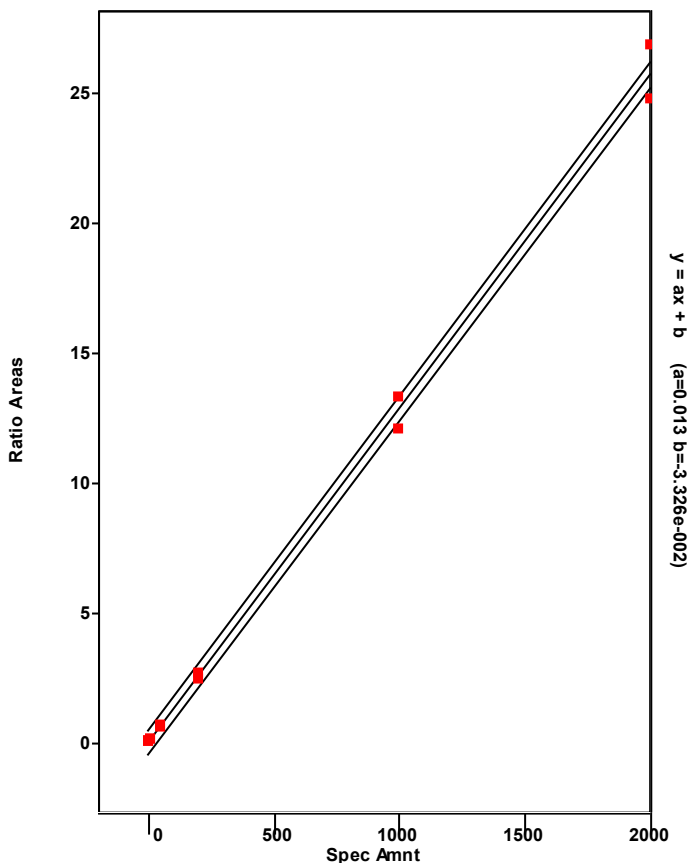


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	89408383
RM1 Area	94008688
RM1 Ratio (A)	1.0515
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

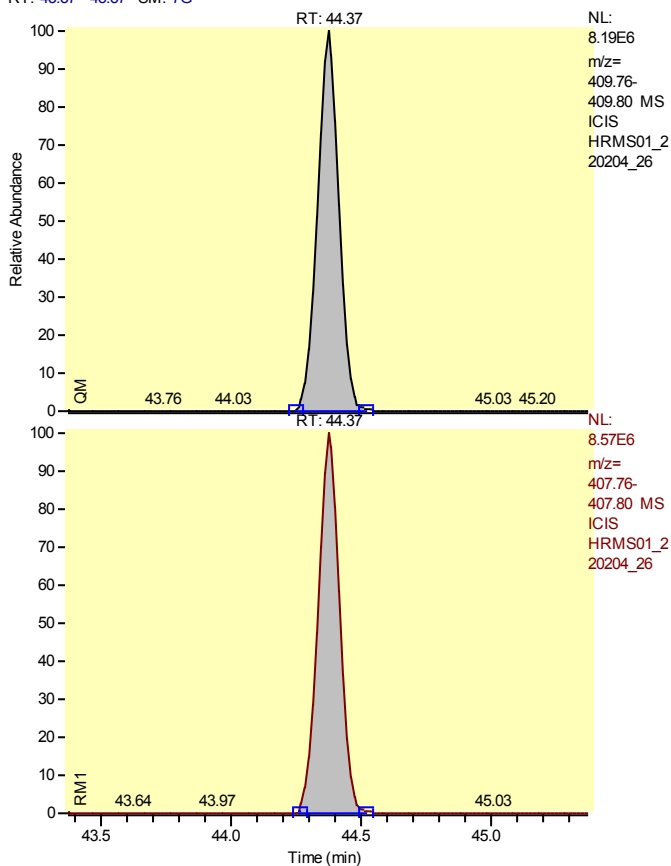
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.37 - 45.37 SM: 7G

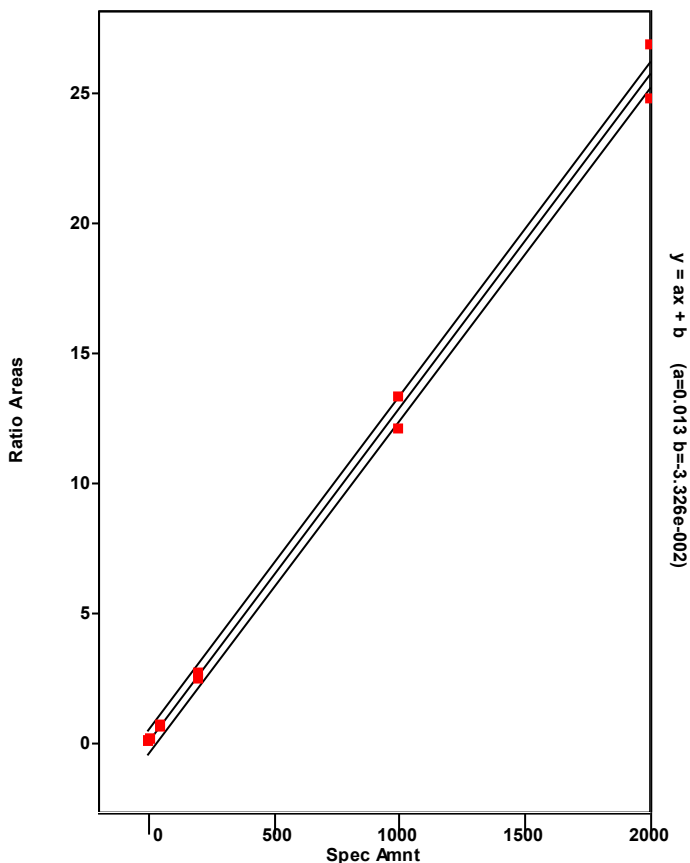


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	46974981
RM1 Area	49315217
RM1 Ratio (A)	1.0498
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

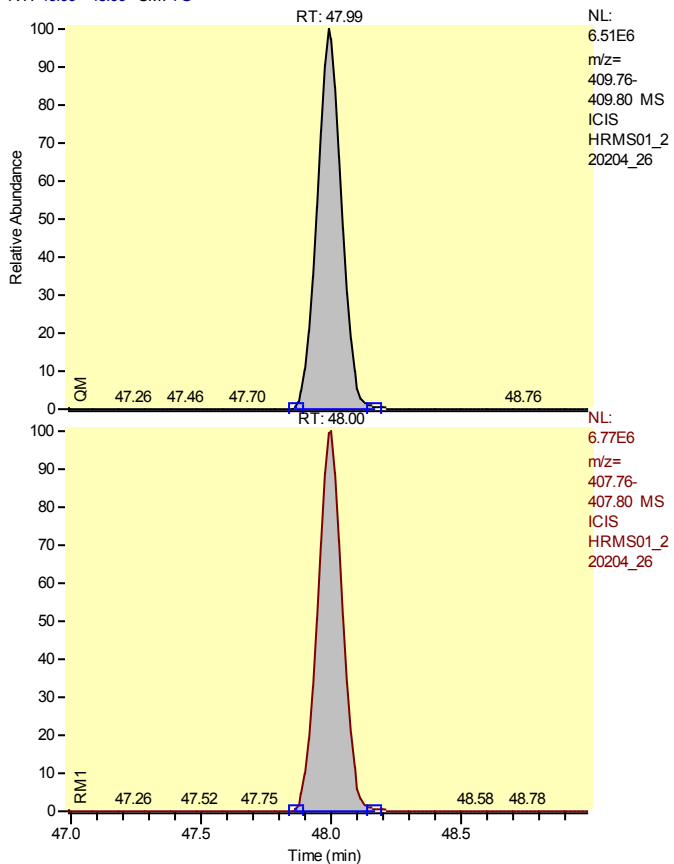
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G

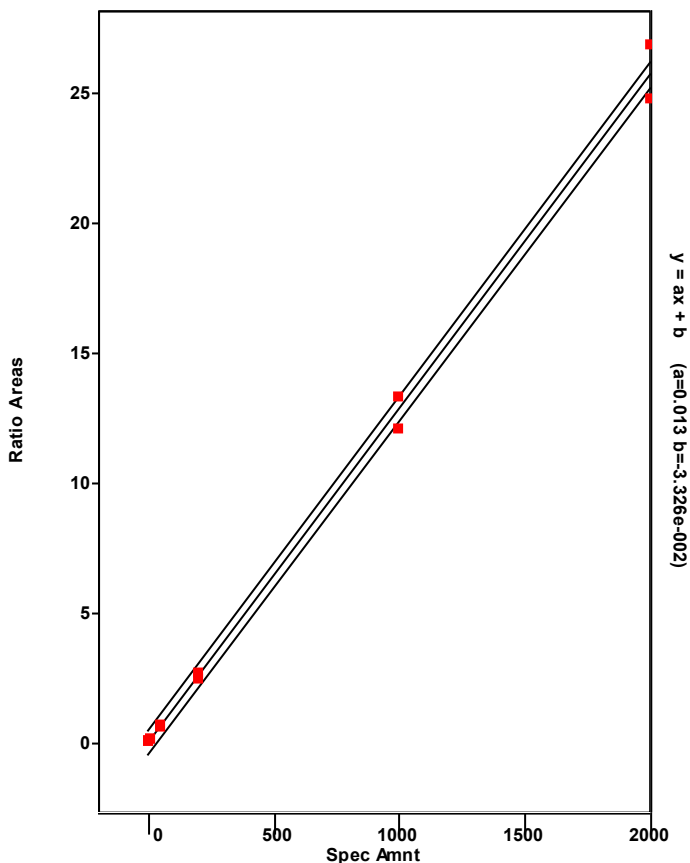


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	42433402
RM1 Area	44693471
RM1 Ratio (A)	1.0533
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

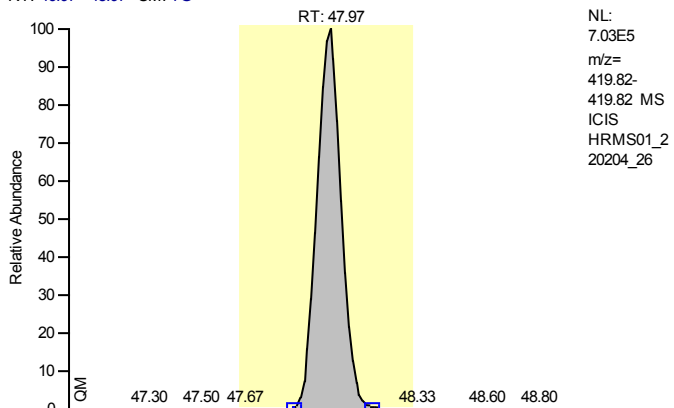
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



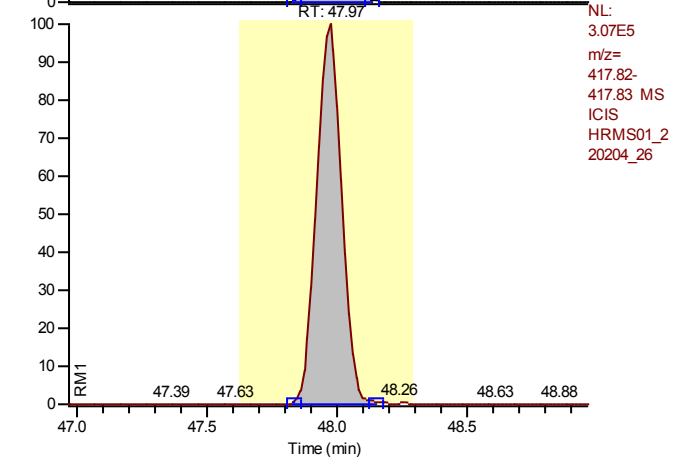
Chromatogram

Entry Parameters

RT: 46.97 - 48.97 SM: 7G

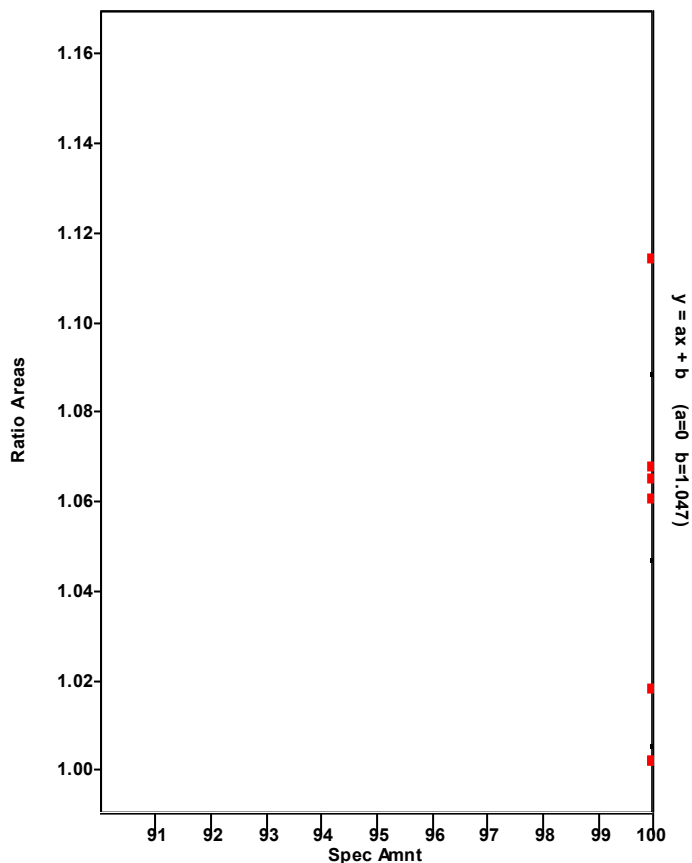


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	4602505
RM1 Area	2073972
RM1 Ratio (A)	0.4506
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

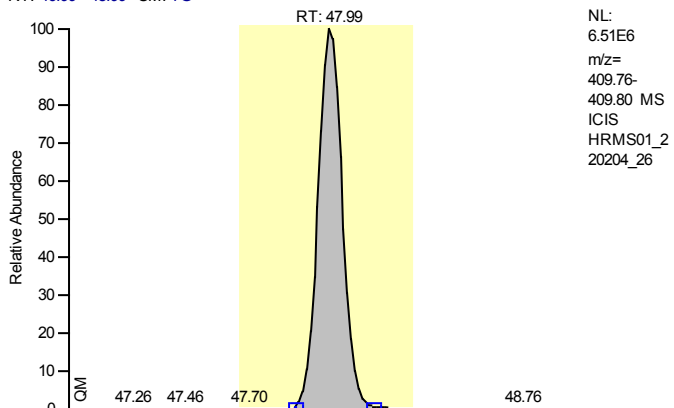
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



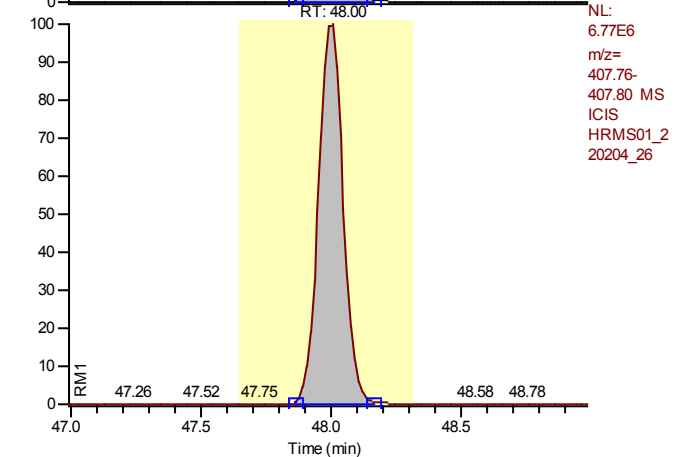
Chromatogram

Entry Parameters

RT: 46.99 - 48.99 SM: 7G



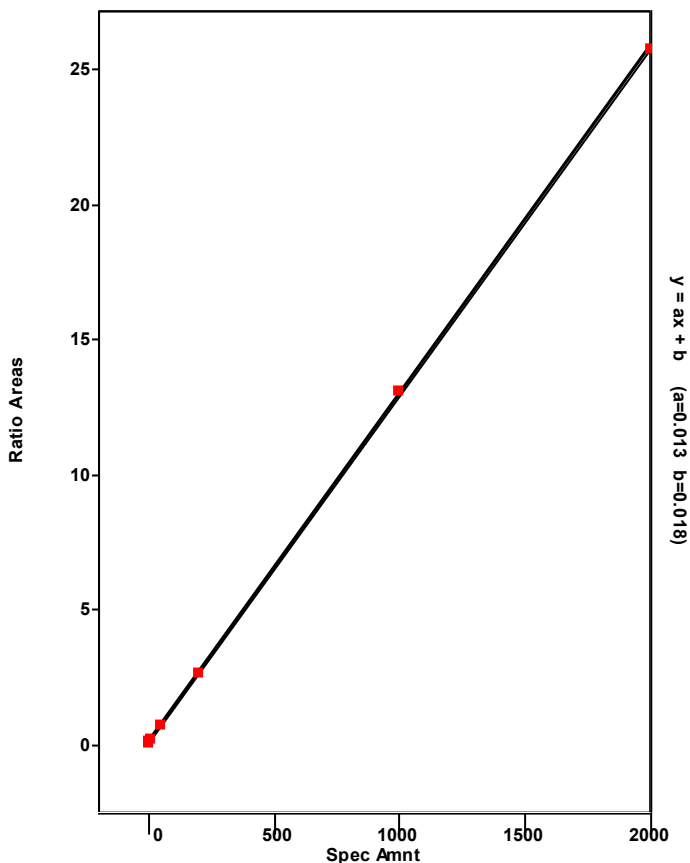
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	42433402
RM1 Area	44693471
RM1 Ratio (A)	1.0533
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

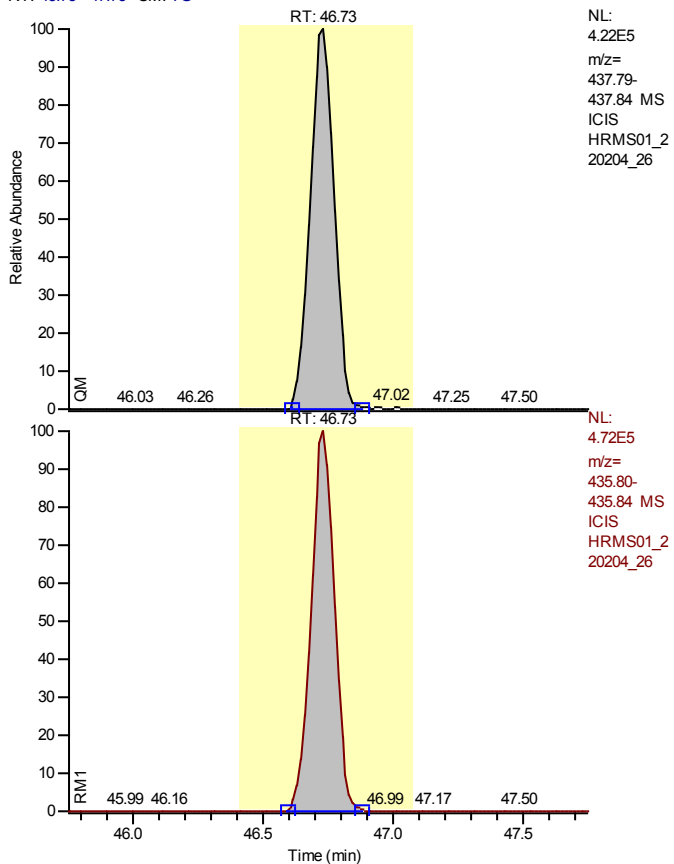
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.75 - 47.75 SM: 7G



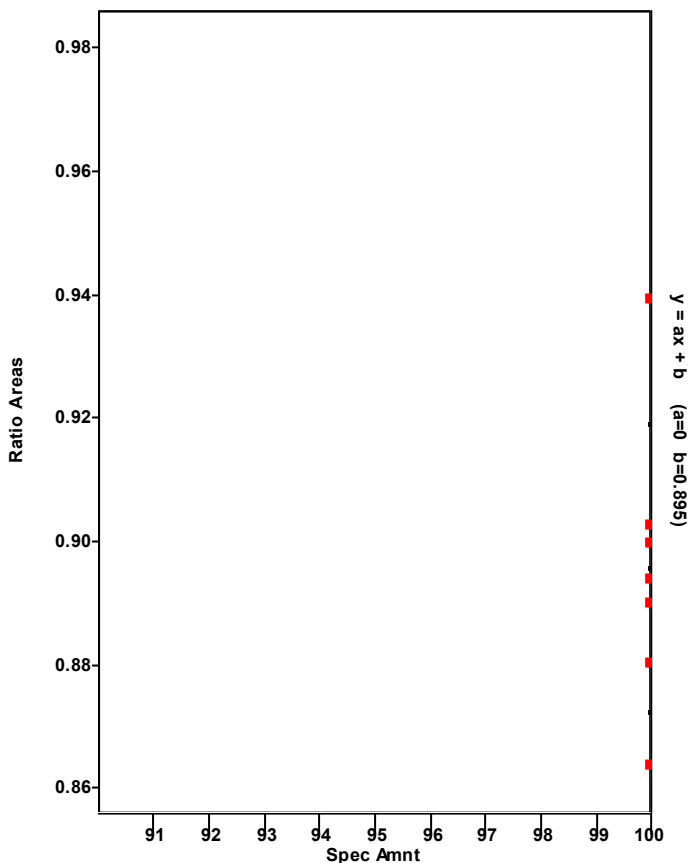
NL:
4.22E5
m/z=
437.79-
437.84 MS
ICIS
HRMS01_2
20204_26

NL:
4.72E5
m/z=
435.80-
435.84 MS
ICIS
HRMS01_2
20204_26

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2712107
RM1 Area	2947533
RM1 Ratio (A)	1.0868
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

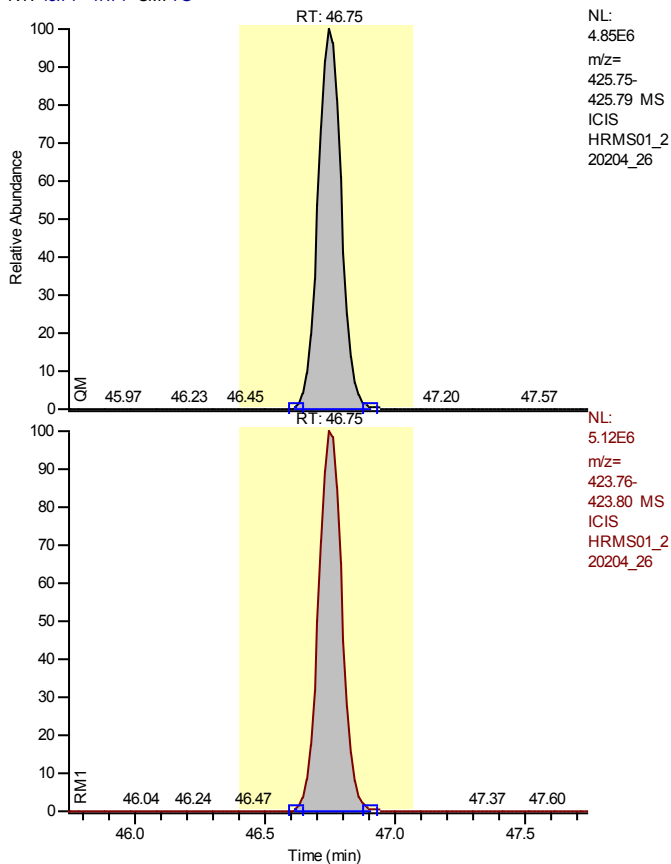
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.74 - 47.74 SM: 7G

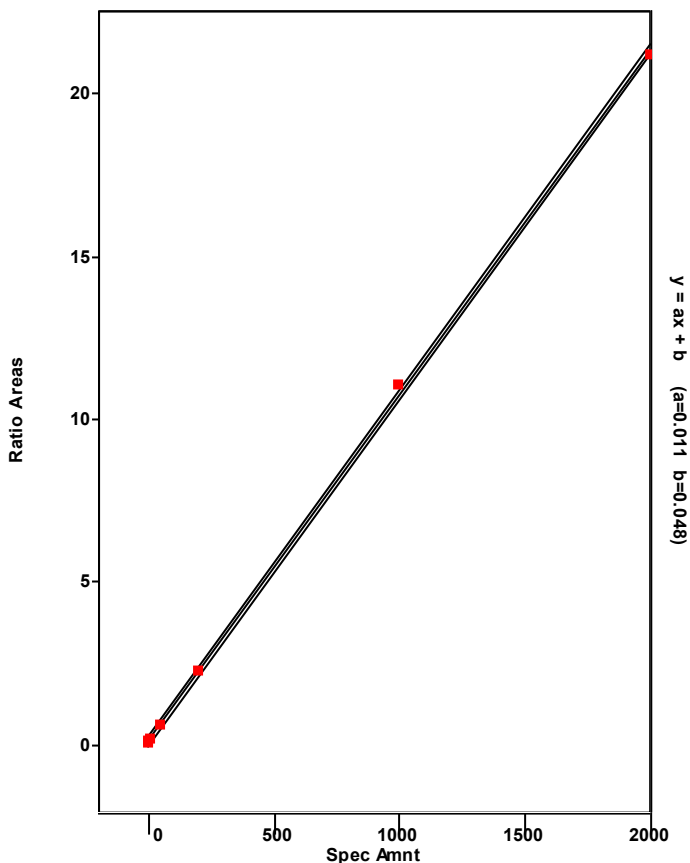


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	30159627
RM1 Area	31976801
RM1 Ratio (A)	1.0603
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

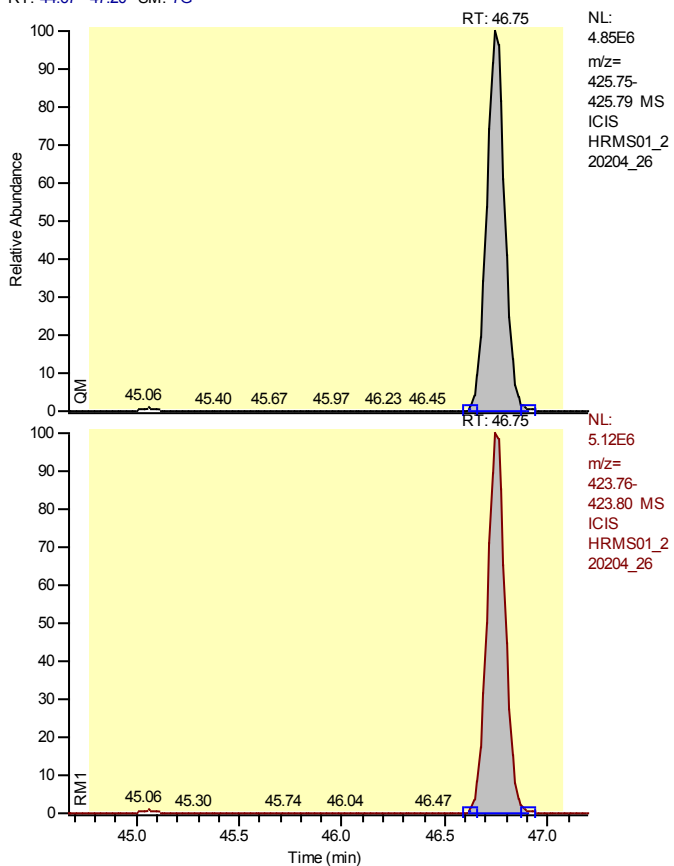
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.67 - 47.20 SM: 7G

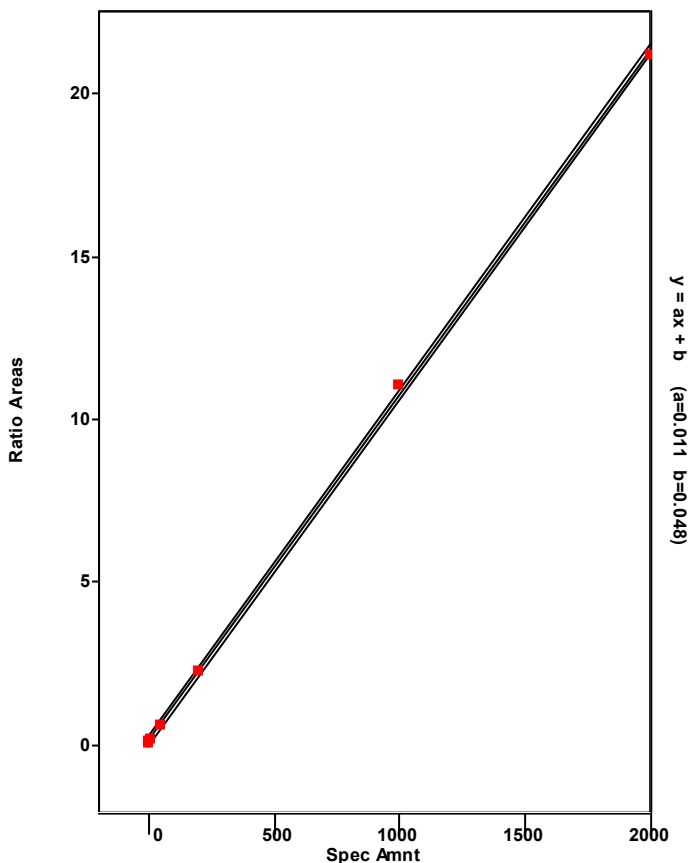


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	30159627
RM1 Area	31976801
RM1 Ratio (A)	1.0603
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

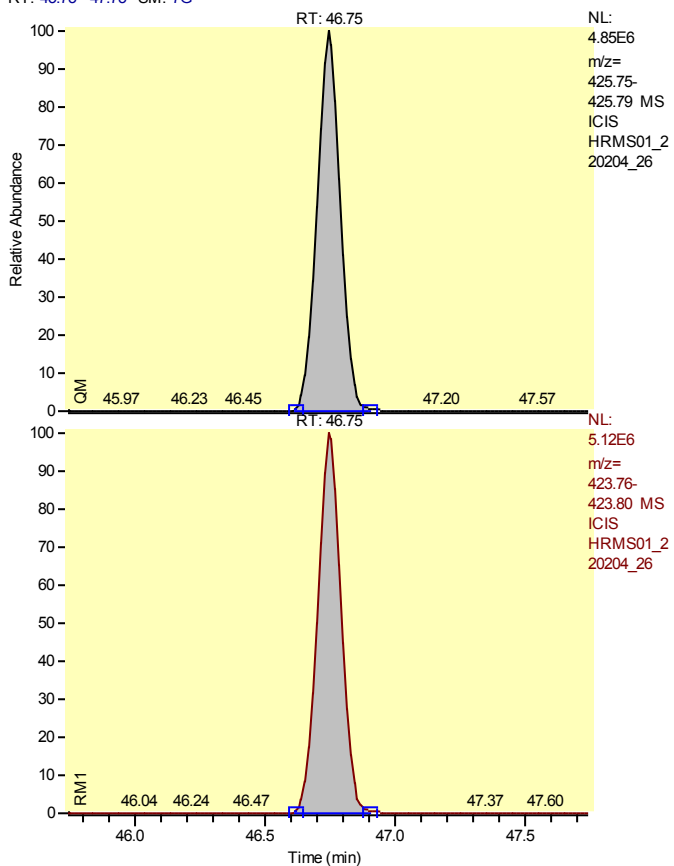
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.75 - 47.75 SM: 7G

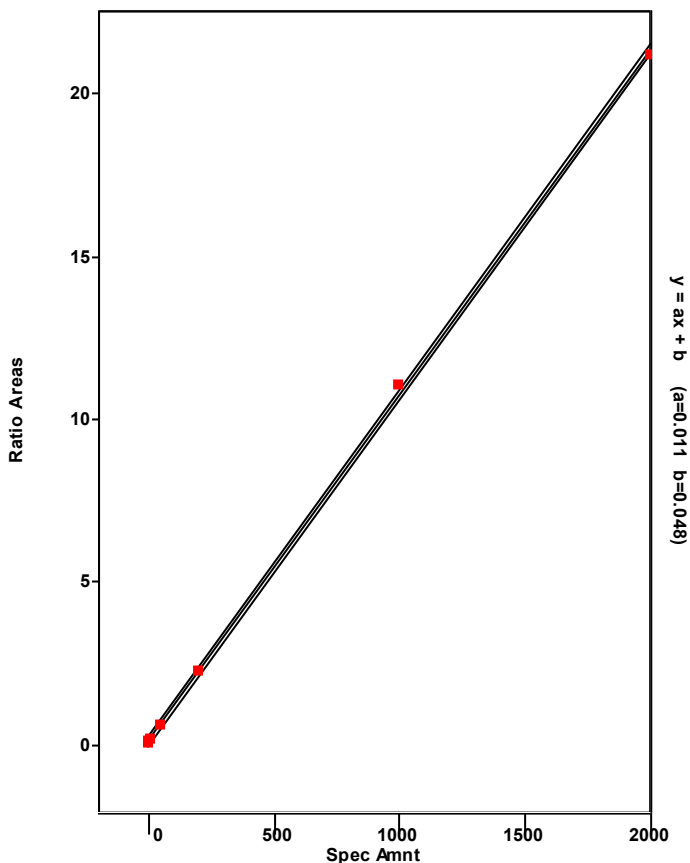


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	30159627
RM1 Area	31976801
RM1 Ratio (A)	1.0603
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

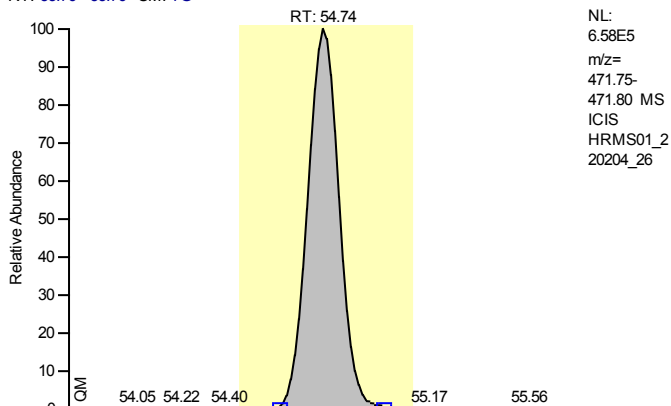
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



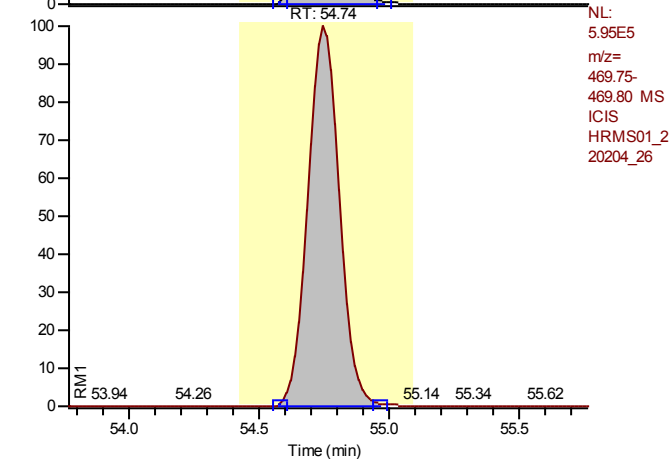
Chromatogram

Entry Parameters

RT: 53.76 - 55.76 SM: 7G



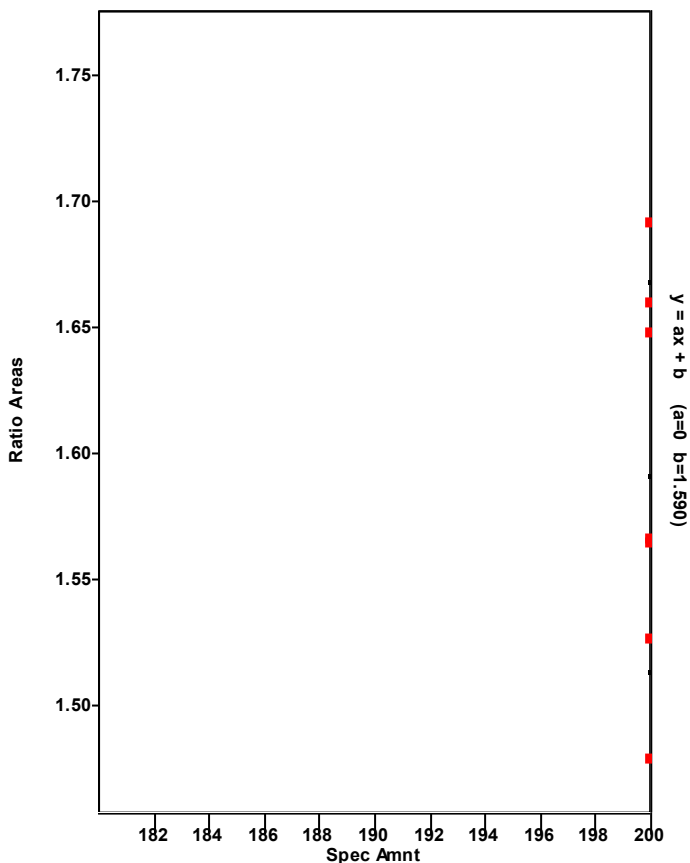
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	5567533
RM1 Area	5038030
RM1 Ratio (A)	0.9049
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

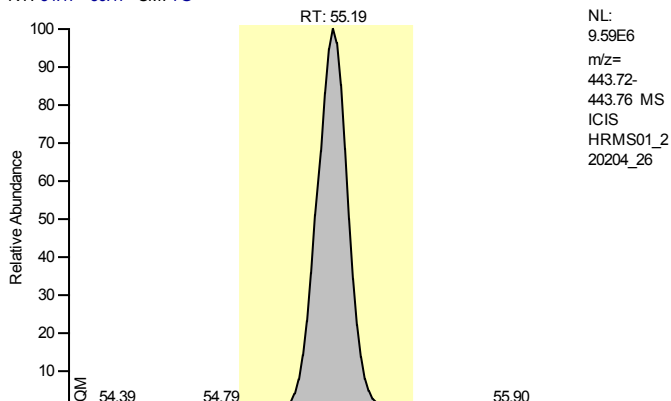
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



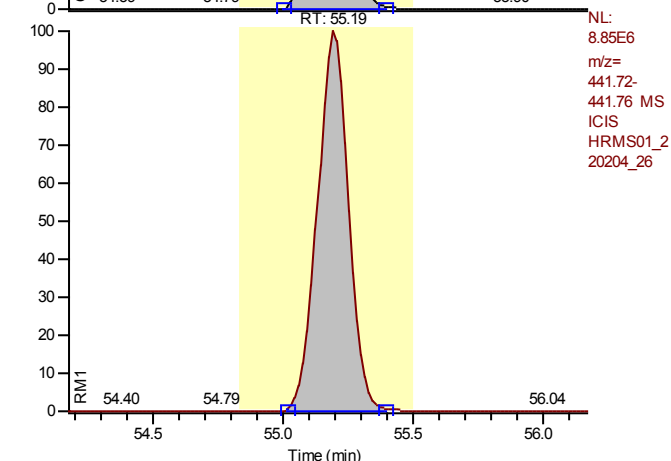
Chromatogram

Entry Parameters

RT: 54.17 - 56.17 SM: 7G



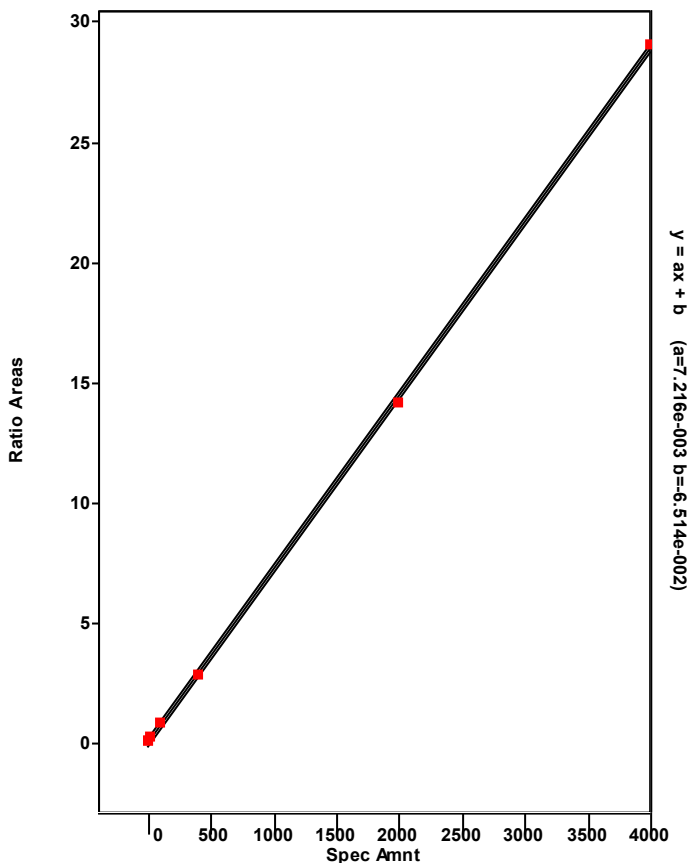
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	77656377
RM1 Area	71430923
RM1 Ratio (A)	0.9198
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.6000
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

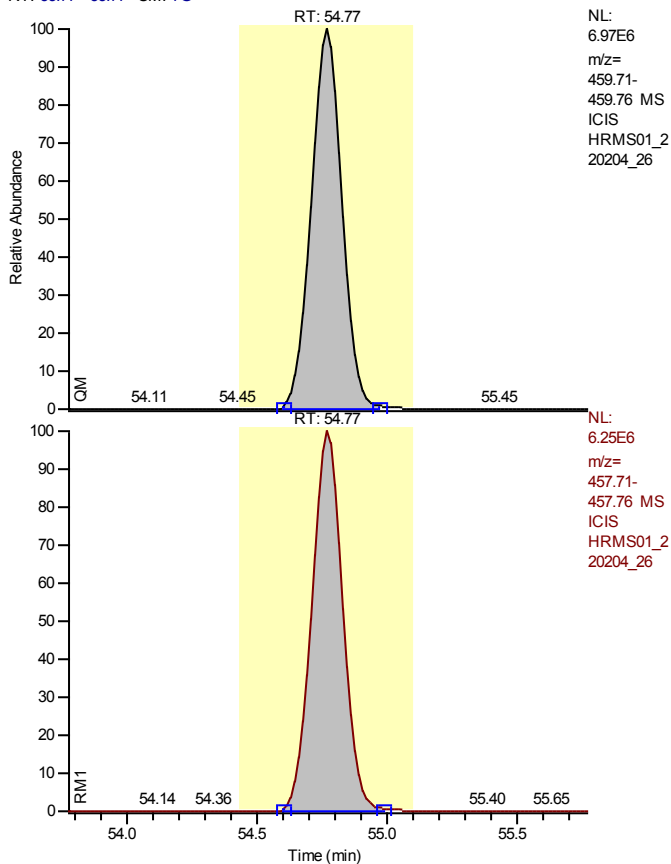
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.77 - 55.77 SM: 7G

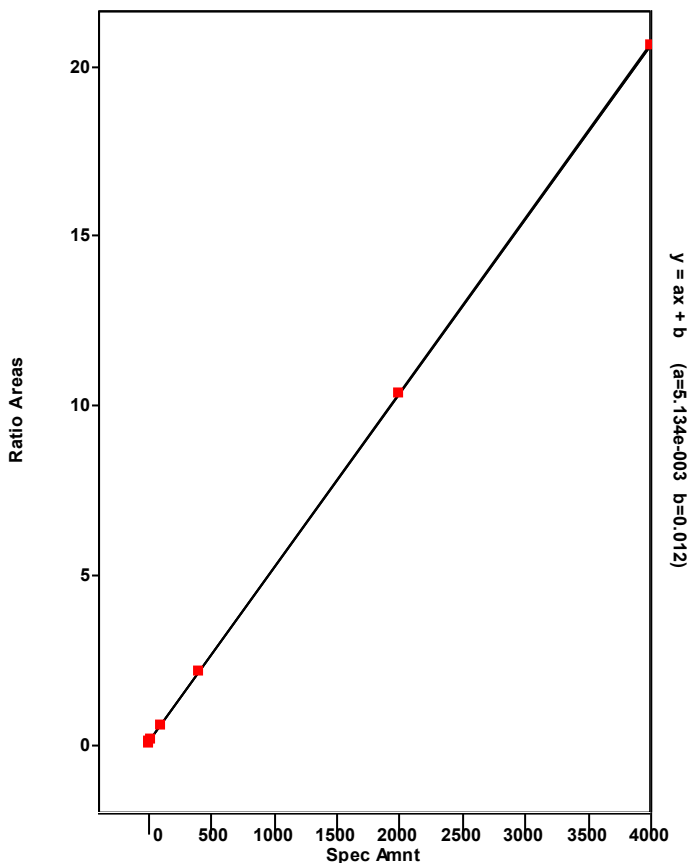


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	57372827
RM1 Area	51635431
RM1 Ratio (A)	0.9000
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.6000
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

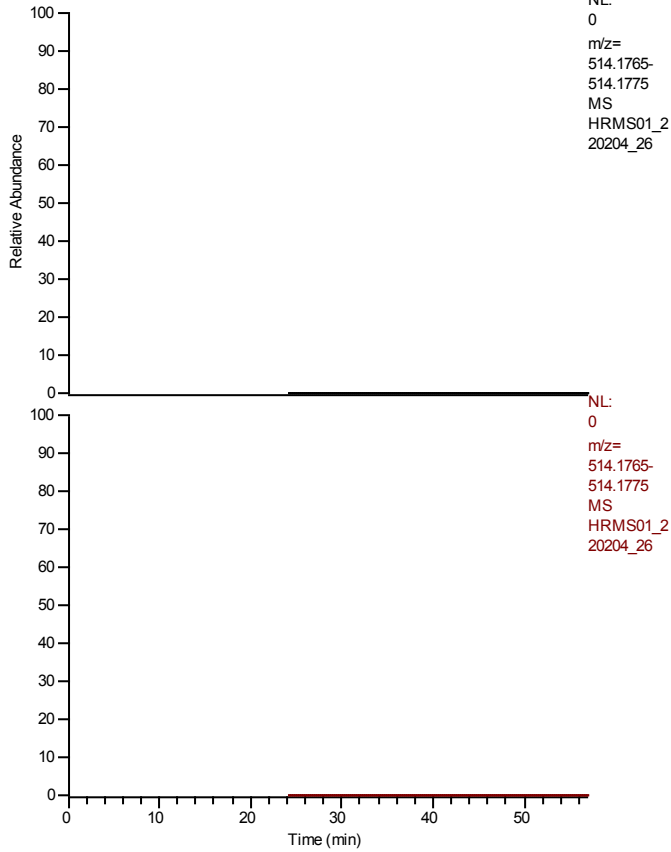
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

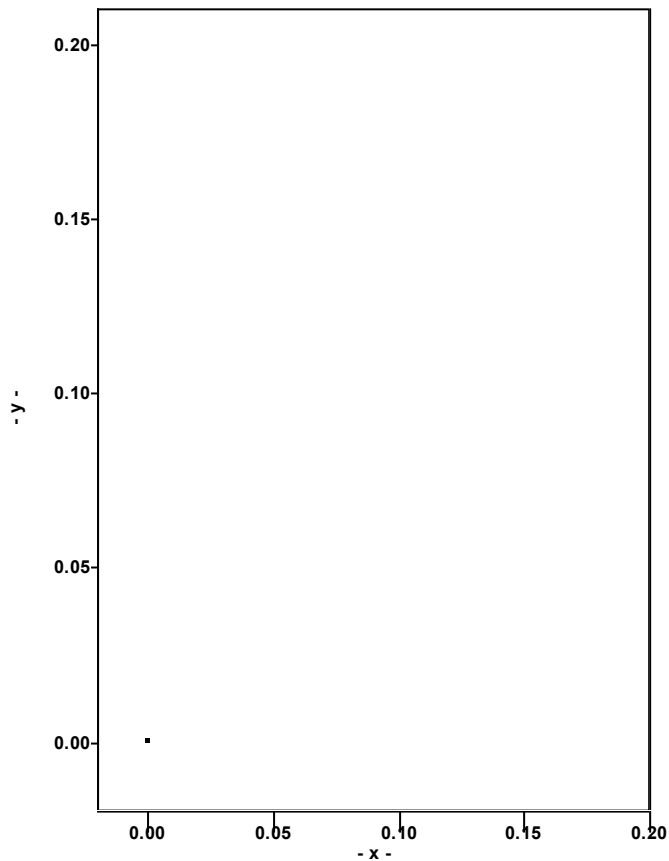
RT: 0.00 - 57.01 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	592945727
RM1 Area	695484631
RM1 Ratio (A)	1.1729
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	17400.00
Percent Recovery (A)	---
TEQ (A)	2281.2000
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 08:51
Number of Entries	59
Comment	HRMS200917A
Vial	10
Sample Name	IA1613STD-400
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_28_seq
Data	hrms01_220204_28
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

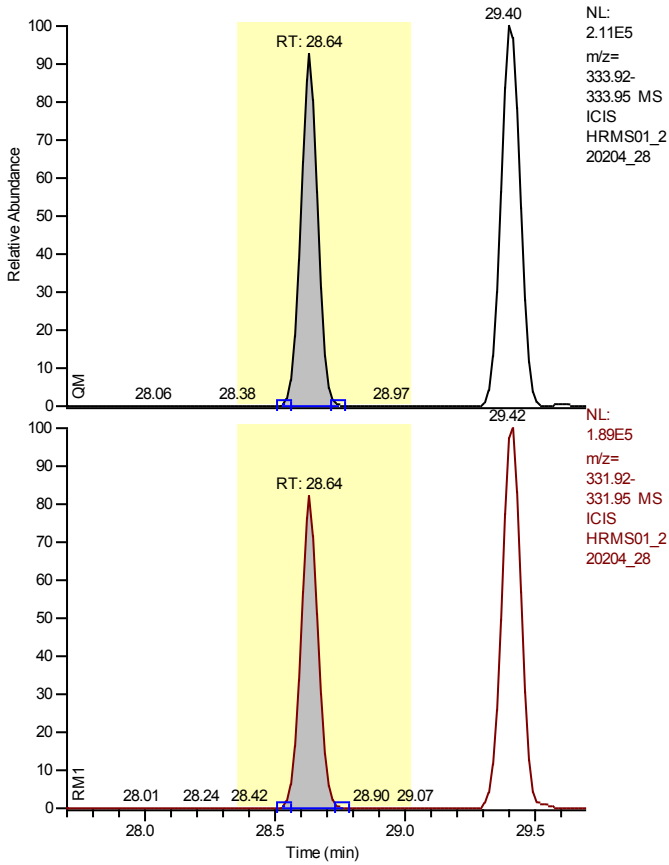
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		967124	782634	0.8092	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1637240	1280394	0.7820	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	6504820	5161740	0.7935	0.6500 - 0.8900	400.00	400.00	100	40.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	6504820	5161740	0.7935	0.6500 - 0.8900	400.00	400.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	6504820	5161740	0.7935	0.6500 - 0.8900	400.00	400.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1089061	967894	0.8887	0.6500 - 0.8900	100.00	99.77	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	5002497	3981712	0.7959	0.6500 - 0.8900	400.00	400.94	100	400.9405
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	5002497	3981712	0.7959	0.6500 - 0.8900	400.00	400.94	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	5002497	3981712	0.7959	0.6500 - 0.8900	400.00	400.94	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		862312	1379190	1.5994	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	17573242	27906926	1.5880	1.3200 - 1.7800	2000.00	2000.00	100	60.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	35792626	56822050	1.5875	1.3200 - 1.7800	2000.00	4000.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	18219384	28915125	1.5871	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	17573242	27906926	1.5880	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		908066	1467909	1.6165	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	18219384	28915125	1.5871	1.3200 - 1.7800	2000.00	2000.00	100	600.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		637689	965761	1.5145	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	11846869	18470199	1.5591	1.3200 - 1.7800	2000.00	2000.00	100	2000.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	11846869	18470199	1.5591	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	11846869	18470199	1.5591	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		0	0	---	0.8500 - 1.1500	1.00	n.d.	0	n.d.
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		872726	1098500	1.2587	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1365897	777352	0.5691	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	23436462	30086721	1.2838	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	97259134	122143356	1.2559	1.0500 - 1.4300	2000.00	8000.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	24924145	31123196	1.2487	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	23436462	30086721	1.2838	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	24323227	30142135	1.2392	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	24575301	30791304	1.2529	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1593787	857651	0.5381	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	24323227	30142135	1.2392	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1550109	845185	0.5452	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	24924145	31123196	1.2487	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1576930	855605	0.5426	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	24575301	30791304	1.2529	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		709825	935567	1.3180	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	15713205	20524781	1.3062	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	48694004	61760838	1.2683	1.0500 - 1.4300	2000.00	6000.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	17228843	21890313	1.2706	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	15713205	20524781	1.3062	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	15751956	19345744	1.2281	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		709825	935567	1.3180	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	15713205	20524781	1.3062	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	17228843	21890313	1.2706	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1378882	674650	0.4893	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	26892774	28093897	1.0447	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	51649856	54041427	1.0463	0.8800 - 1.2000	2000.00	4000.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	26892774	28093897	1.0447	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	24757082	25947530	1.0481	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1344554	630054	0.4686	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	24757082	25947530	1.0481	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		817091	884673	1.0827	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	17535286	18440122	1.0516	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	17535286	18440122	1.0516	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	17535286	18440122	1.0516	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1509706	1402941	0.9293	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	43941123	40412717	0.9197	0.7600 - 1.0200	4000.00	4000.00	100	1.2000
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	31525028	28319782	0.8983	0.7600 - 1.0200	4000.00	4000.00	100	1.2000
59	overall TEQ	overall TEQ test		349712492	410732981	1.1745	0.0000 - 0.0000	0.00	34800.94	---	4563.3405

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

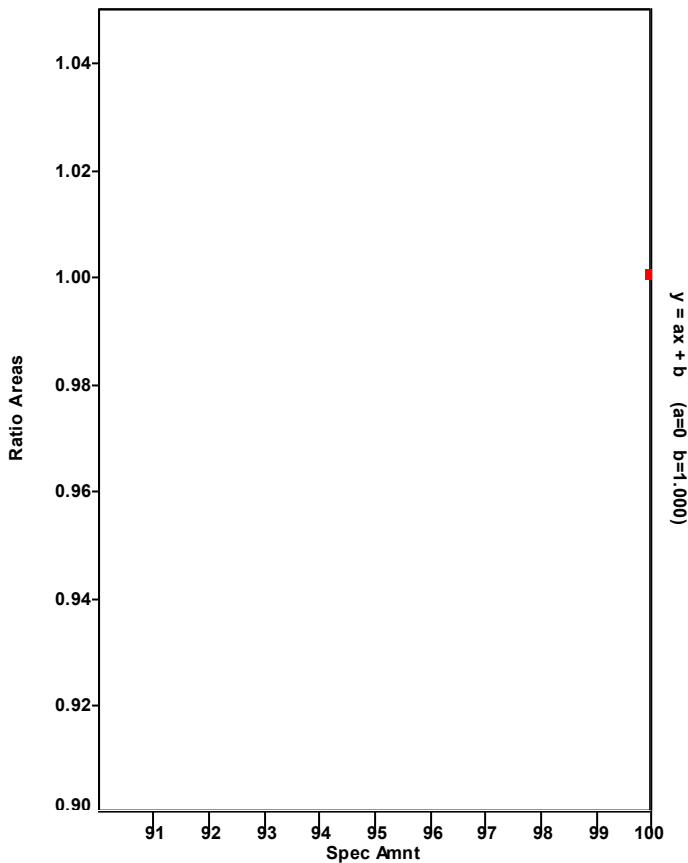


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	967124
RM1 Area	782634
RM1 Ratio (A)	0.8092
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

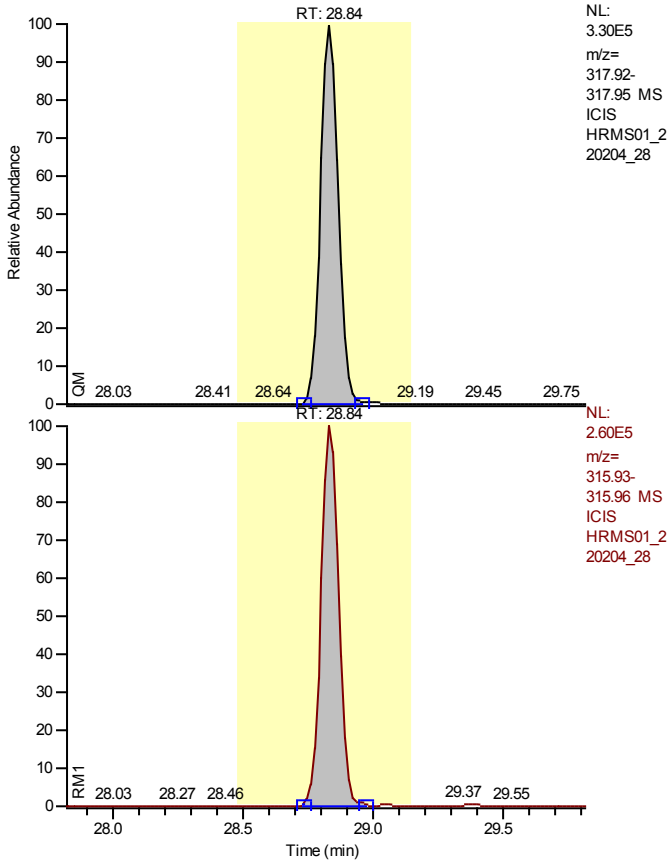
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.82- 29.82 SM: 7G



NL:
 3.30E5
 m/z=
 317.92-
 317.95 MS
 ICIS
 HRMS01_2
 20204_28

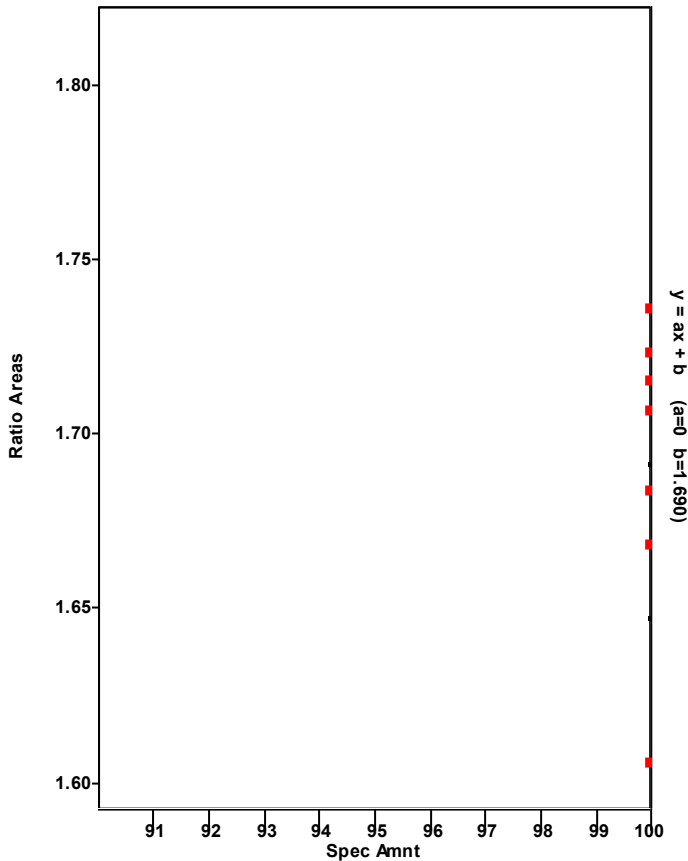
NL:
 2.60E5
 m/z=
 315.93-
 315.96 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1637240
RM1 Area	1280394
RM1 Ratio (A)	0.7820
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

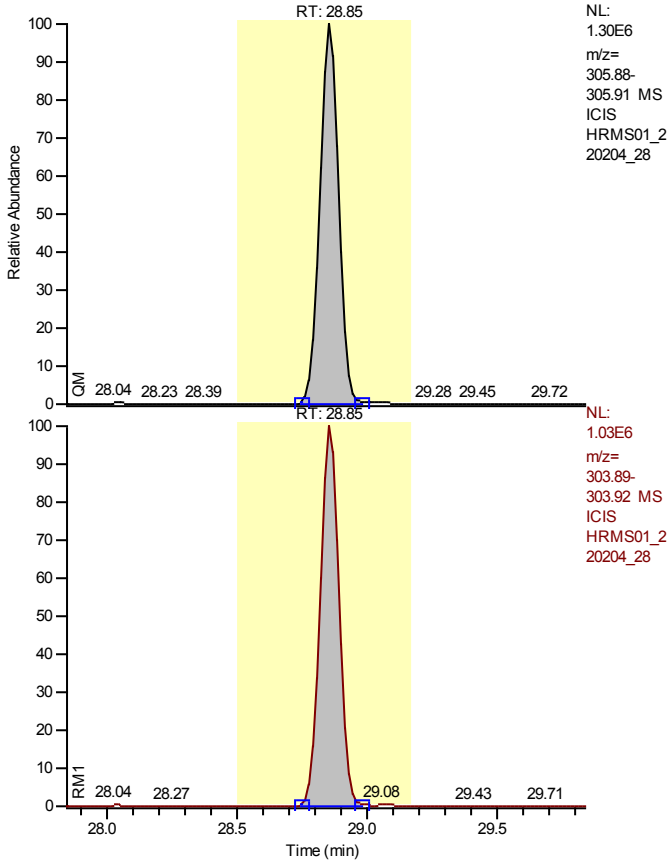
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G

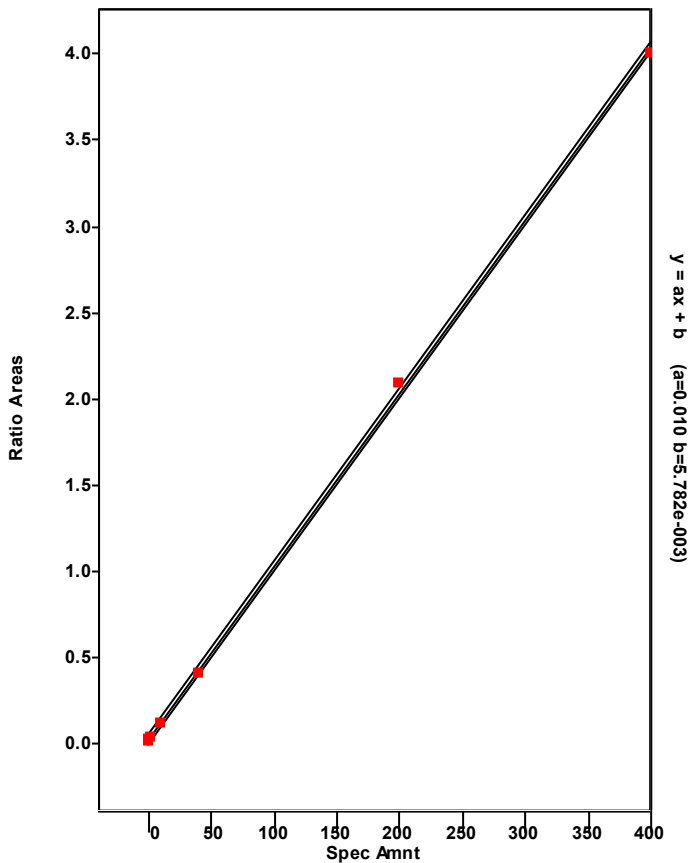


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	6504820
RM1 Area	5161740
RM1 Ratio (A)	0.7935
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	40.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

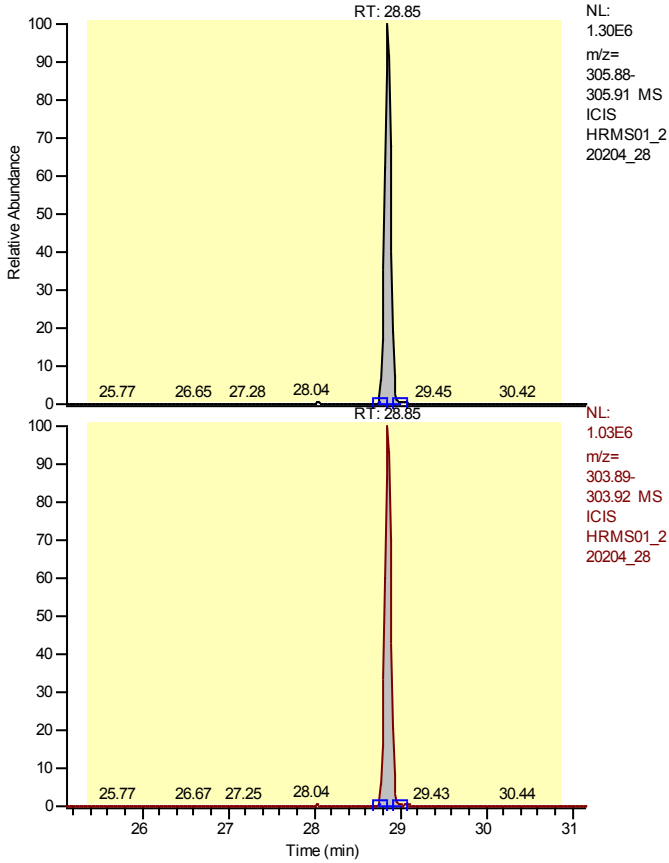
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.11 - 31.16 SM: 7G

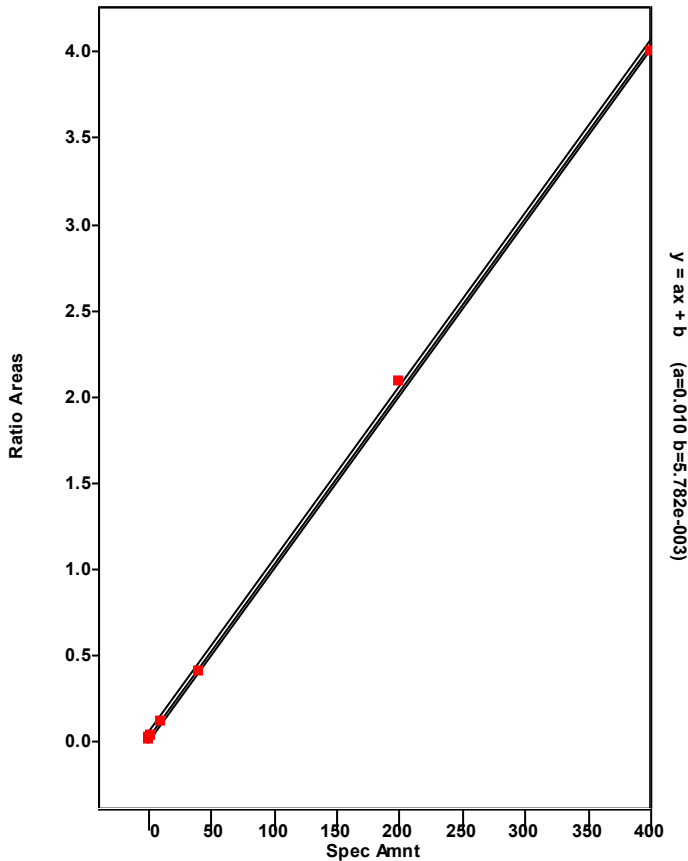


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	6504820
RM1 Area	5161740
RM1 Ratio (A)	0.7935
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

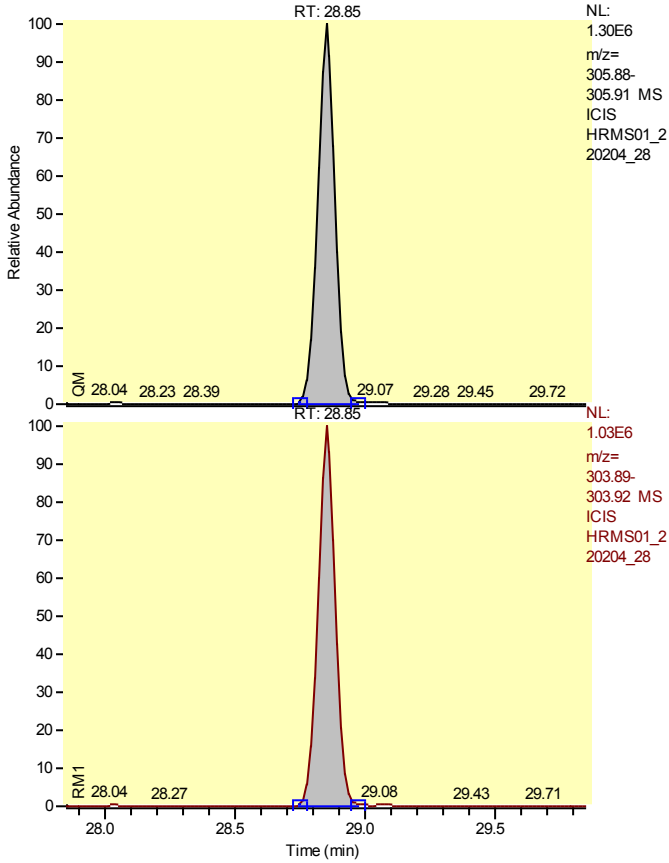
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.85 - 29.85 SM: 7G

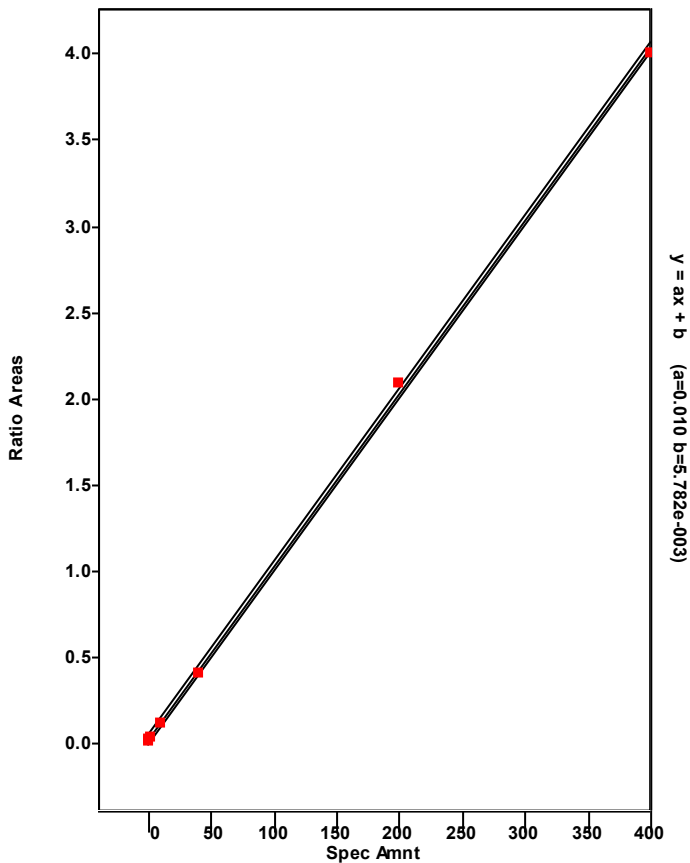


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	6504820
RM1 Area	5161740
RM1 Ratio (A)	0.7935
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

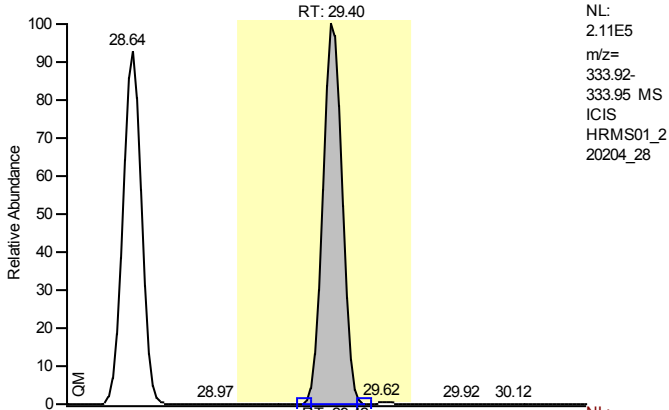
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

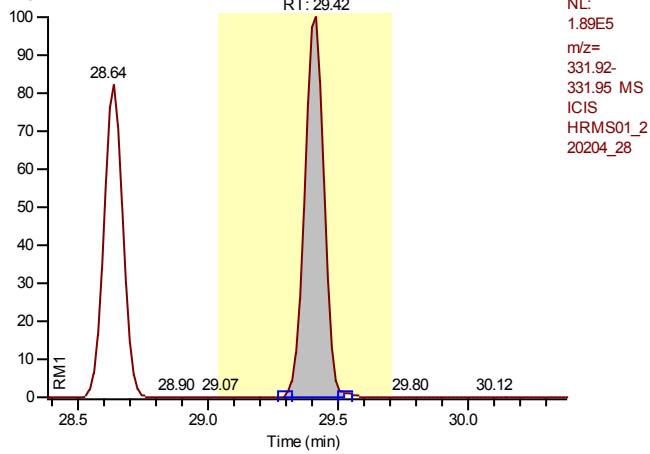
Entry Parameters

RT: 28.38 - 30.38 SM: 7G



NL:
 2.11E5
 m/z=
 333.92-
 333.95 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1089061
RM1 Area	967894
RM1 Ratio (A)	0.8887
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	99.77
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

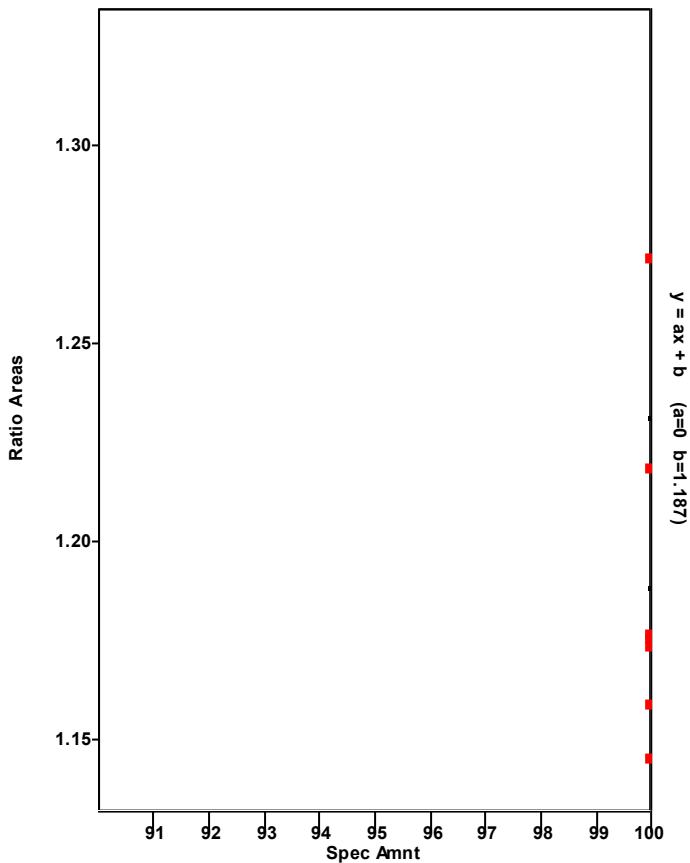


NL:
 1.89E5
 m/z=
 331.92-
 331.95 MS
 ICIS
 HRMS01_2
 20204_28

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

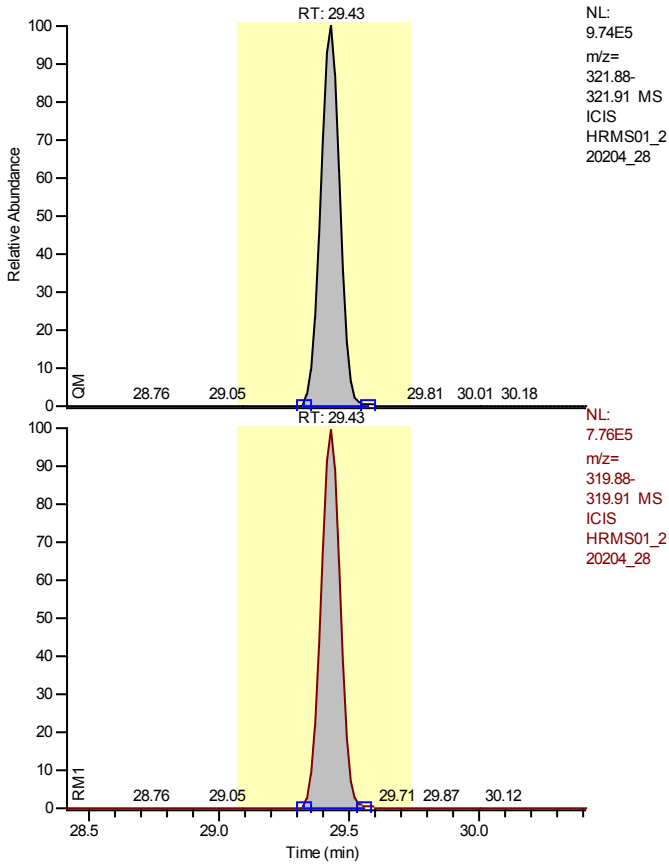
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

Entry Parameters

RT: 28.41 - 30.41 SM: 7G

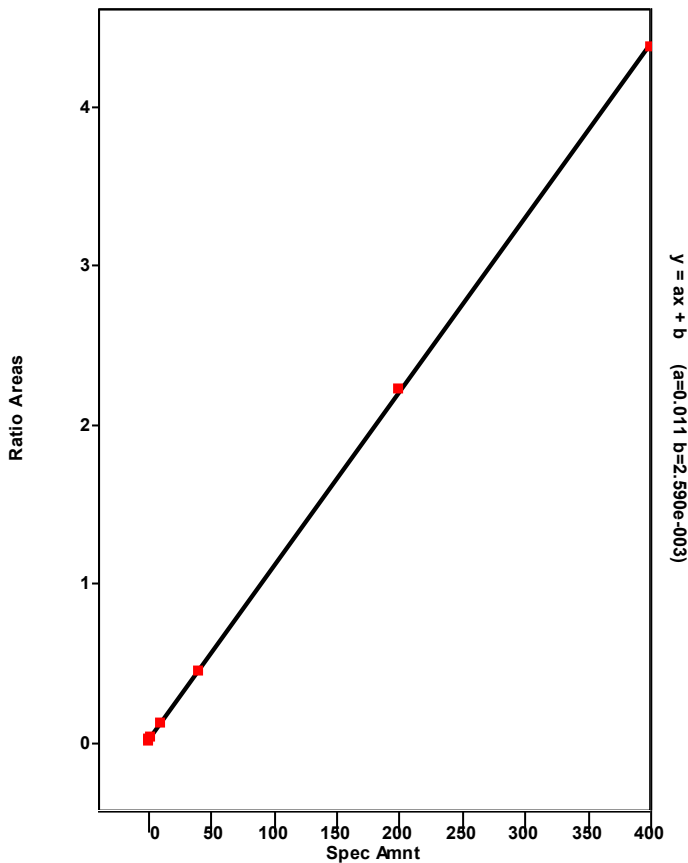


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	5002497
RM1 Area	3981712
RM1 Ratio (A)	0.7959
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.94
Percent Recovery (A)	100
TEQ (A)	400.9405
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

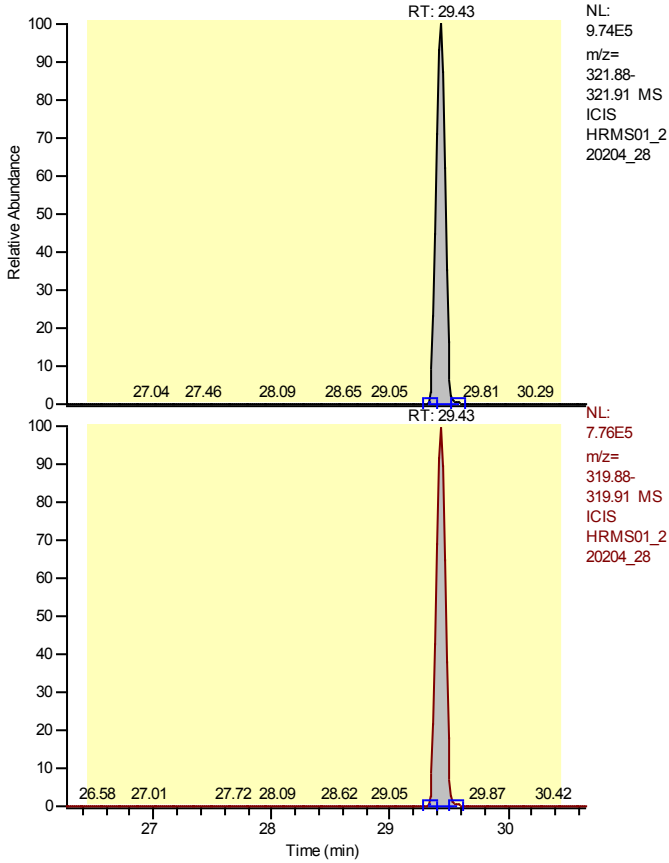
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.26 - 30.66 SM: 7G

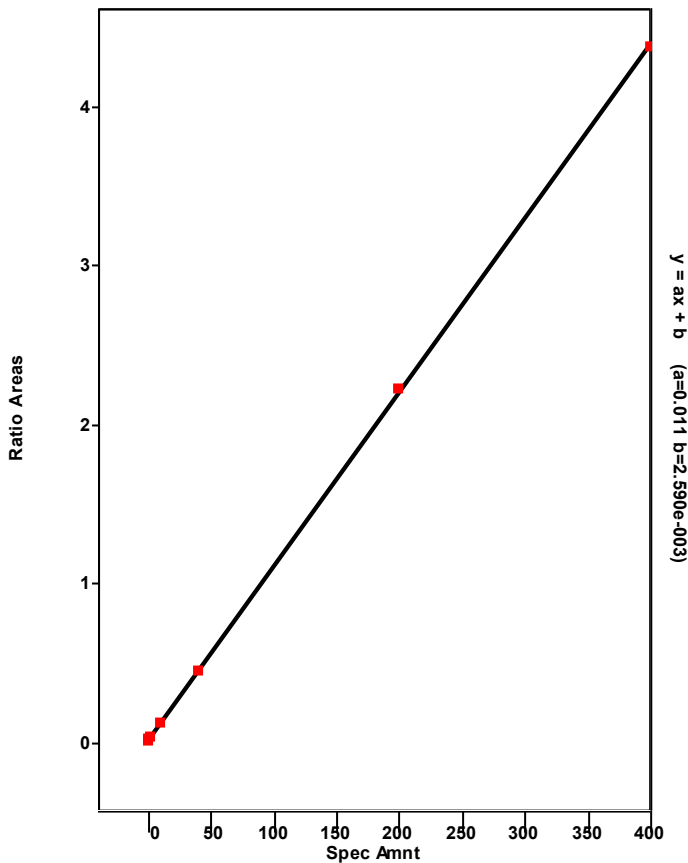


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	5002497
RM1 Area	3981712
RM1 Ratio (A)	0.7959
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.94
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

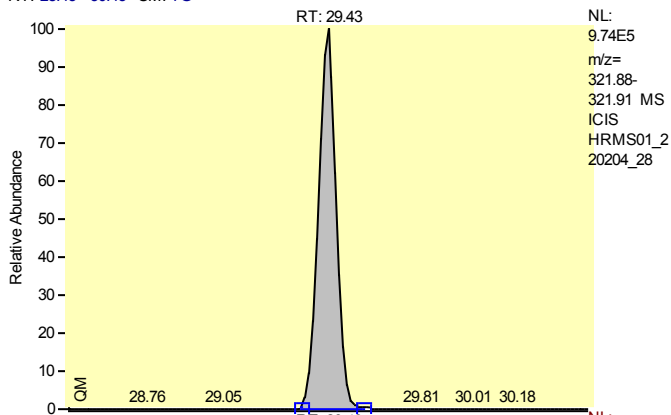
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



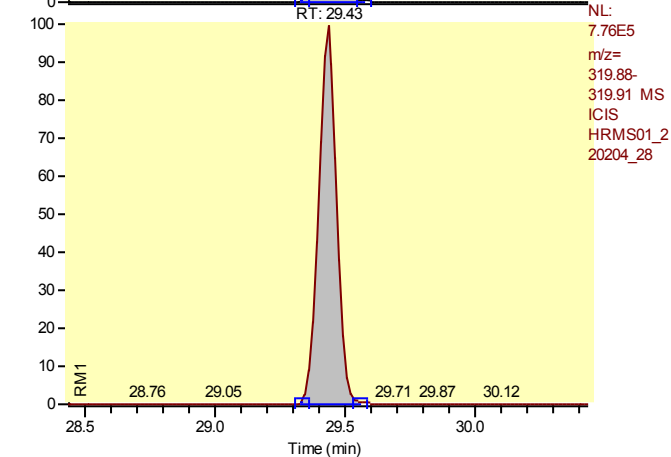
Chromatogram

Entry Parameters

RT: 28.43 - 30.43 SM: 7G



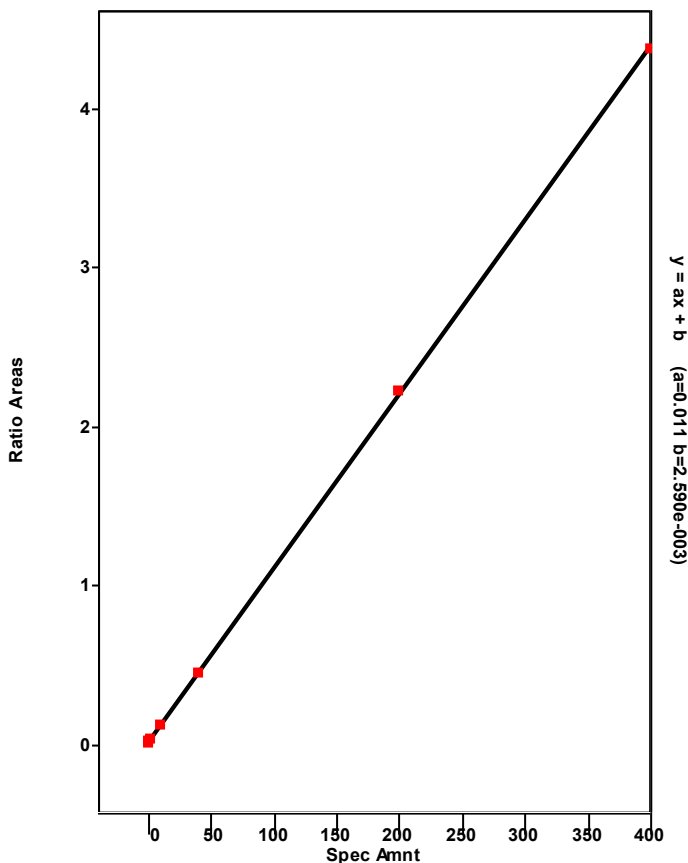
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	5002497
RM1 Area	3981712
RM1 Ratio (A)	0.7959
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.94
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

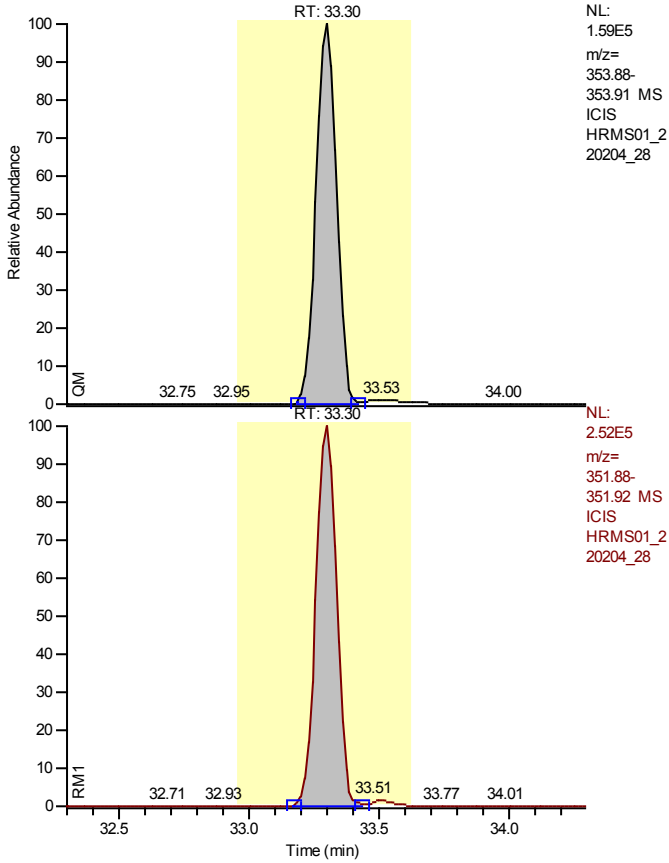
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



NL:
 1.59E5
 m/z=
 353.88-
 353.91 MS
 ICIS
 HRMS01_2
 20204_28

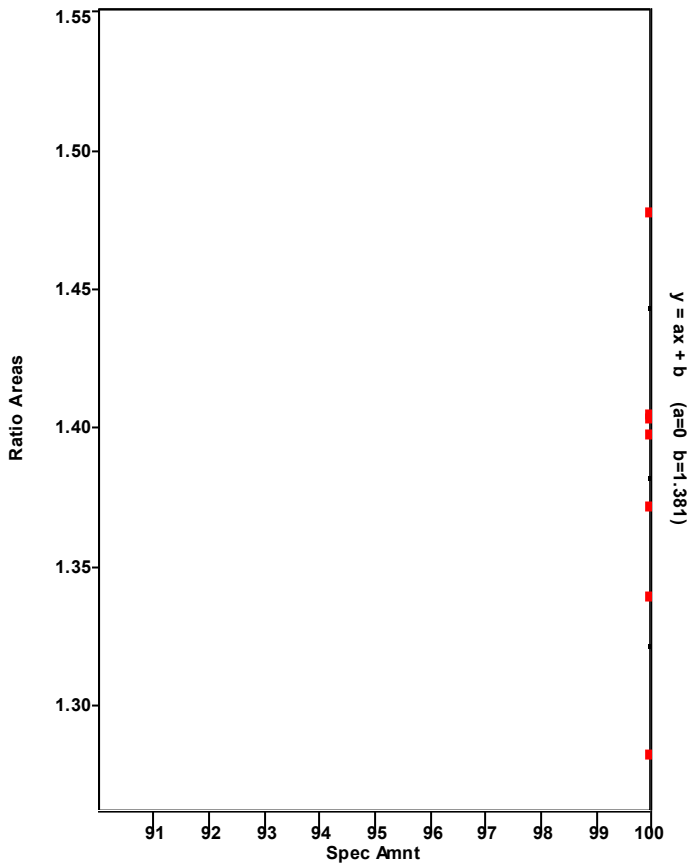
NL:
 2.52E5
 m/z=
 351.88-
 351.92 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	862312
RM1 Area	1379190
RM1 Ratio (A)	1.5994
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

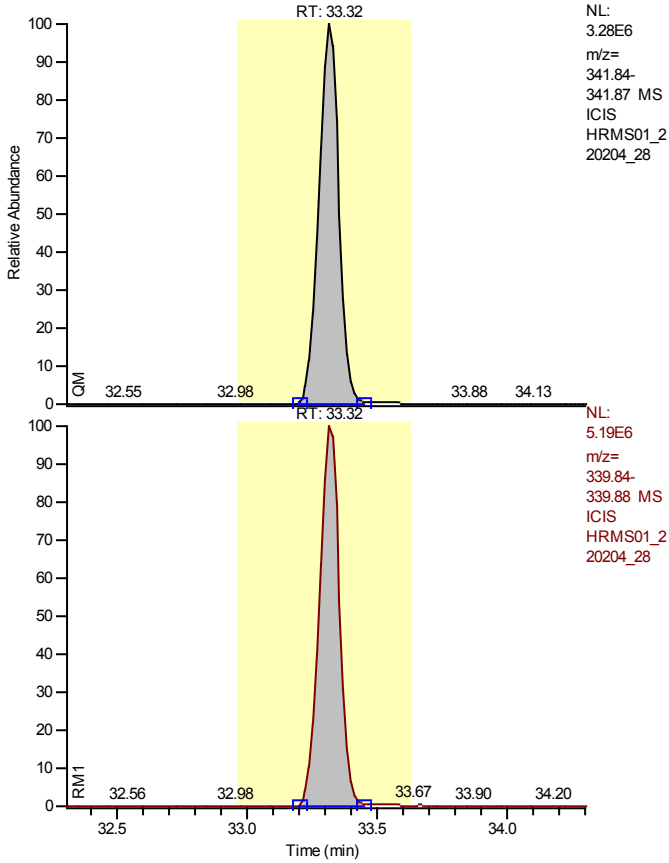
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G

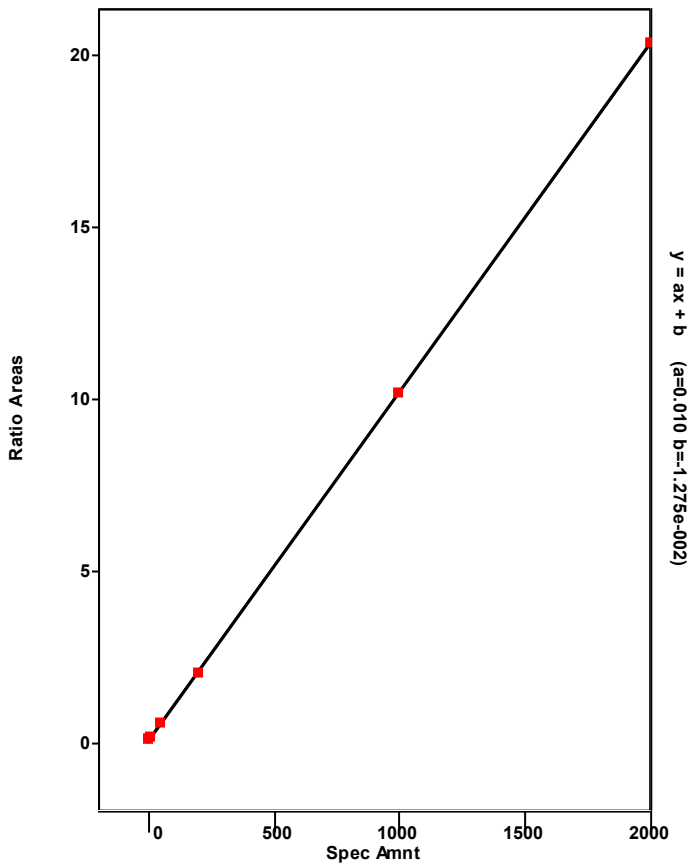


Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	17573242
RM1 Area	27906926
RM1 Ratio (A)	1.5880
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	60.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

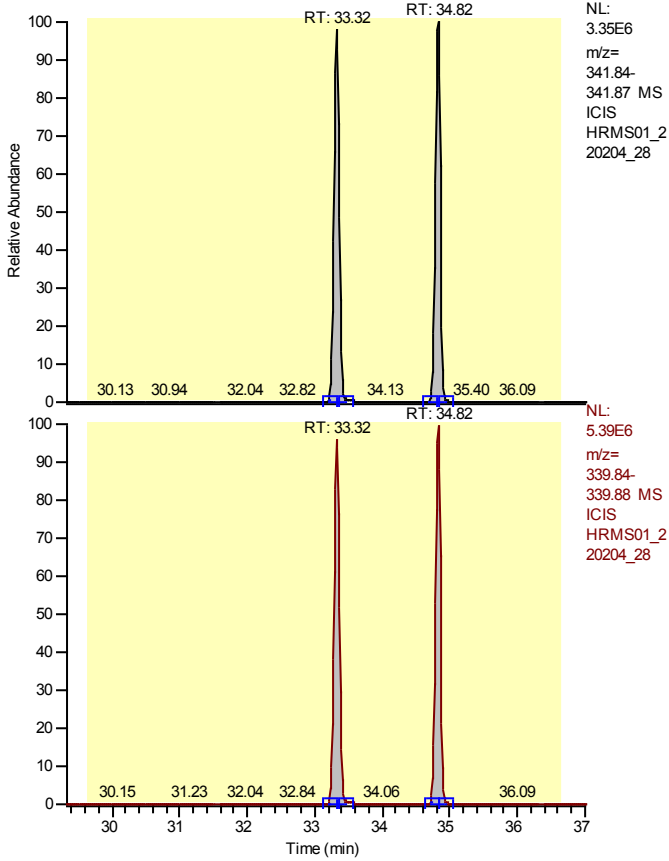
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.32 - 37.02 SM: 7G

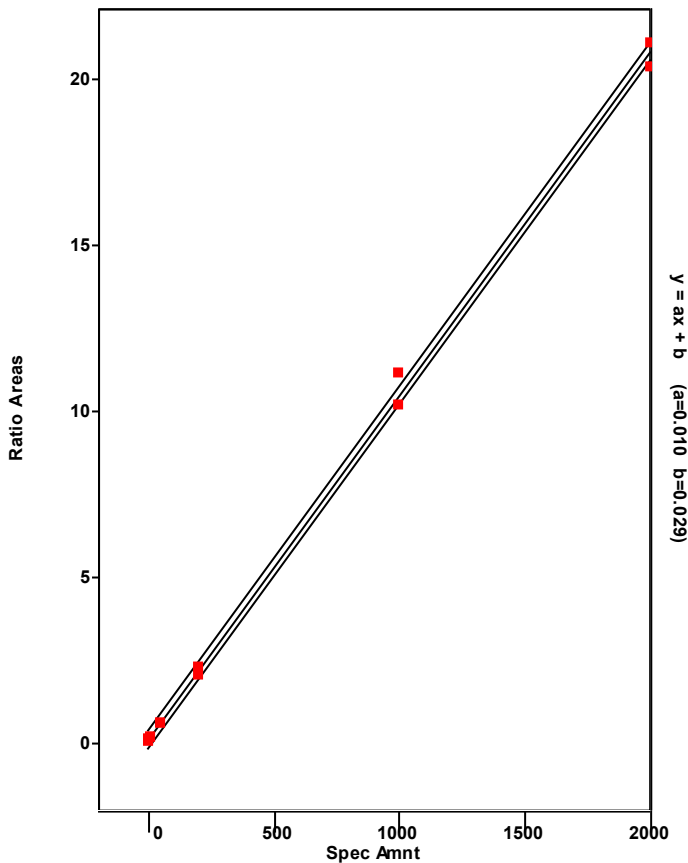


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	35792626
RM1 Area	56822050
RM1 Ratio (A)	1.5875
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

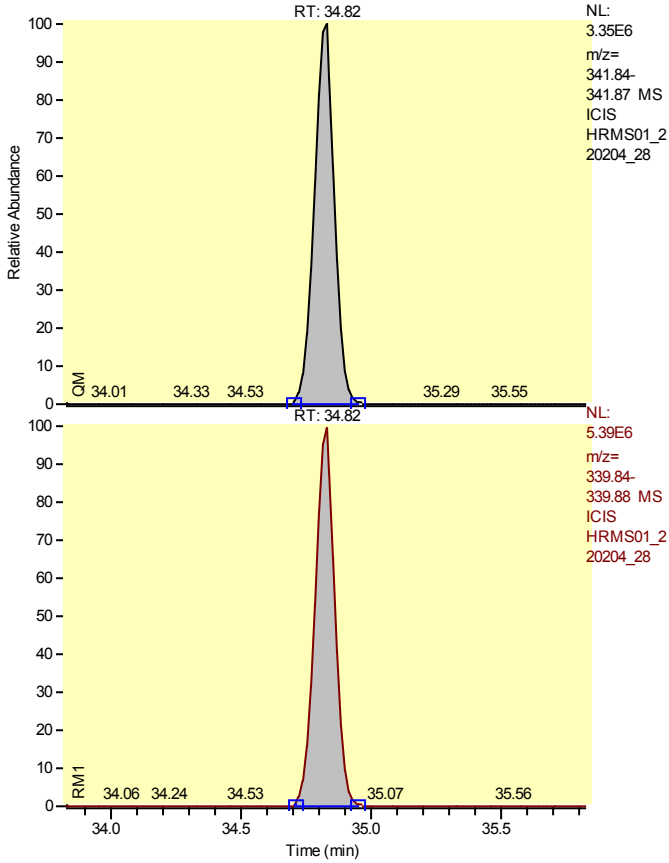
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.82 - 35.82 SM: 7G

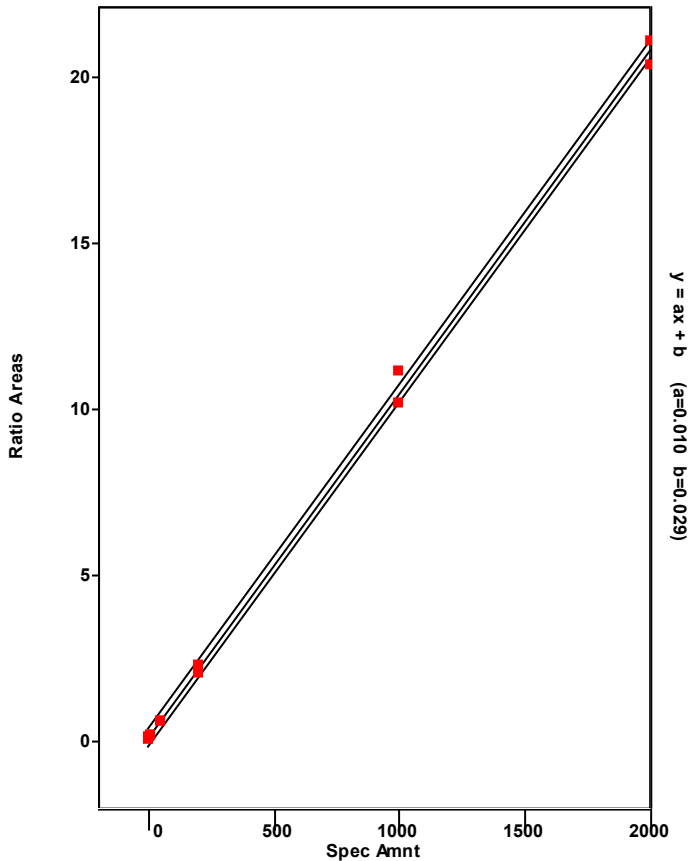


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	18219384
RM1 Area	28915125
RM1 Ratio (A)	1.5871
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

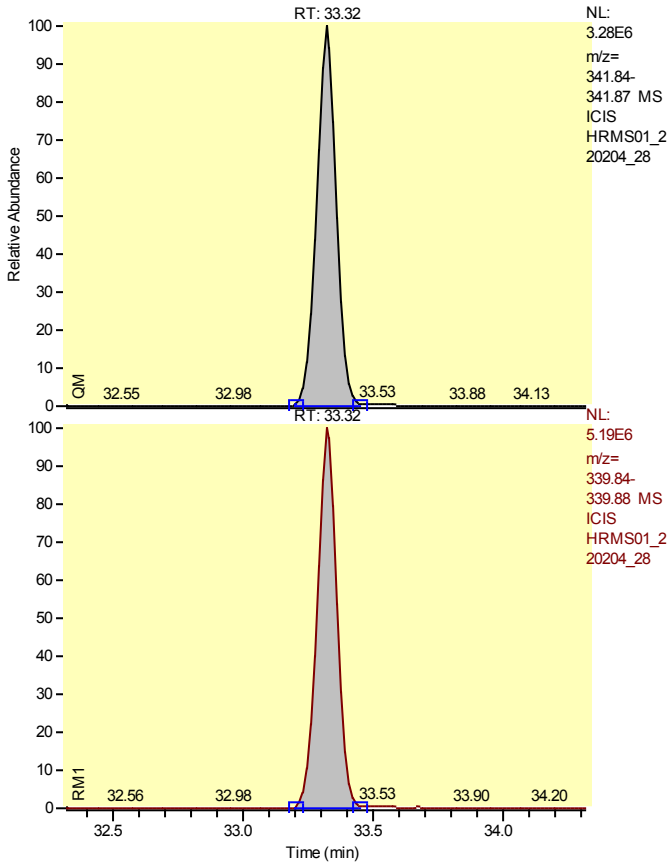
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.32- 34.32 SM: 7G

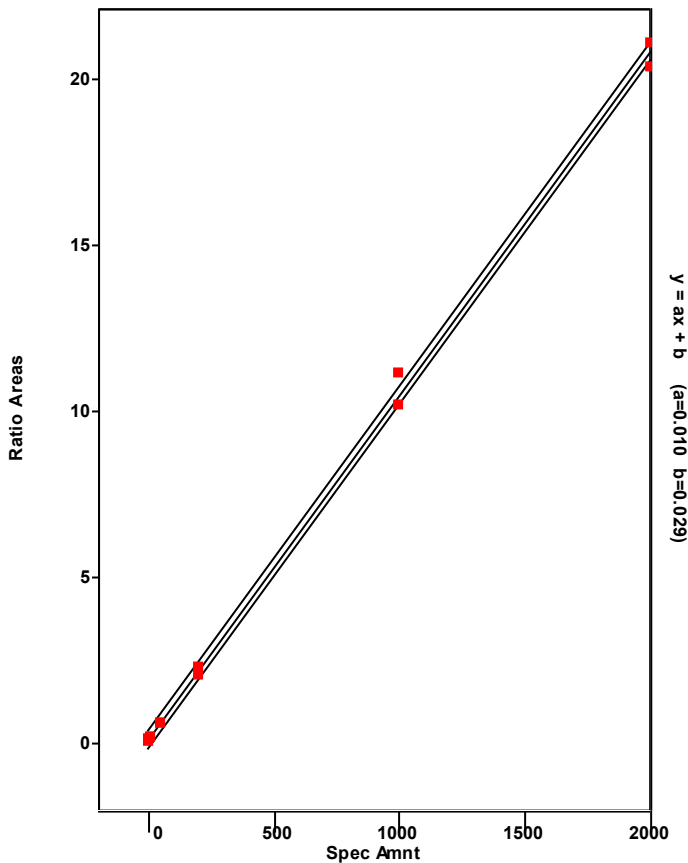


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	17573242
RM1 Area	27906926
RM1 Ratio (A)	1.5880
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

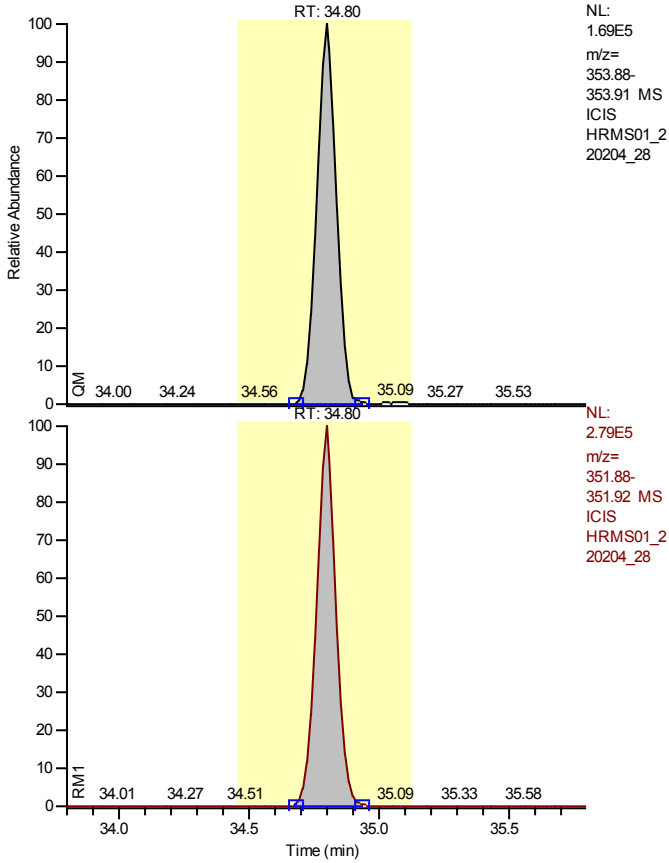
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.80 - 35.80 SM: 7G



NL:
 1.69E5
 m/z=
 353.88-
 353.91 MS
 ICIS
 HRMS01_2
 20204_28

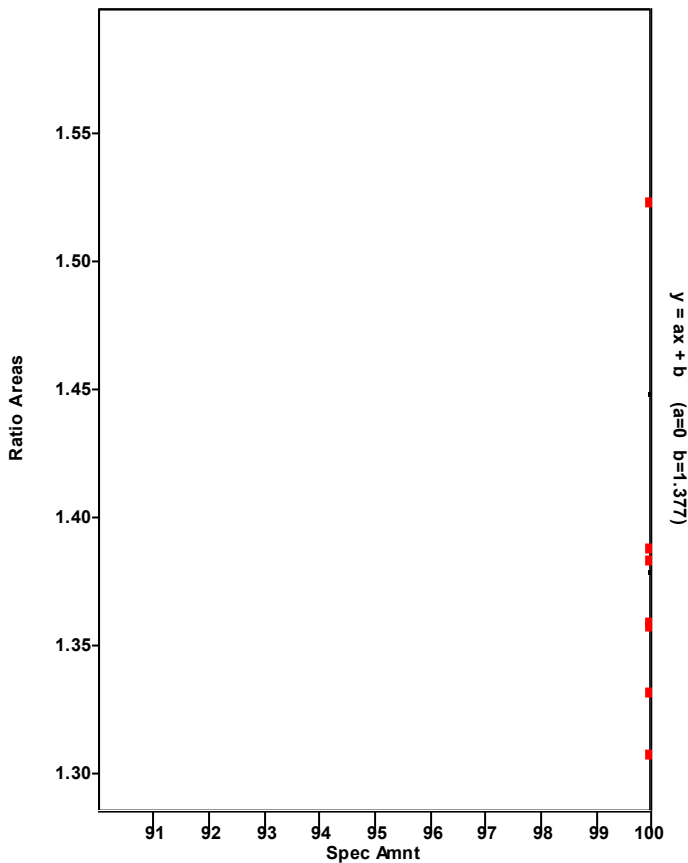
NL:
 2.79E5
 m/z=
 351.88-
 351.92 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	908066
RM1 Area	1467909
RM1 Ratio (A)	1.6165
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

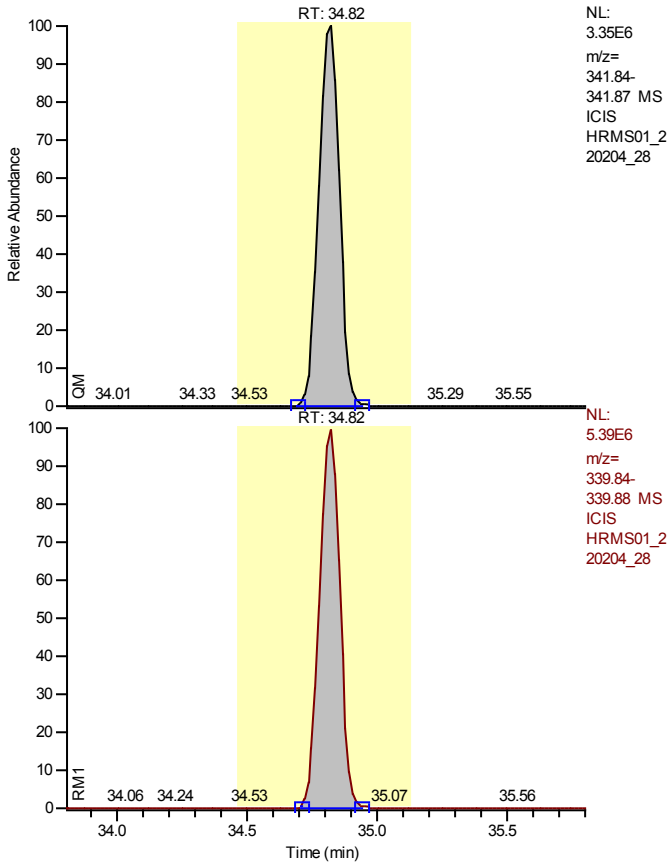
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.81 - 35.81 SM: 7G

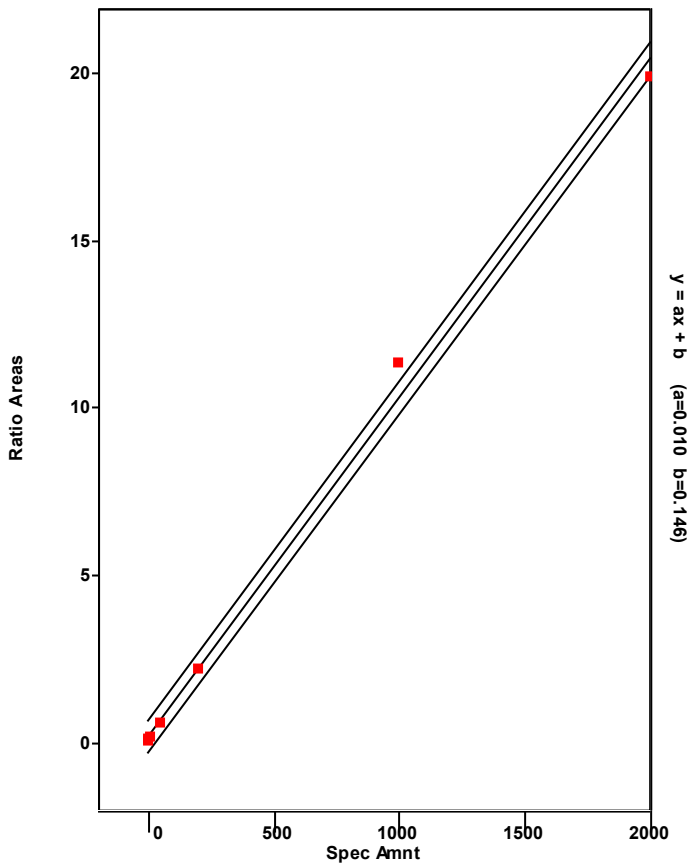


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	18219384
RM1 Area	28915125
RM1 Ratio (A)	1.5871
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	600.0000
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

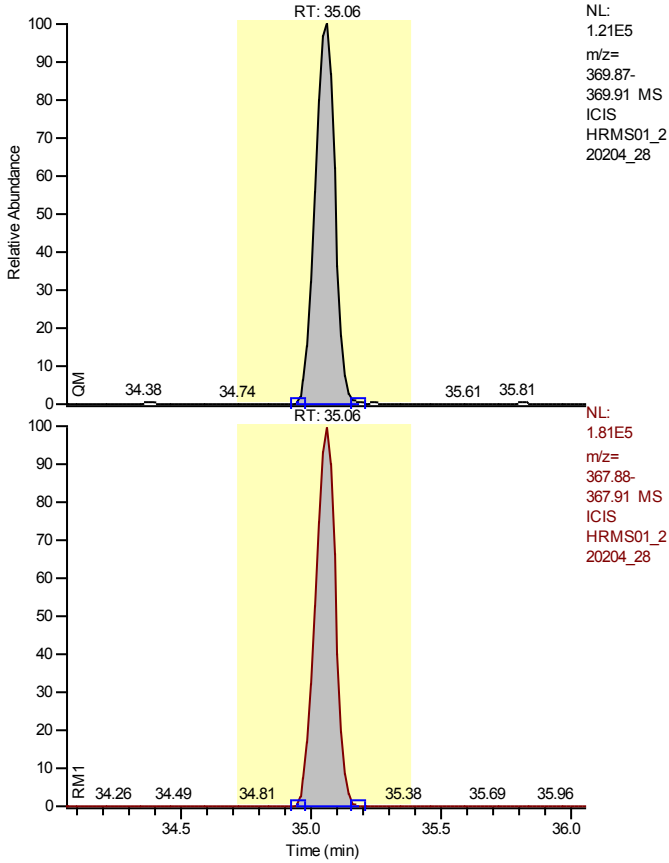
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.05 - 36.05 SM: 7G



NL:
 1.21E5
 m/z=
 369.87-
 369.91 MS
 ICIS
 HRMS01_2
 20204_28

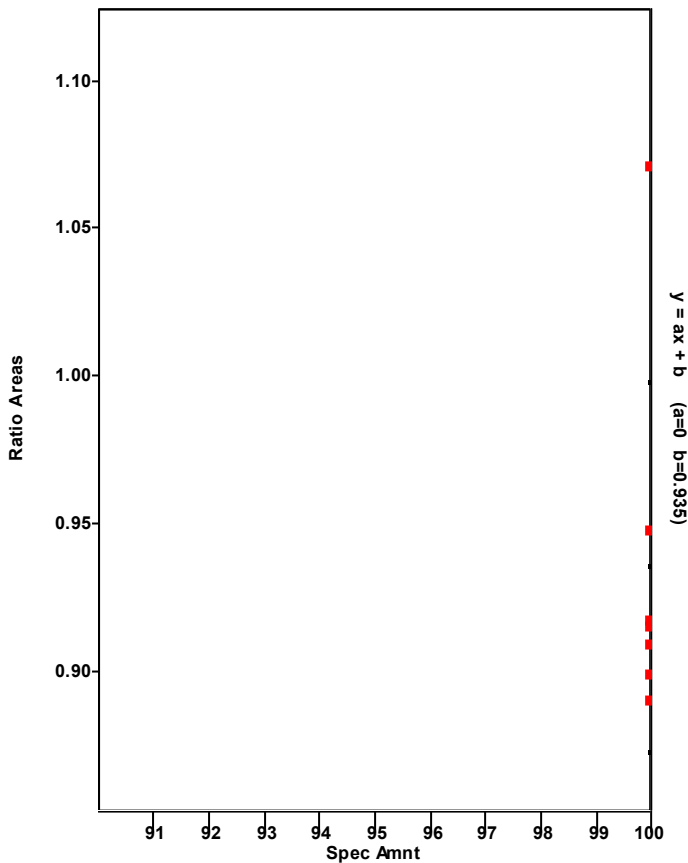
NL:
 1.81E5
 m/z=
 367.88-
 367.91 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	637689
RM1 Area	965761
RM1 Ratio (A)	1.5145
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

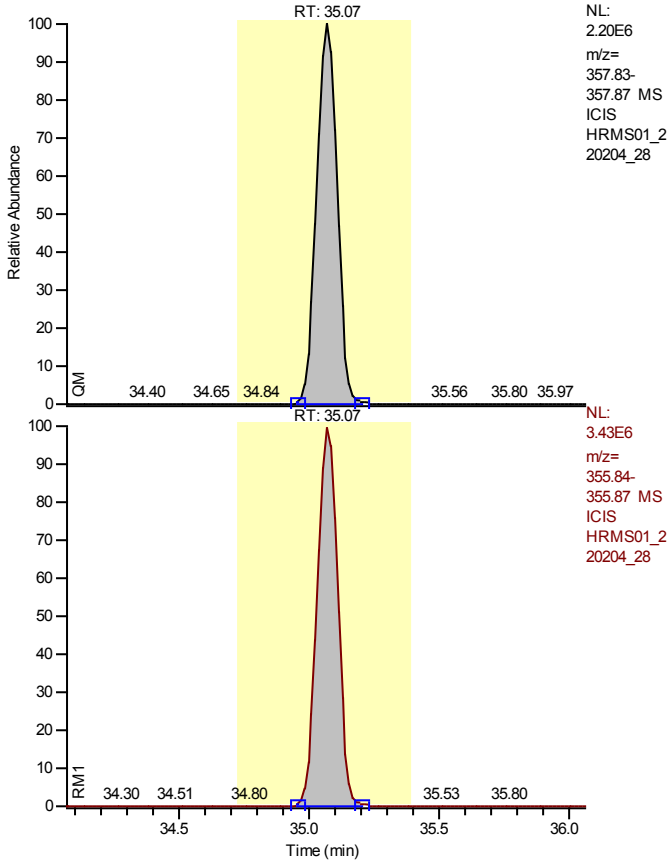
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.07 - 36.07 SM: 7G



NL:
 2.20E6
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_28

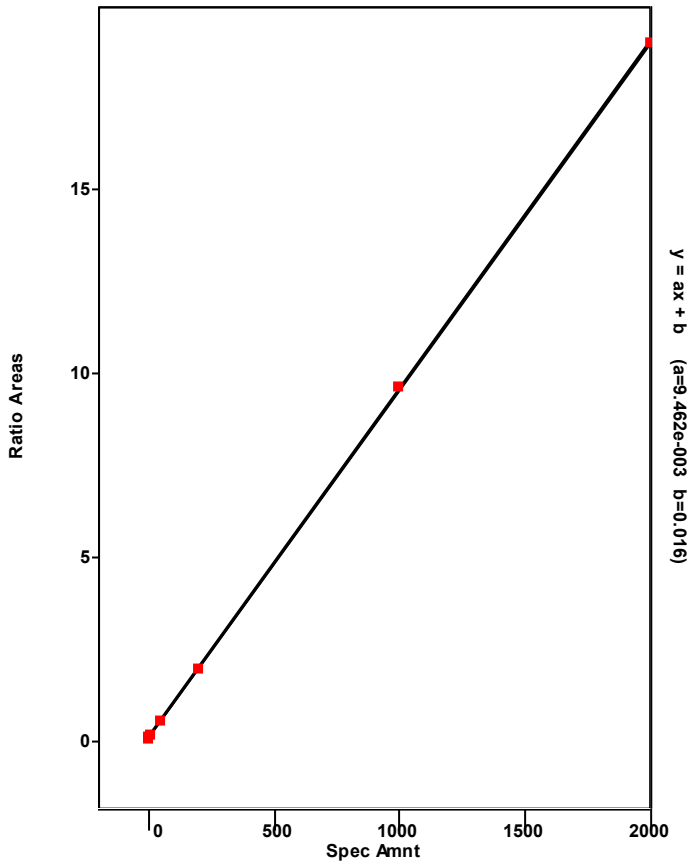
NL:
 3.43E6
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	11846869
RM1 Area	18470199
RM1 Ratio (A)	1.5591
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	2000.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

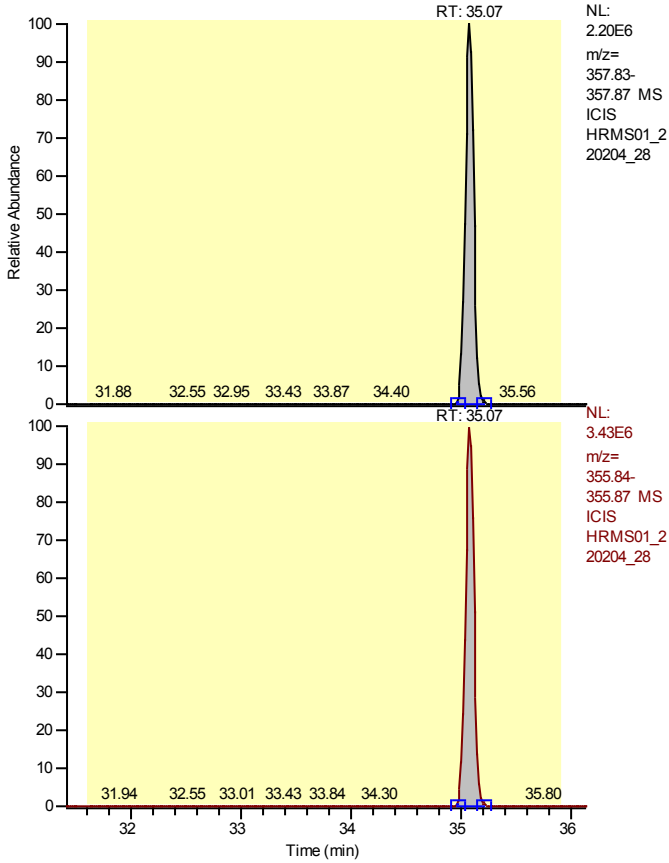
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.40 - 36.13 SM: 7G

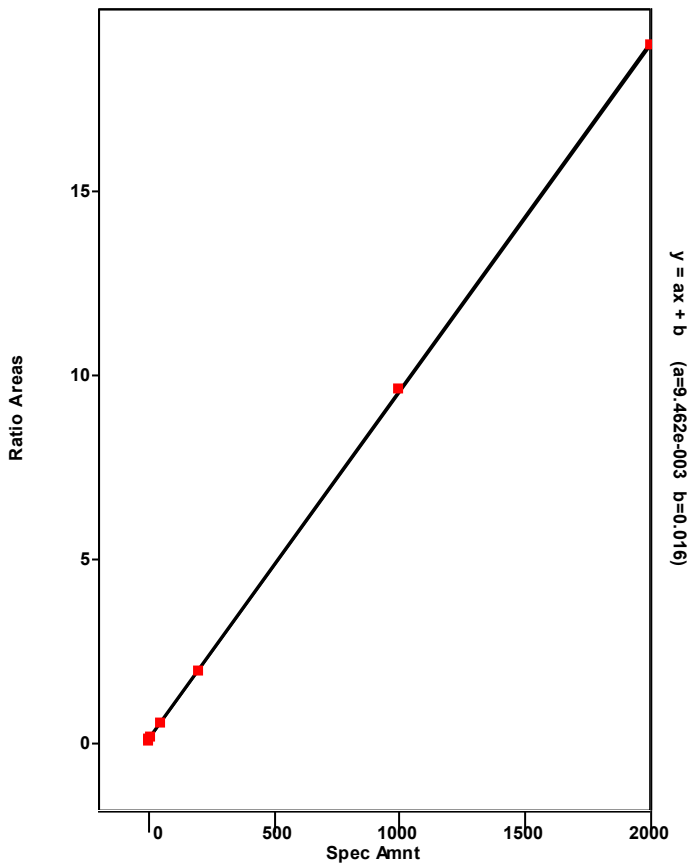


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	11846869
RM1 Area	18470199
RM1 Ratio (A)	1.5591
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

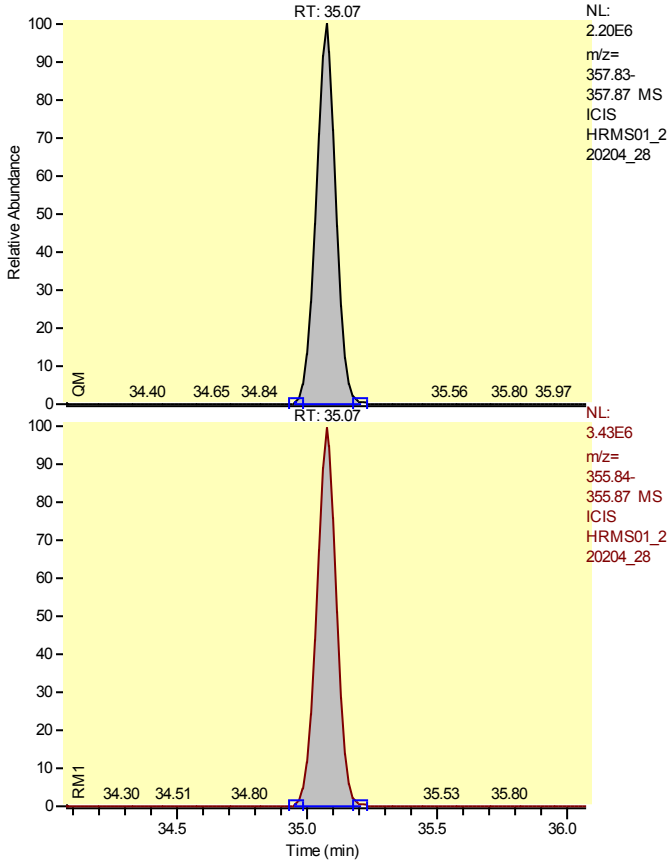
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.07 - 36.07 SM: 7G

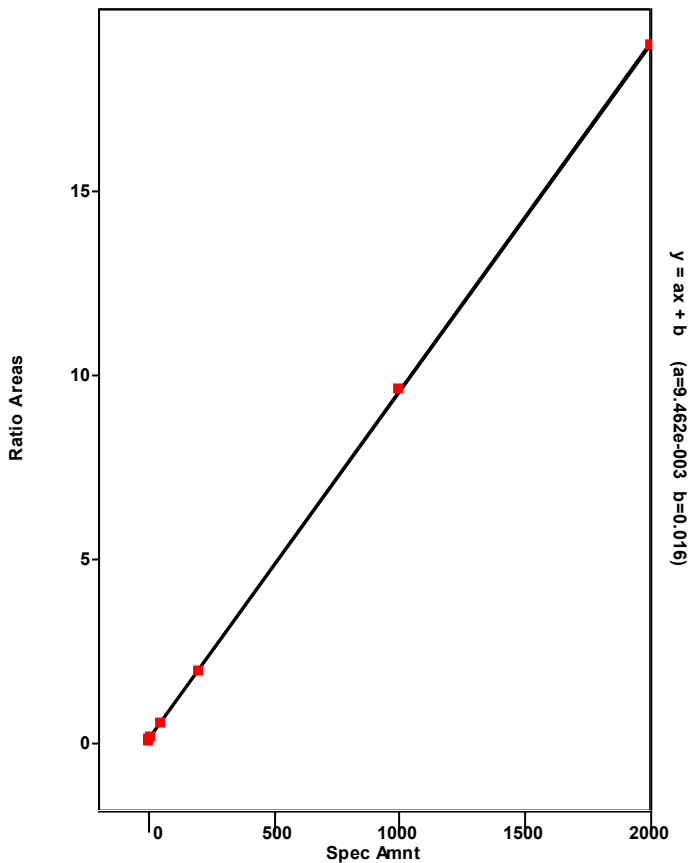


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	11846869
RM1 Area	18470199
RM1 Ratio (A)	1.5591
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

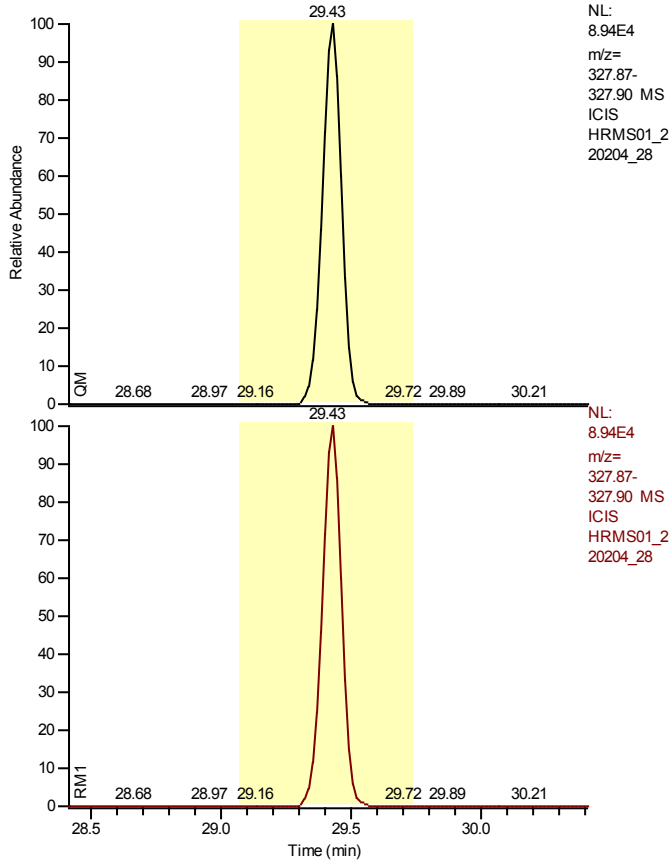
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.41 - 30.41 SM: 7G



NL:
8.94E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20204_28

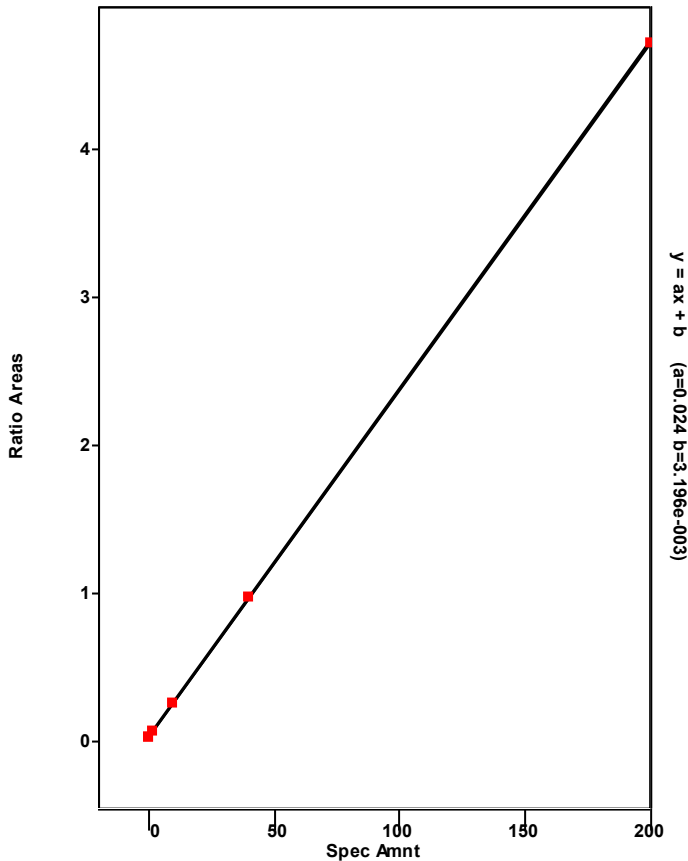
NL:
8.94E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	1.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	0
TEQ (A)	n.d.
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

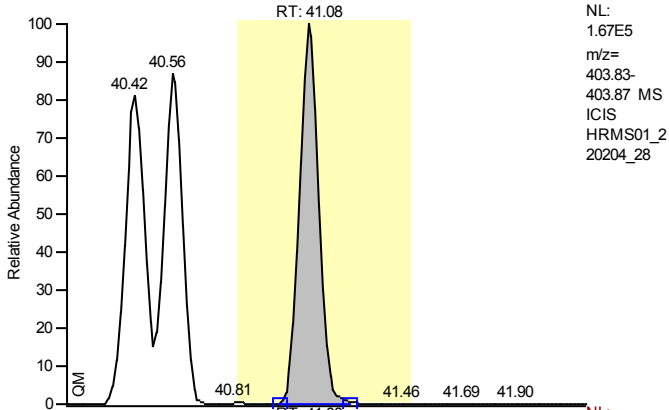
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

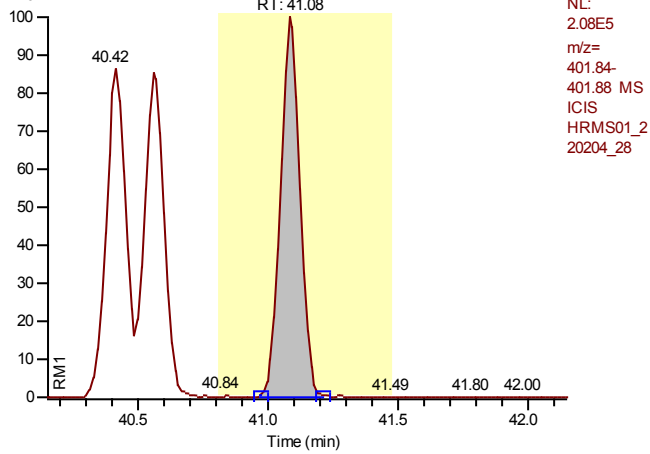
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
 1.67E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	872726
RM1 Area	1098500
RM1 Ratio (A)	1.2587
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

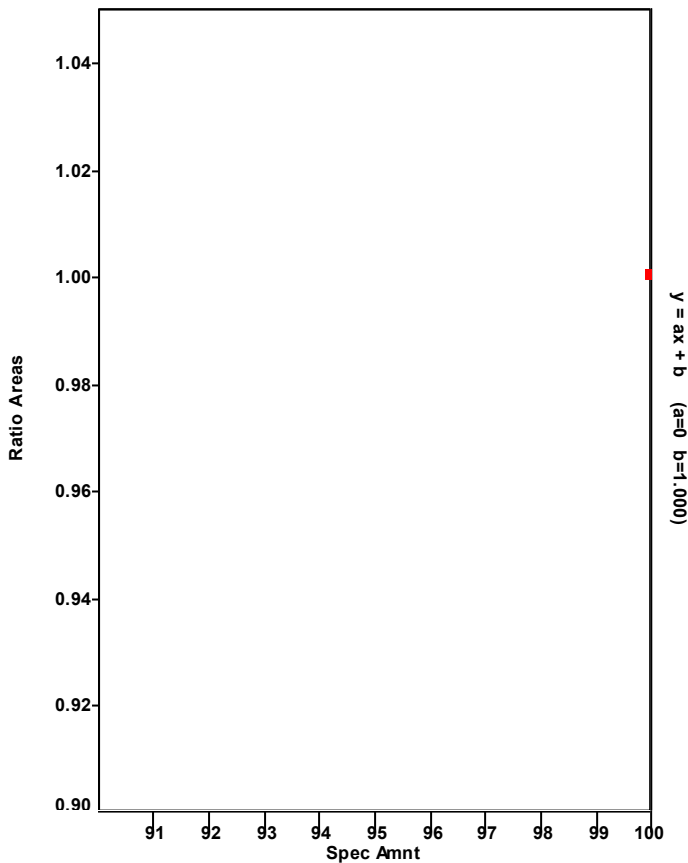


NL:
 2.08E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20204_28

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

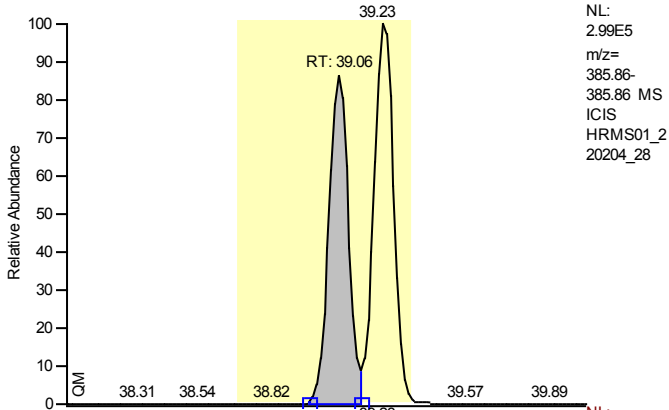
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



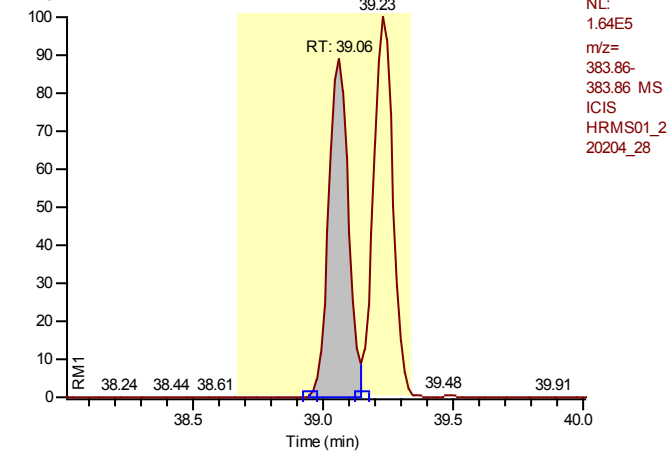
Chromatogram

Entry Parameters

RT: 38.01 - 40.01 SM: 7G



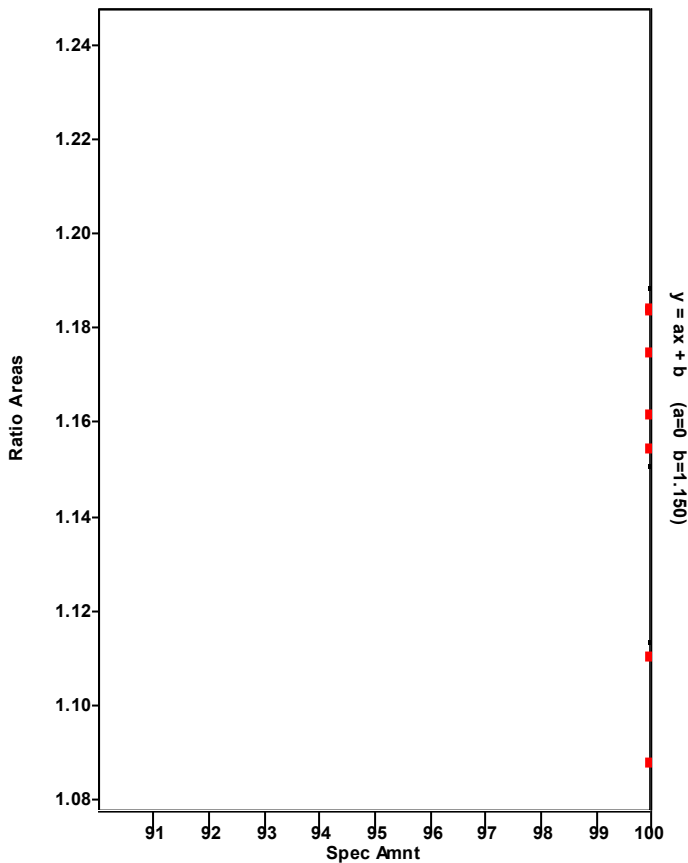
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1365897
RM1 Area	777352
RM1 Ratio (A)	0.5691
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

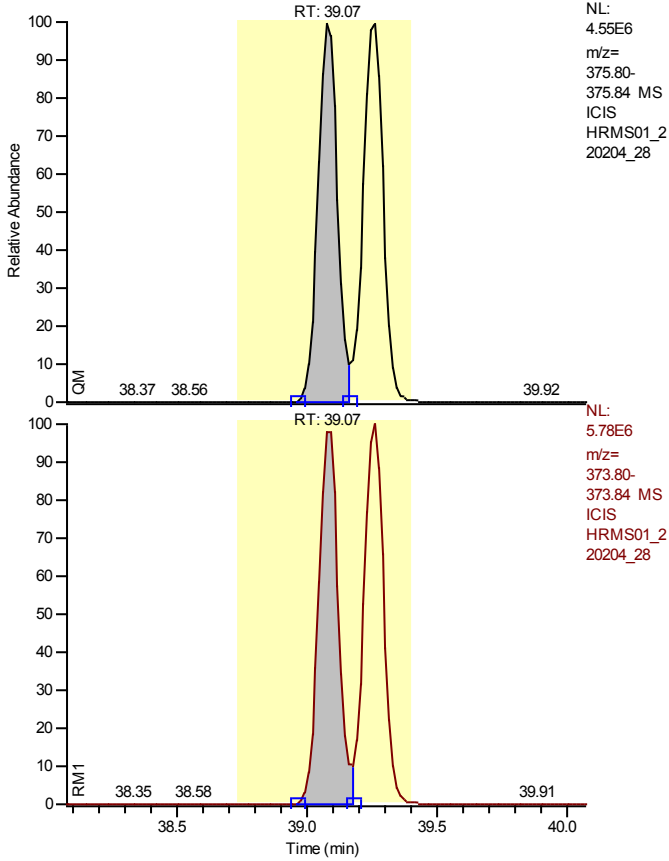
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
4.55E6
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_28

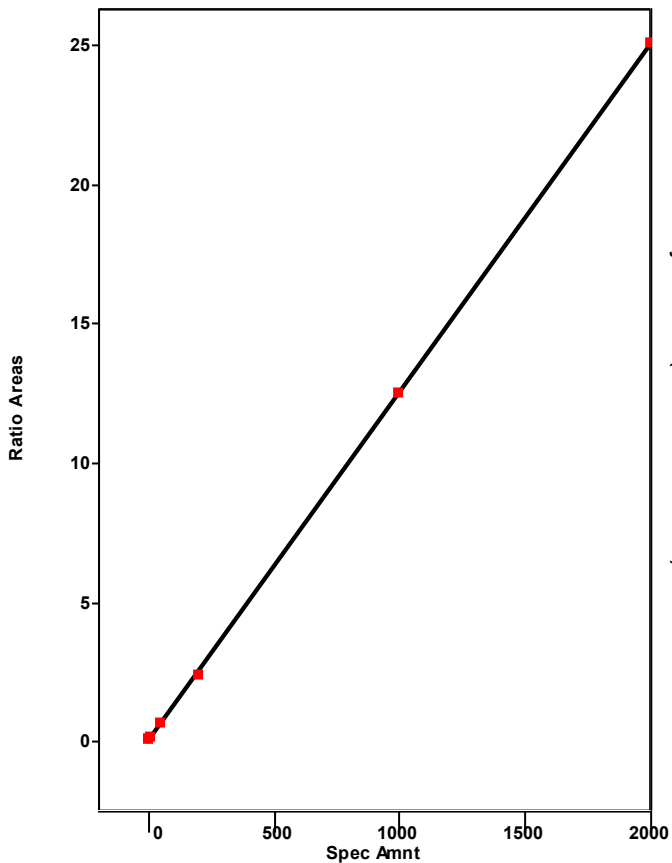
NL:
5.78E6
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	23436462
RM1 Area	30086721
RM1 Ratio (A)	1.2838
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

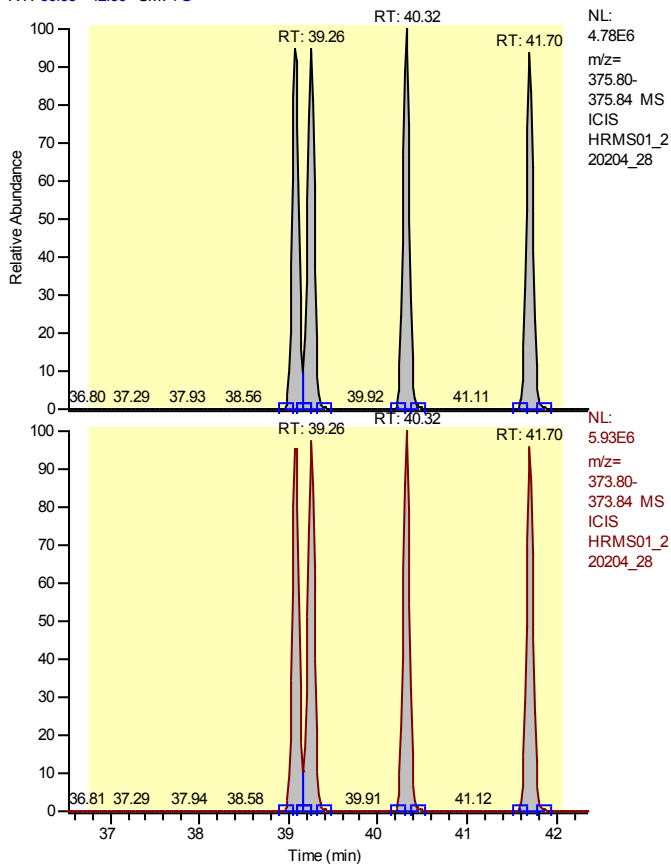
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.53 - 42.36 SM: 7G

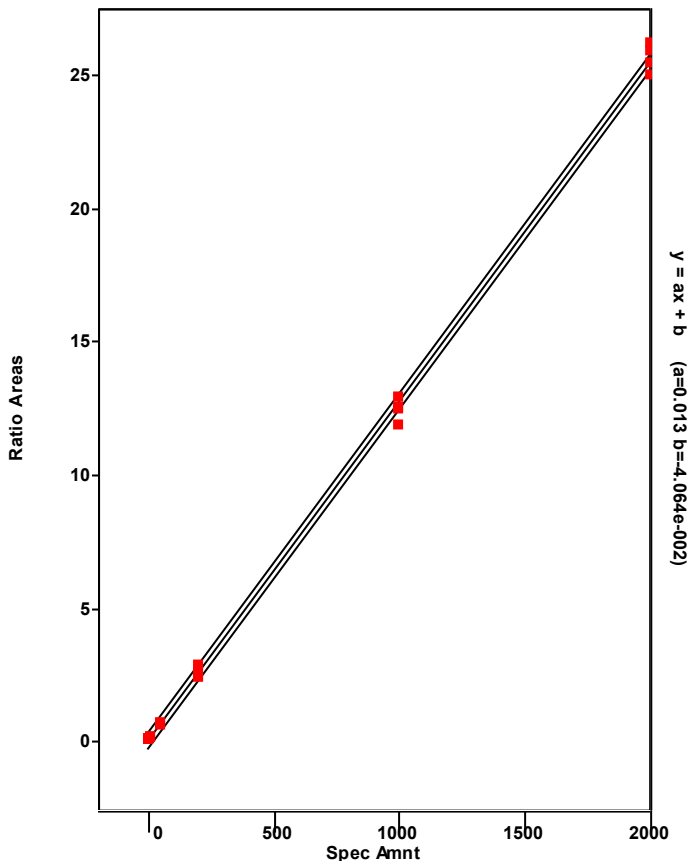


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	97259134
RM1 Area	122143356
RM1 Ratio (A)	1.2559
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	8000.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

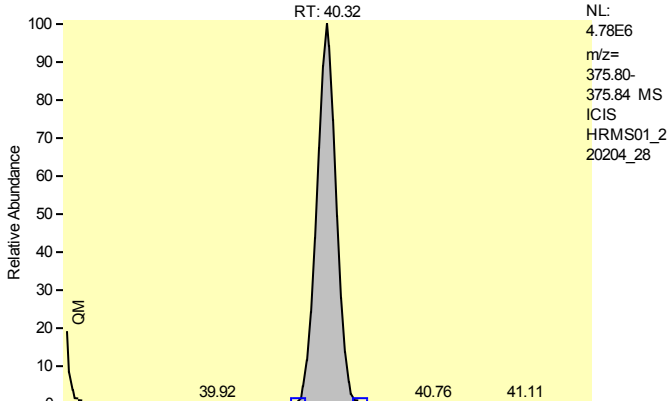
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

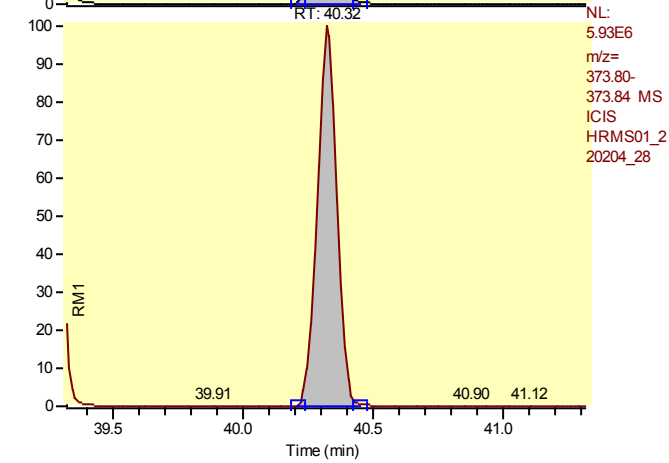
Entry Parameters

RT: 39.32 - 41.32 SM: 7G



NL:
4.78E6
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	24924145
RM1 Area	31123196
RM1 Ratio (A)	1.2487
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

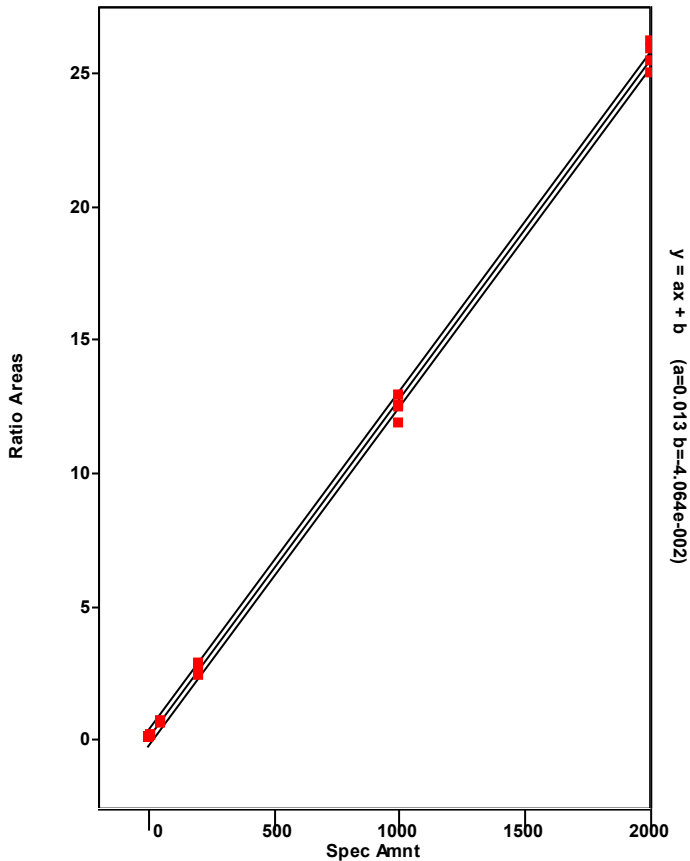


NL:
5.93E6
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_28

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

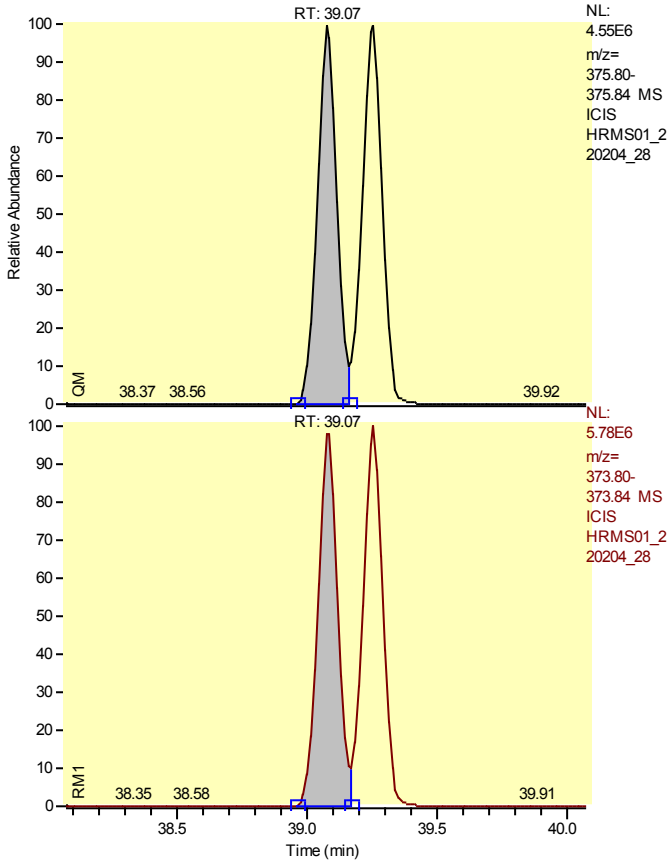
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
4.55E6
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_28

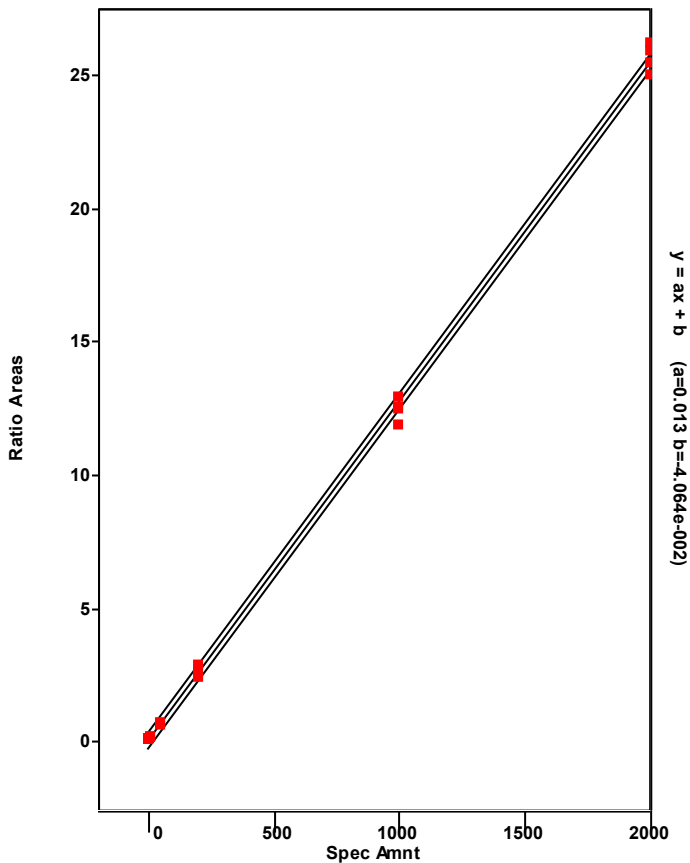
NL:
5.78E6
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	23436462
RM1 Area	30086721
RM1 Ratio (A)	1.2838
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

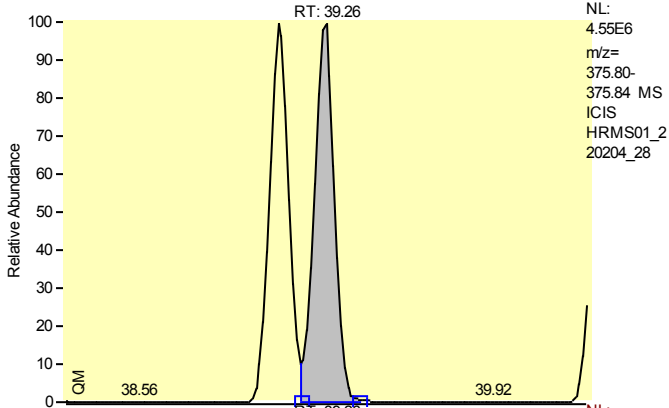
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



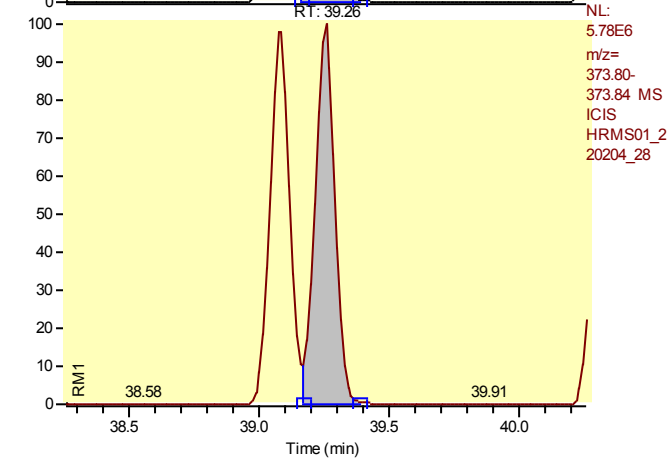
Chromatogram

Entry Parameters

RT: 38.26 - 40.26 SM: 7G



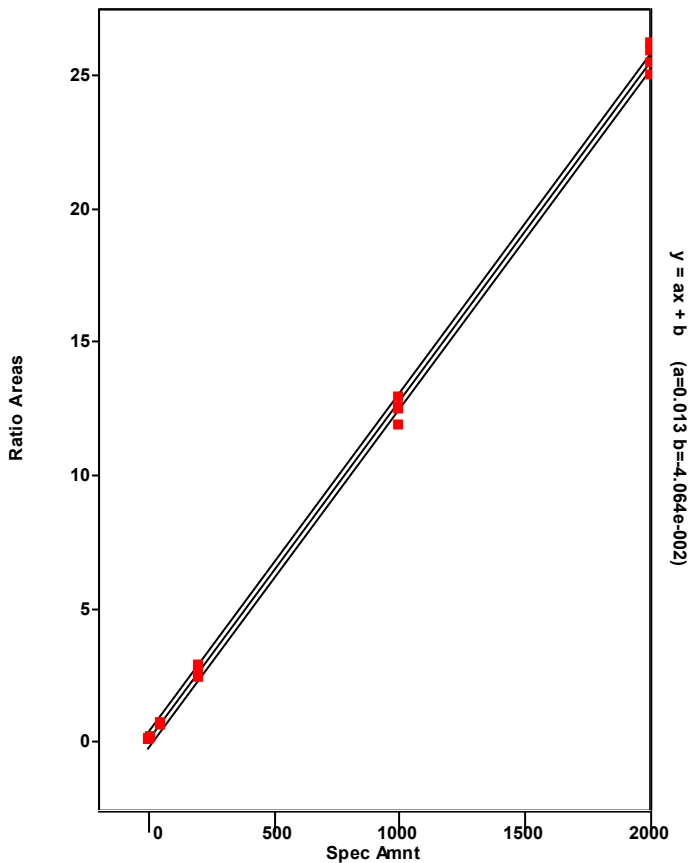
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	24323227
RM1 Area	30142135
RM1 Ratio (A)	1.2392
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

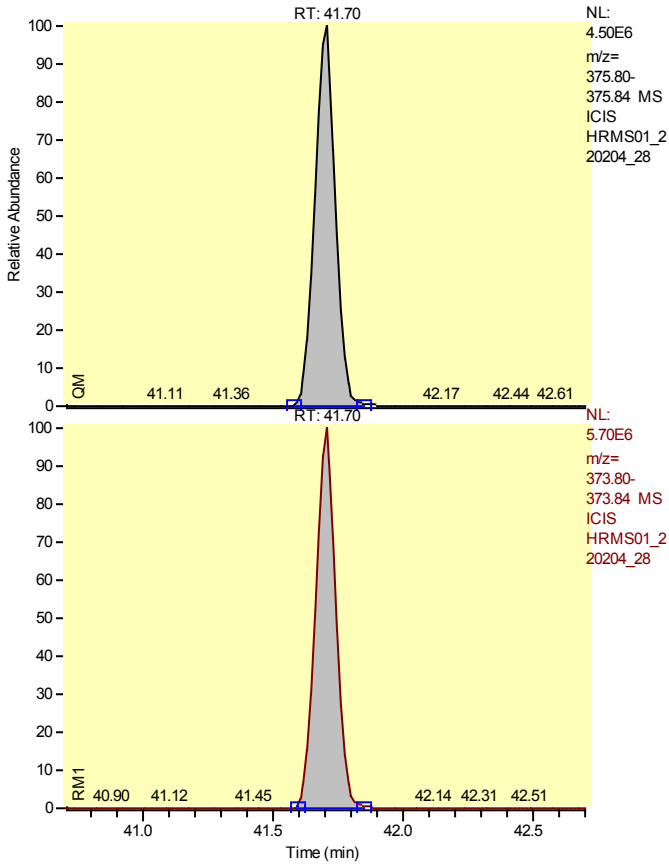
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.70 - 42.70 SM: 7G

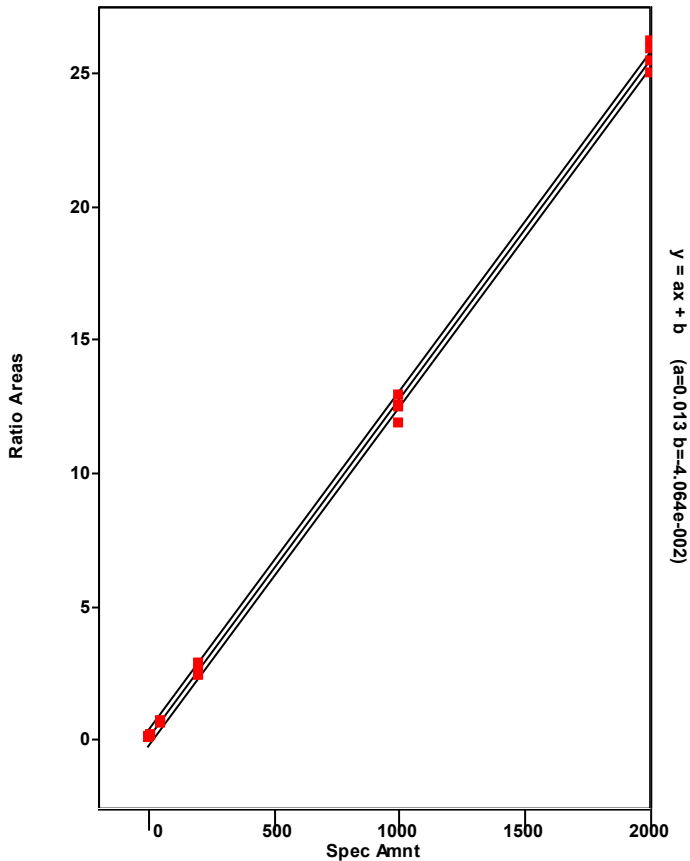


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	24575301
RM1 Area	30791304
RM1 Ratio (A)	1.2529
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

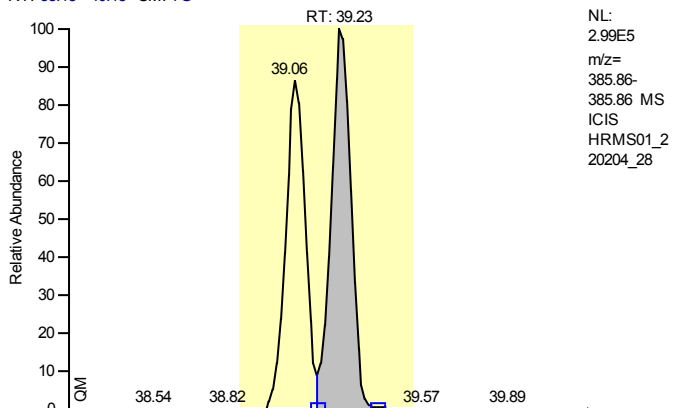
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

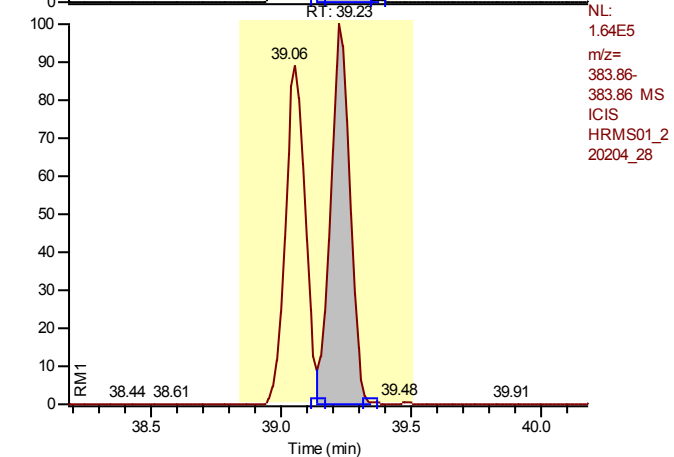
Entry Parameters

RT: 38.18 - 40.18 SM: 7G



NL:
 2.99E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1593787
RM1 Area	857651
RM1 Ratio (A)	0.5381
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

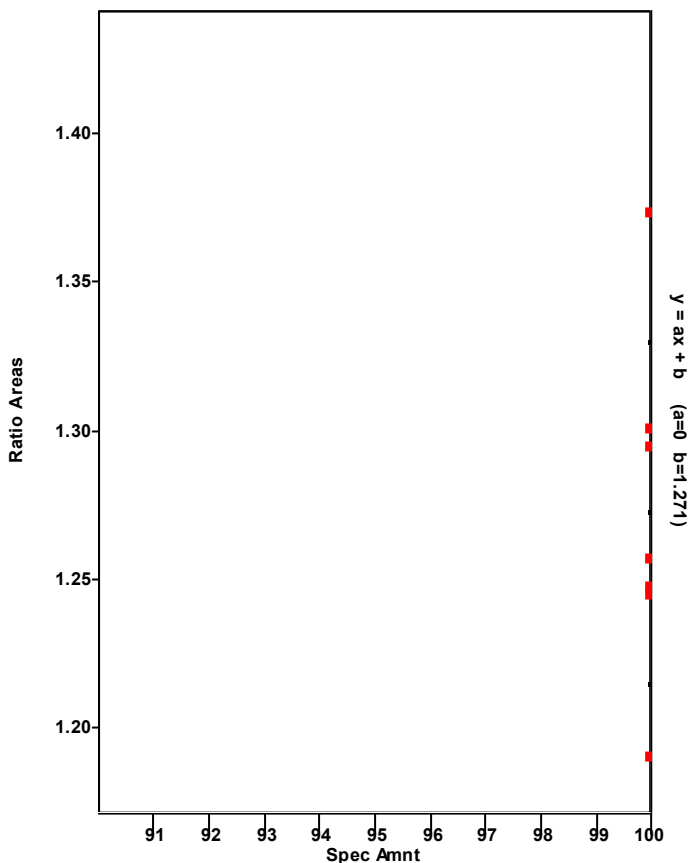


NL:
 1.64E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_28

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

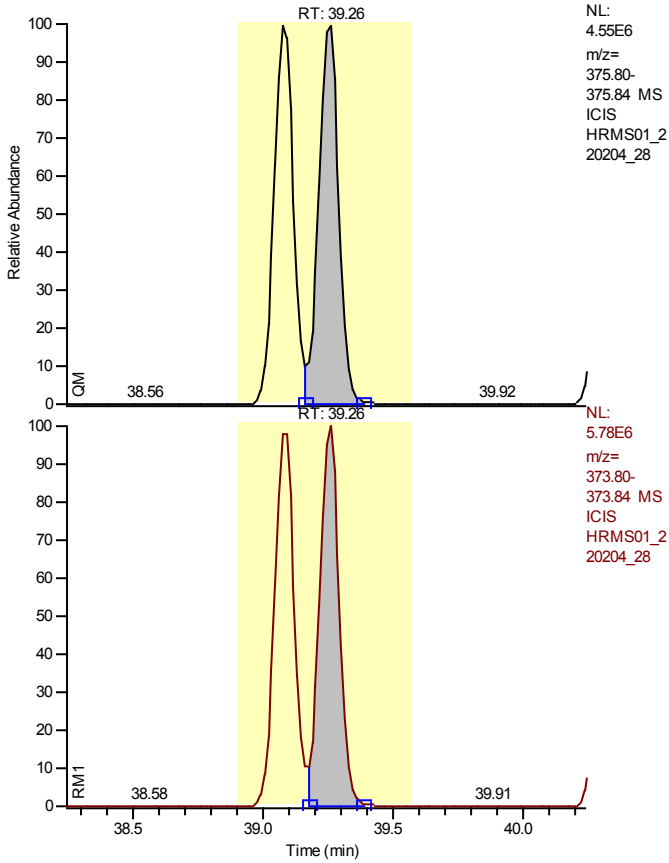
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G



NL:
 4.55E6
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20204_28

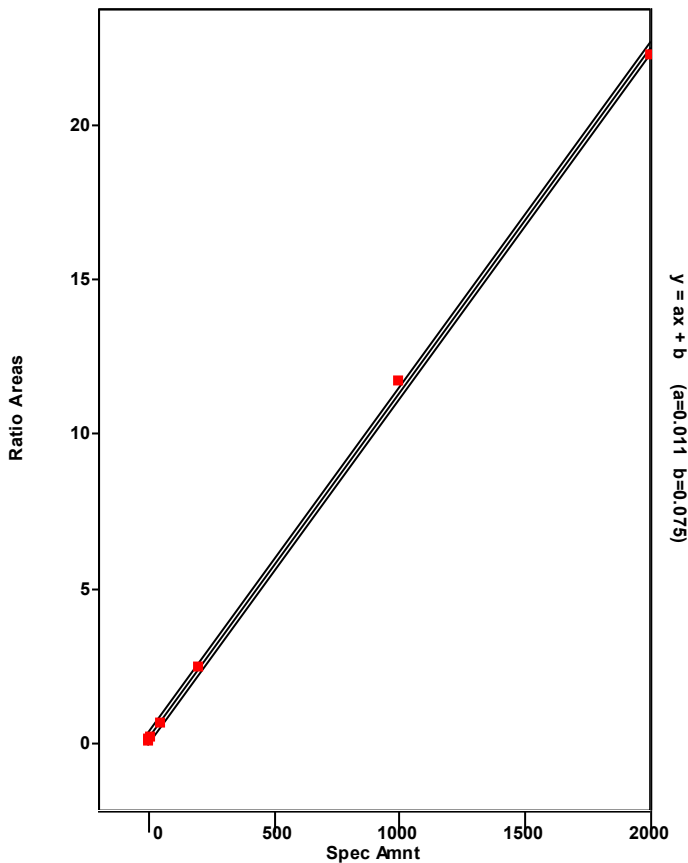
NL:
 5.78E6
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	24323227
RM1 Area	30142135
RM1 Ratio (A)	1.2392
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

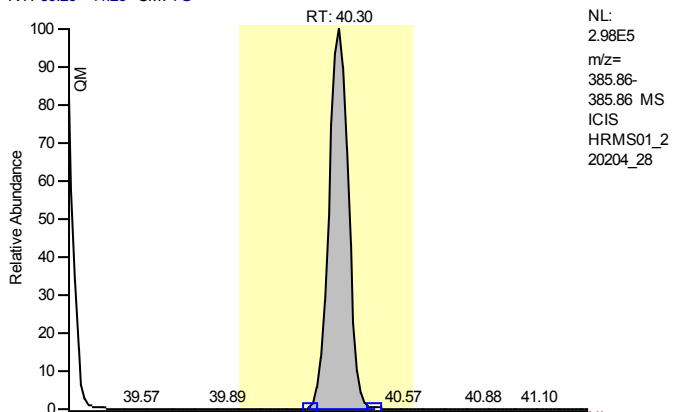
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

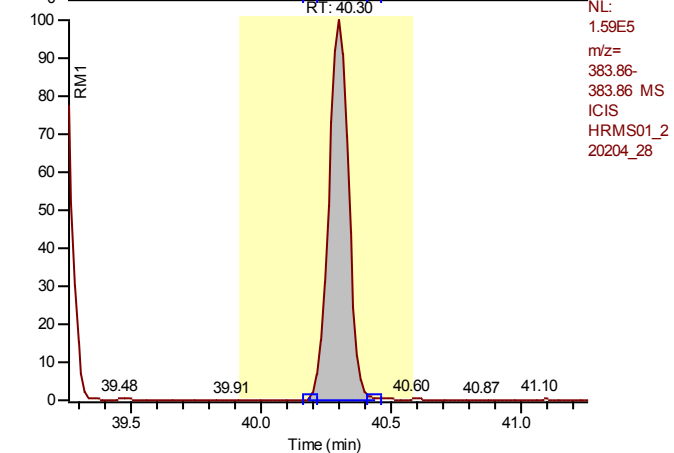
Entry Parameters

RT: 39.26 - 41.26 SM: 7G



NL:
 2.98E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1550109
RM1 Area	845185
RM1 Ratio (A)	0.5452
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

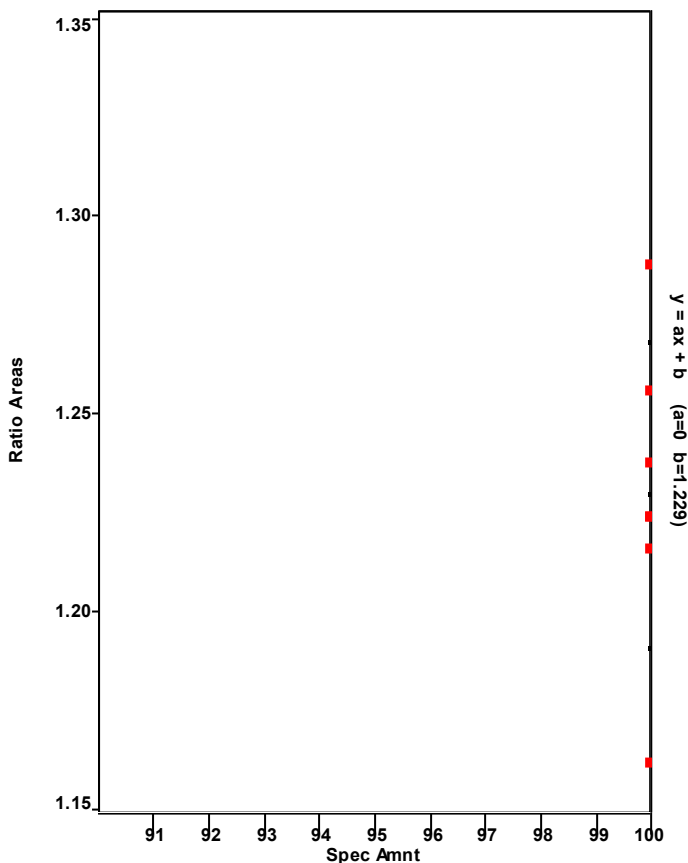


NL:
 1.59E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20204_28

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

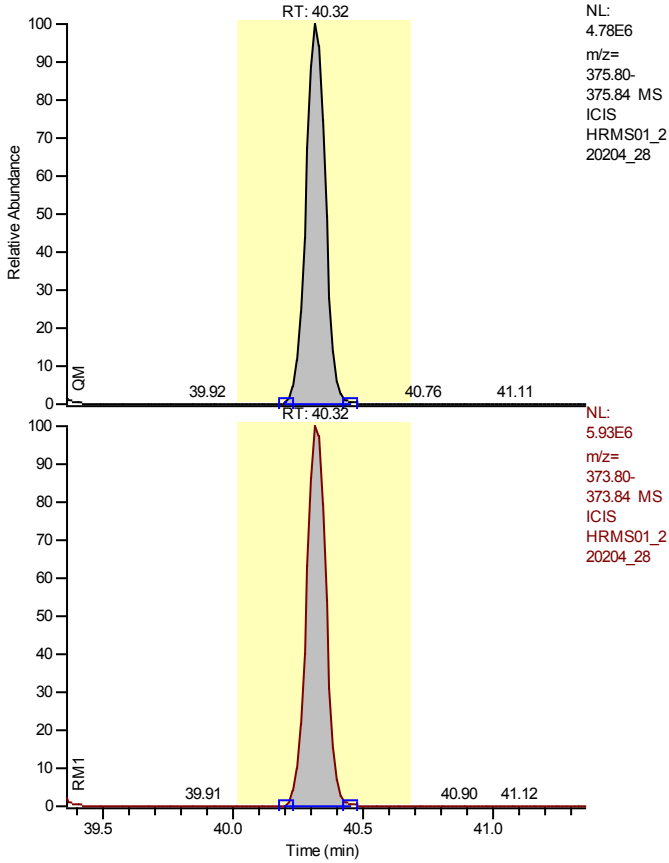
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.36 - 41.36 SM: 7G

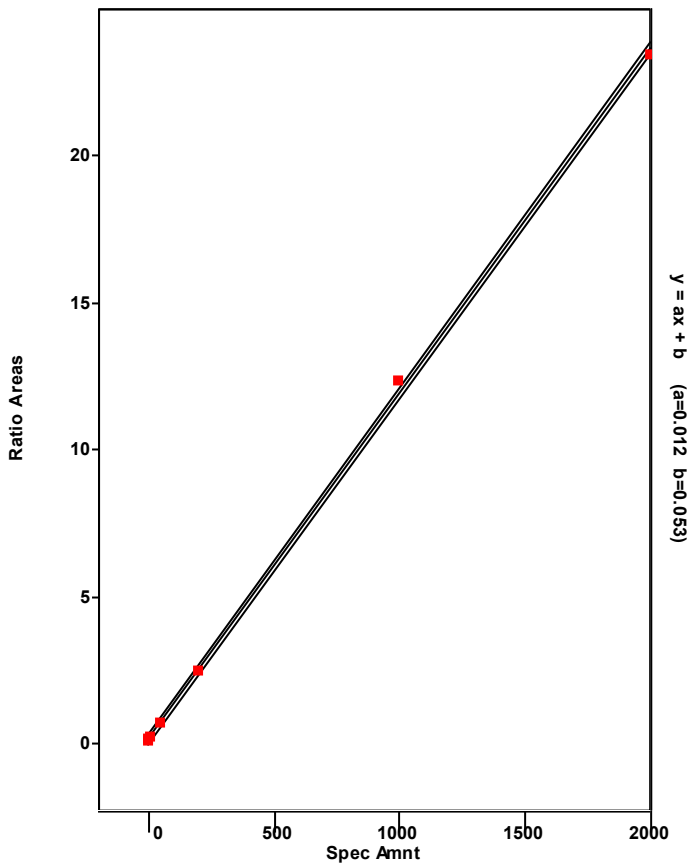


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	24924145
RM1 Area	31123196
RM1 Ratio (A)	1.2487
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

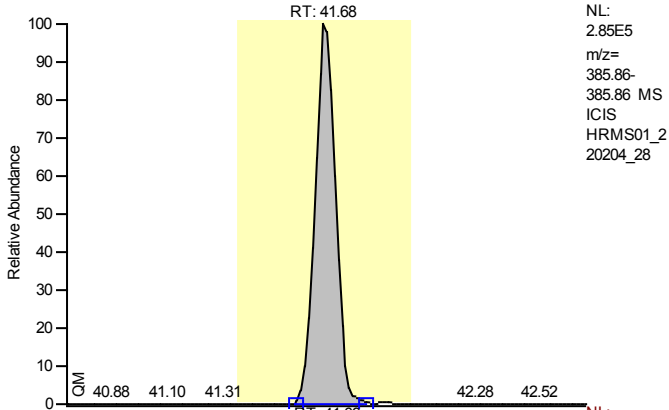
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



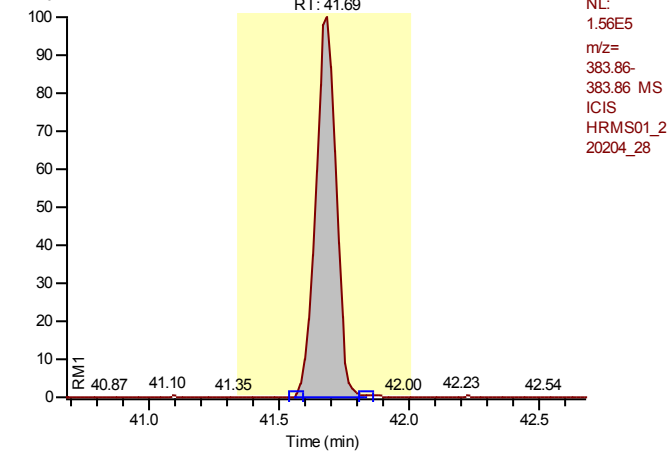
Chromatogram

Entry Parameters

RT: 40.68 - 42.68 SM: 7G



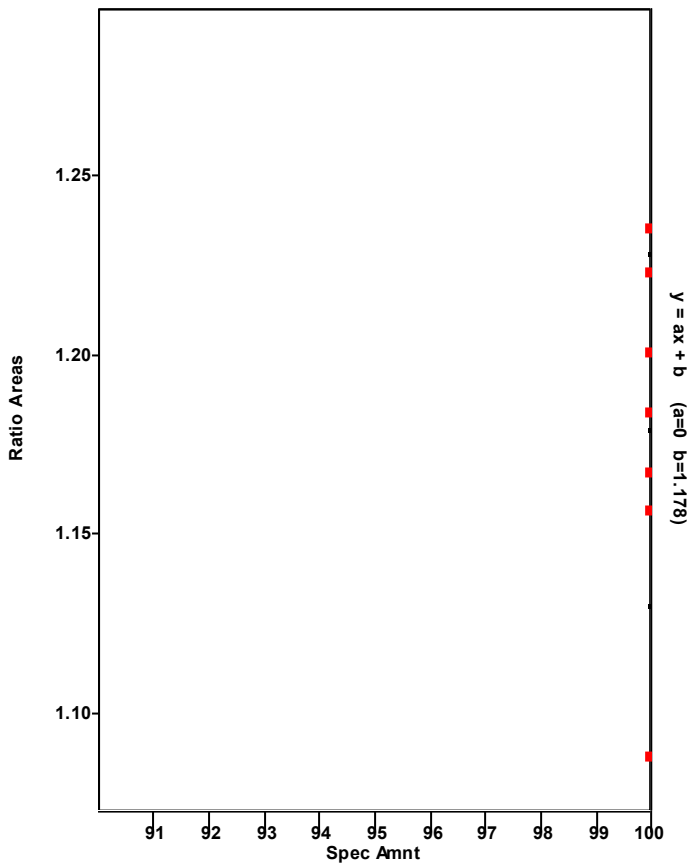
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1576930
RM1 Area	855605
RM1 Ratio (A)	0.5426
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

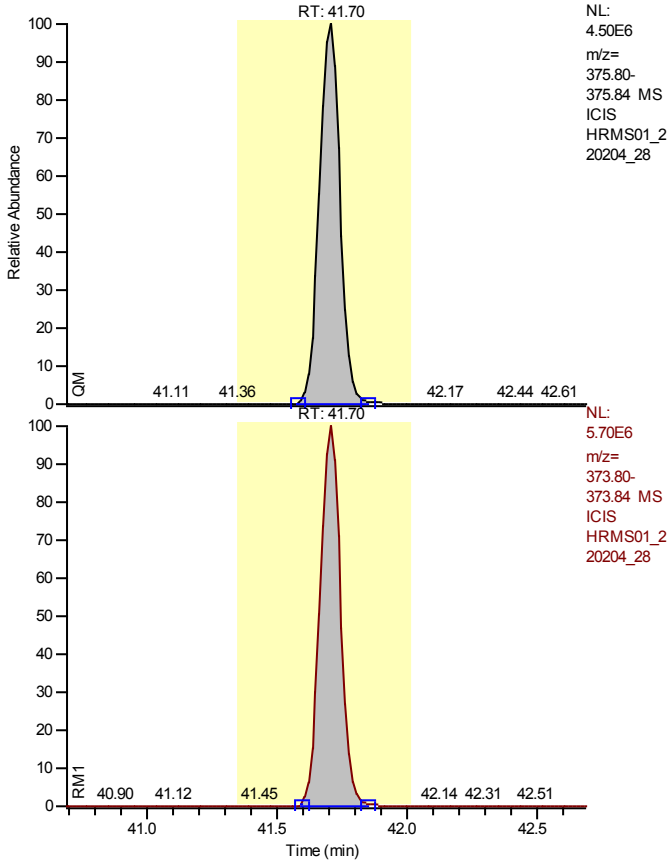
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G

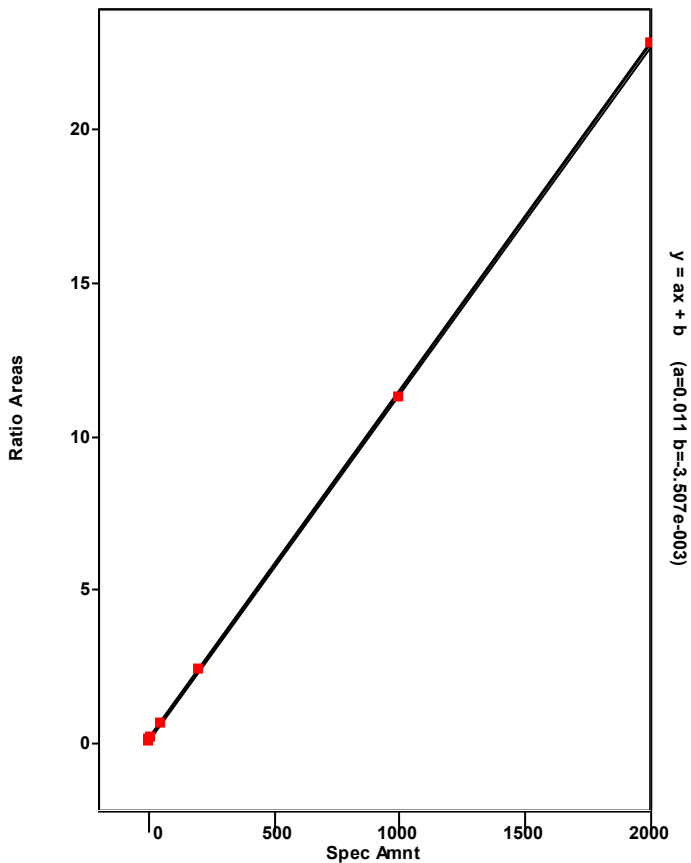


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	24575301
RM1 Area	30791304
RM1 Ratio (A)	1.2529
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

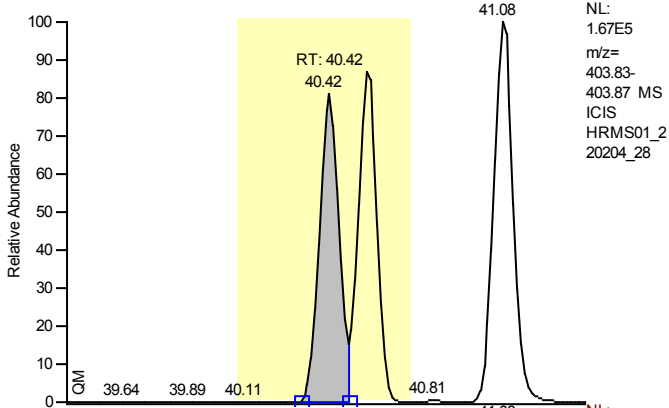
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



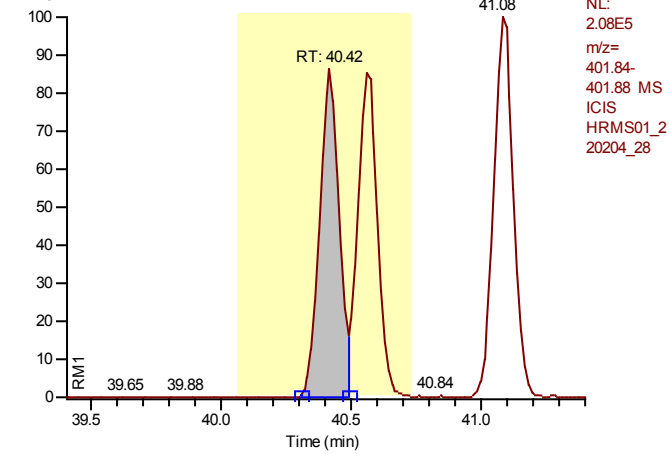
Chromatogram

Entry Parameters

RT: 39.40 - 41.40 SM: 7G

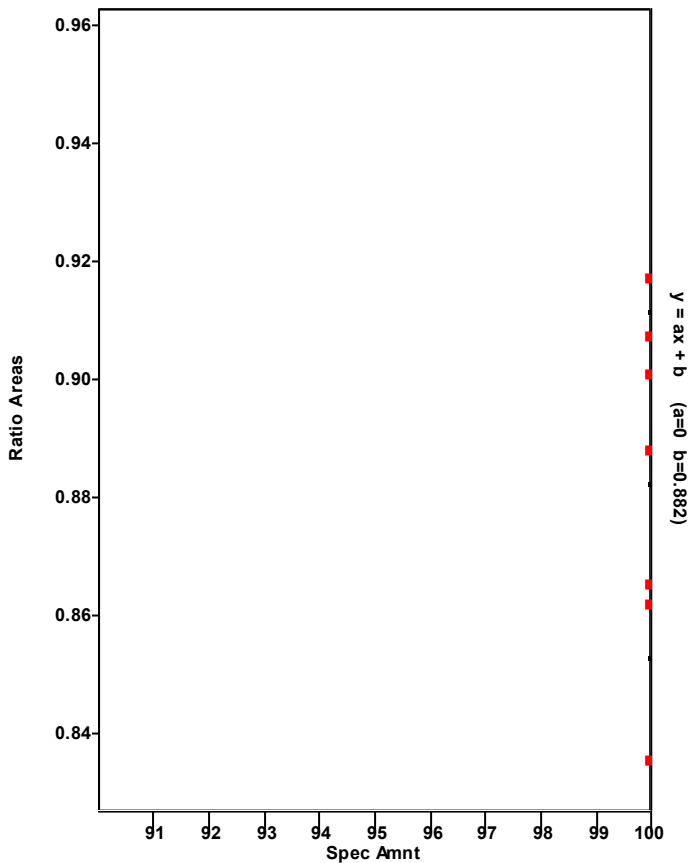


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	709825
RM1 Area	935567
RM1 Ratio (A)	1.3180
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

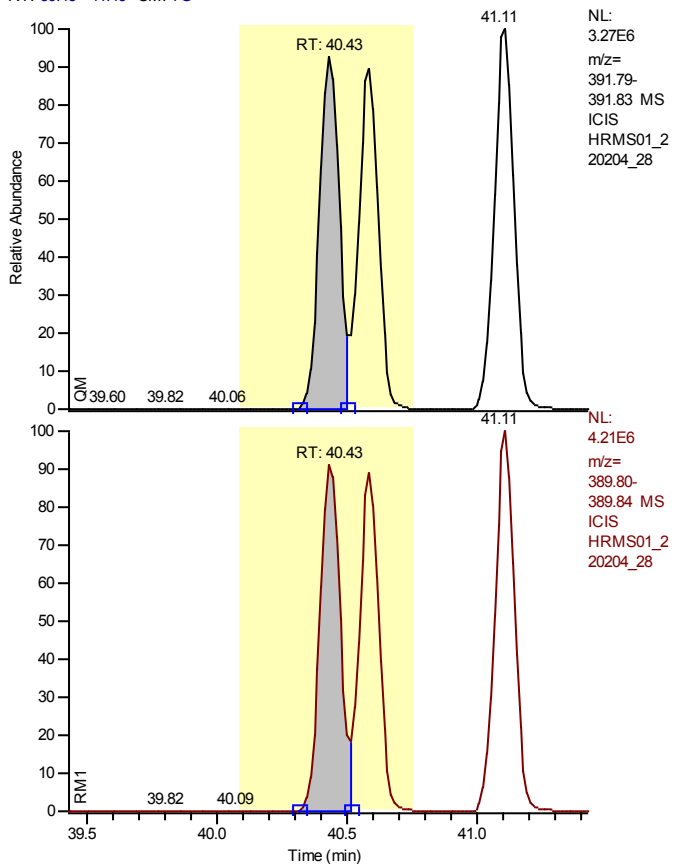
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.43 - 41.43 SM: 7G

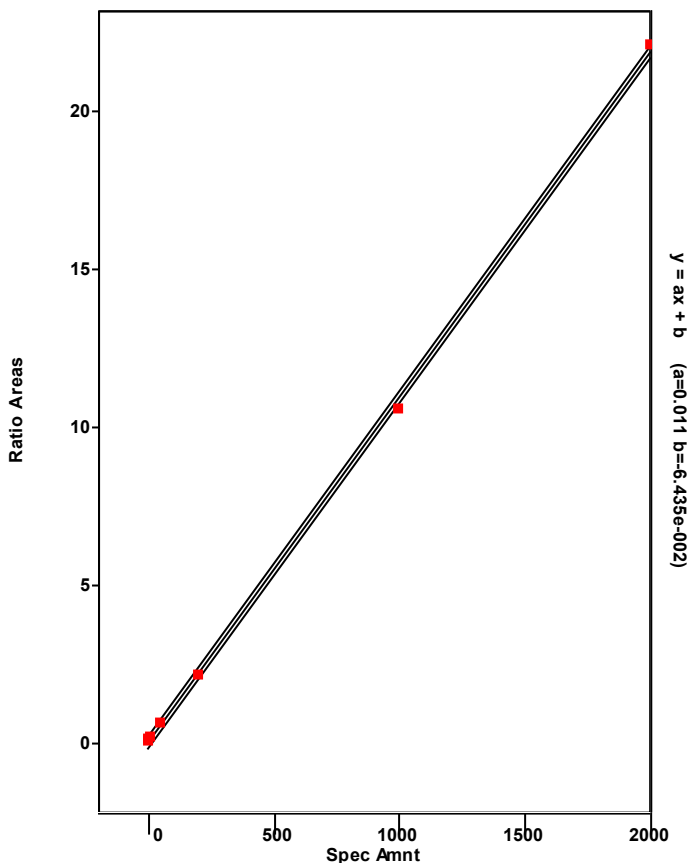


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	15713205
RM1 Area	20524781
RM1 Ratio (A)	1.3062
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

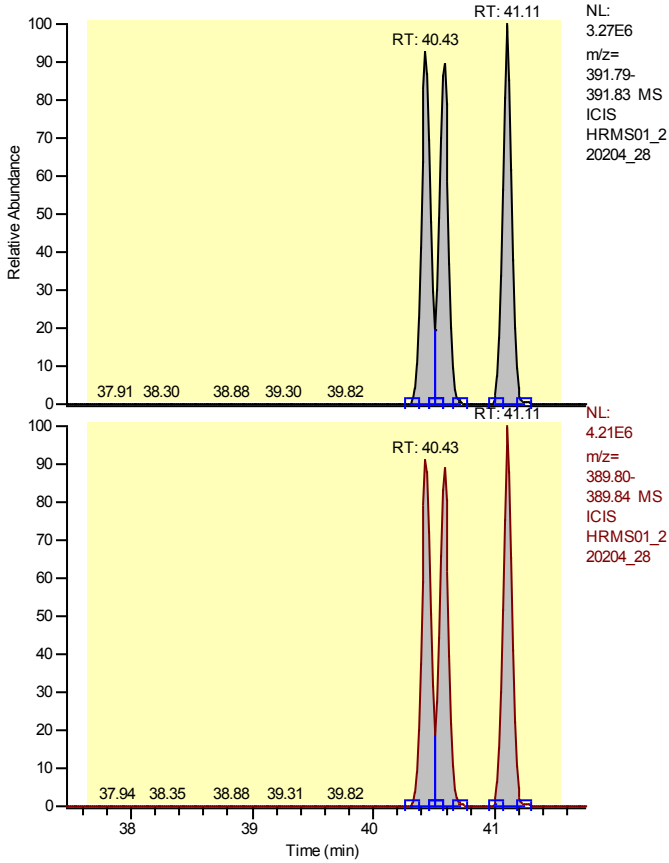
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.46 - 41.75 SM: 7G

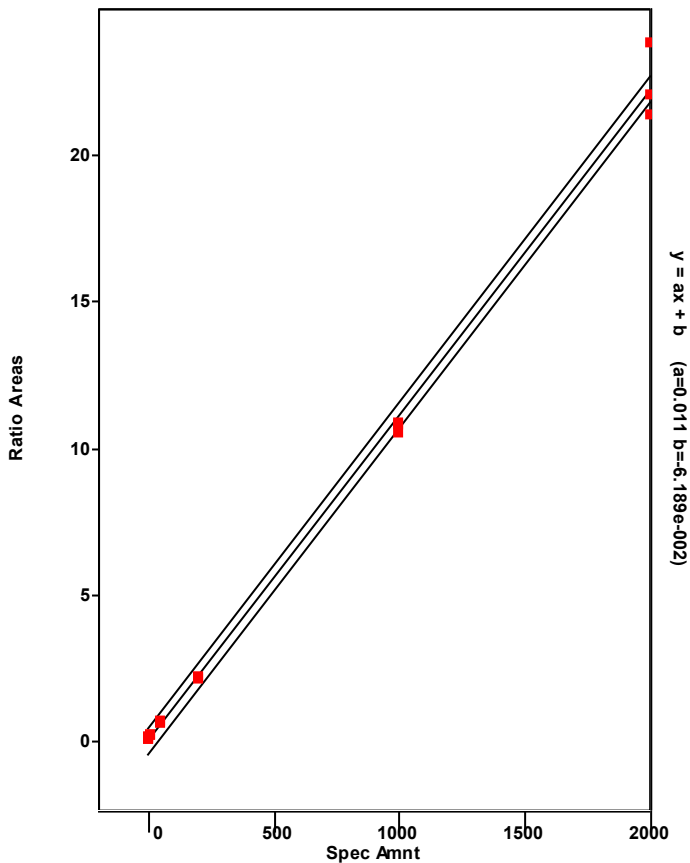


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	48694004
RM1 Area	61760838
RM1 Ratio (A)	1.2683
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	6000.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

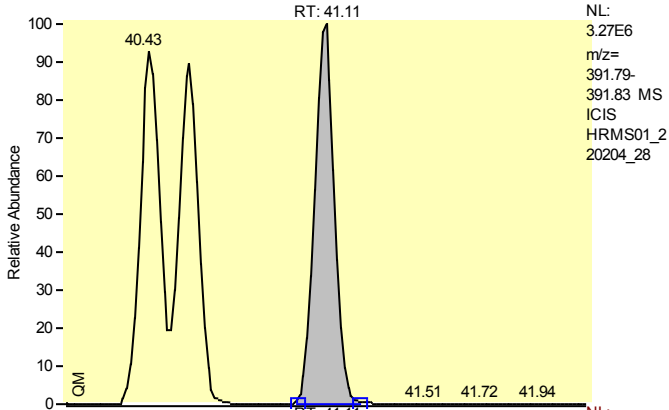
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



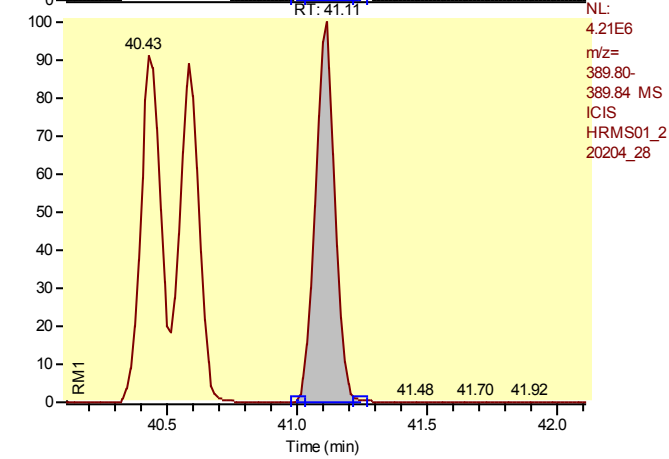
Chromatogram

Entry Parameters

RT: 40.11 - 42.11 SM: 7G



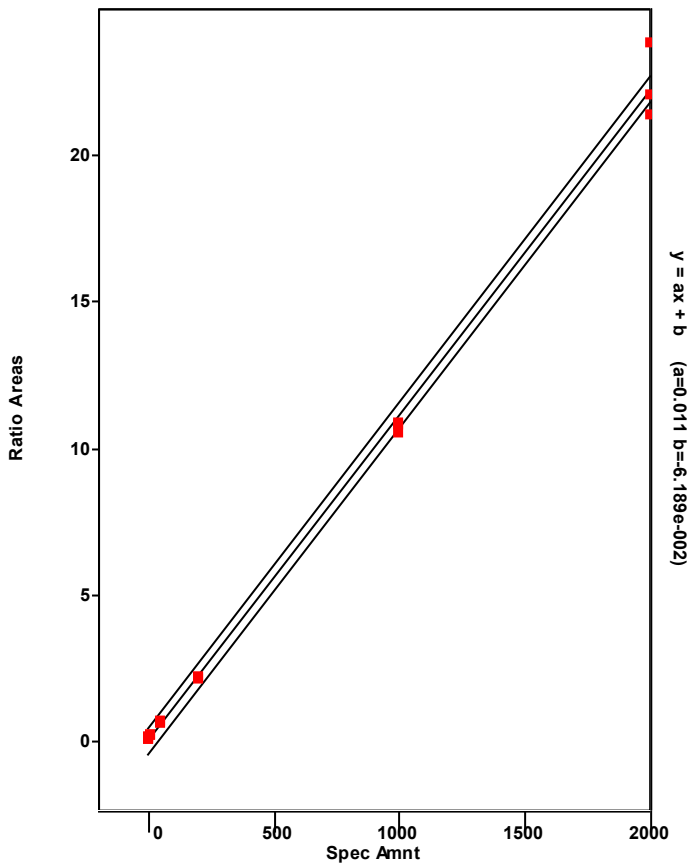
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	17228843
RM1 Area	21890313
RM1 Ratio (A)	1.2706
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

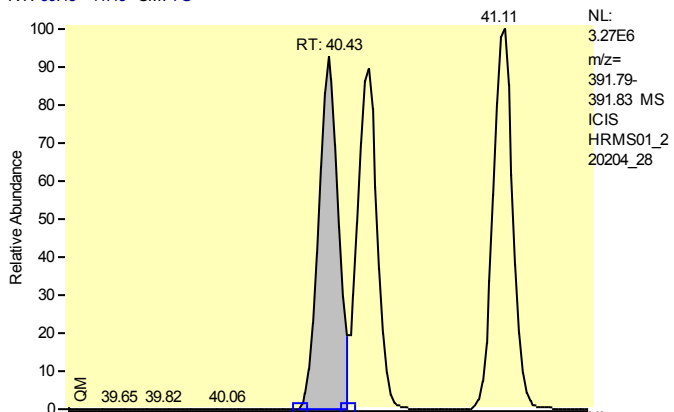
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



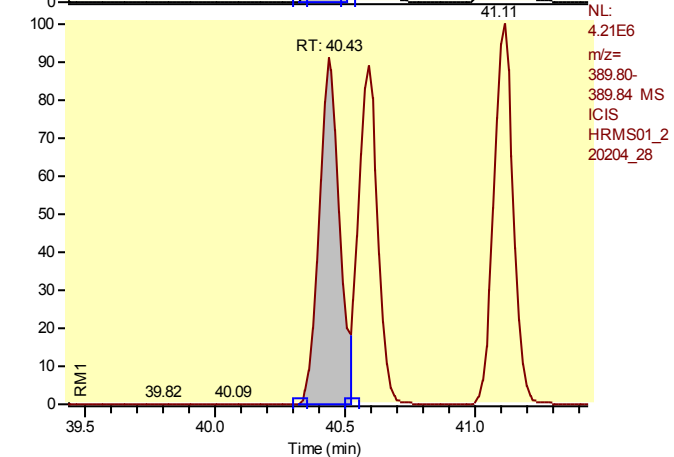
Chromatogram

Entry Parameters

RT: 39.43 - 41.43 SM: 7G



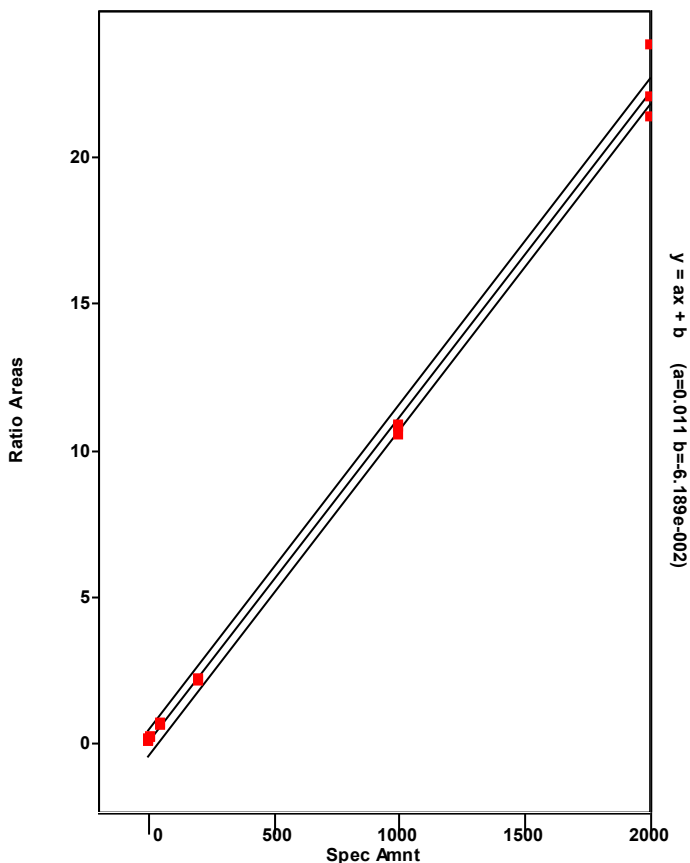
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	15713205
RM1 Area	20524781
RM1 Ratio (A)	1.3062
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

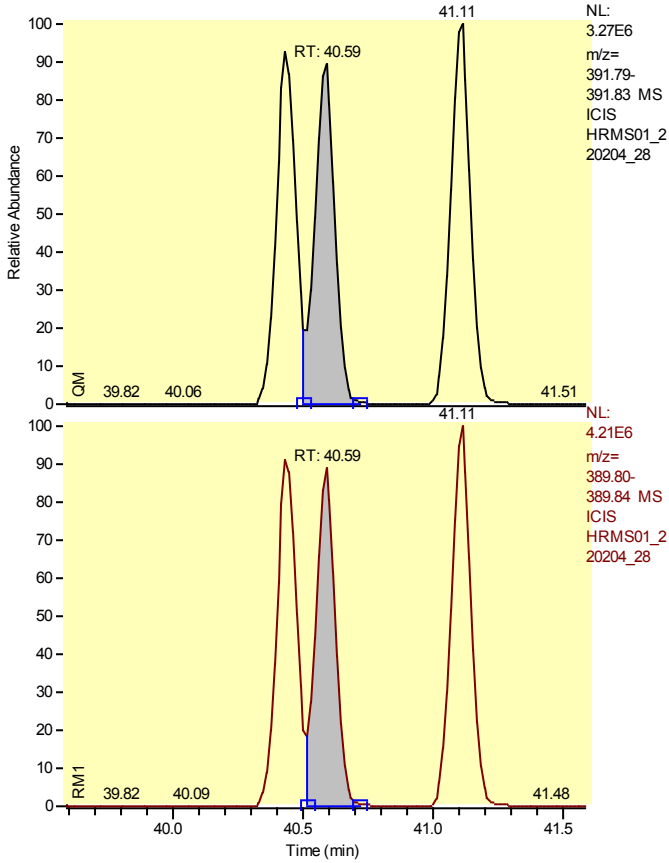
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.59 - 41.59 SM: 7G

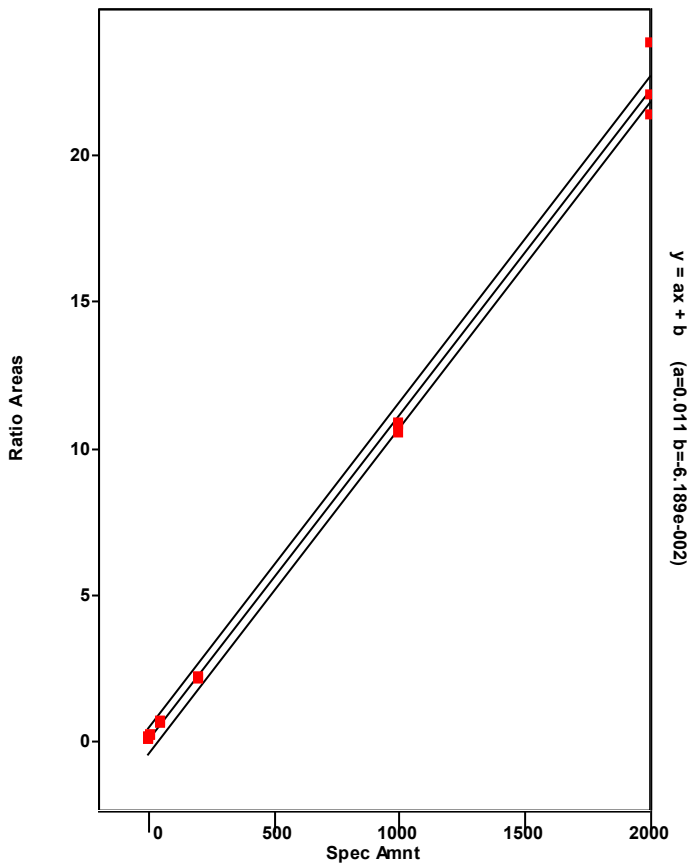


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	15751956
RM1 Area	19345744
RM1 Ratio (A)	1.2281
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

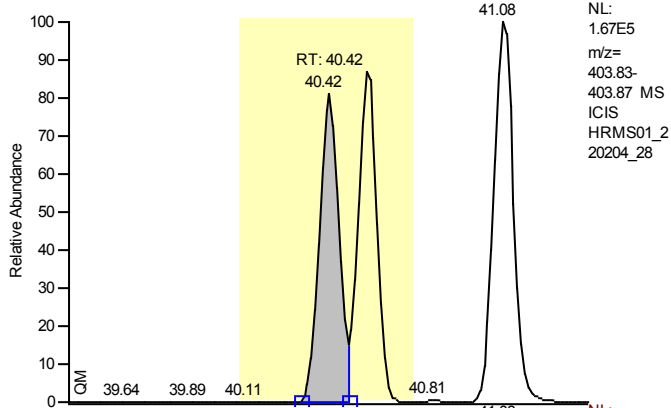
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



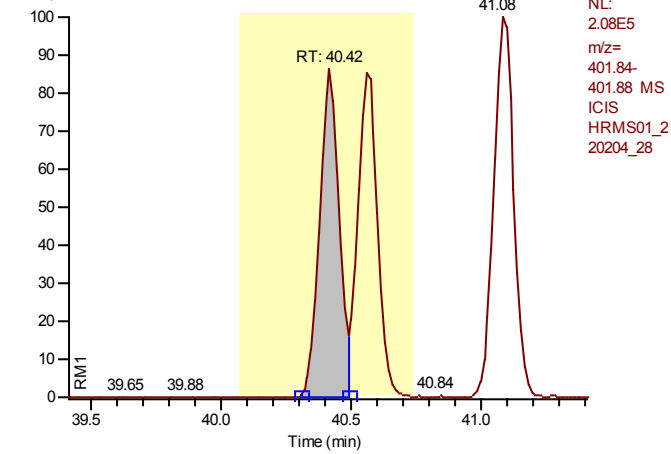
Chromatogram

Entry Parameters

RT: 39.41 - 41.41 SM: 7G

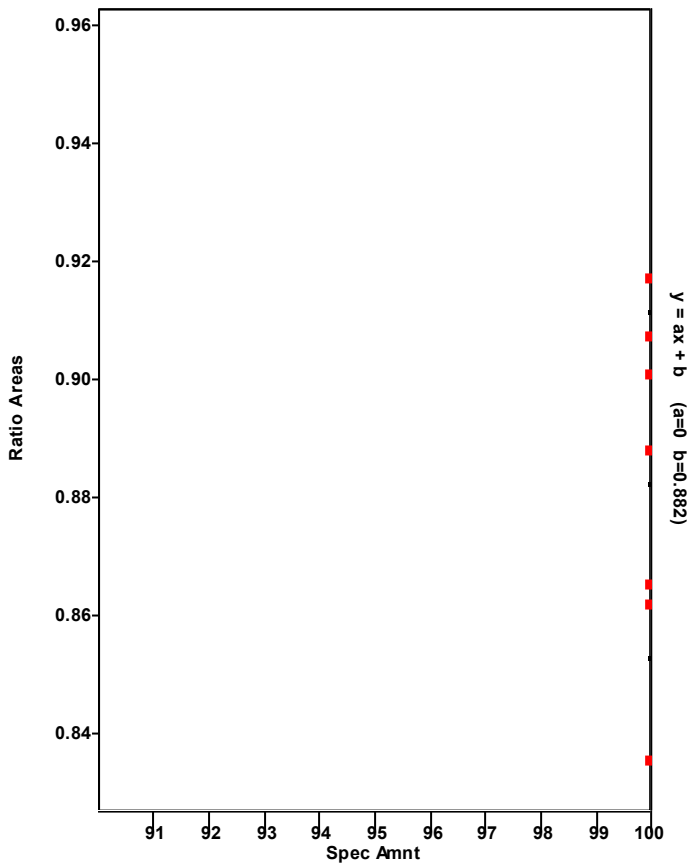


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	709825
RM1 Area	935567
RM1 Ratio (A)	1.3180
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

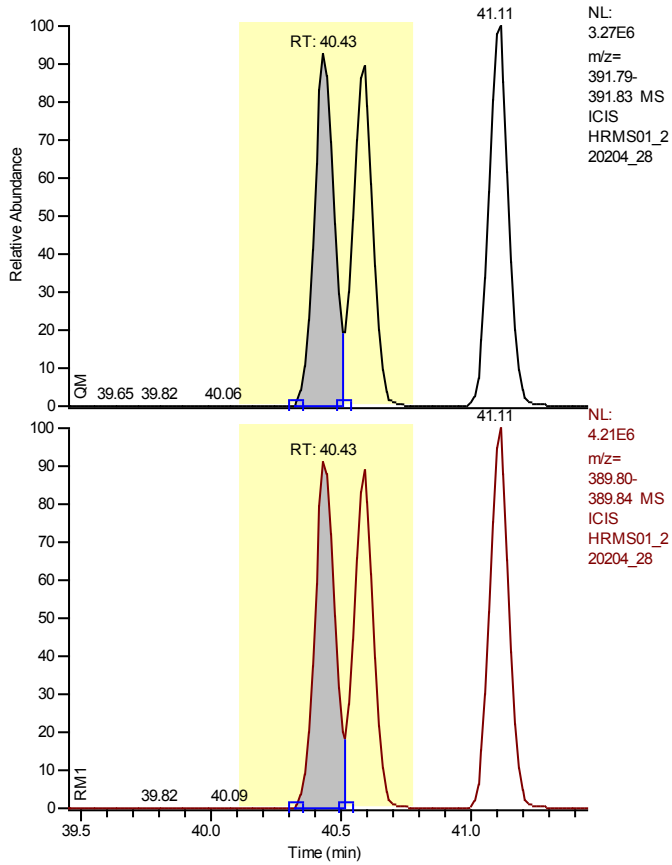
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.45 - 41.45 SM: 7G

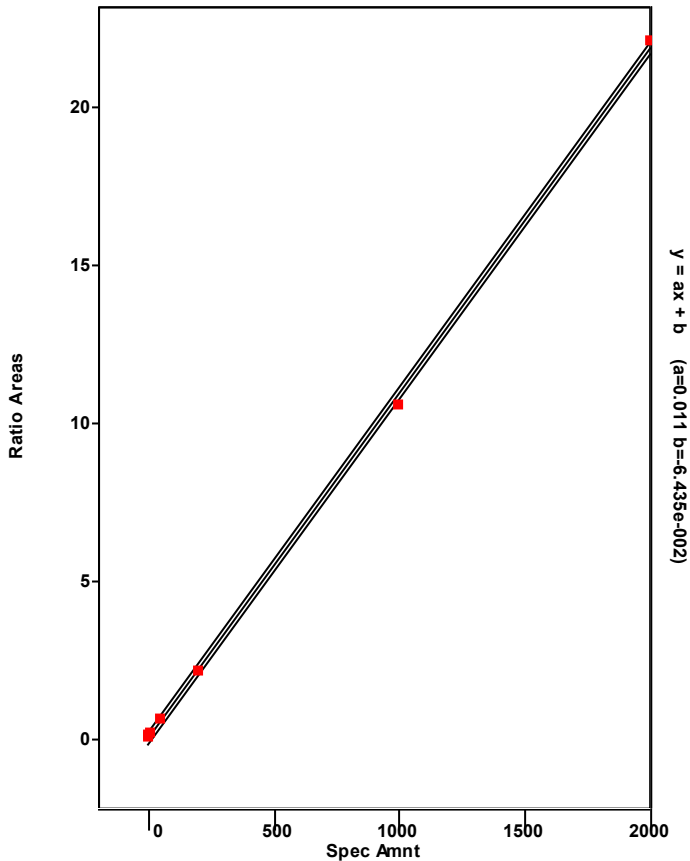


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	15713205
RM1 Area	20524781
RM1 Ratio (A)	1.3062
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

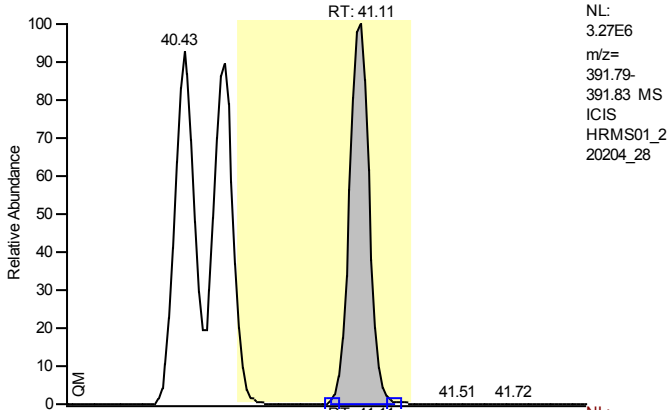
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

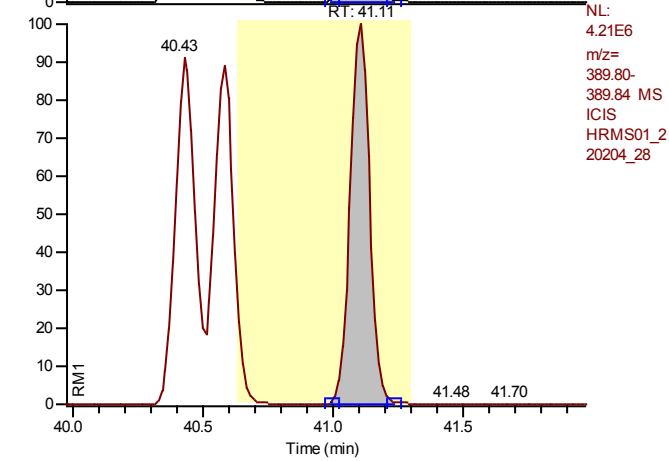
Entry Parameters

RT: 39.98 - 41.98 SM: 7G



NL:
 3.27E6
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20204_28

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	17228843
RM1 Area	21890313
RM1 Ratio (A)	1.2706
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

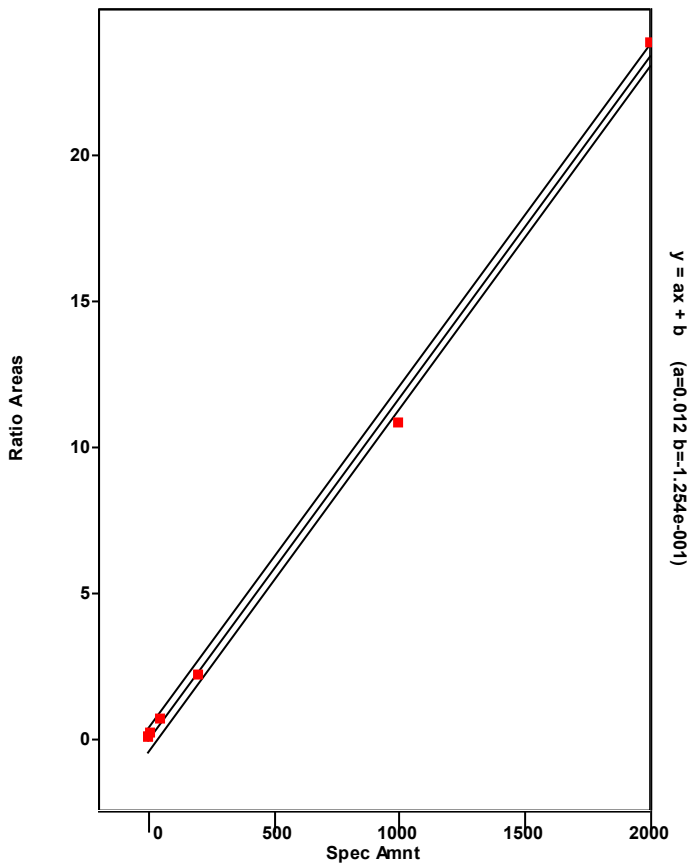


NL:
 4.21E6
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20204_28

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

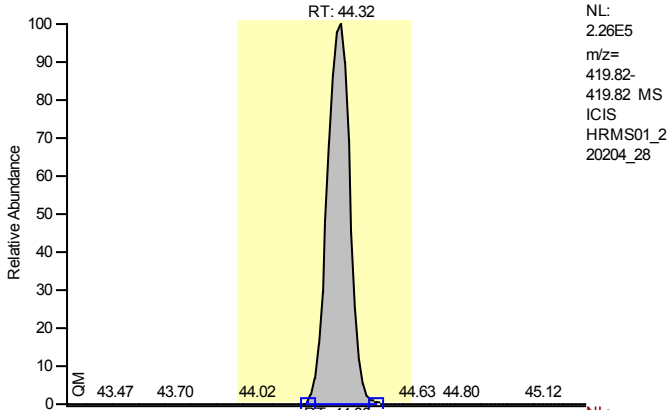
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



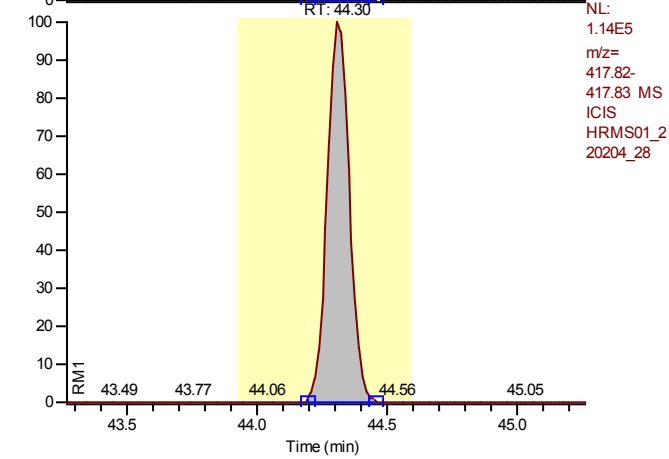
Chromatogram

Entry Parameters

RT: 43.26 - 45.26 SM: 7G

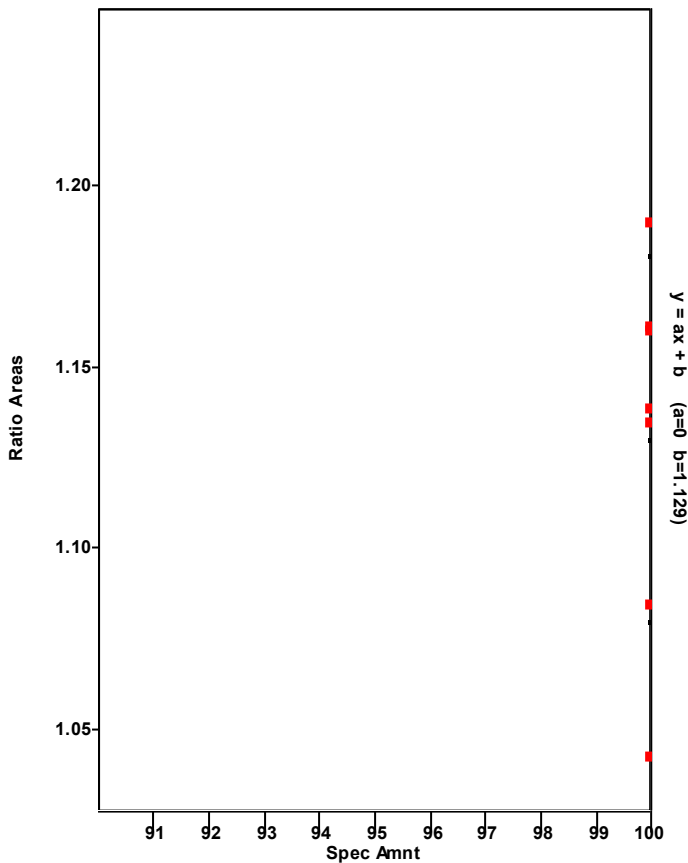


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1378882
RM1 Area	674650
RM1 Ratio (A)	0.4893
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

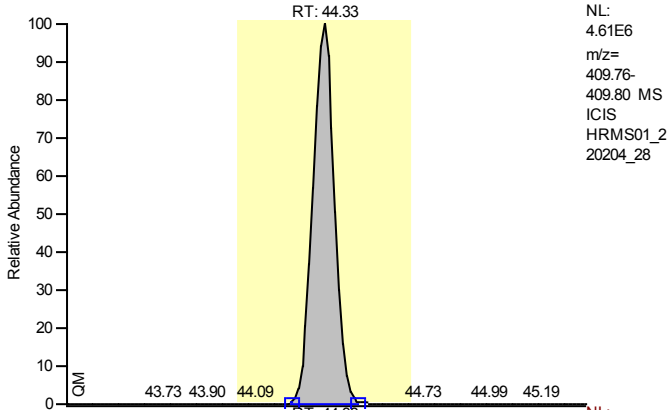
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



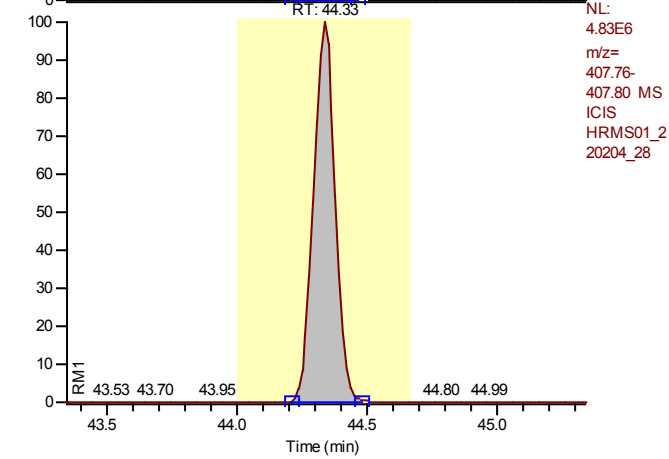
Chromatogram

Entry Parameters

RT: 43.34 - 45.34 SM: 7G



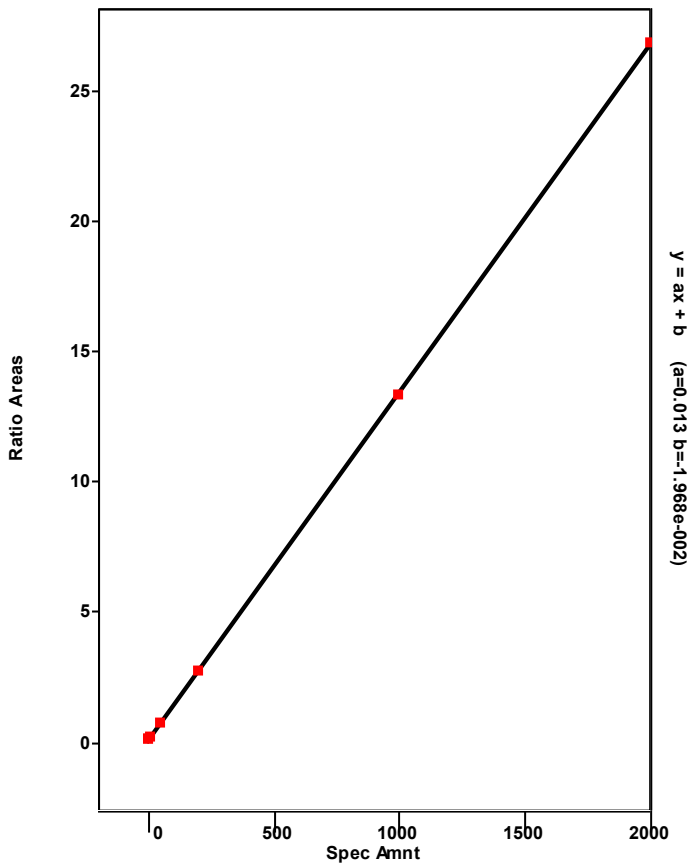
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	26892774
RM1 Area	28093897
RM1 Ratio (A)	1.0447
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

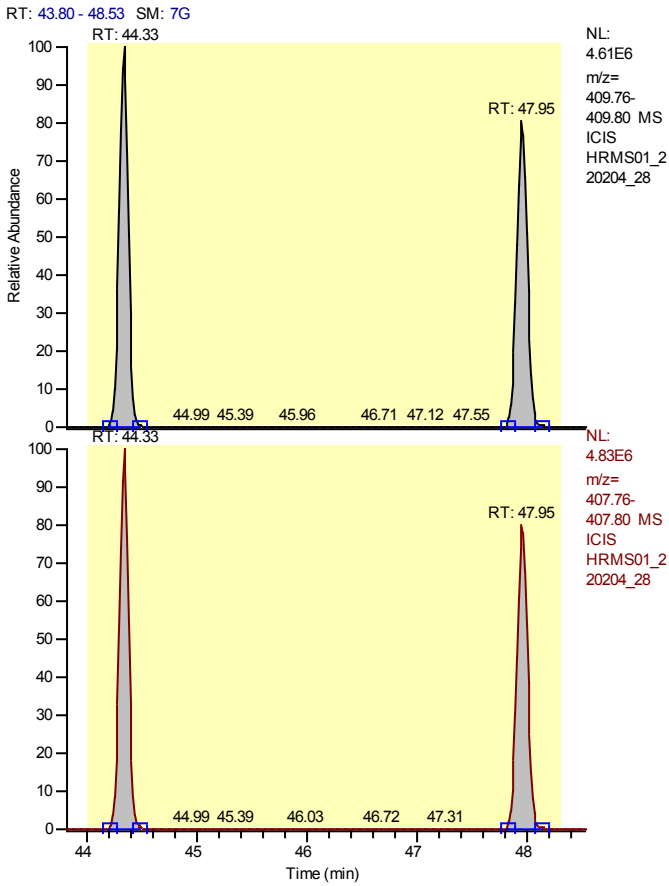
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

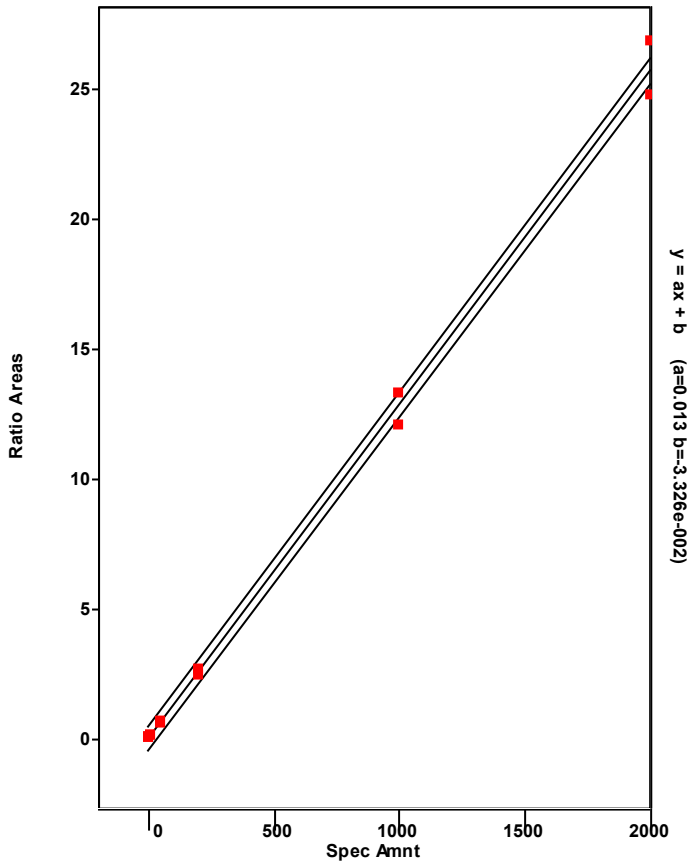


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	51649856
RM1 Area	54041427
RM1 Ratio (A)	1.0463
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

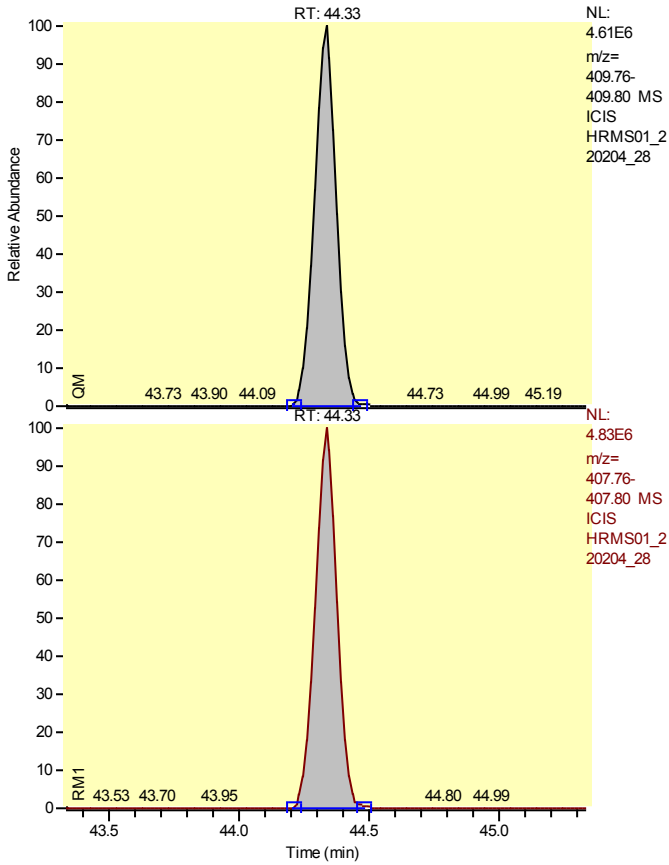
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.33 - 45.33 SM: 7G

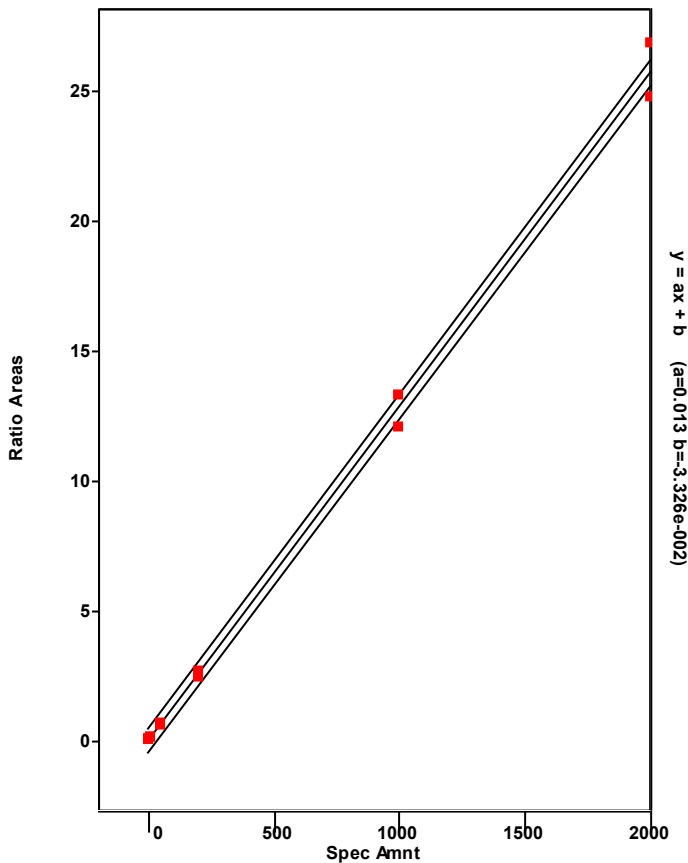


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	26892774
RM1 Area	28093897
RM1 Ratio (A)	1.0447
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

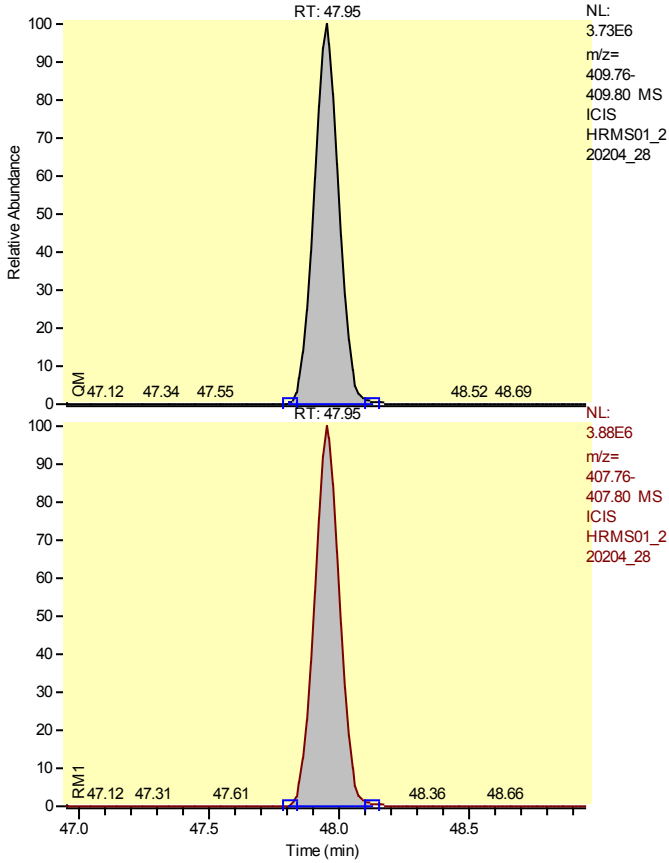
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.95 - 48.95 SM: 7G

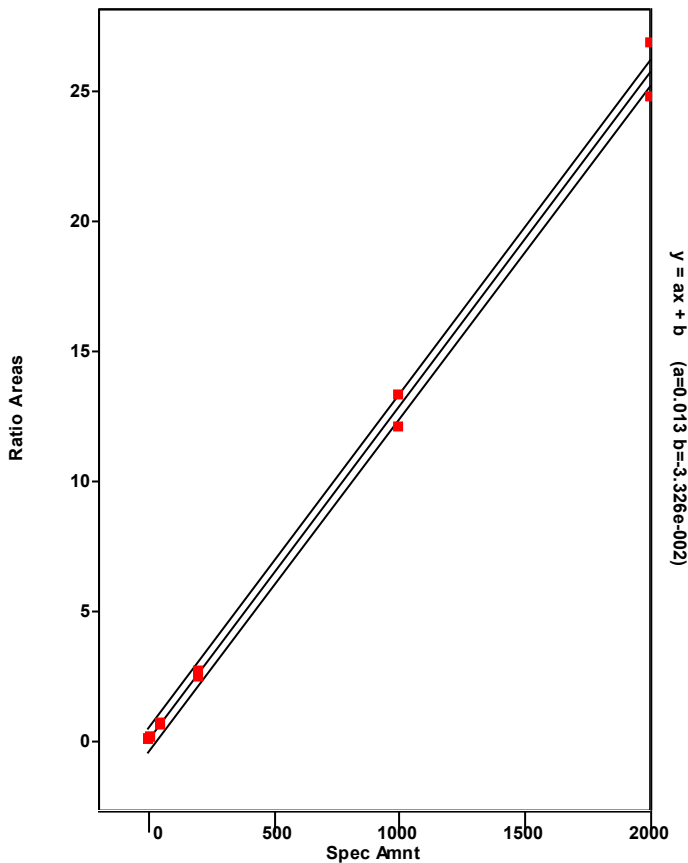


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	24757082
RM1 Area	25947530
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

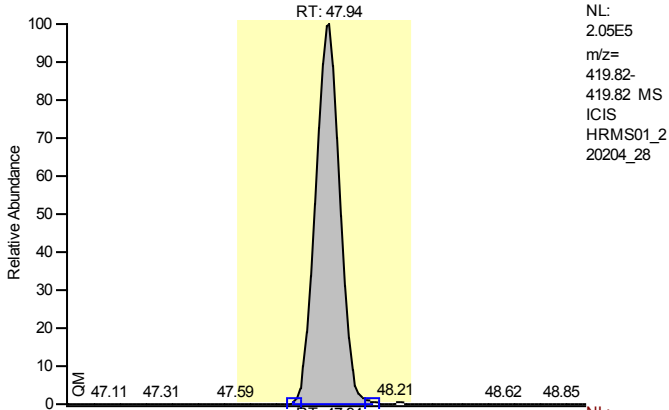
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



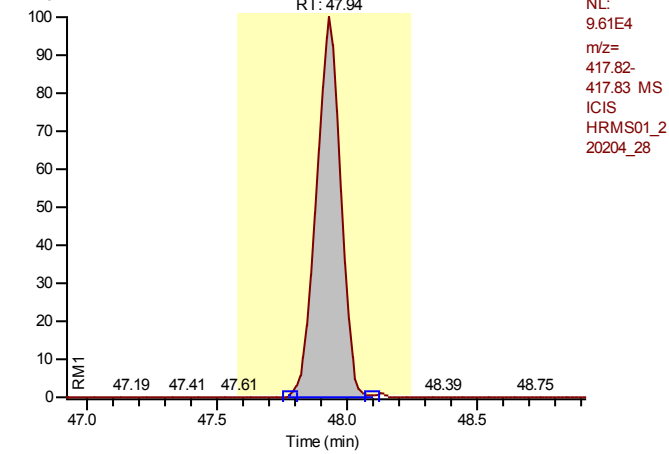
Chromatogram

Entry Parameters

RT: 46.92 - 48.92 SM: 7G

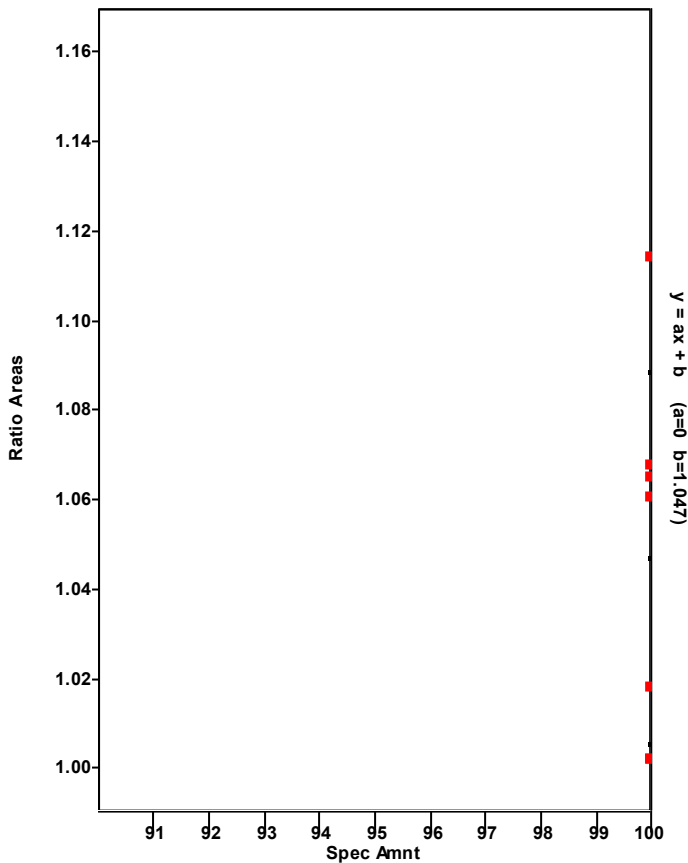


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1344554
RM1 Area	630054
RM1 Ratio (A)	0.4686
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

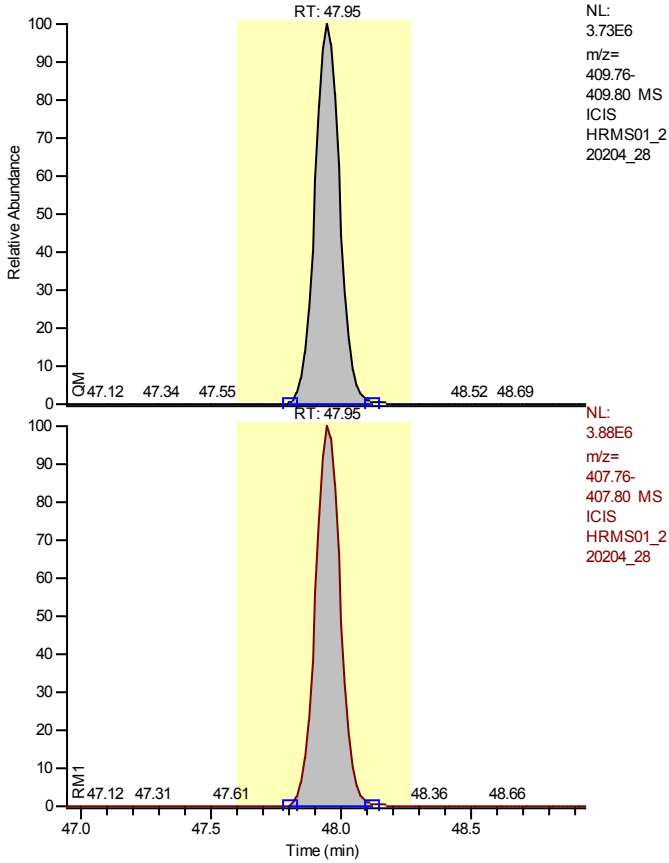
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.95 - 48.95 SM: 7G

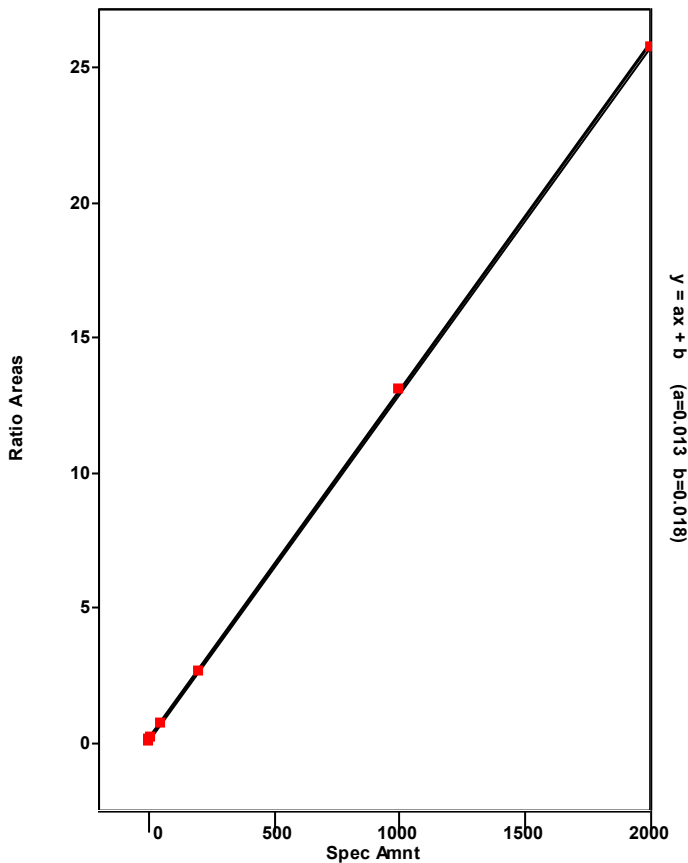


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	24757082
RM1 Area	25947530
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

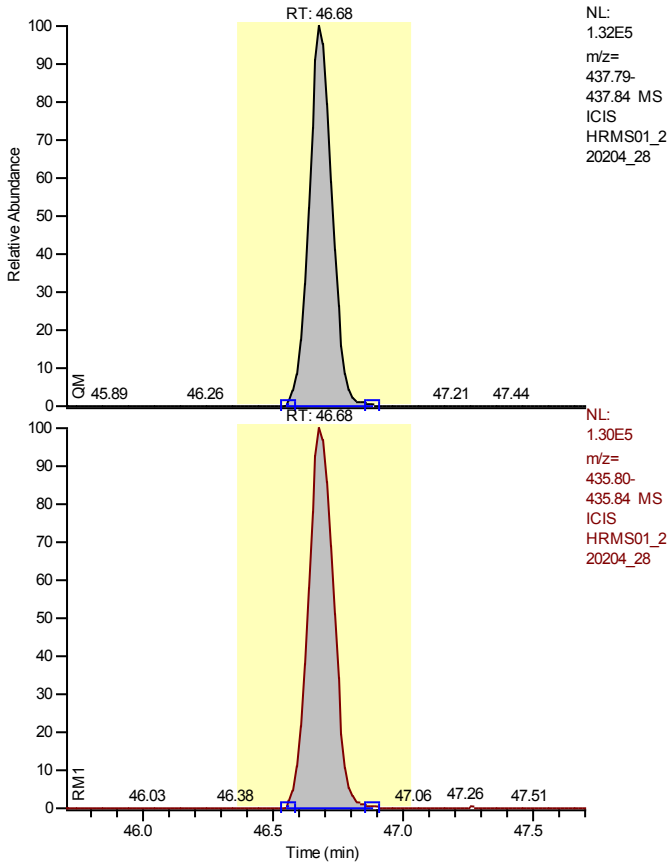
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

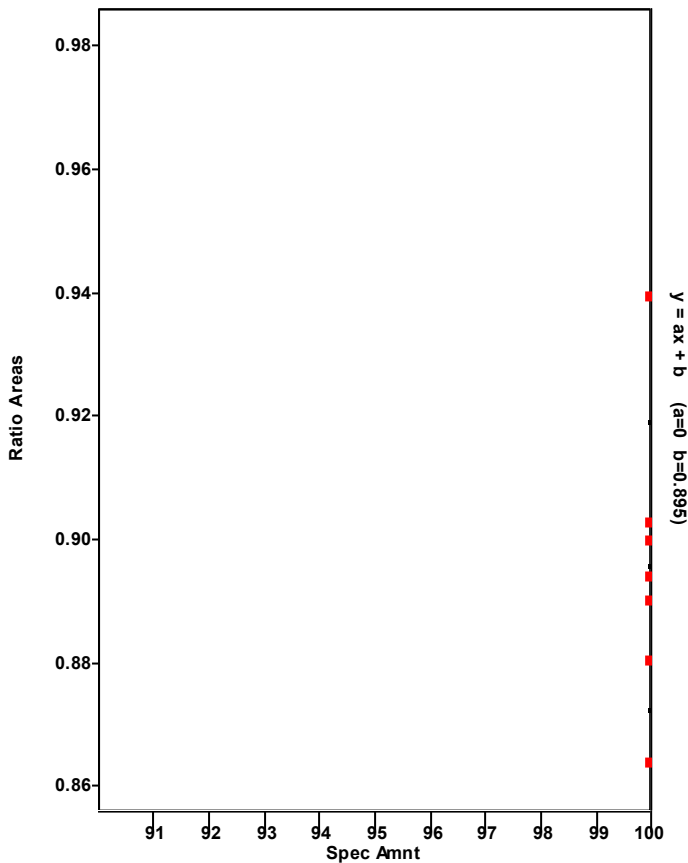
RT: 45.70 - 47.70 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	817091
RM1 Area	884673
RM1 Ratio (A)	1.0827
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

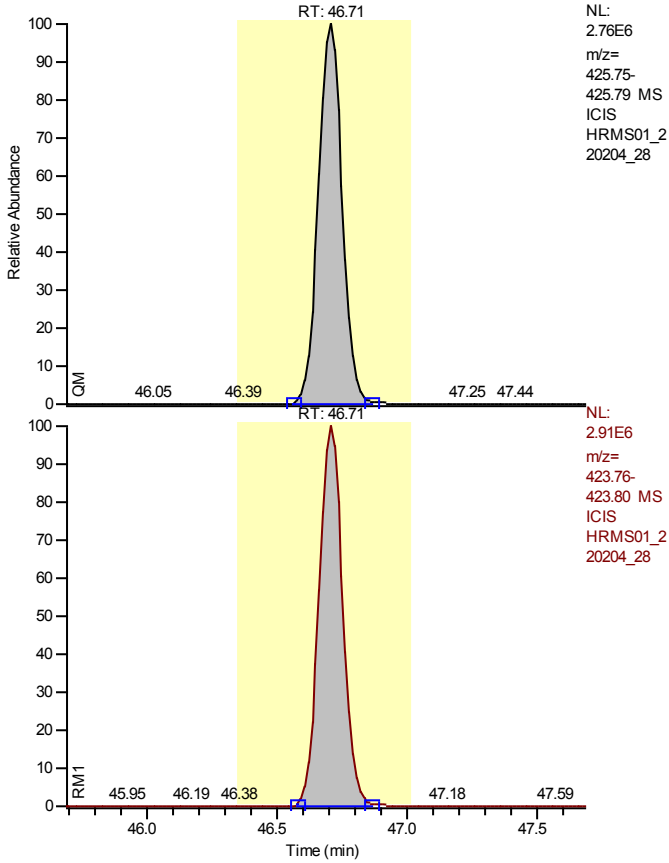
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.69 - 47.69 SM: 7G

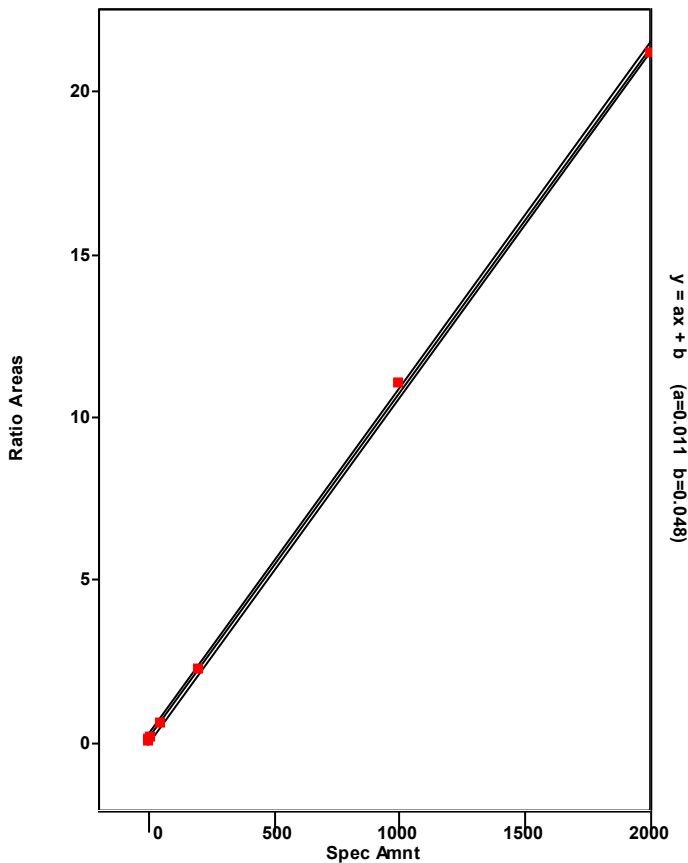


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	17535286
RM1 Area	18440122
RM1 Ratio (A)	1.0516
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

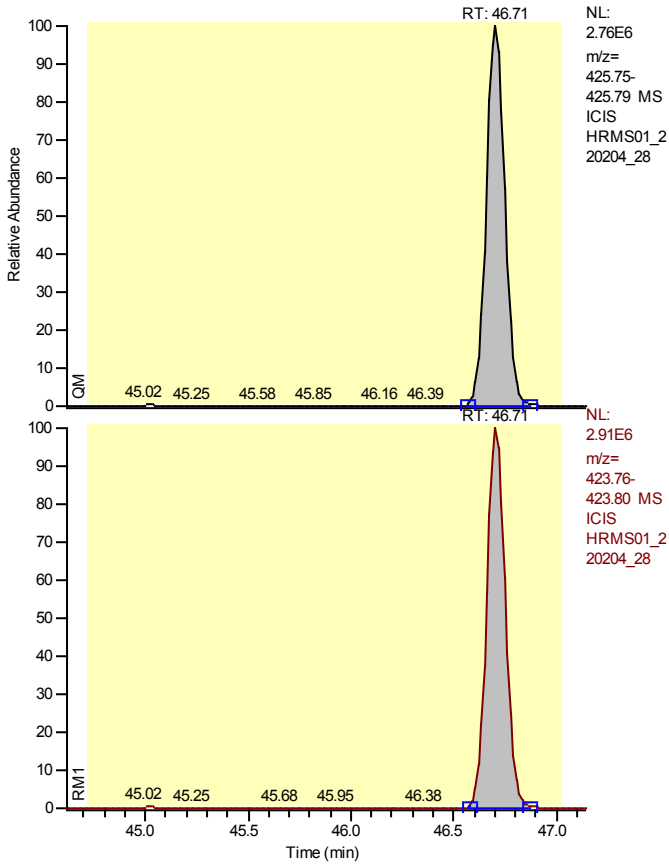
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.61 - 47.14 SM: 7G

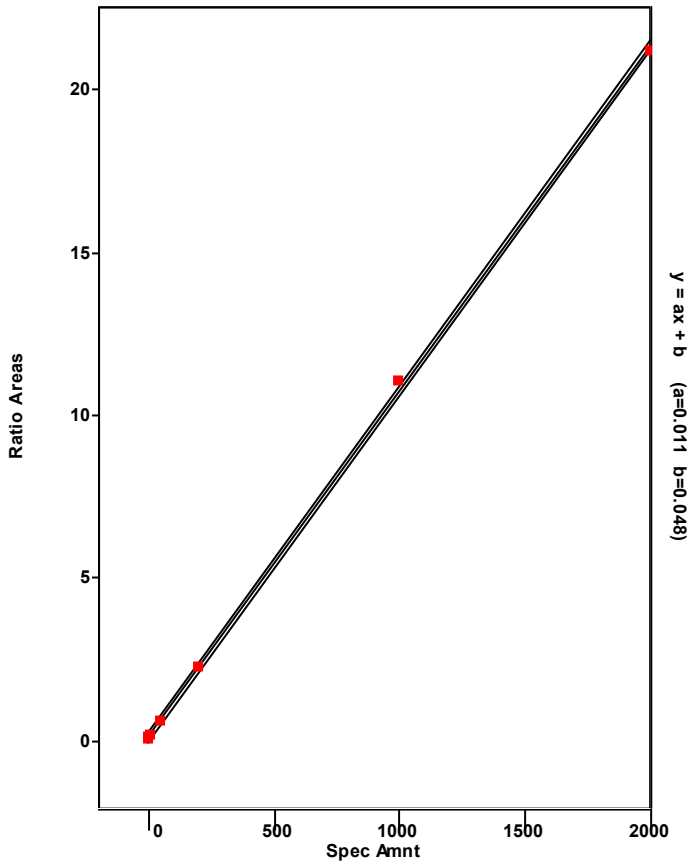


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	17535286
RM1 Area	18440122
RM1 Ratio (A)	1.0516
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

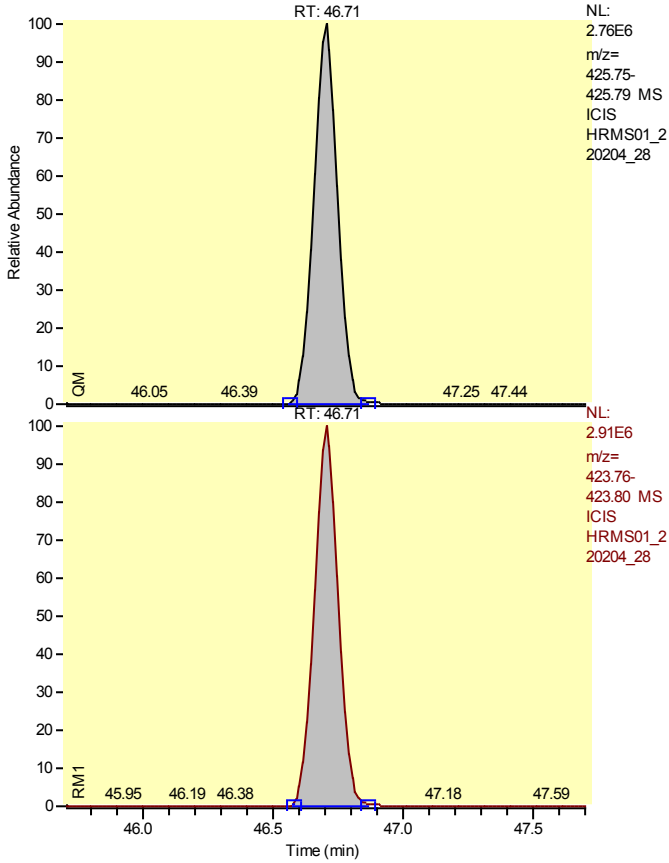
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.71 - 47.71 SM: 7G



NL:
2.76E6
m/z=
425.75-
425.79 MS
ICIS
HRMS01_2
20204_28

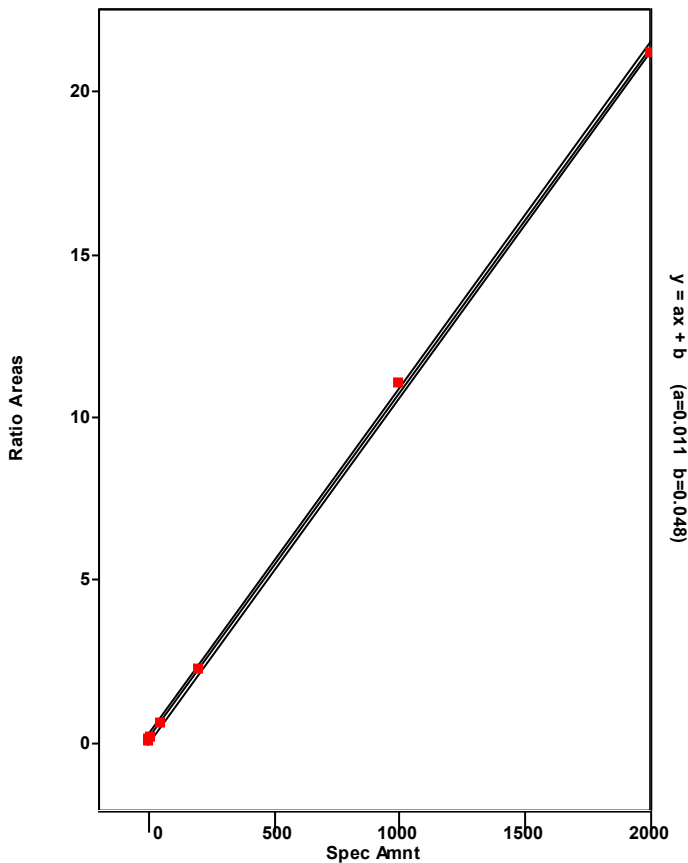
NL:
2.91E6
m/z=
423.76-
423.80 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	17535286
RM1 Area	18440122
RM1 Ratio (A)	1.0516
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

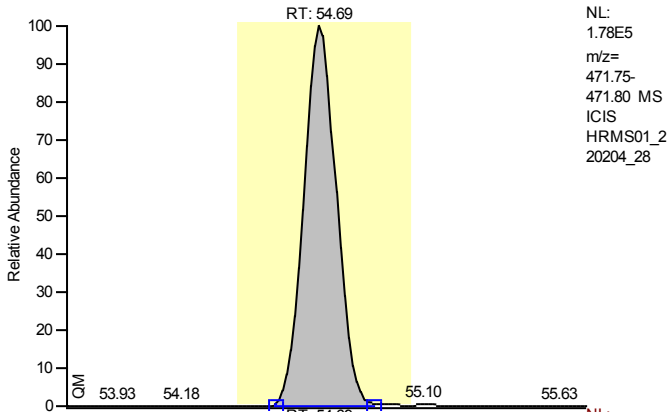
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



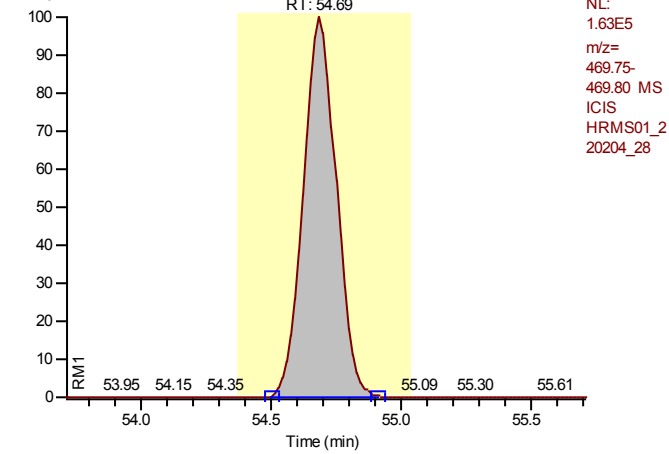
Chromatogram

Entry Parameters

RT: 53.71 - 55.71 SM: 7G



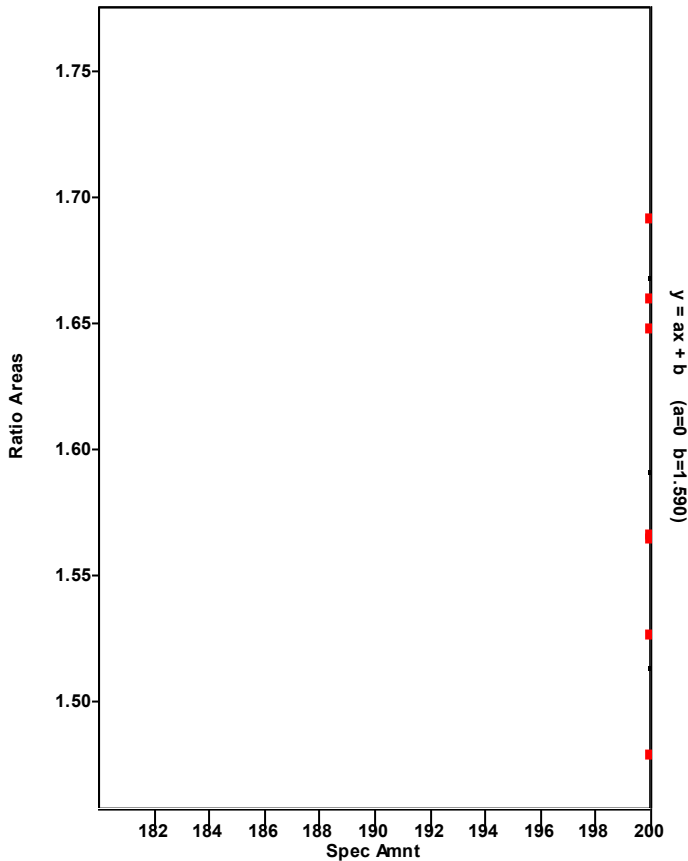
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1509706
RM1 Area	1402941
RM1 Ratio (A)	0.9293
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

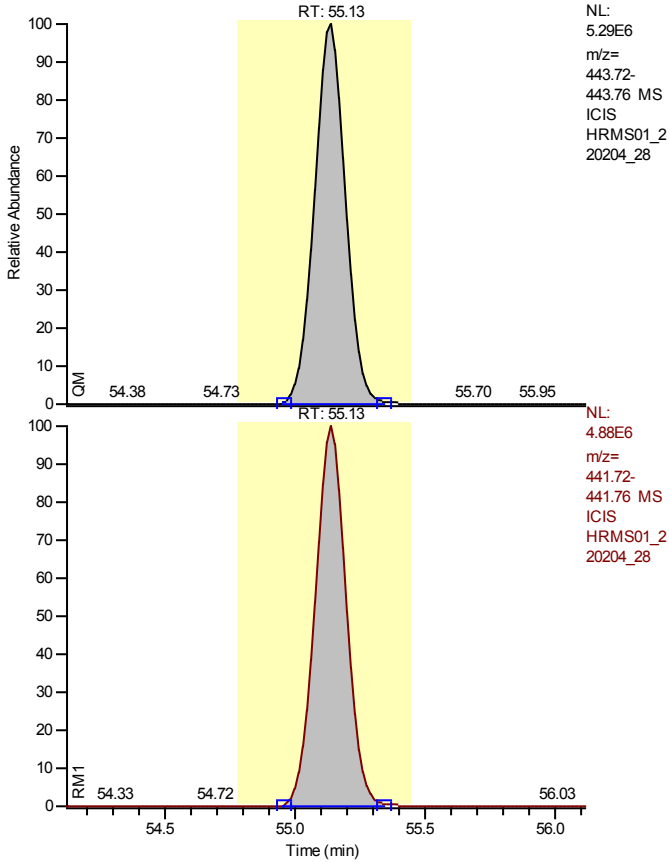
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.12- 56.12 SM: 7G



NL:
5.29E6
m/z=
443.72-
443.76 MS
ICIS
HRMS01_2
20204_28

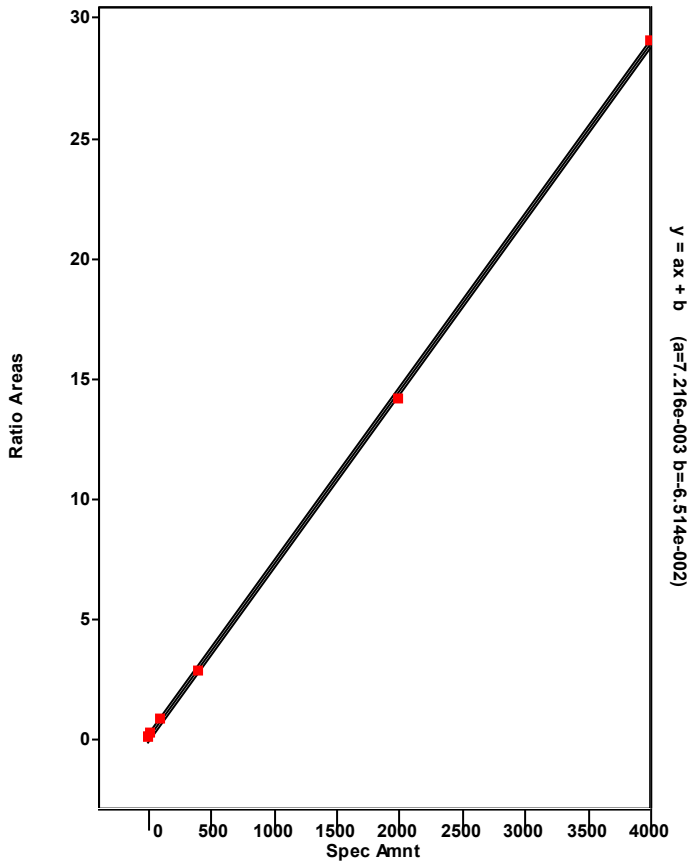
NL:
4.88E6
m/z=
441.72-
441.76 MS
ICIS
HRMS01_2
20204_28

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	43941123
RM1 Area	40412717
RM1 Ratio (A)	0.9197
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	4000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	100
TEQ (A)	1.2000
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

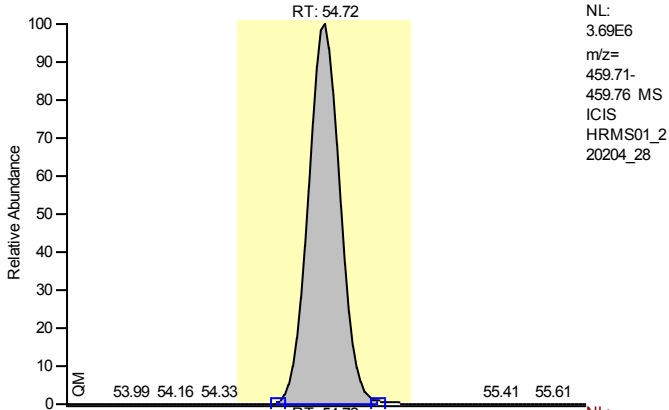
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



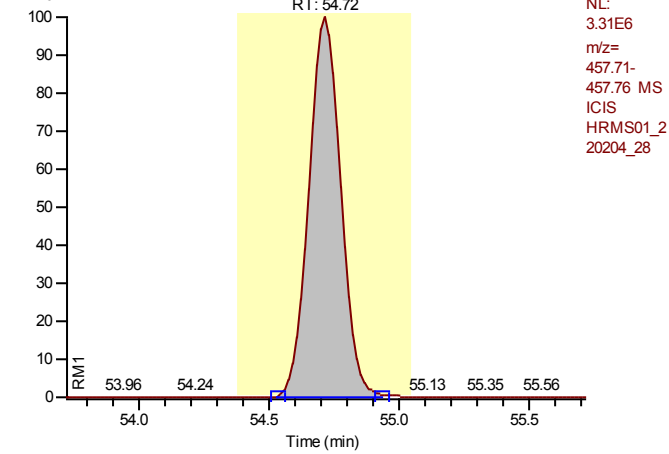
Chromatogram

Entry Parameters

RT: 53.72 - 55.72 SM: 7G



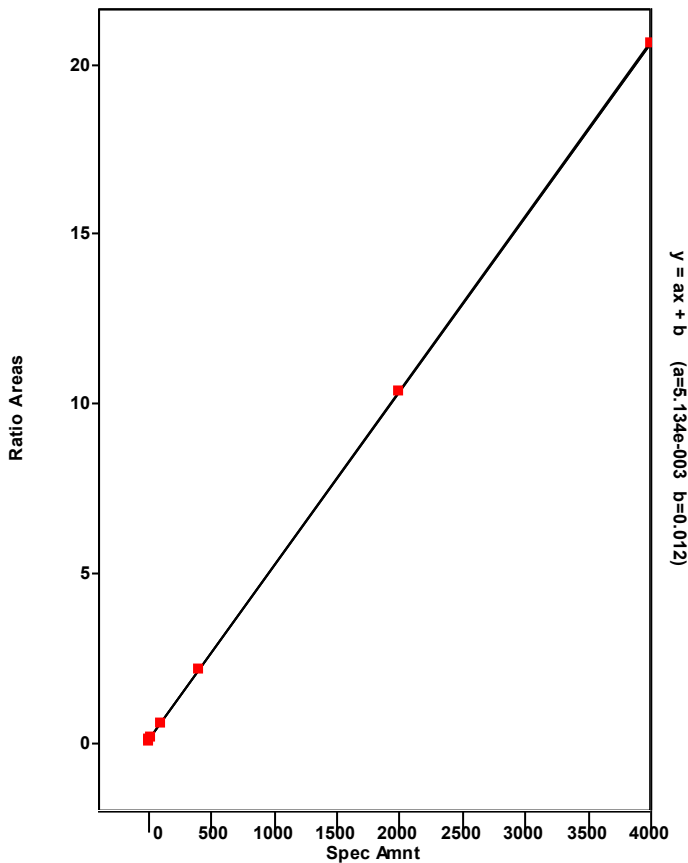
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	31525028
RM1 Area	28319782
RM1 Ratio (A)	0.8983
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	4000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	100
TEQ (A)	1.2000
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

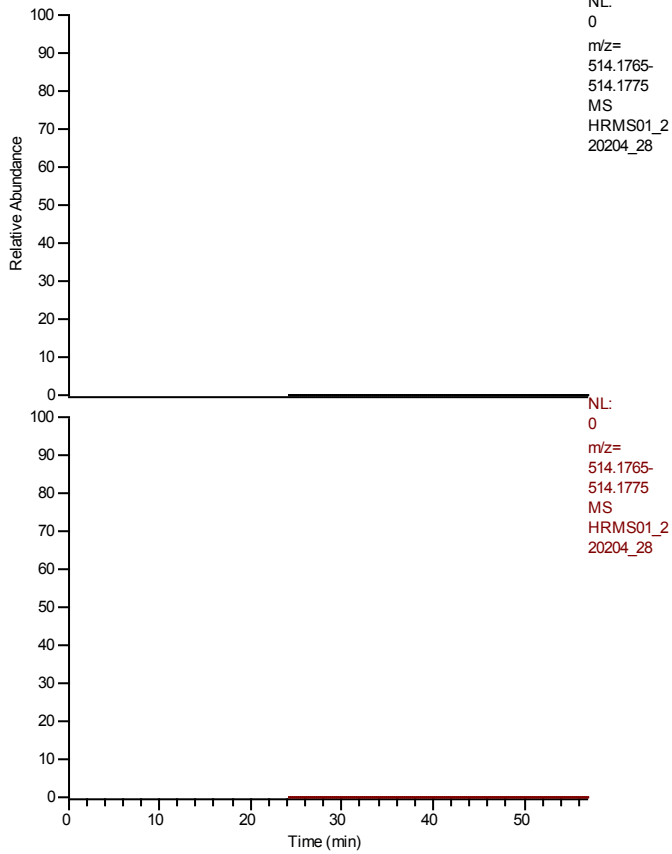
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.01 SM: 5G



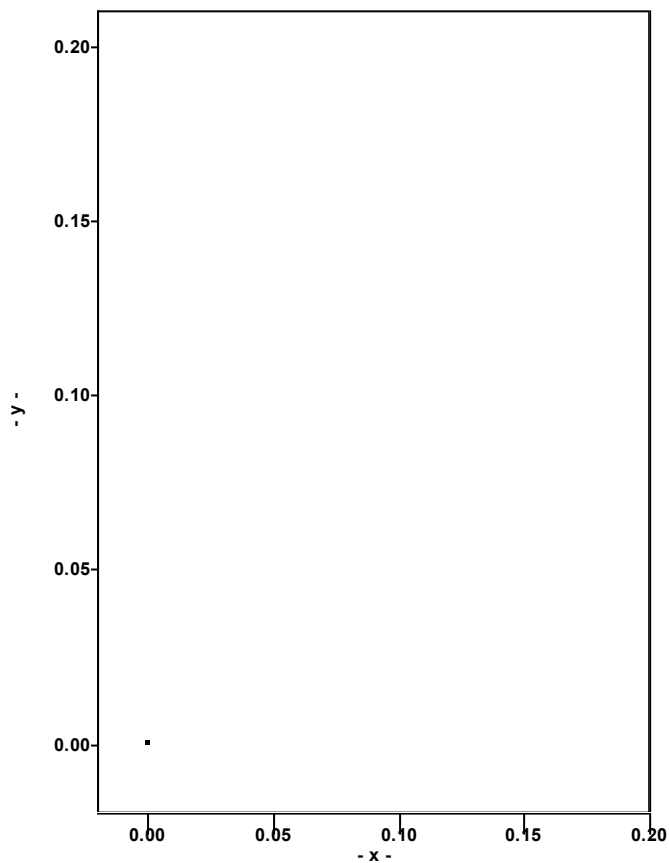
Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	349712492
RM1 Area	410732981
RM1 Ratio (A)	1.1745
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	34800.94
Percent Recovery (A)	---
TEQ (A)	4563.3405
Label2	

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_28

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20204_28

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 13:56
Number of Entries	59
Comment	HRMS191114F
Vial	15
Sample Name	CA1613STD-10
Sample ID	HRMS01A,PB,WG1601675,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_35_seq
Data	hrms01_220204_35
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

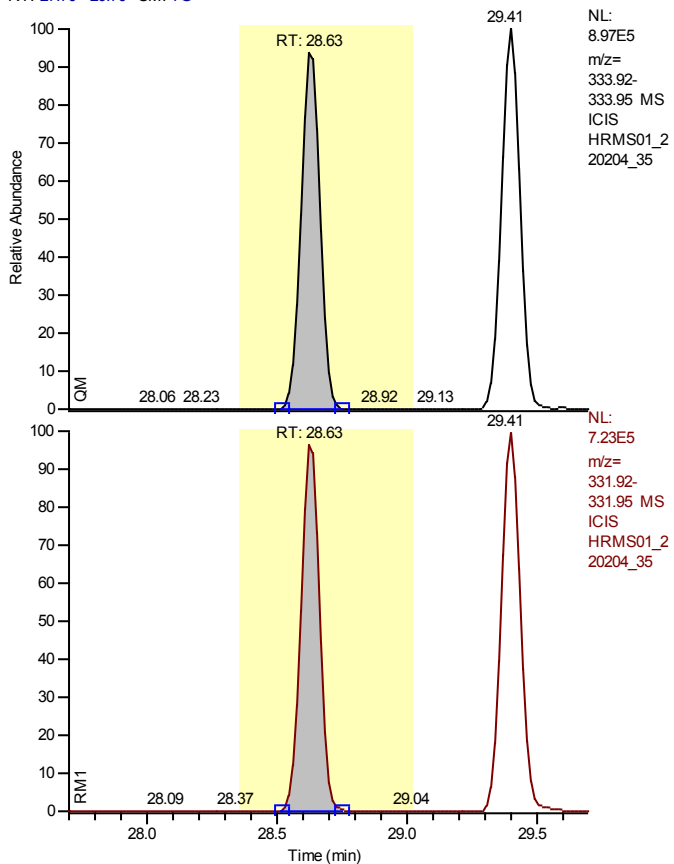
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		4258137	3449206	0.8100	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		6594863	5246588	0.7956	0.6500 - 0.8900	100.00	90.88	91	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	741195	576531	0.7778	0.6500 - 0.8900	10.00	10.80	108	1.0797
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	741195	576531	0.7778	0.6500 - 0.8900	10.00	10.80	108	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	741195	576531	0.7778	0.6500 - 0.8900	10.00	10.80	108	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		4441278	3647230	0.8212	0.6500 - 0.8900	100.00	88.38	88	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	549356	442891	0.8062	0.6500 - 0.8900	10.00	11.13	111	11.1297
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	549356	442891	0.8062	0.6500 - 0.8900	10.00	11.13	111	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	549356	442891	0.8062	0.6500 - 0.8900	10.00	11.13	111	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		3908741	6066175	1.5520	1.3200 - 1.7800	100.00	93.68	94	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	2167343	3406441	1.5717	1.3200 - 1.7800	50.00	55.54	111	1.6663
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	4347106	6811479	1.5669	1.3200 - 1.7800	50.00	105.59	211	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	2179762	3405038	1.5621	1.3200 - 1.7800	50.00	52.85	106	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	2167343	3406441	1.5717	1.3200 - 1.7800	50.00	52.74	105	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		3780684	6182901	1.6354	1.3200 - 1.7800	100.00	93.85	94	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	2179762	3405038	1.5621	1.3200 - 1.7800	50.00	50.15	100	15.0453
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		2712420	4158706	1.5332	1.3200 - 1.7800	100.00	95.39	95	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	1404578	2294967	1.6339	1.3200 - 1.7800	50.00	53.99	108	53.9903
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	1404578	2294967	1.6339	1.3200 - 1.7800	50.00	53.99	108	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	1404578	2294967	1.6339	1.3200 - 1.7800	50.00	53.99	108	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		975953	975953	1.0000	0.8500 - 1.1500	10.00	10.51	105	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		3609024	4638627	1.2853	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		5806625	3053202	0.5258	0.4300 - 0.5900	100.00	93.38	93	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	2744707	3336071	1.2155	1.0500 - 1.4300	50.00	55.05	110	5.5046
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	11187281	13759865	1.2300	1.0500 - 1.4300	50.00	221.92	444	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	2888139	3523715	1.2201	1.0500 - 1.4300	50.00	57.04	114	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	2744707	3336071	1.2155	1.0500 - 1.4300	50.00	54.09	108	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	2778587	3467833	1.2481	1.0500 - 1.4300	50.00	55.57	111	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	2775848	3432246	1.2365	1.0500 - 1.4300	50.00	55.23	110	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		6595735	3594948	0.5450	0.4300 - 0.5900	100.00	97.18	97	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	2778587	3467833	1.2481	1.0500 - 1.4300	50.00	51.62	103	5.1624
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		6595438	3534991	0.5360	0.4300 - 0.5900	100.00	99.95	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	2888139	3523715	1.2201	1.0500 - 1.4300	50.00	51.24	102	5.1240
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		6157027	3423046	0.5560	0.4300 - 0.5900	100.00	98.58	99	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	2775848	3432246	1.2365	1.0500 - 1.4300	50.00	55.43	111	5.5427
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		3271222	3978430	1.2162	1.0500 - 1.4300	100.00	99.70	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	1906893	2374257	1.2451	1.0500 - 1.4300	50.00	53.89	108	5.3893
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	5807333	7273809	1.2525	1.0500 - 1.4300	50.00	161.85	324	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	2059371	2582233	1.2539	1.0500 - 1.4300	50.00	57.43	115	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	1906893	2374257	1.2451	1.0500 - 1.4300	50.00	52.97	106	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	1841069	2317319	1.2587	1.0500 - 1.4300	50.00	51.45	103	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		3271222	3978430	1.2162	1.0500 - 1.4300	100.00	99.70	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	1906893	2374257	1.2451	1.0500 - 1.4300	50.00	53.89	108	5.3893
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	2059371	2582233	1.2539	1.0500 - 1.4300	50.00	55.41	111	5.5410
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		5876580	2737485	0.4658	0.3700 - 0.5100	100.00	92.49	92	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	3176045	3306762	1.0412	0.8800 - 1.2000	50.00	55.78	112	0.5578
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	6214775	6481415	1.0429	0.8800 - 1.2000	50.00	114.73	229	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	3191077	3325413	1.0421	0.8800 - 1.2000	50.00	58.89	118	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	3023698	3156003	1.0438	0.8800 - 1.2000	50.00	55.84	112	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		5663547	2579203	0.4554	0.3700 - 0.5100	100.00	95.50	95	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	3023698	3156003	1.0438	0.8800 - 1.2000	50.00	56.96	114	0.5696
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		3743784	3956040	1.0567	0.8800 - 1.2000	100.00	104.28	104	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	2096960	2224240	1.0607	0.8800 - 1.2000	50.00	50.64	101	0.5064
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	2096960	2224240	1.0607	0.8800 - 1.2000	50.00	50.64	101	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	2096960	2224240	1.0607	0.8800 - 1.2000	50.00	50.64	101	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		6519465	5767684	0.8847	0.7600 - 1.0200	200.00	187.44	94	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	5111140	4708767	0.9213	0.7600 - 1.0200	100.00	113.56	114	0.0341
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	3945608	3536044	0.8962	0.7600 - 1.0200	100.00	114.92	115	0.0345
59	overall TEQ	overall TEQ test		41456124	48148296	1.1614	0.0000 - 0.0000	0.00	950.01	---	122.2672

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

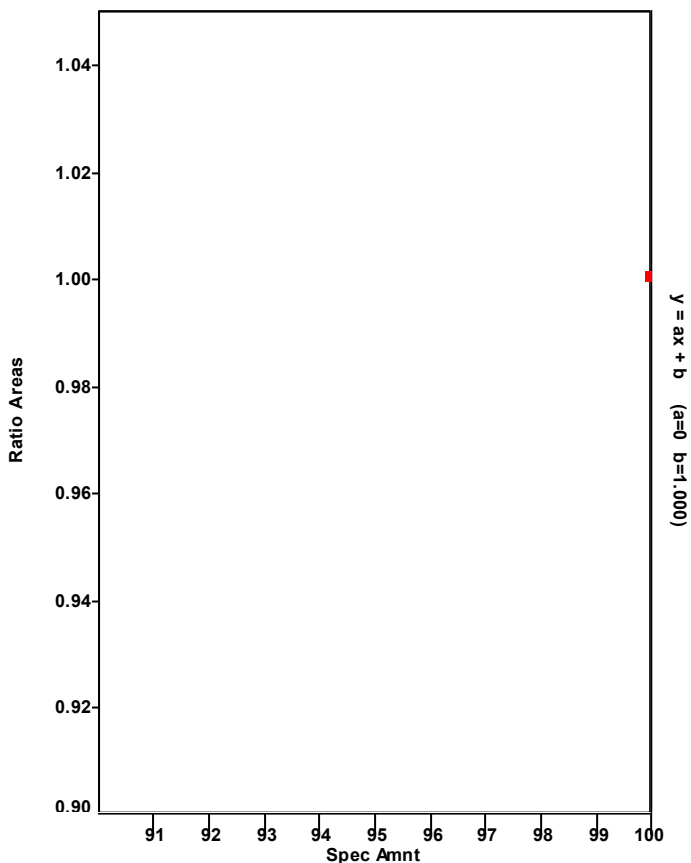


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	4258137
RM1 Area	3449206
RM1 Ratio (A)	0.8100
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

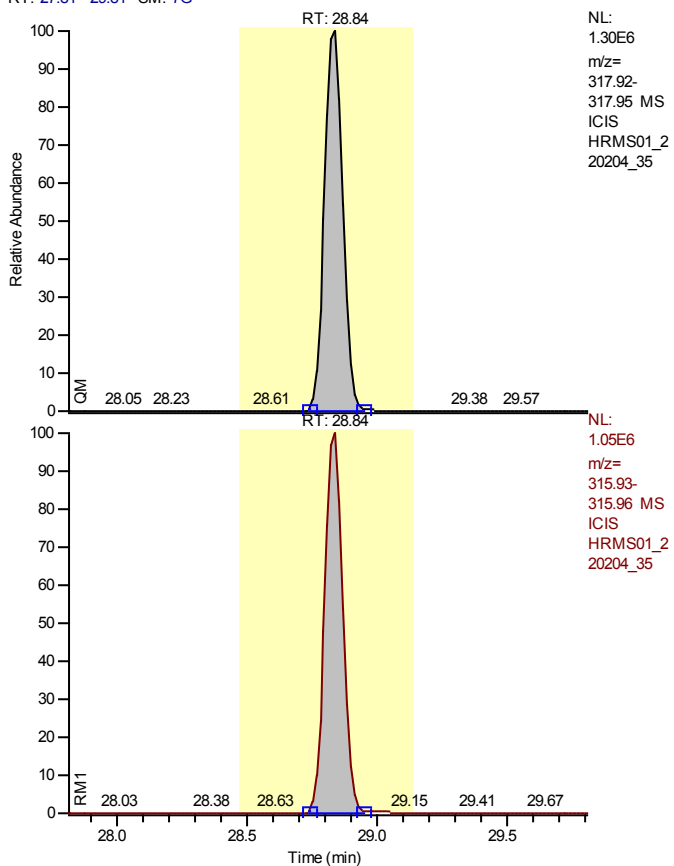
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.81 - 29.81 SM: 7G



NL:
 1.30E6
 m/z=
 317.92-
 317.95 MS
 ICIS
 HRMS01_2
 20204_35

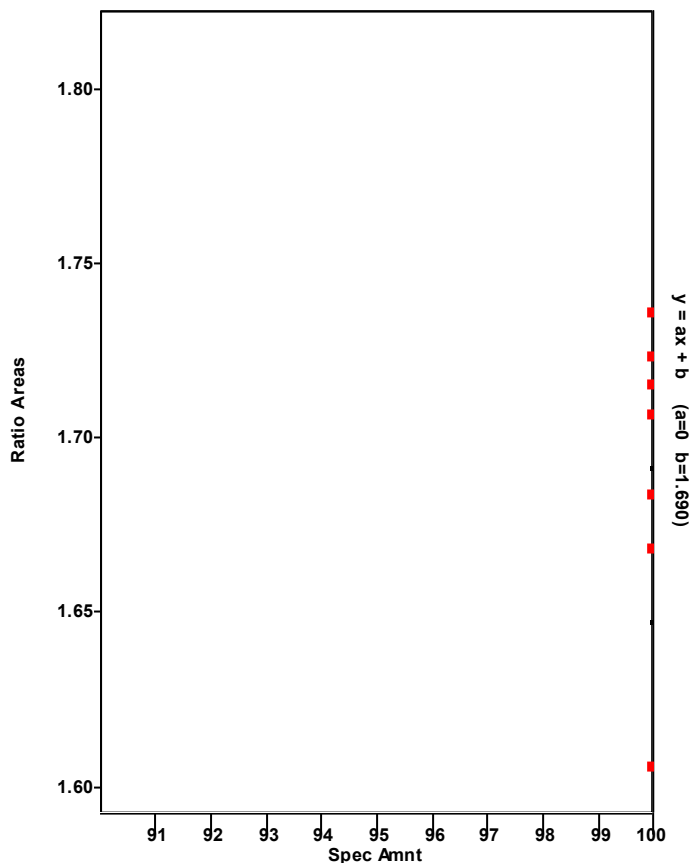
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	6594863
RM1 Area	5246588
RM1 Ratio (A)	0.7956
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	90.88
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

NL:
 1.05E6
 m/z=
 315.93-
 315.96 MS
 ICIS
 HRMS01_2
 20204_35

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

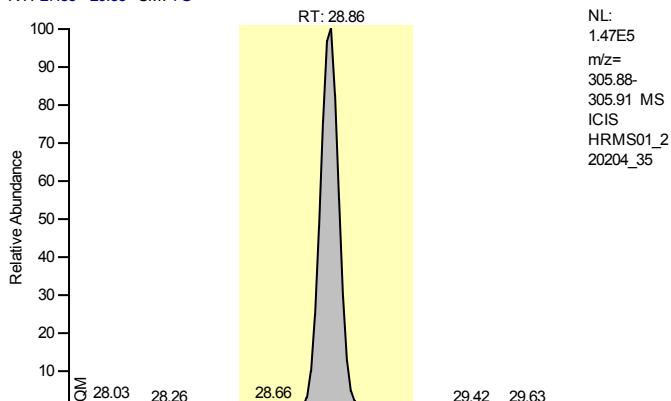
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

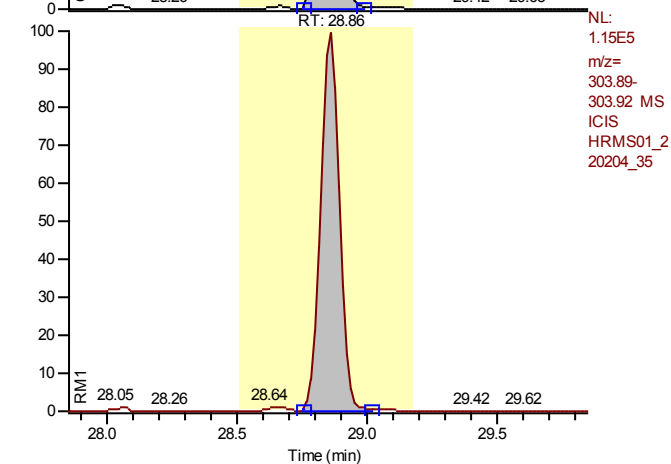
Entry Parameters

RT: 27.85 - 29.85 SM: 7G



NL: 1.47E5
 m/z= 305.88-305.91 MS
 ICIS HRMS01_2 20204_35

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	741195
RM1 Area	576531
RM1 Ratio (A)	0.7778
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.80
Percent Recovery (A)	108
TEQ (A)	1.0797
Label2	

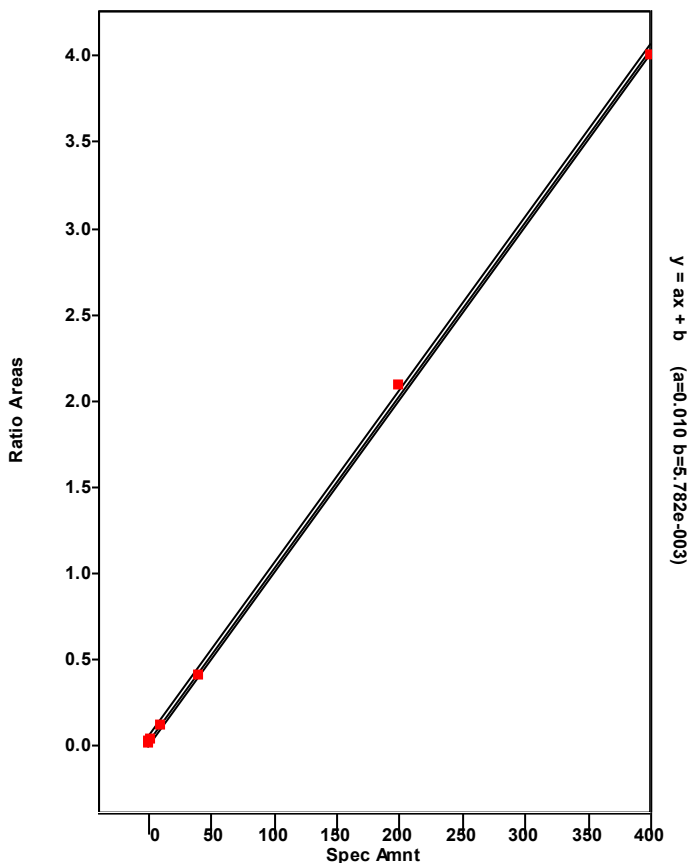


NL: 1.15E5
 m/z= 303.89-303.92 MS
 ICIS HRMS01_2 20204_35

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

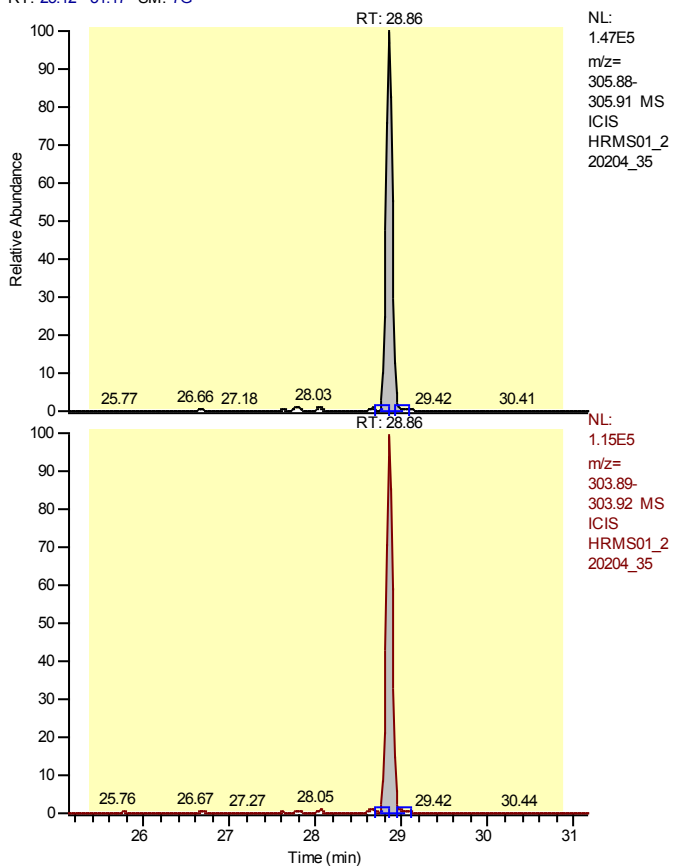
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.12- 31.17 SM: 7G

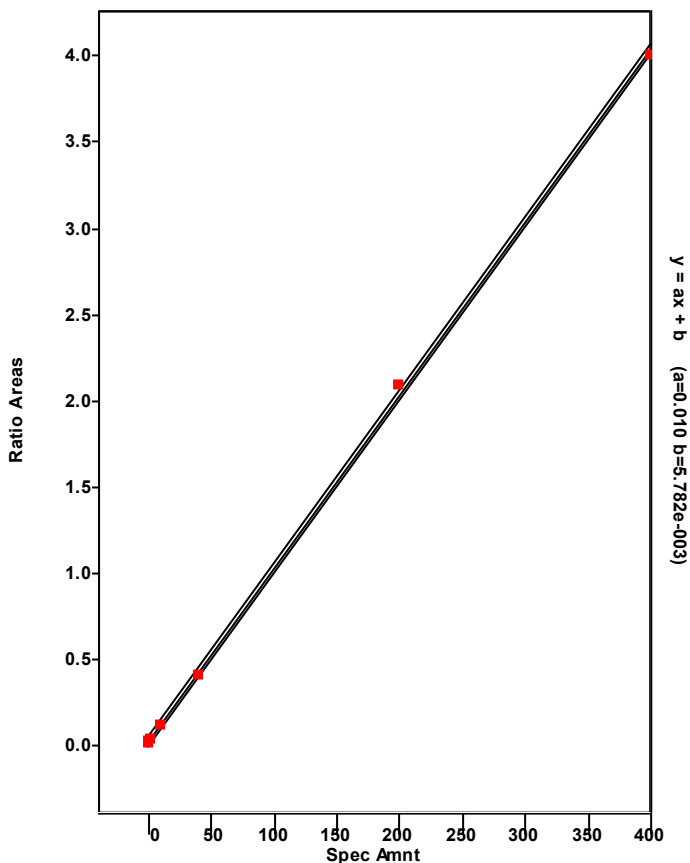


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	741195
RM1 Area	576531
RM1 Ratio (A)	0.7778
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.80
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

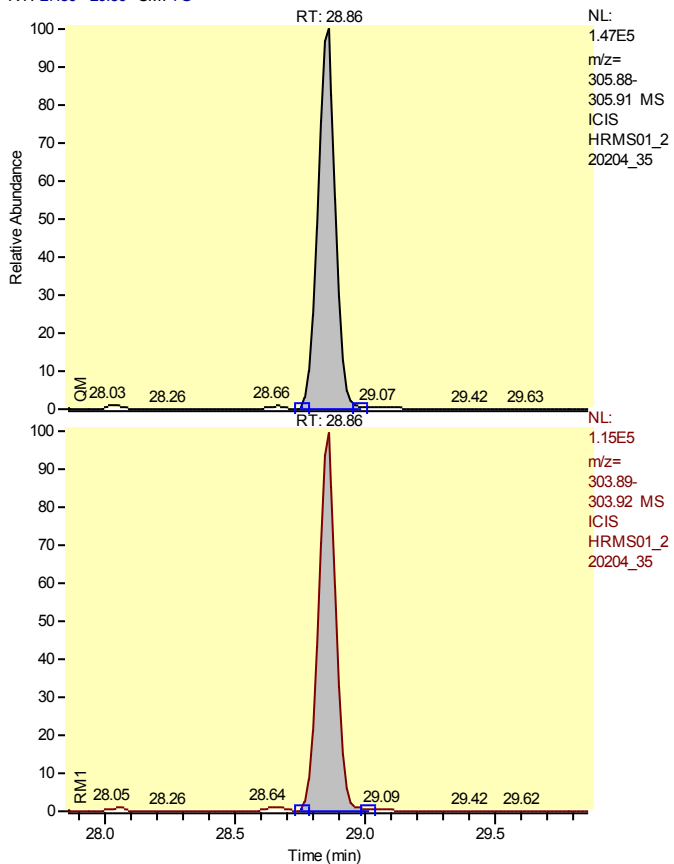
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.86 - 29.86 SM: 7G

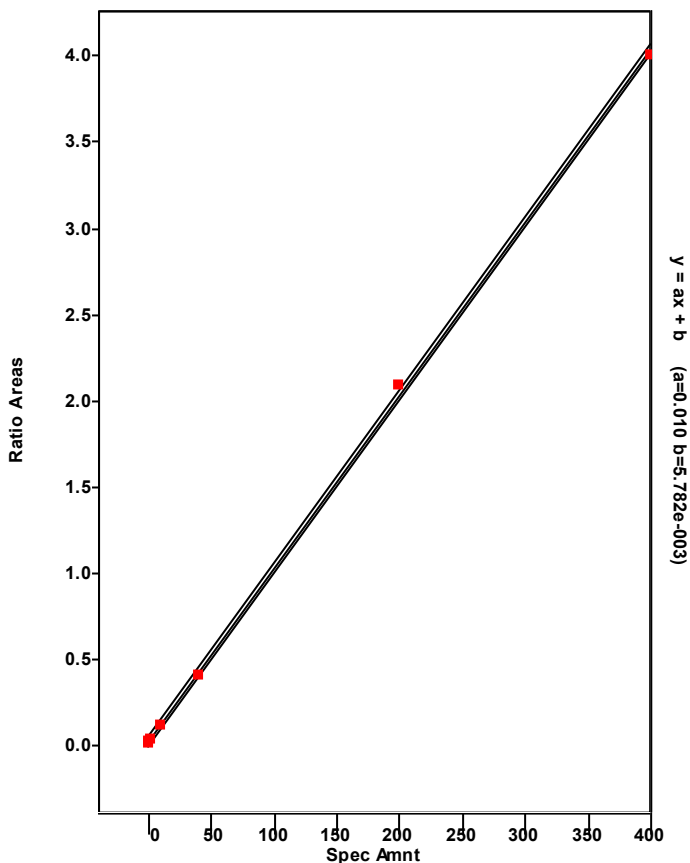


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	741195
RM1 Area	576531
RM1 Ratio (A)	0.7778
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.80
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

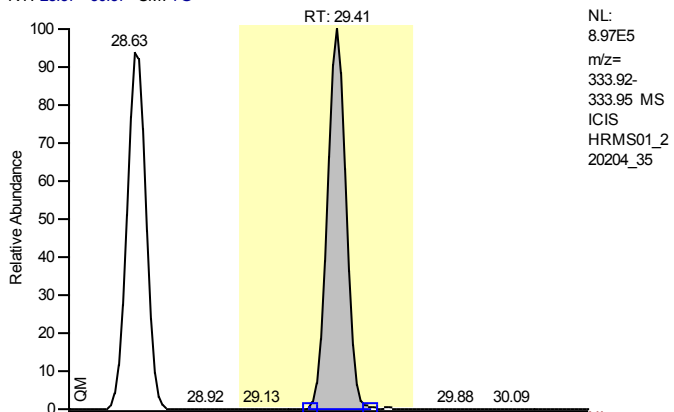
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

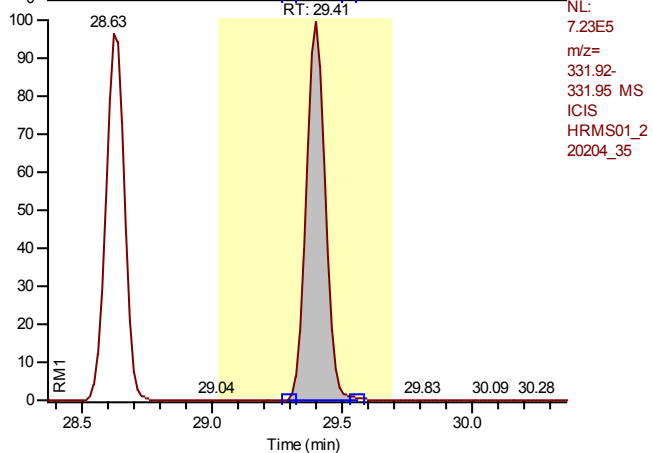
Entry Parameters

RT: 28.37 - 30.37 SM: 7G



NL:
8.97E5
m/z=
333.92-
333.95 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	4441278
RM1 Area	3647230
RM1 Ratio (A)	0.8212
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	88.38
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

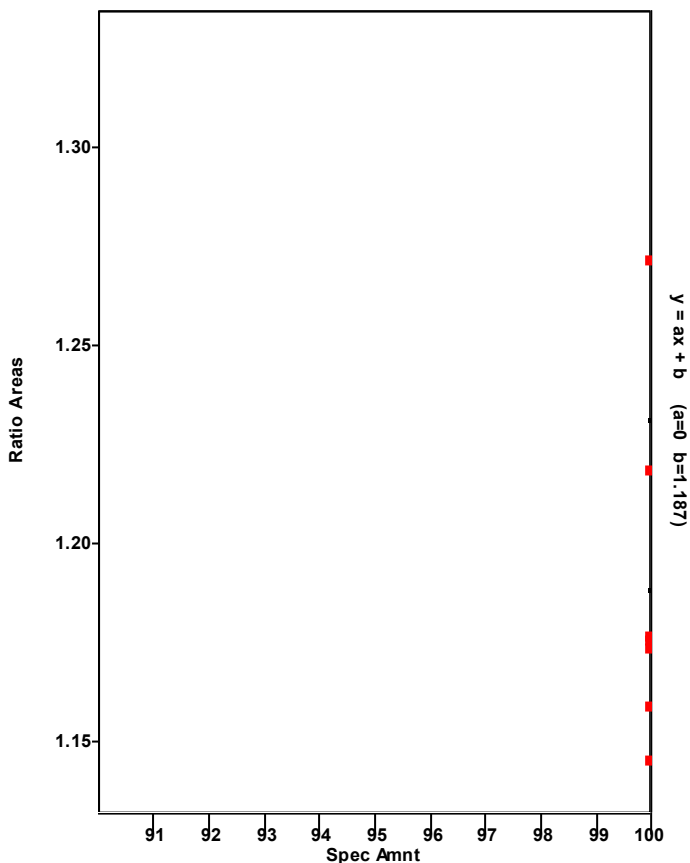


NL:
7.23E5
m/z=
331.92-
331.95 MS
ICIS
HRMS01_2
20204_35

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

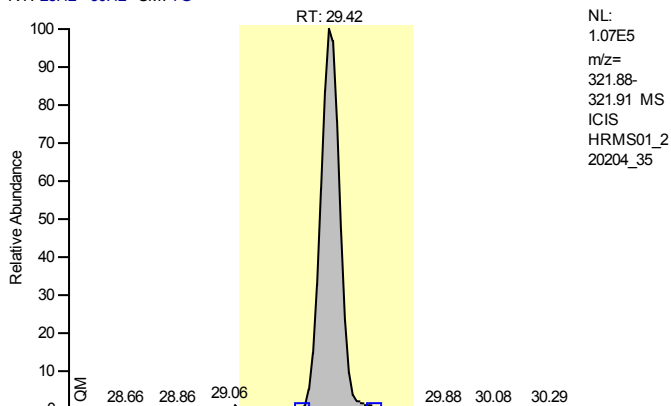
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



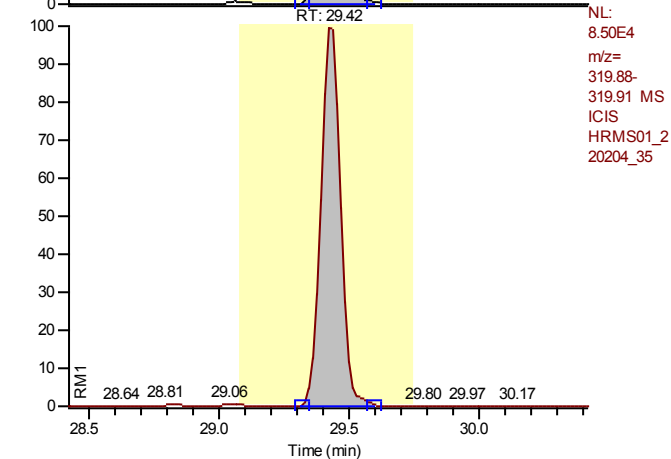
Chromatogram

Entry Parameters

RT: 28.42 - 30.42 SM: 7G



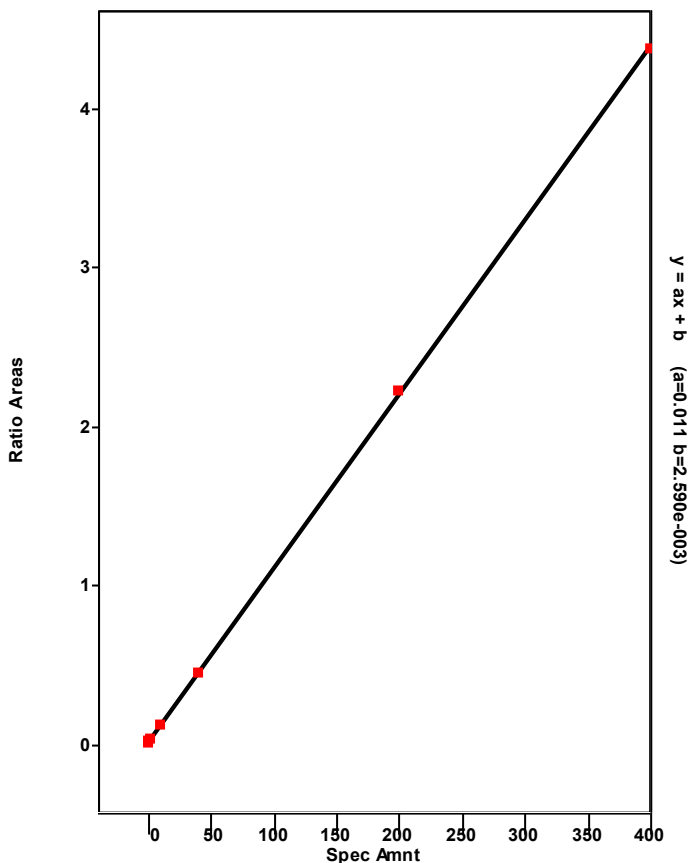
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	549356
RM1 Area	442891
RM1 Ratio (A)	0.8062
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.13
Percent Recovery (A)	111
TEQ (A)	11.1297
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

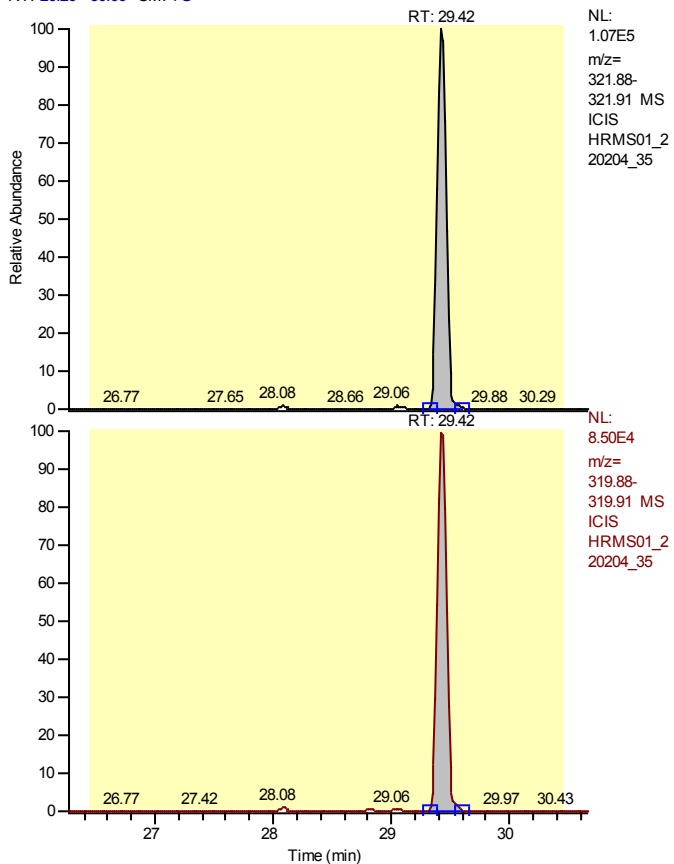
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.26 - 30.66 SM: 7G

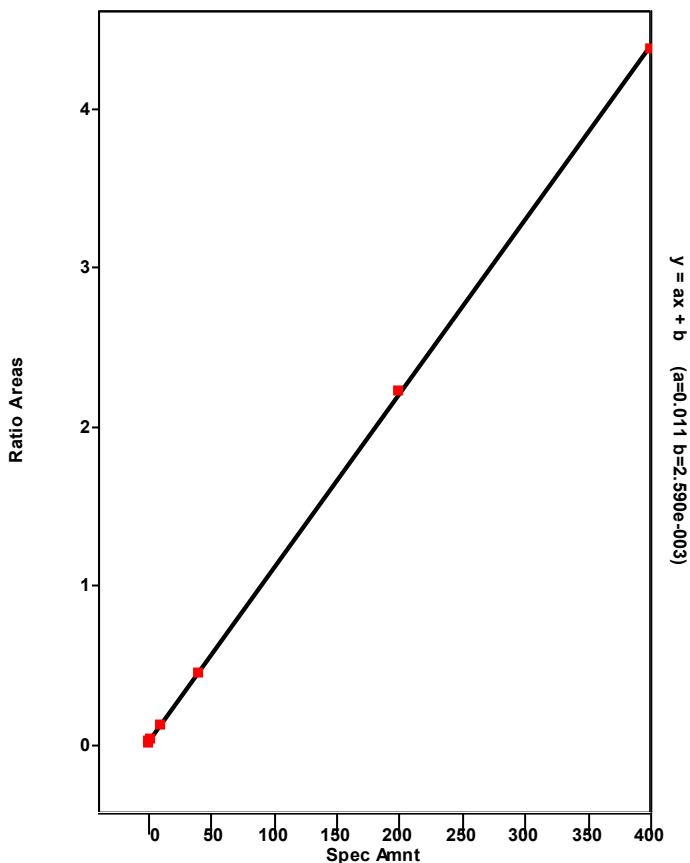


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	549356
RM1 Area	442891
RM1 Ratio (A)	0.8062
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.13
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

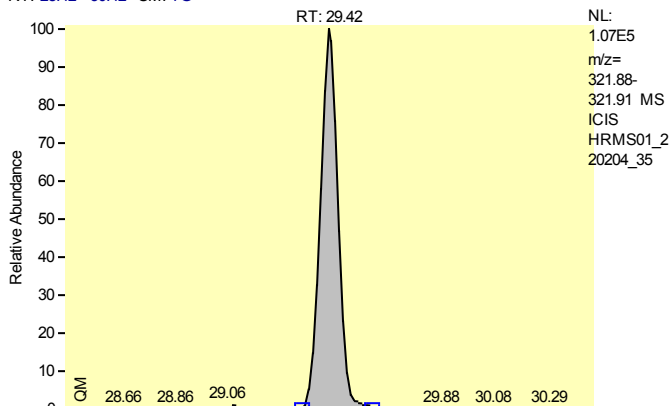
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



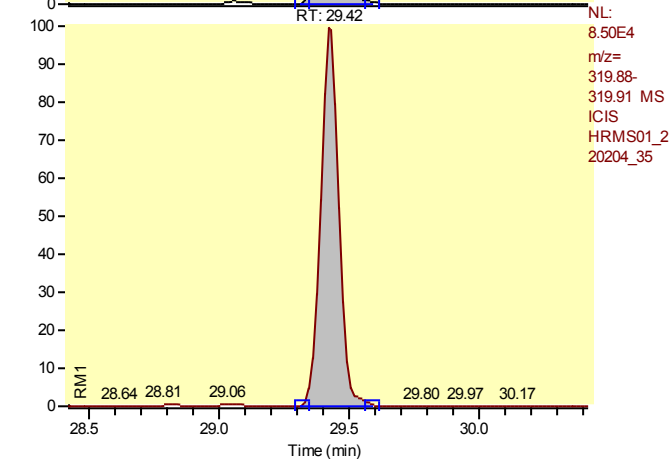
Chromatogram

Entry Parameters

RT: 28.42 - 30.42 SM: 7G



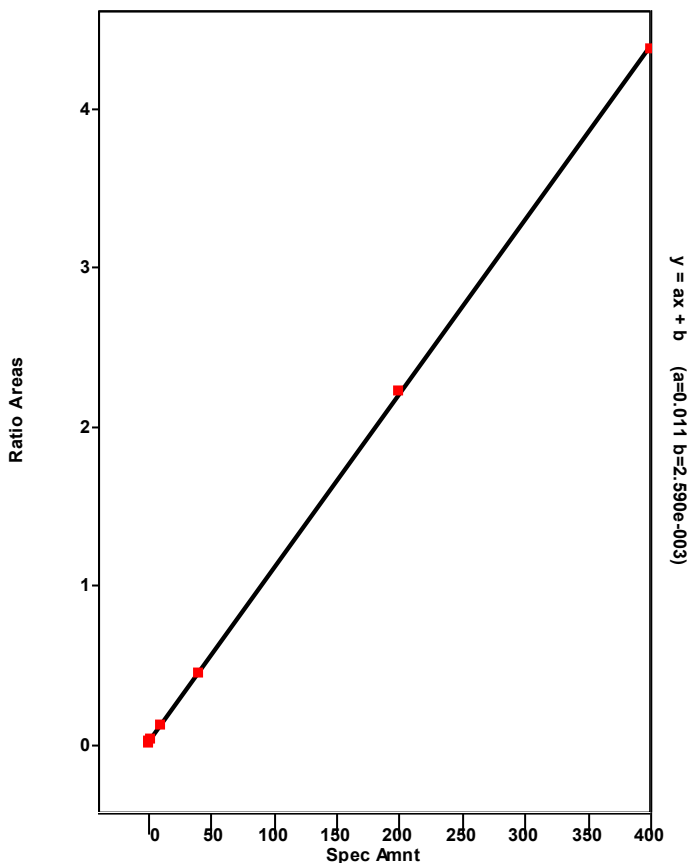
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	549356
RM1 Area	442891
RM1 Ratio (A)	0.8062
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.13
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

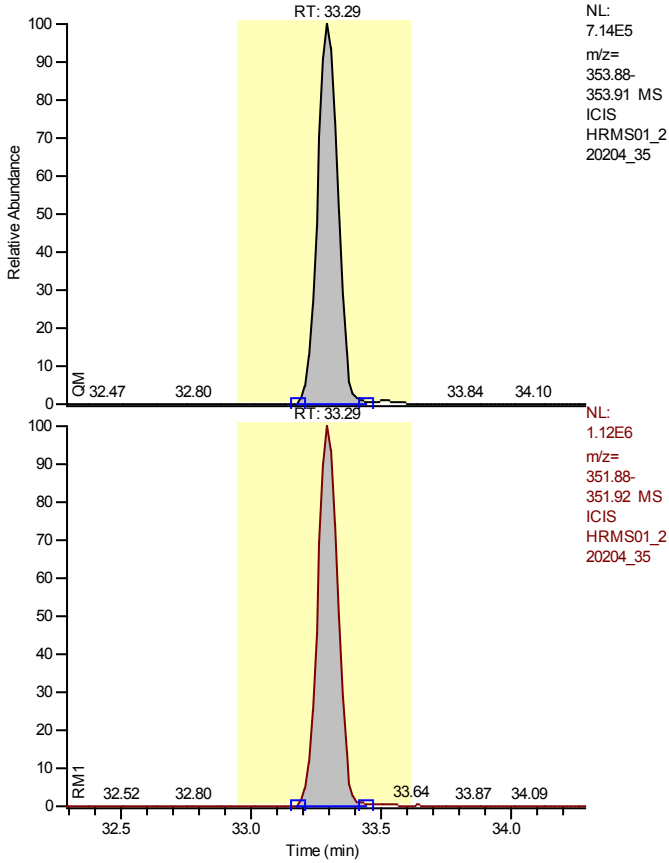
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.29 - 34.29 SM: 7G



NL:
 7.14E5
 m/z=
 353.88-
 353.91 MS
 ICIS
 HRMS01_2
 20204_35

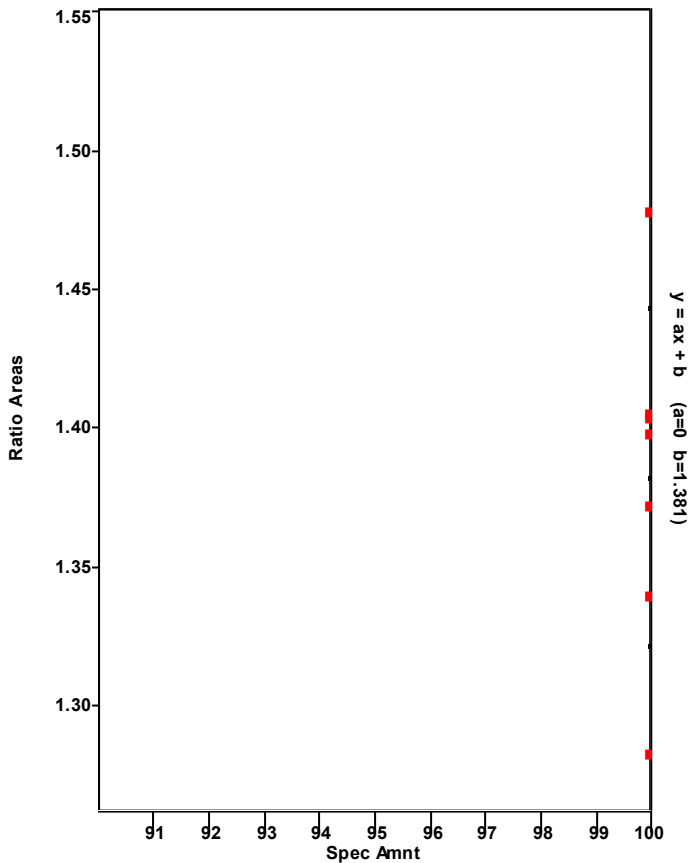
NL:
 1.12E6
 m/z=
 351.88-
 351.92 MS
 ICIS
 HRMS01_2
 20204_35

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	3908741
RM1 Area	6066175
RM1 Ratio (A)	1.5520
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	93.68
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

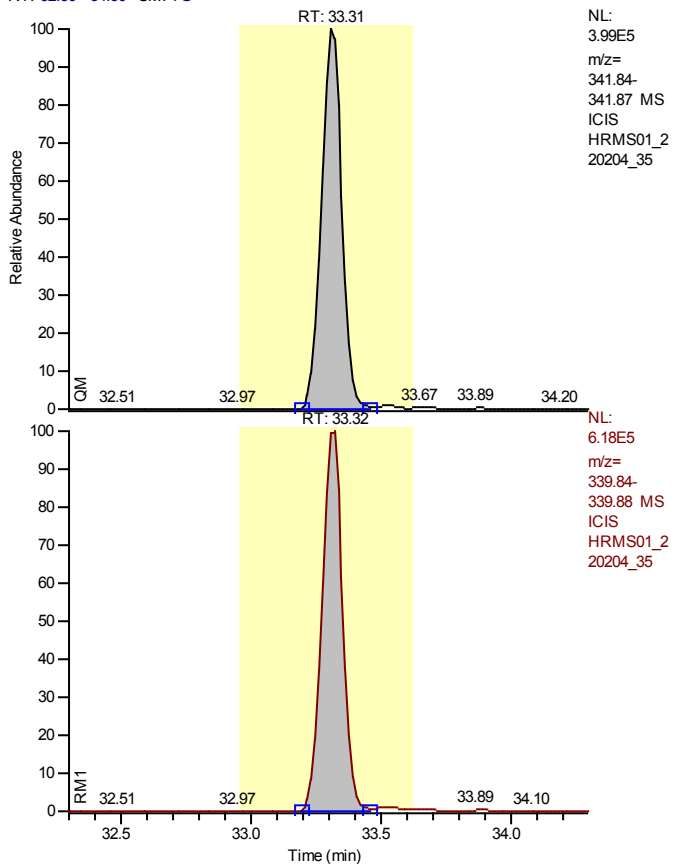
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



NL:
 3.99E5
 m/z=
 341.84-
 341.87 MS
 ICIS
 HRMS01_2
 20204_35

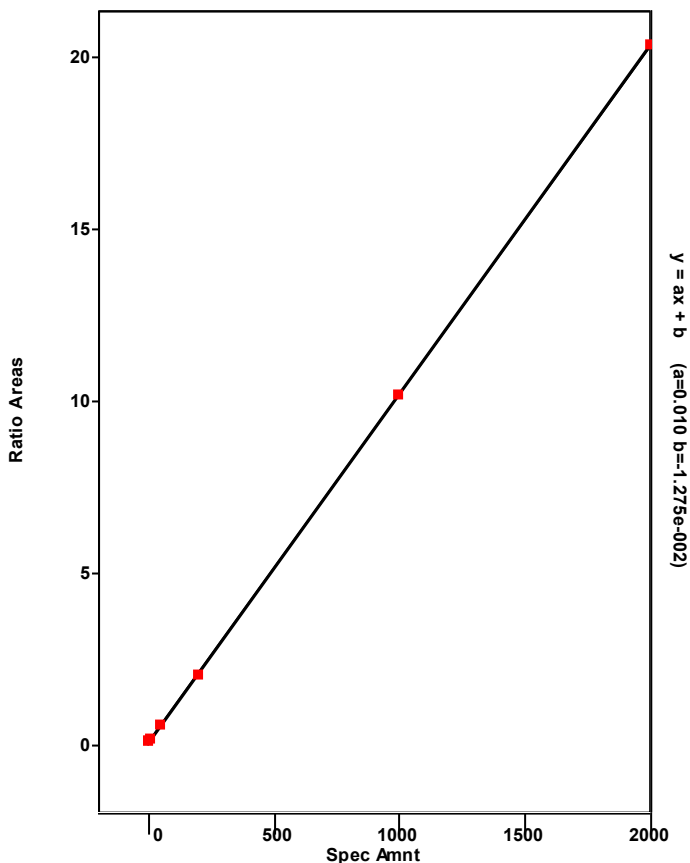
NL:
 6.18E5
 m/z=
 339.84-
 339.88 MS
 ICIS
 HRMS01_2
 20204_35

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	2167343
RM1 Area	3406441
RM1 Ratio (A)	1.5717
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.54
Percent Recovery (A)	111
TEQ (A)	1.6663
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

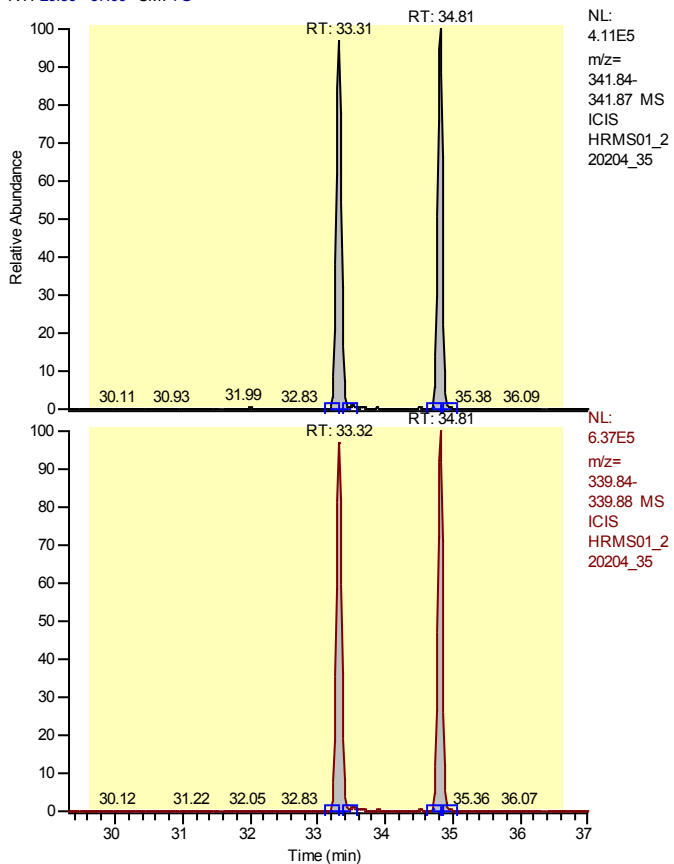
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.30 - 37.00 SM: 7G



NL: 4.11E5
 m/z= 341.84-341.87 MS
 ICIS HRMS01_2 20204_35

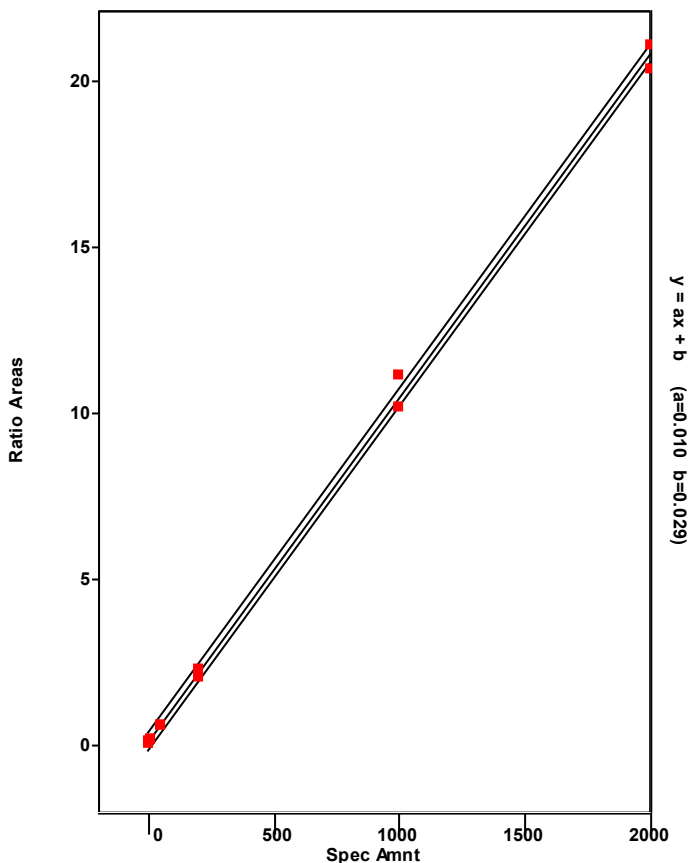
NL: 6.37E5
 m/z= 339.84-339.88 MS
 ICIS HRMS01_2 20204_35

Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	4347106
RM1 Area	6811479
RM1 Ratio (A)	1.5669
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	105.59
Percent Recovery (A)	211
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

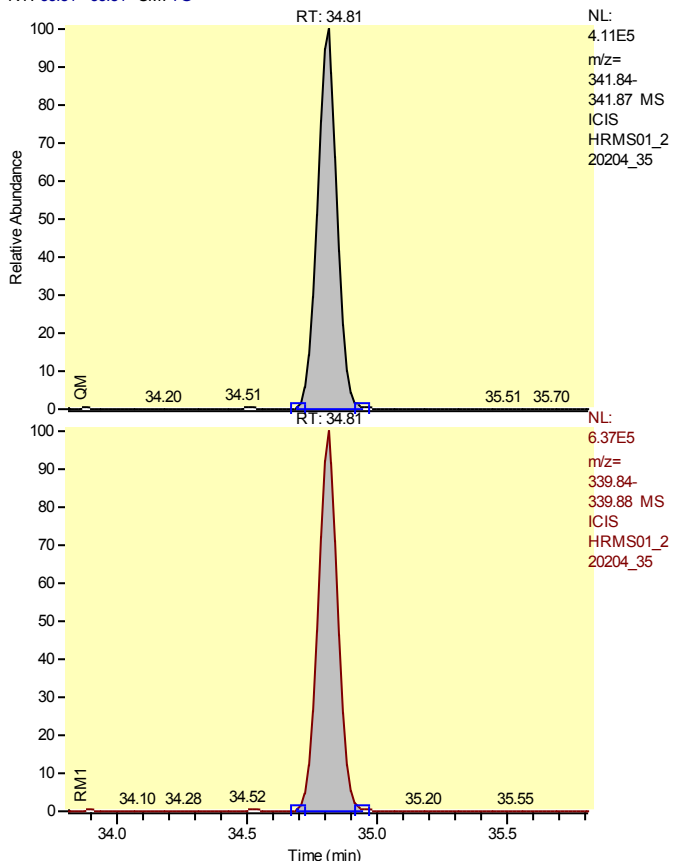
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.81 - 35.81 SM: 7G

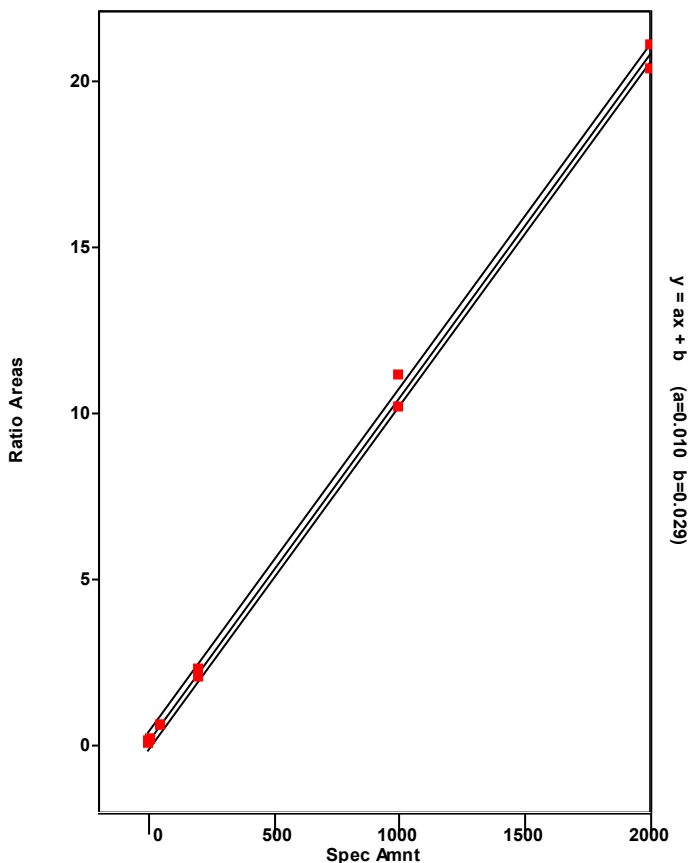


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	2179762
RM1 Area	3405038
RM1 Ratio (A)	1.5621
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.85
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

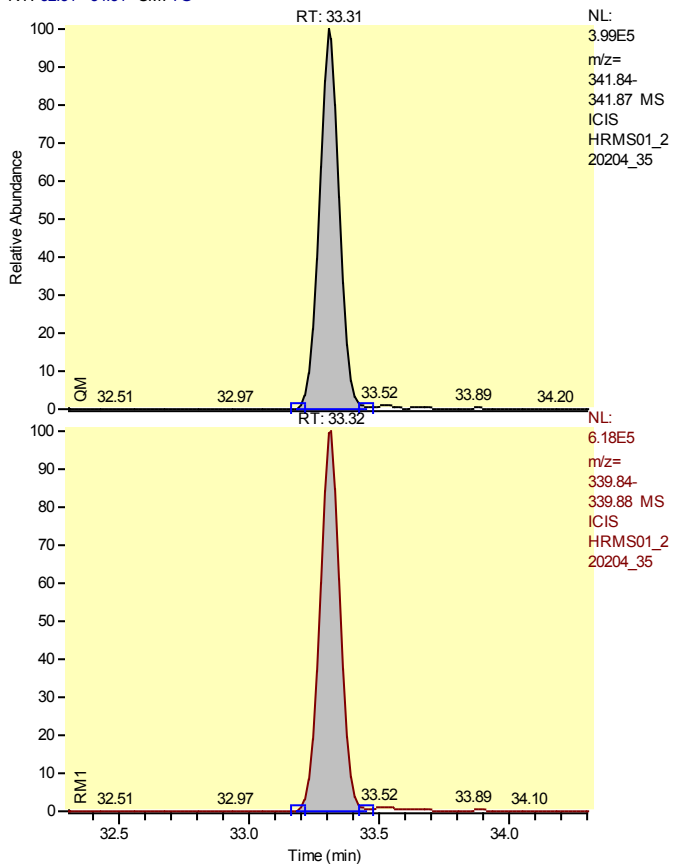
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.31-34.31 SM: 7G

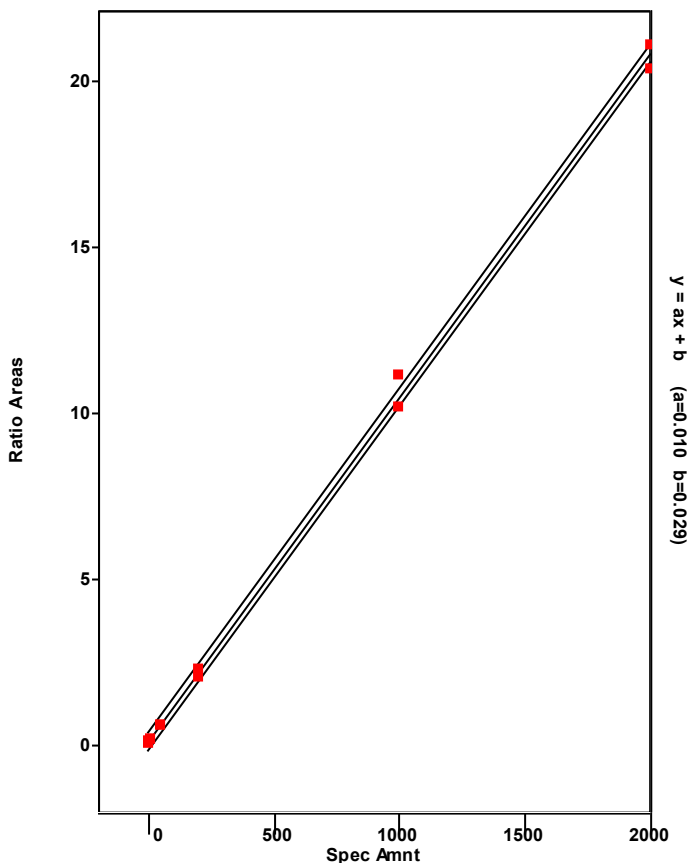


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	2167343
RM1 Area	3406441
RM1 Ratio (A)	1.5717
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.74
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

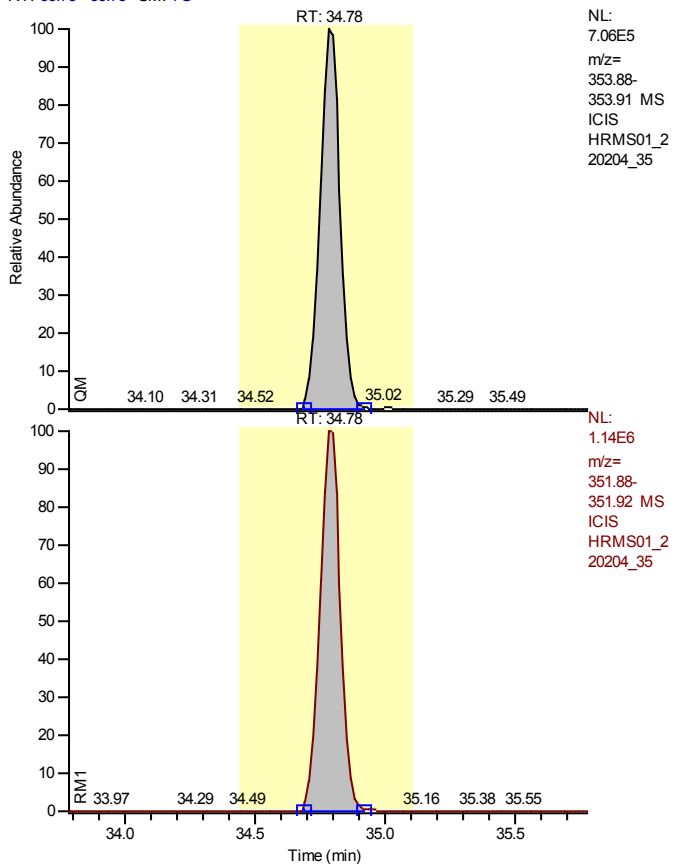
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.78 - 35.78 SM: 7G

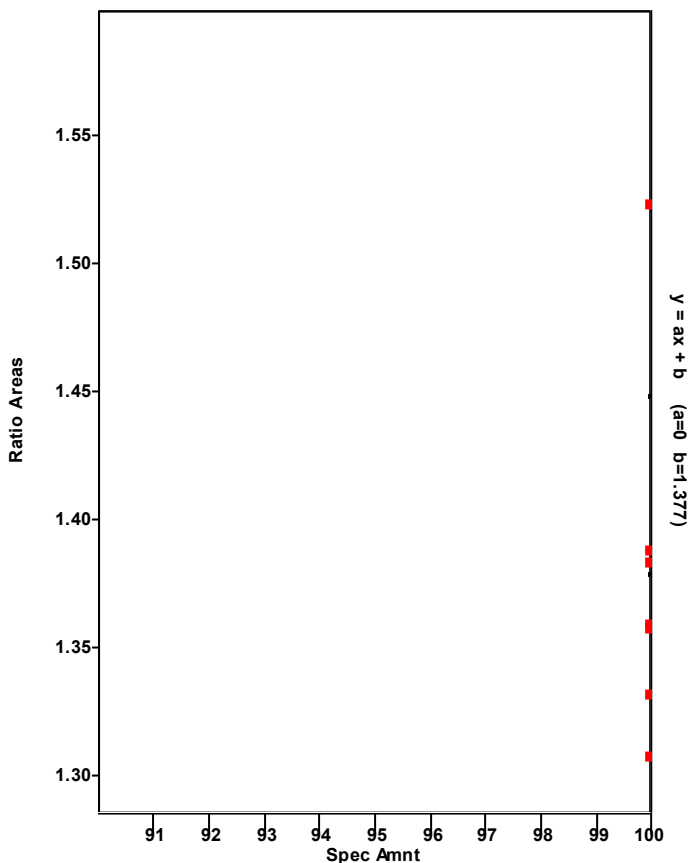


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	3780684
RM1 Area	6182901
RM1 Ratio (A)	1.6354
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	93.85
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

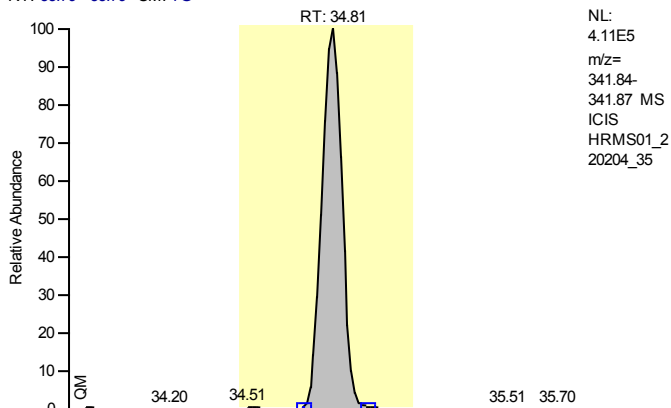
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



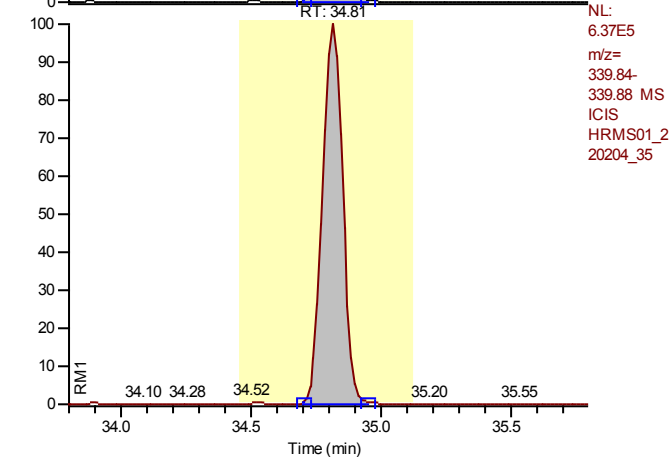
Chromatogram

Entry Parameters

RT: 33.79 - 35.79 SM: 7G



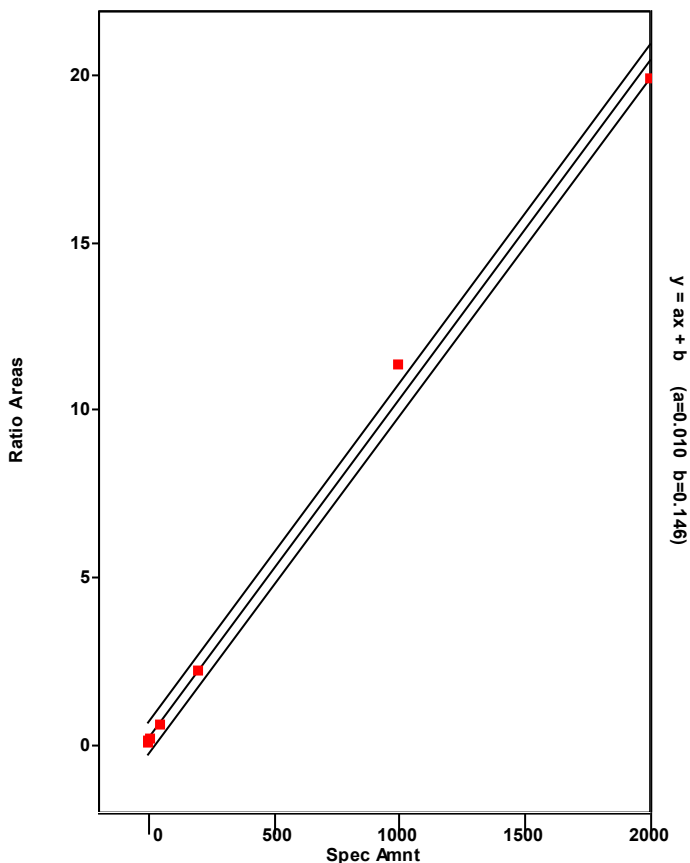
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	2179762
RM1 Area	3405038
RM1 Ratio (A)	1.5621
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.15
Percent Recovery (A)	100
TEQ (A)	15.0453
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

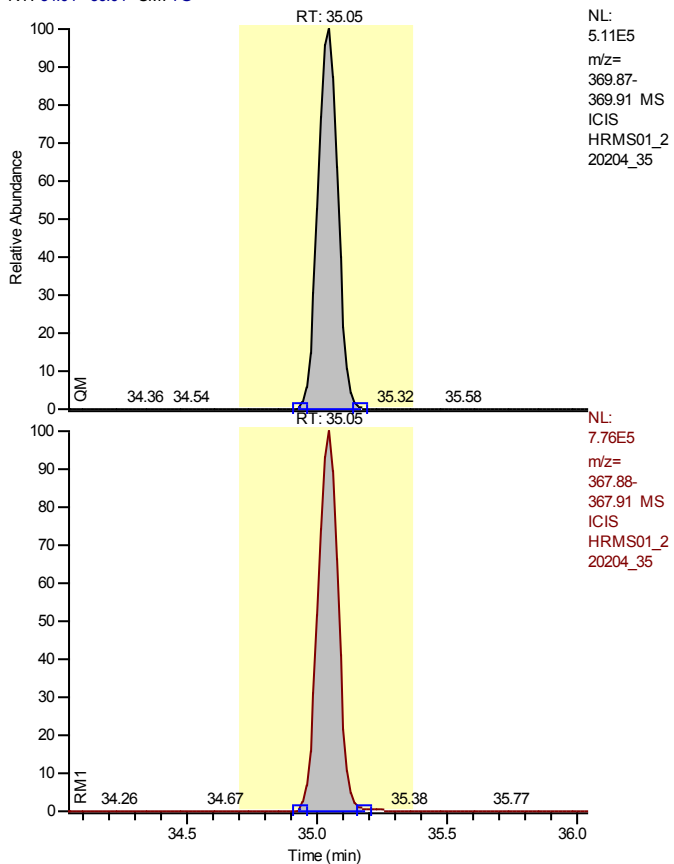
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.04 - 36.04 SM: 7G



NL:
 5.11E5
 m/z=
 369.87-
 369.91 MS
 ICIS
 HRMS01_2
 20204_35

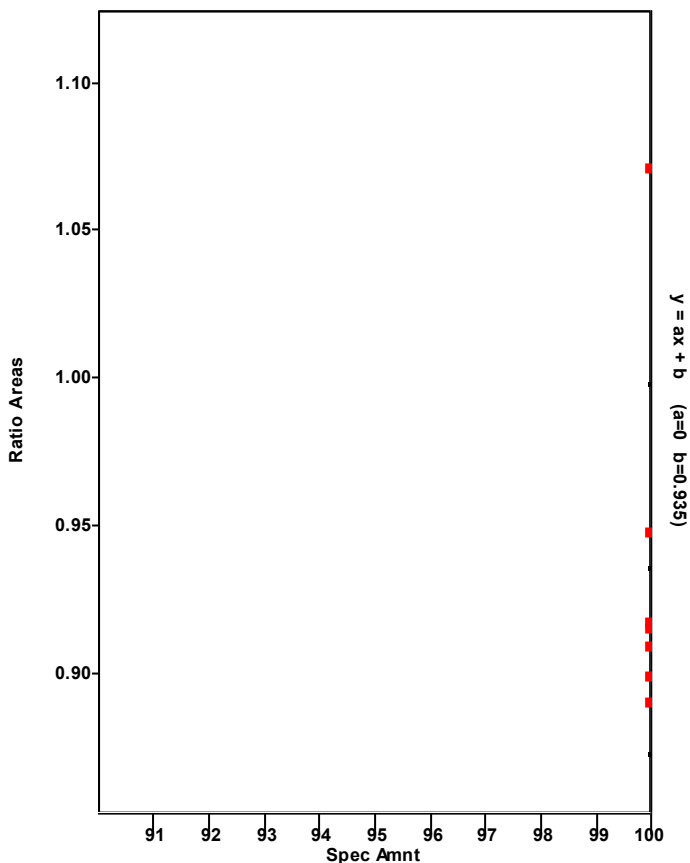
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	2712420
RM1 Area	4158706
RM1 Ratio (A)	1.5332
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	95.39
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

NL:
 7.76E5
 m/z=
 367.88-
 367.91 MS
 ICIS
 HRMS01_2
 20204_35

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

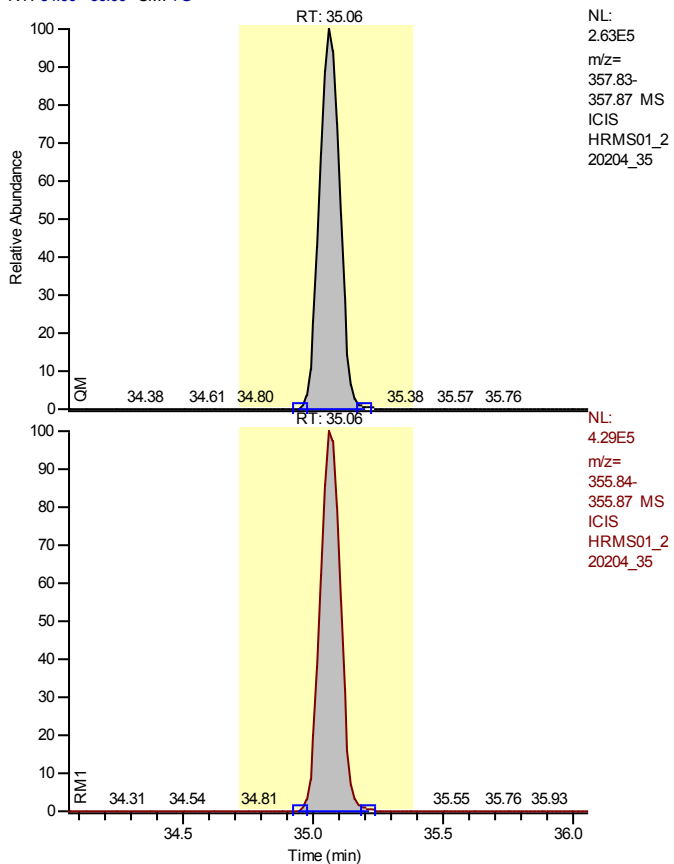
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.06 - 36.06 SM: 7G



NL:
 2.63E5
 m/z=
 357.83-
 357.87 MS
 ICIS
 HRMS01_2
 20204_35

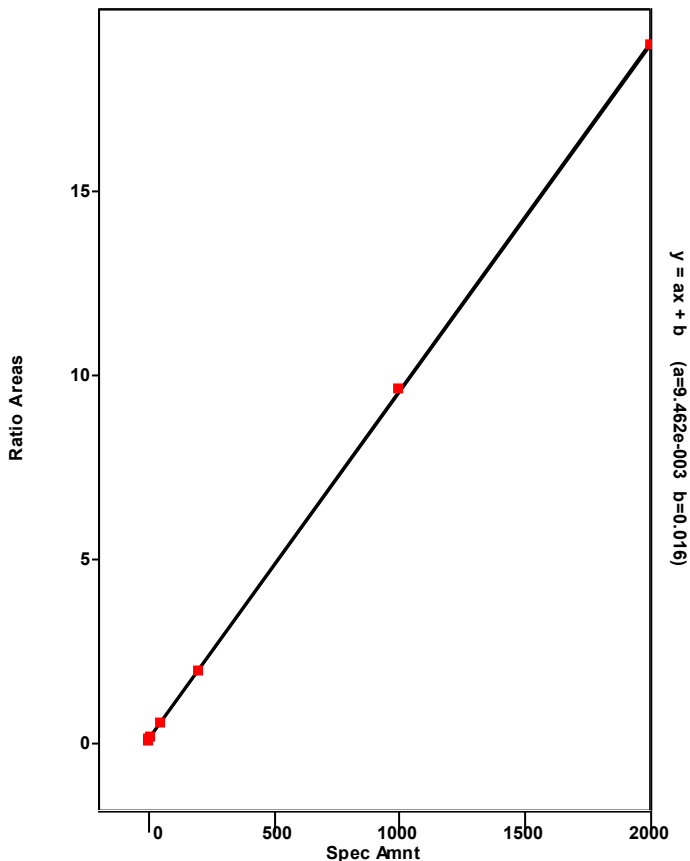
NL:
 4.29E5
 m/z=
 355.84-
 355.87 MS
 ICIS
 HRMS01_2
 20204_35

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	1404578
RM1 Area	2294967
RM1 Ratio (A)	1.6339
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	53.99
Percent Recovery (A)	108
TEQ (A)	53.9903
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

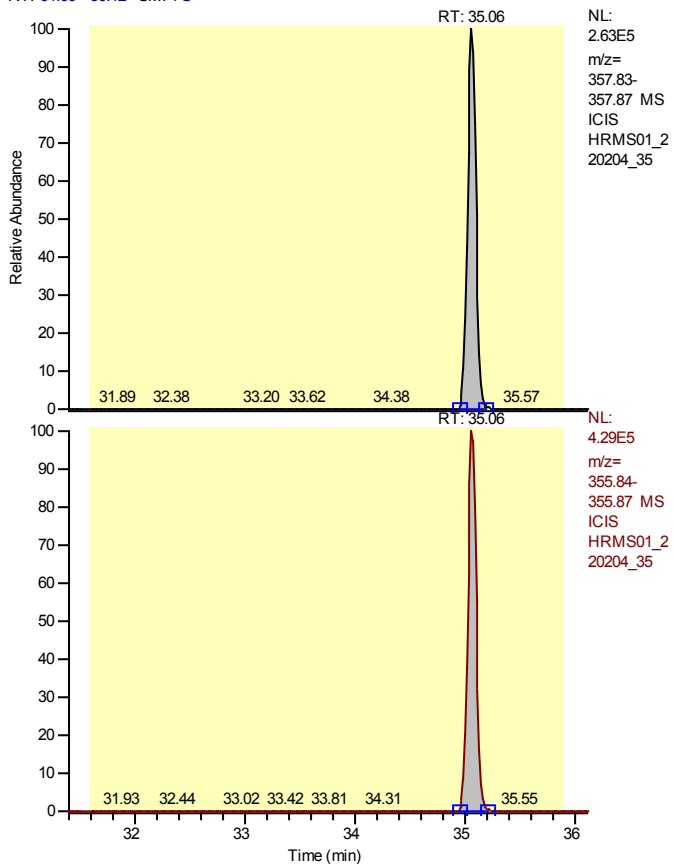
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.39 - 36.12 SM: 7G

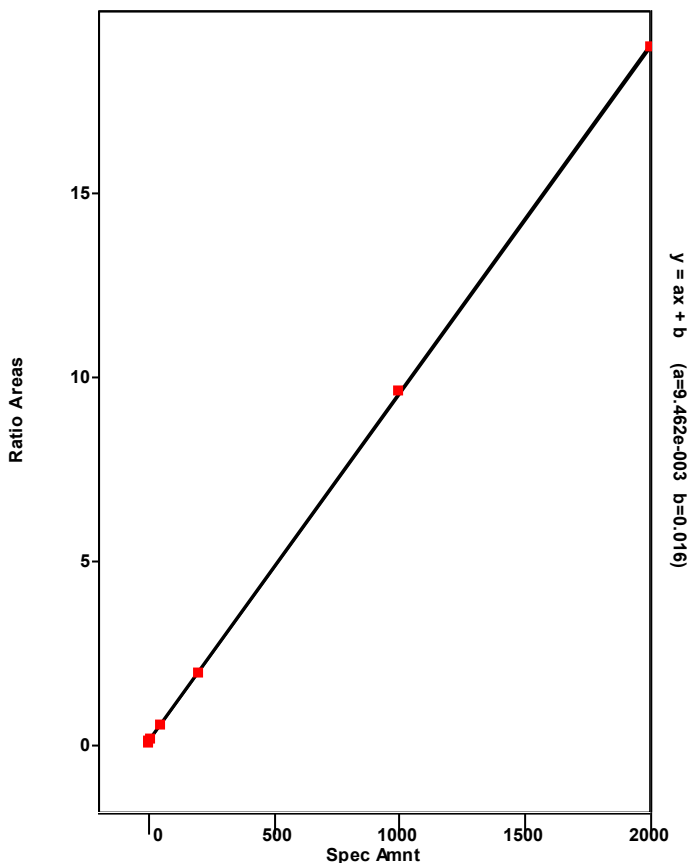


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	1404578
RM1 Area	2294967
RM1 Ratio (A)	1.6339
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	53.99
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

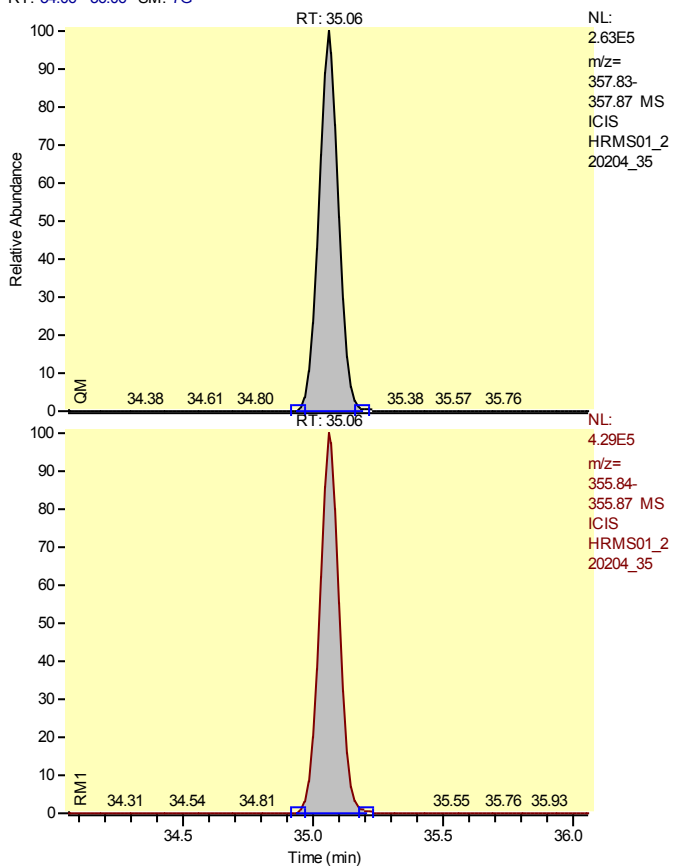
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.06 - 36.06 SM: 7G

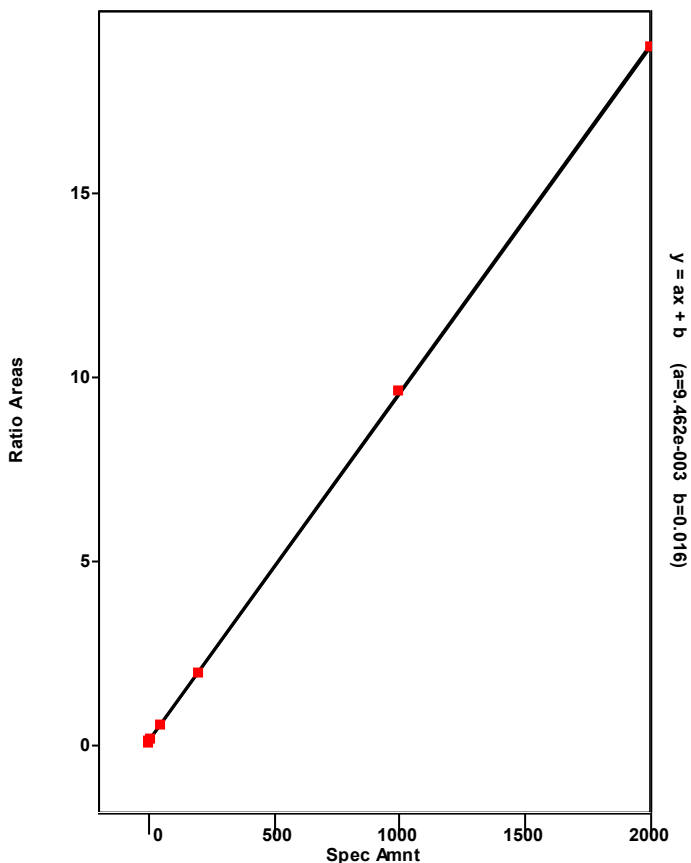


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	1404578
RM1 Area	2294967
RM1 Ratio (A)	1.6339
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	53.99
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

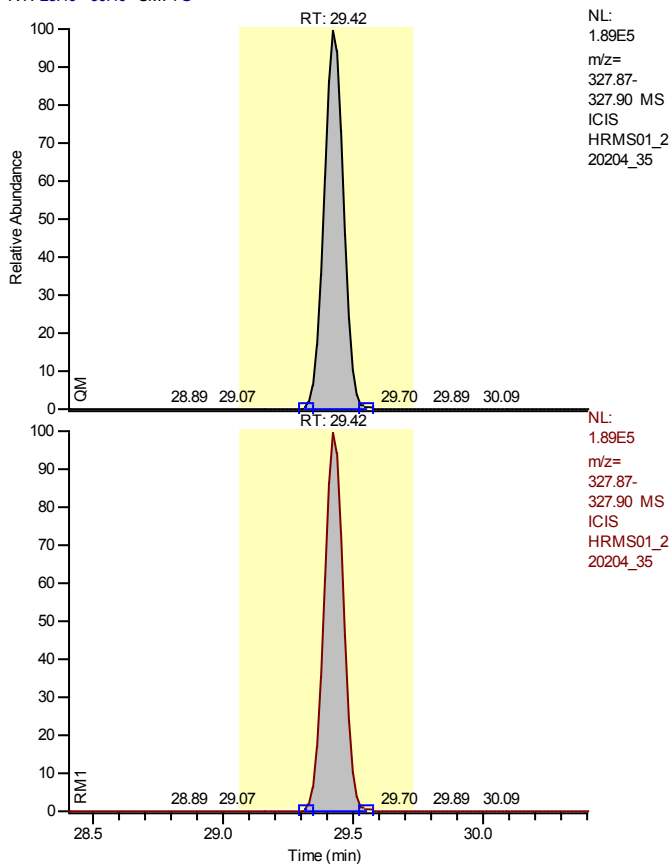
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.40 - 30.40 SM: 7G



NL:
 1.89E5
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_35

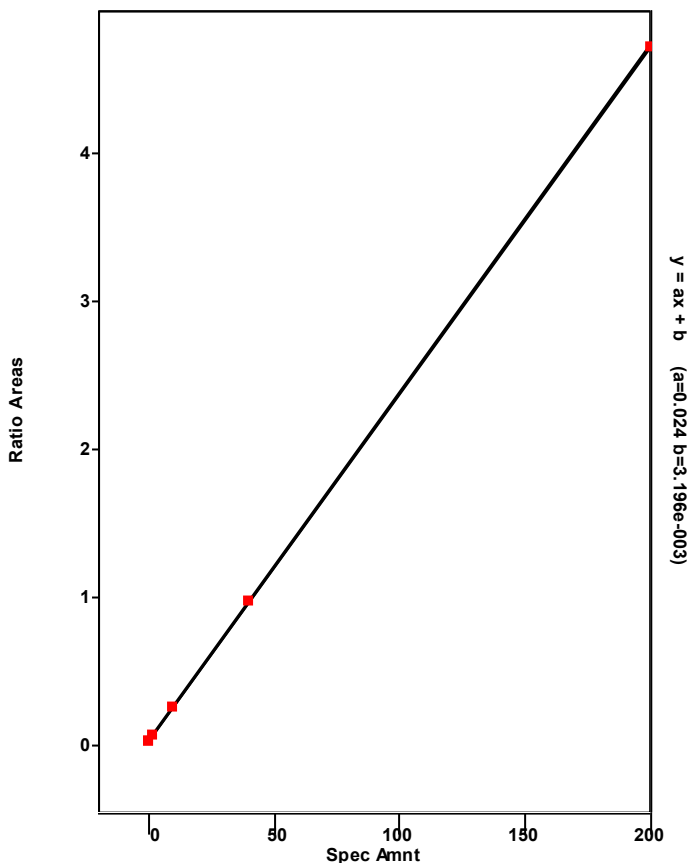
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	975953
RM1 Area	975953
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.51
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

NL:
 1.89E5
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20204_35

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

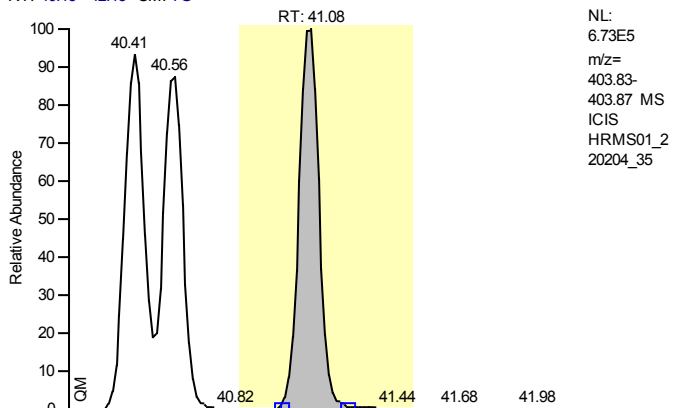
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

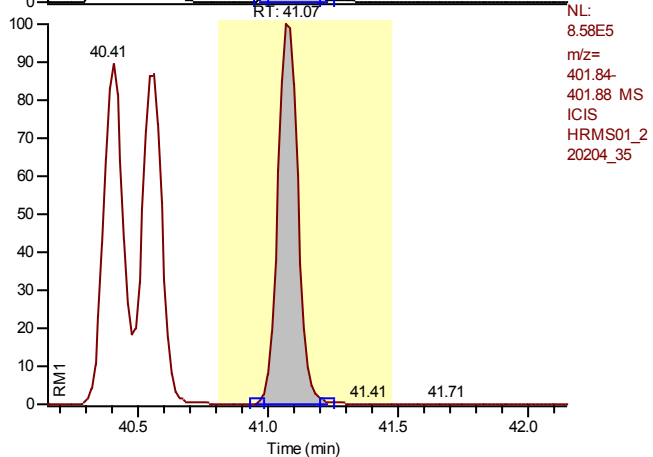
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
6.73E5
m/z=
403.83-
403.87 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	3609024
RM1 Area	4638627
RM1 Ratio (A)	1.2853
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

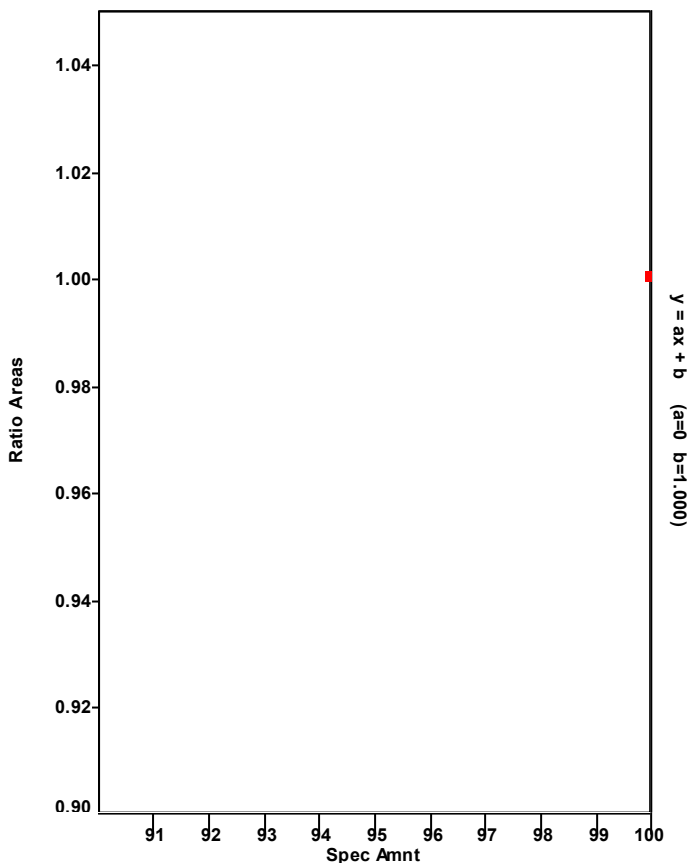


NL:
8.58E5
m/z=
401.84-
401.88 MS
ICIS
HRMS01_2
20204_35

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

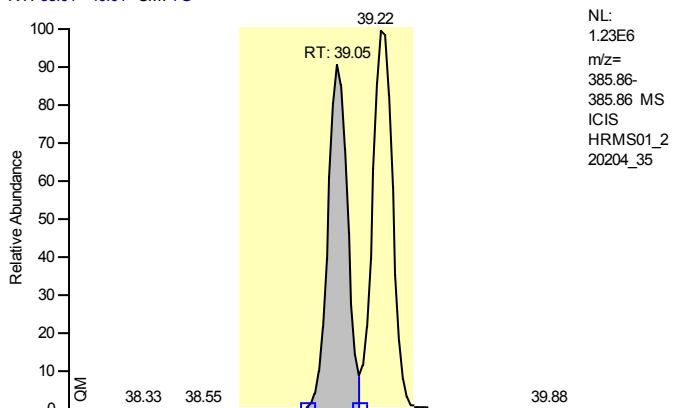
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



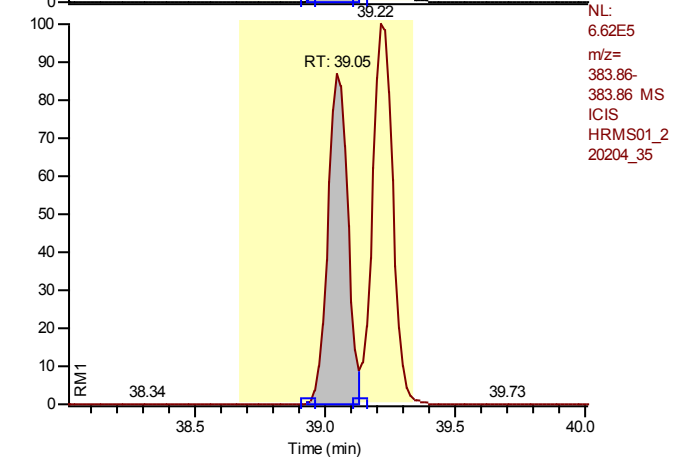
Chromatogram

Entry Parameters

RT: 38.01 - 40.01 SM: 7G



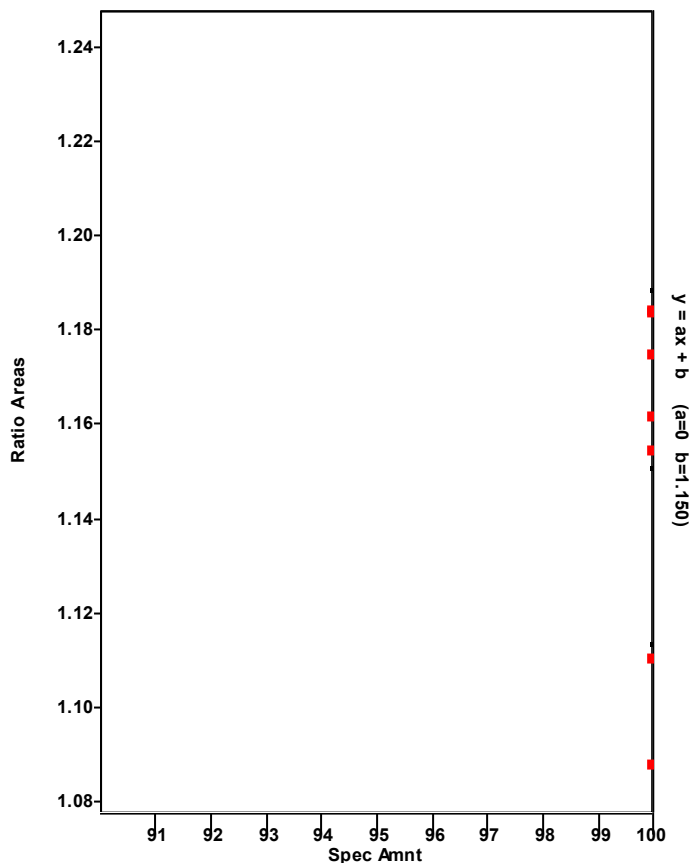
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	5806625
RM1 Area	3053202
RM1 Ratio (A)	0.5258
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	93.38
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

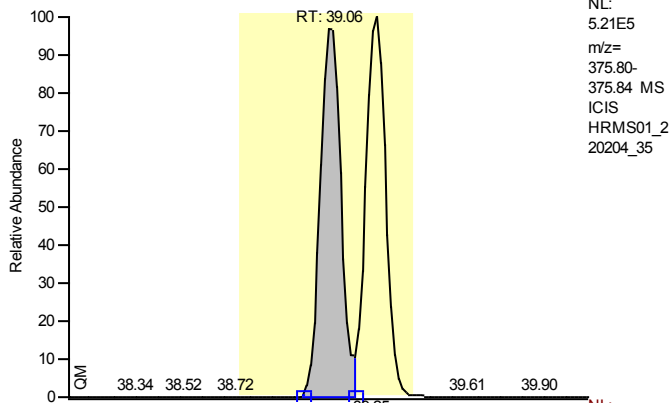
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



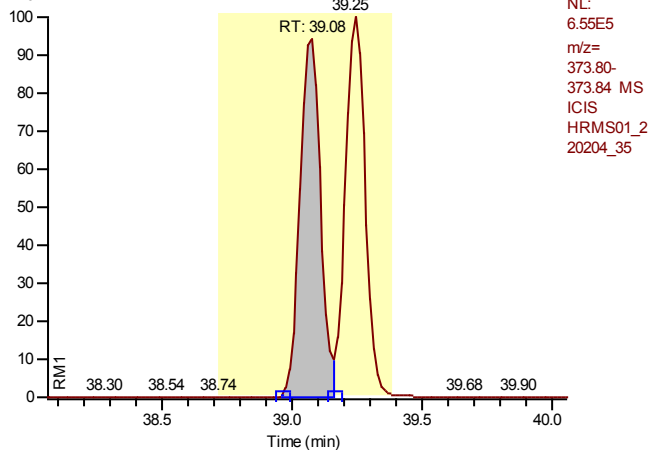
Chromatogram

Entry Parameters

RT: 38.06 - 40.06 SM: 7G



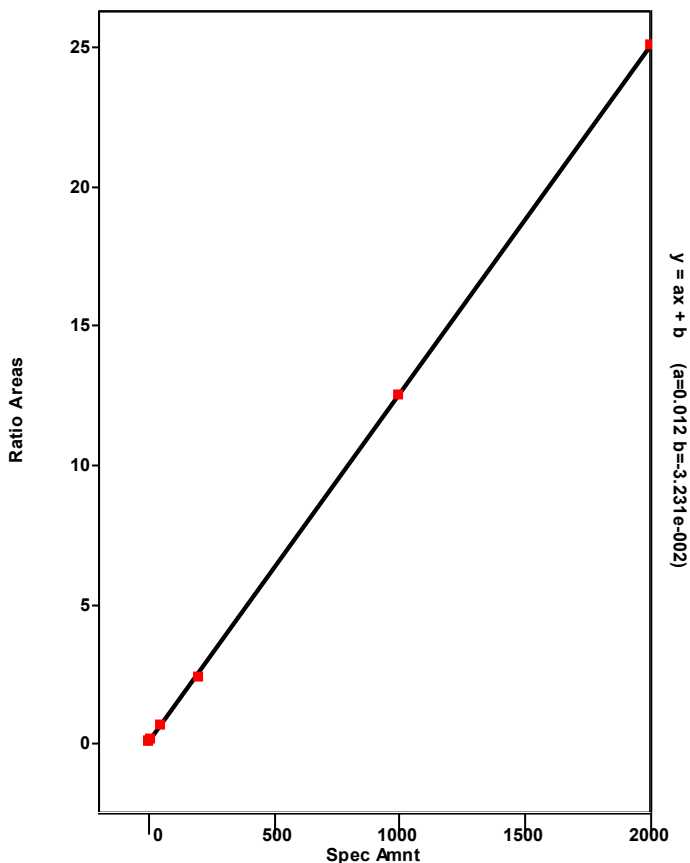
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	2744707
RM1 Area	3336071
RM1 Ratio (A)	1.2155
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.05
Percent Recovery (A)	110
TEQ (A)	5.5046
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

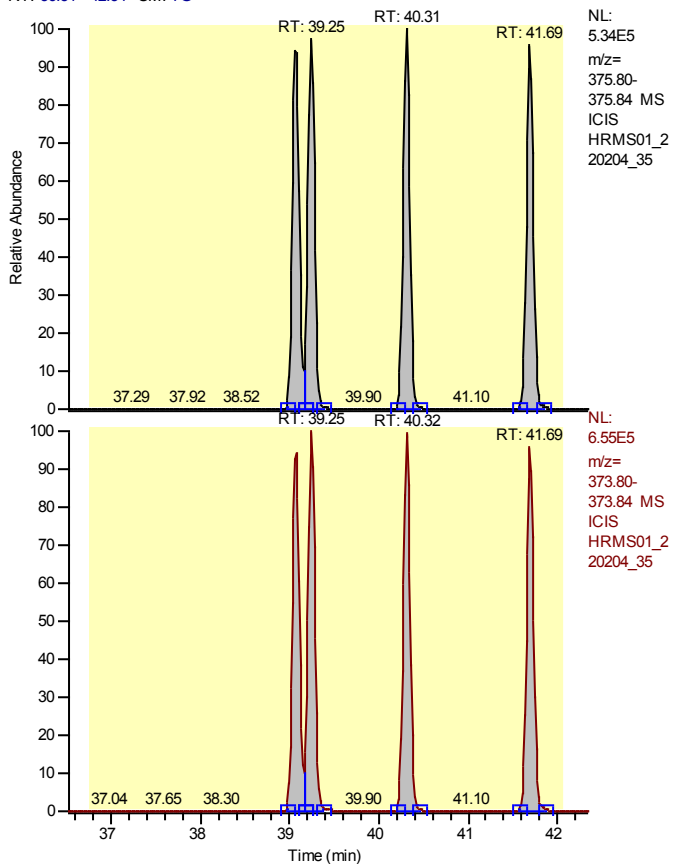
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.51 - 42.34 SM: 7G

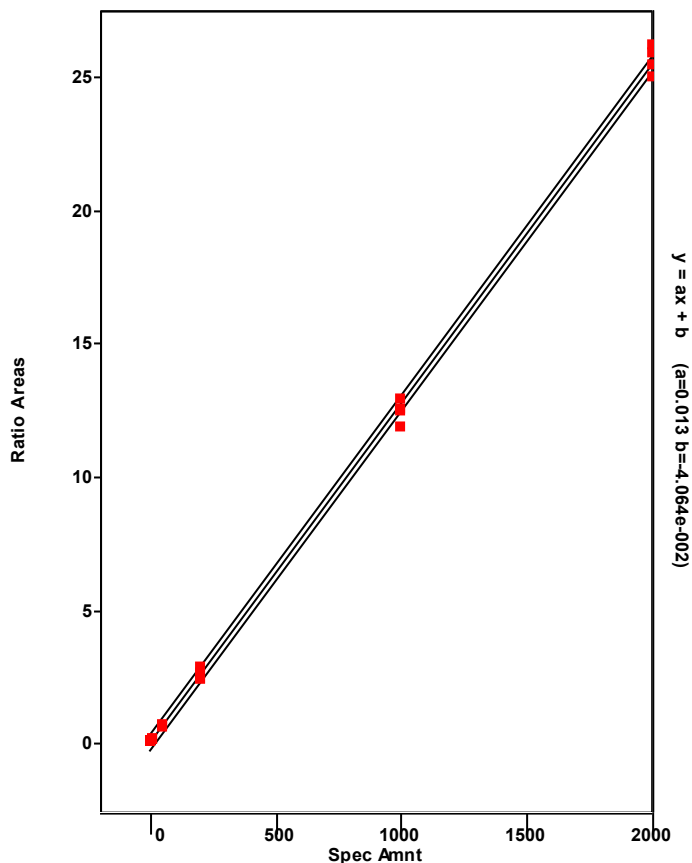


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	11187281
RM1 Area	13759865
RM1 Ratio (A)	1.2300
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	221.92
Percent Recovery (A)	444
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

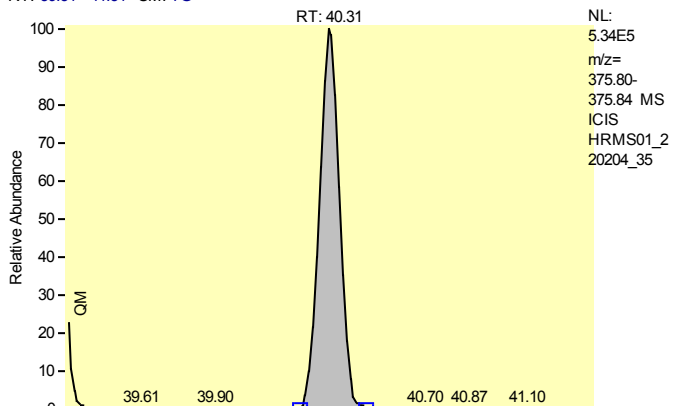
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



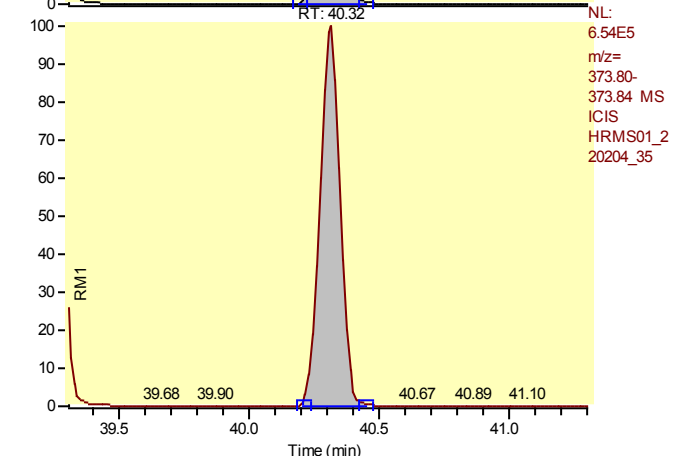
Chromatogram

Entry Parameters

RT: 39.31 - 41.31 SM: 7G



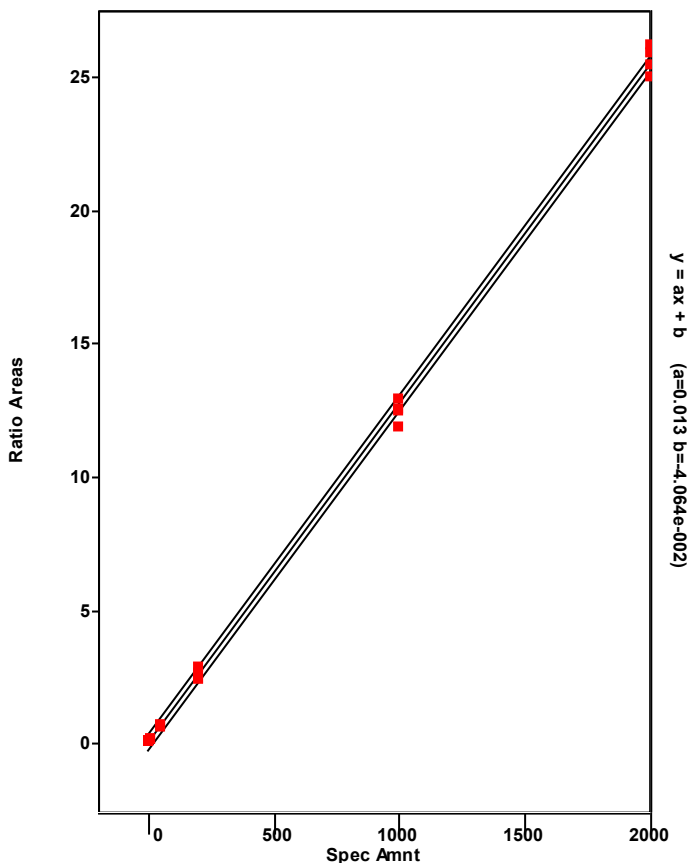
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	2888139
RM1 Area	3523715
RM1 Ratio (A)	1.2201
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	57.04
Percent Recovery (A)	114
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

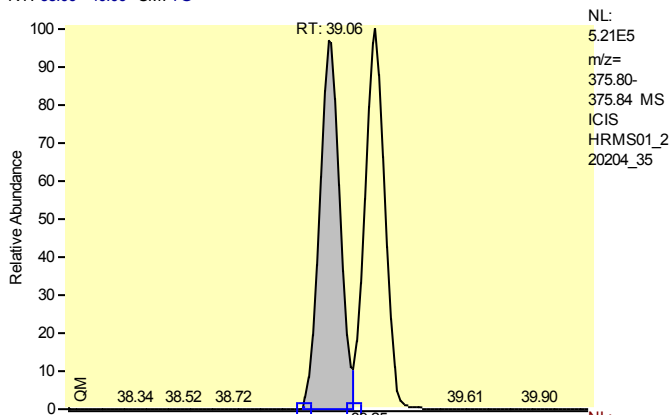
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

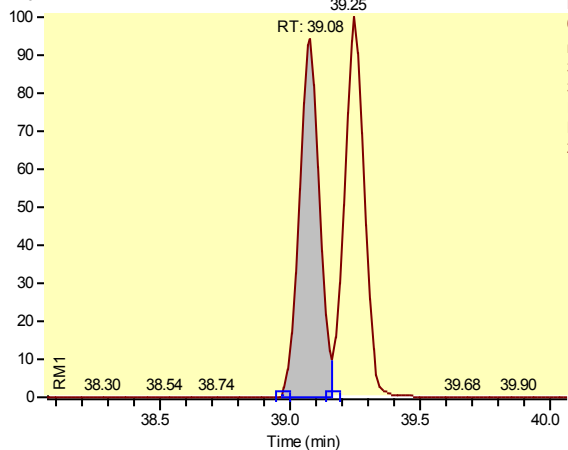
Entry Parameters

RT: 38.06 - 40.06 SM: 7G



NL:
5.21E5
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	2744707
RM1 Area	3336071
RM1 Ratio (A)	1.2155
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.09
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

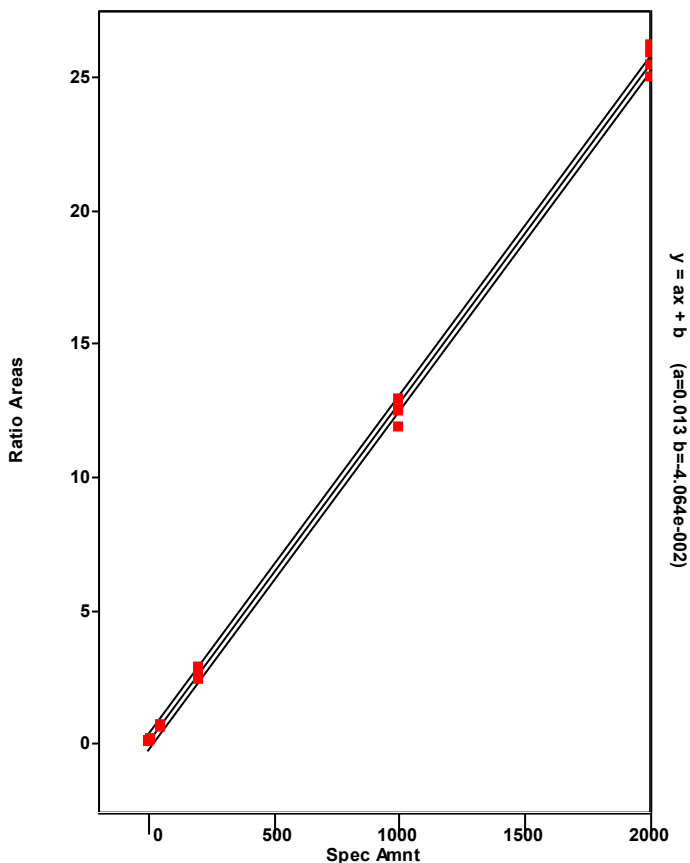


NL:
6.55E5
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20204_35

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

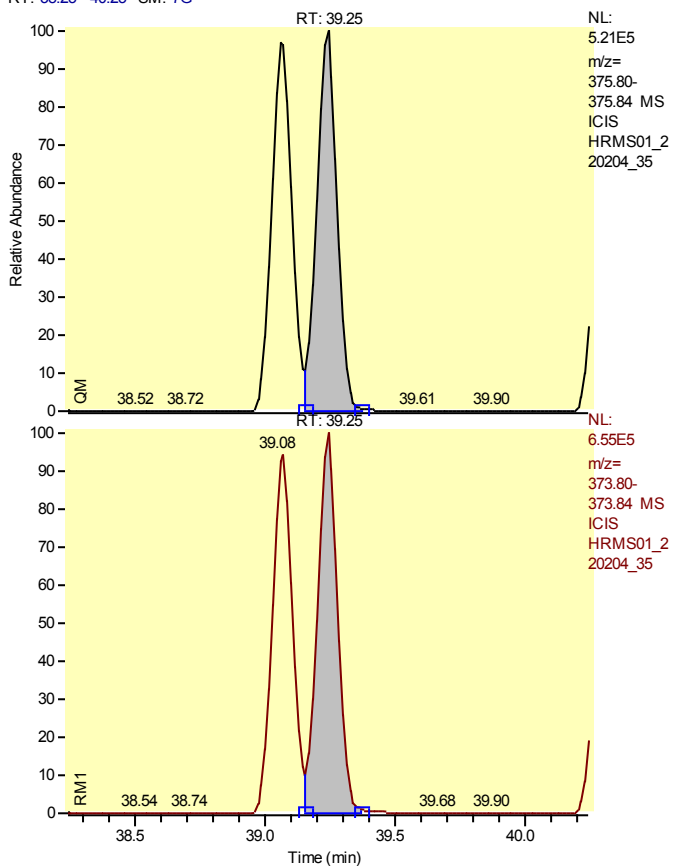
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.25 - 40.25 SM: 7G

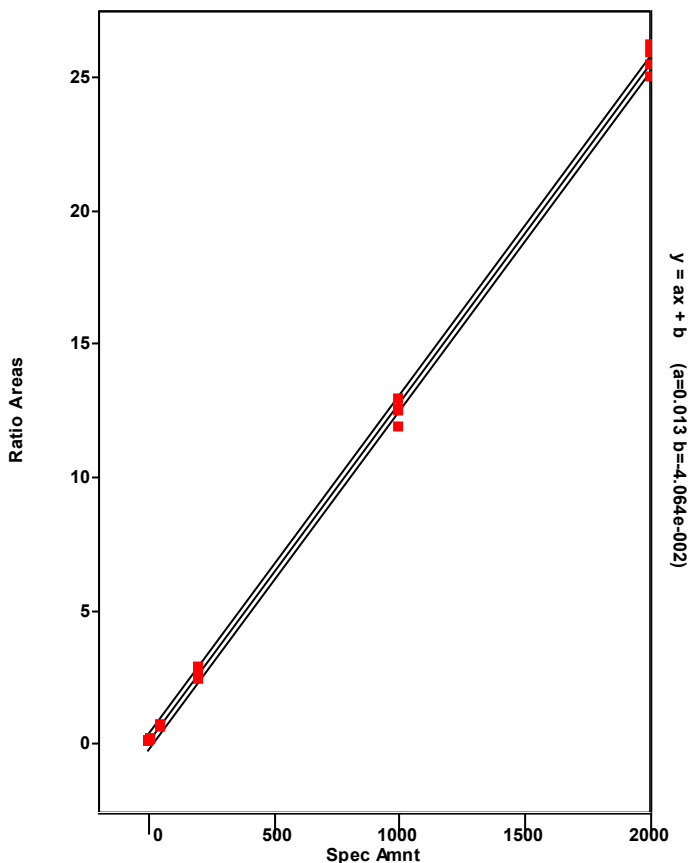


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	2778587
RM1 Area	3467833
RM1 Ratio (A)	1.2481
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.57
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

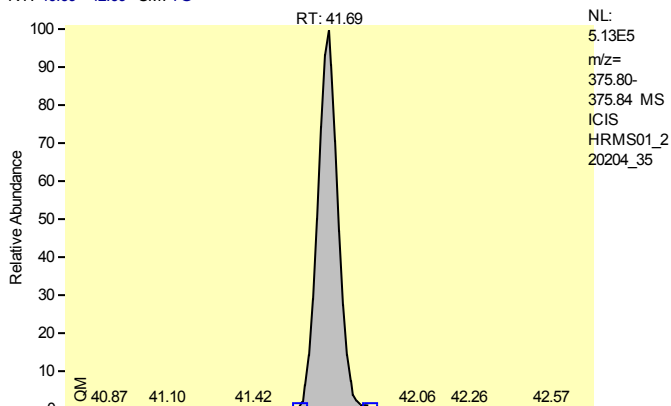
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



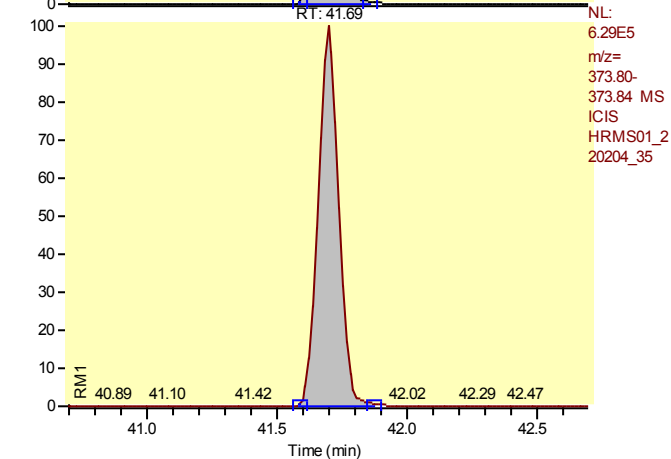
Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G



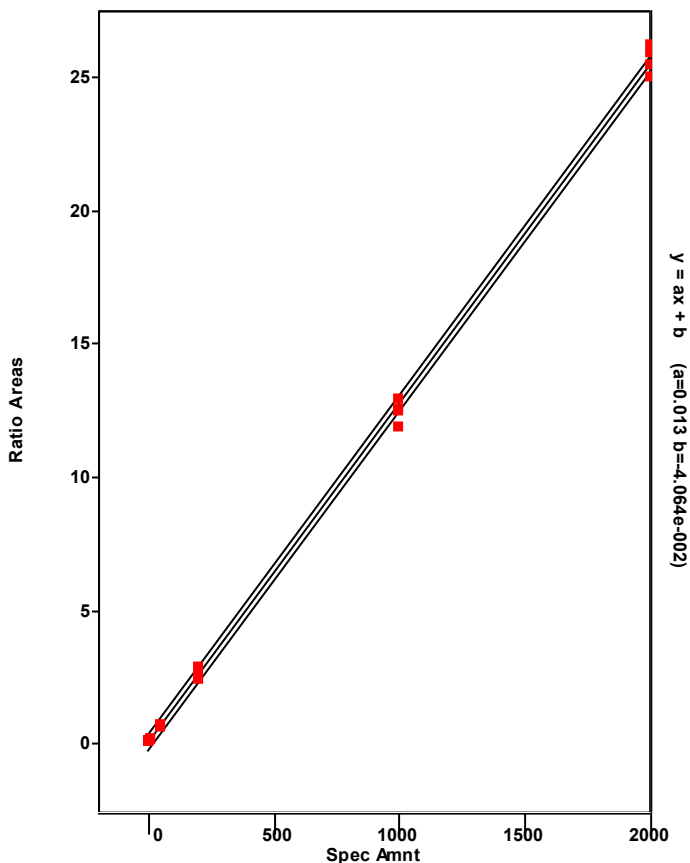
Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	2775848
RM1 Area	3432246
RM1 Ratio (A)	1.2365
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.23
Percent Recovery (A)	110
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

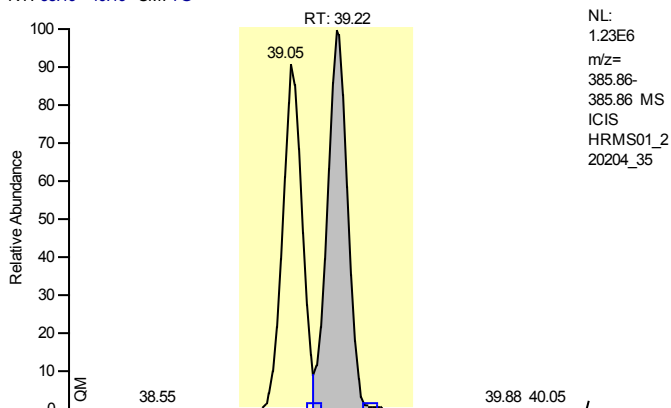
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

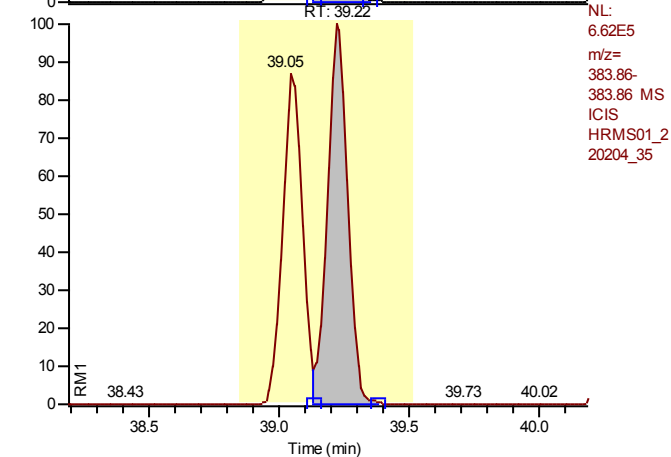
Entry Parameters

RT: 38.19 - 40.19 SM: 7G



NL:
1.23E6
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	6595735
RM1 Area	3594948
RM1 Ratio (A)	0.5450
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	97.18
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

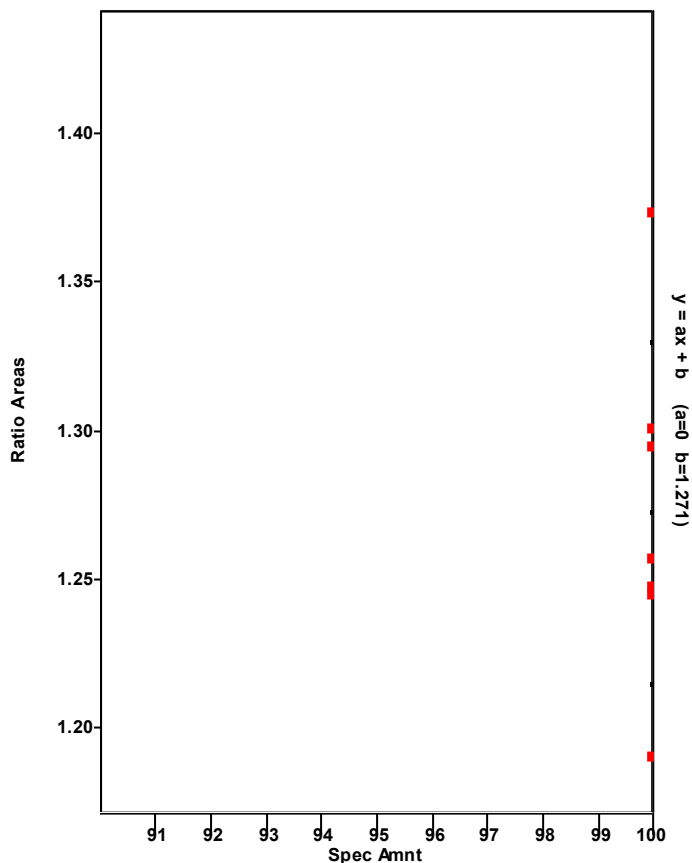


NL:
6.62E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20204_35

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

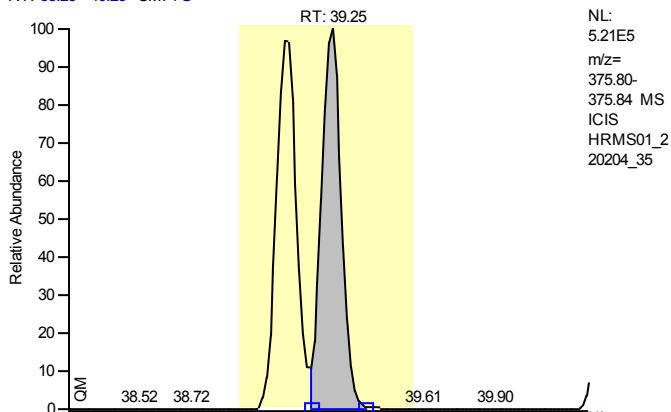
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



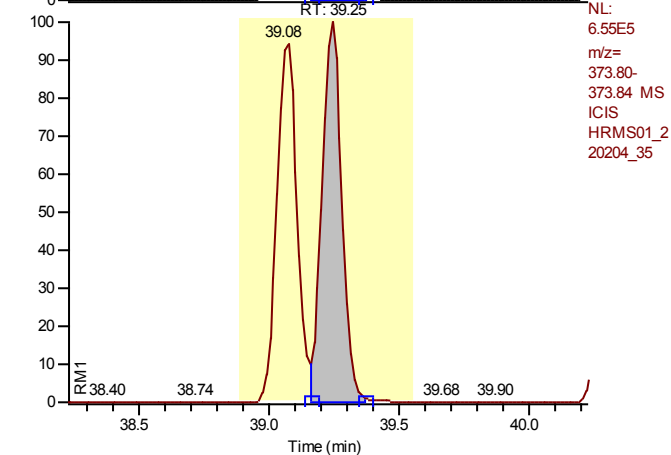
Chromatogram

Entry Parameters

RT: 38.23 - 40.23 SM: 7G



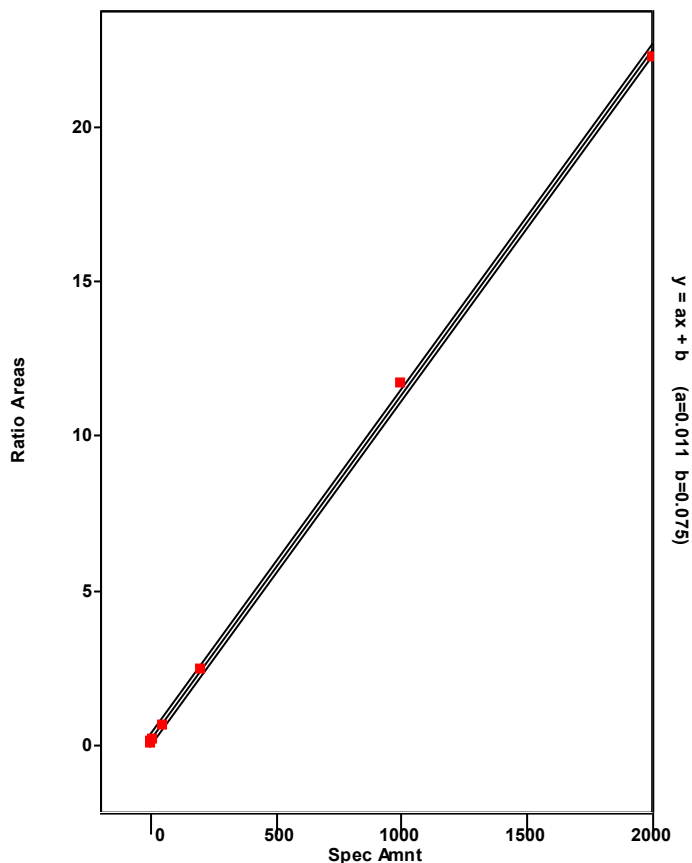
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	2778587
RM1 Area	3467833
RM1 Ratio (A)	1.2481
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.62
Percent Recovery (A)	103
TEQ (A)	5.1624
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

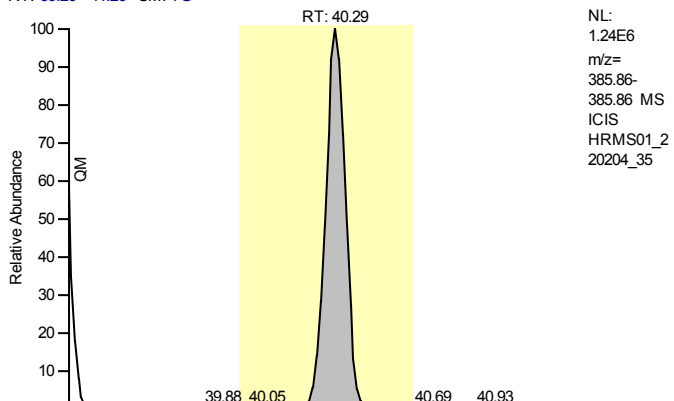
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



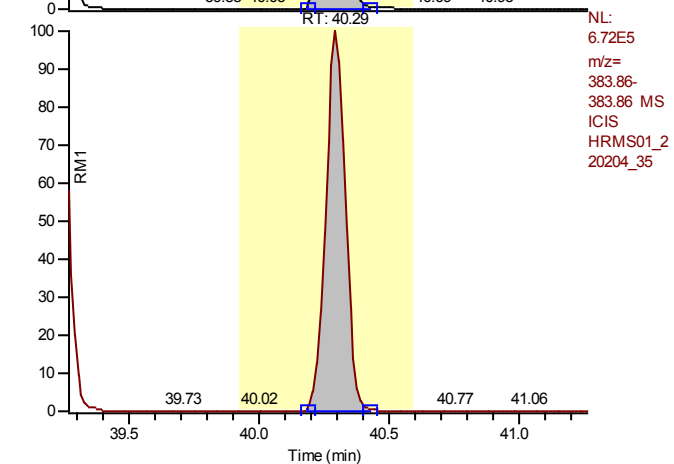
Chromatogram

Entry Parameters

RT: 39.26 - 41.26 SM: 7G



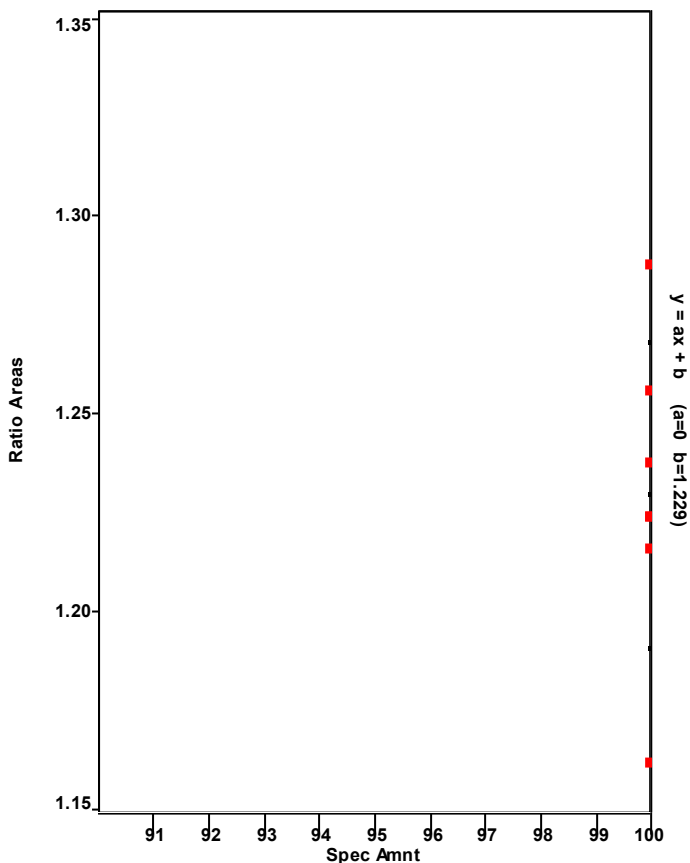
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	6595438
RM1 Area	3534991
RM1 Ratio (A)	0.5360
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	99.95
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

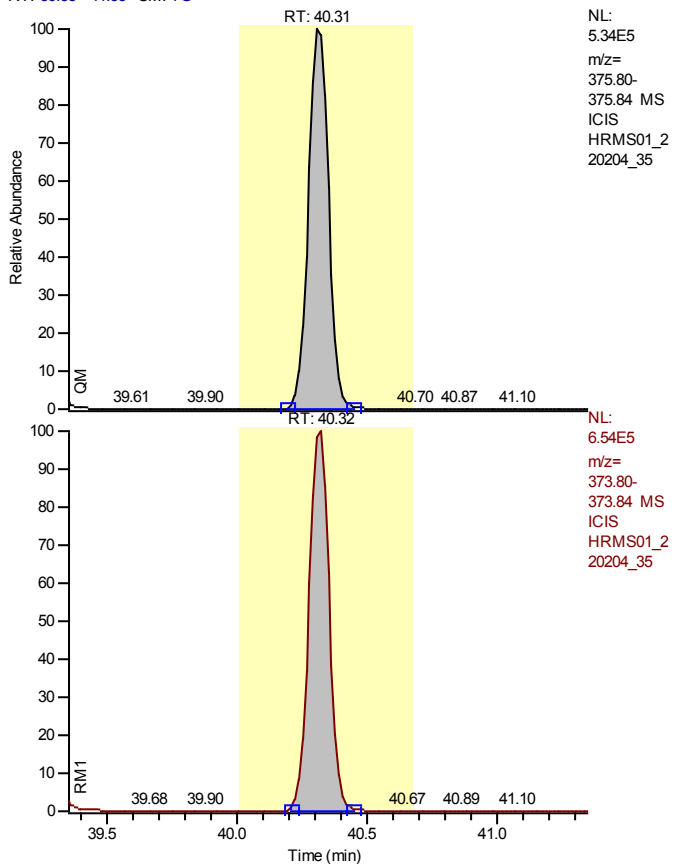
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.35 - 41.35 SM: 7G

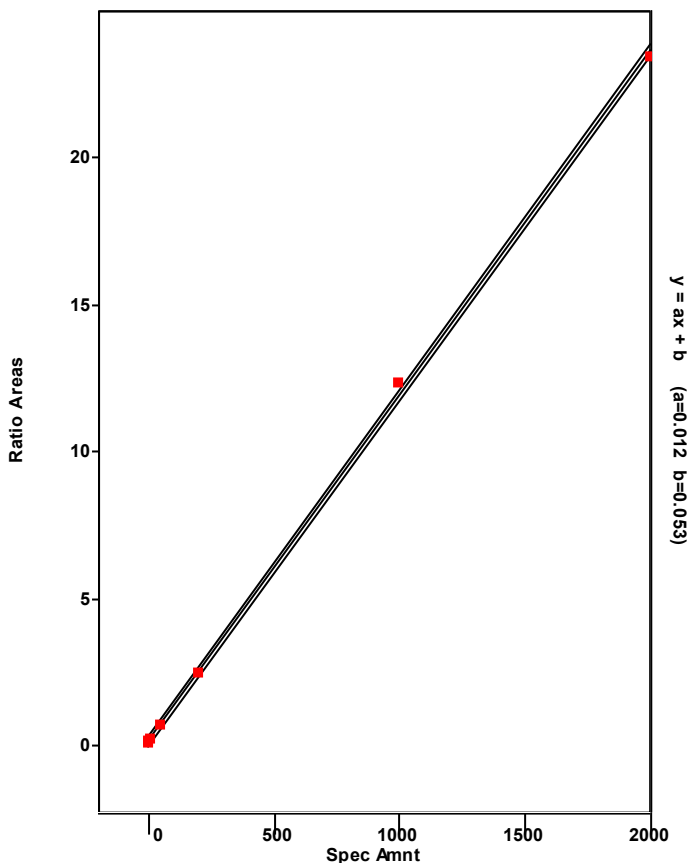


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	2888139
RM1 Area	3523715
RM1 Ratio (A)	1.2201
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.24
Percent Recovery (A)	102
TEQ (A)	5.1240
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

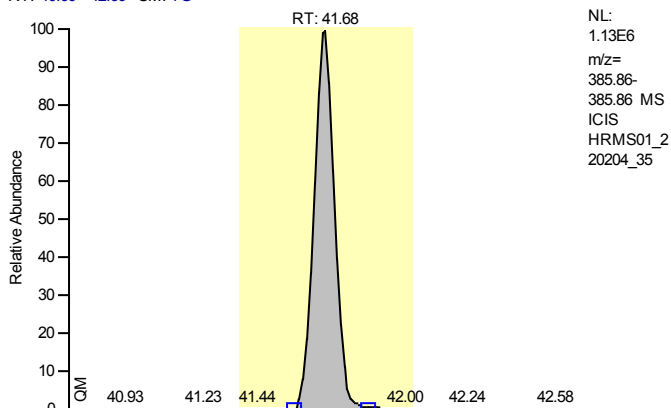
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



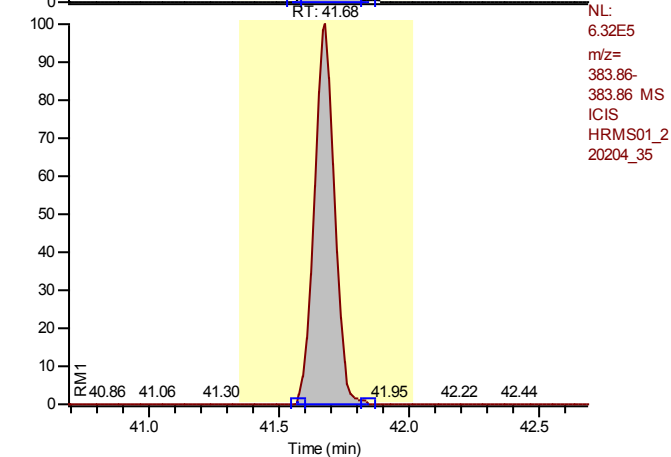
Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G



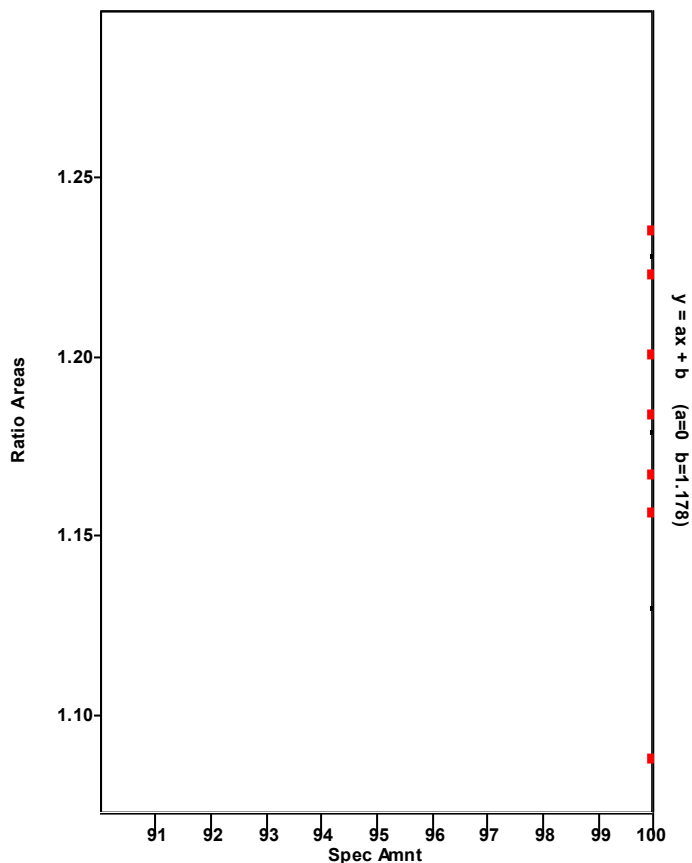
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	6157027
RM1 Area	3423046
RM1 Ratio (A)	0.5560
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	98.58
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

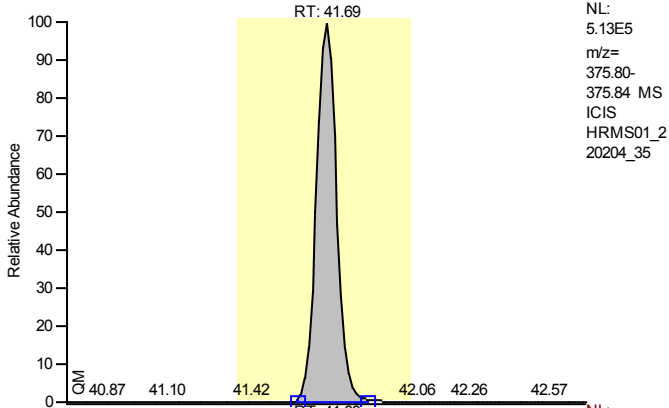
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



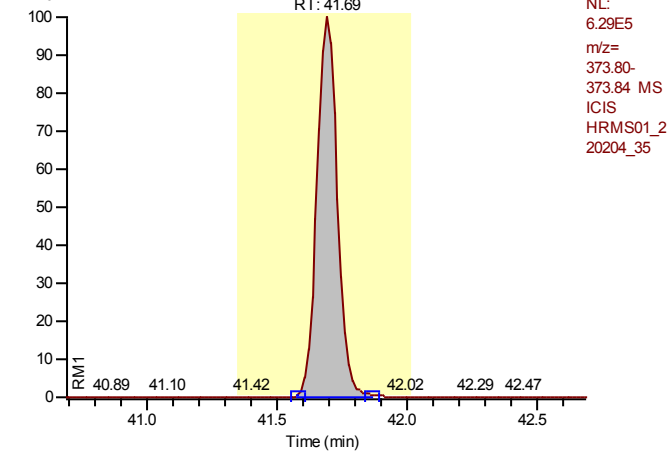
Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G



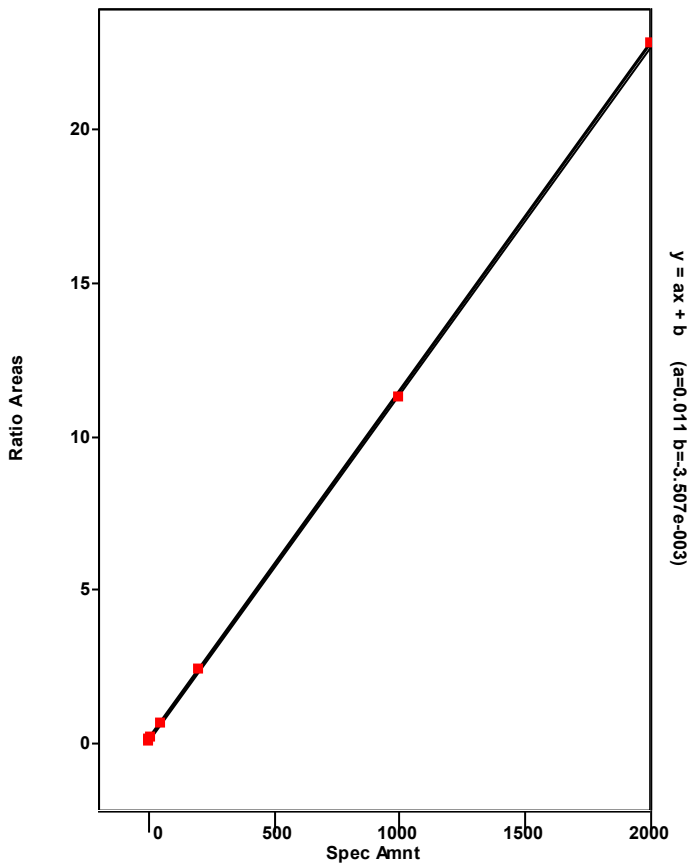
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	2775848
RM1 Area	3432246
RM1 Ratio (A)	1.2365
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.43
Percent Recovery (A)	111
TEQ (A)	5.5427
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

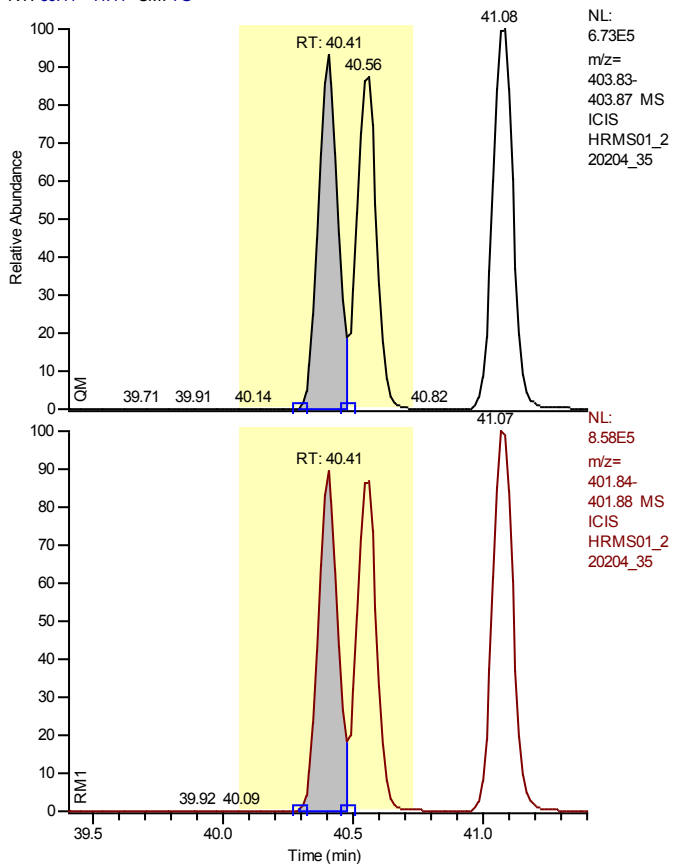
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

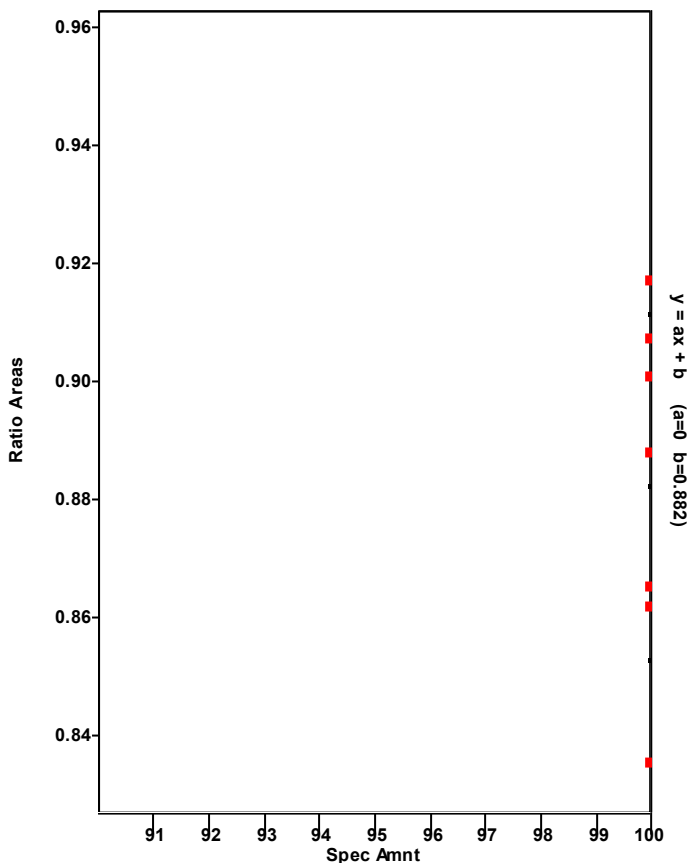
RT: 39.41 - 41.41 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	3271222
RM1 Area	3978430
RM1 Ratio (A)	1.2162
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	99.70
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

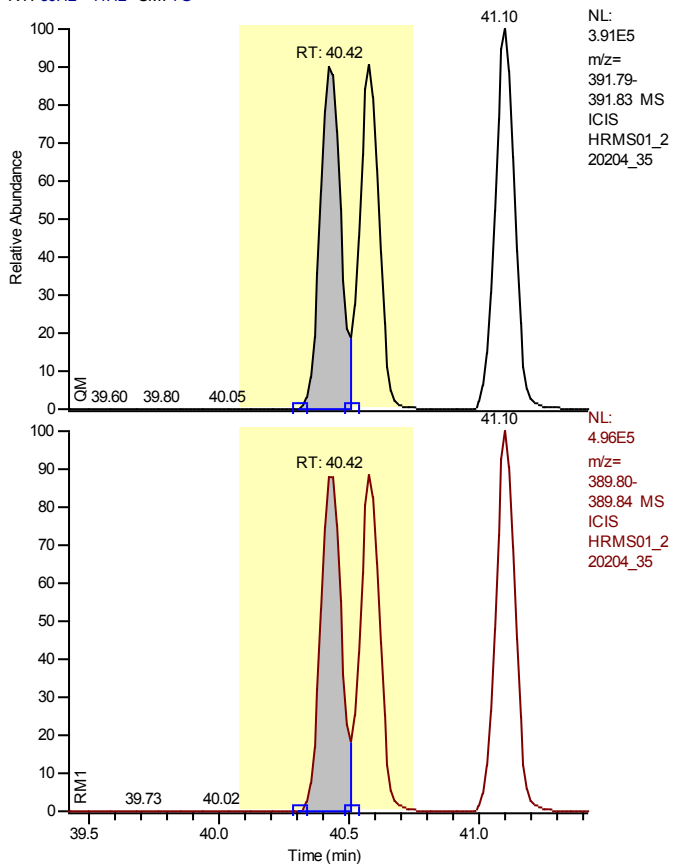
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.42 - 41.42 SM: 7G

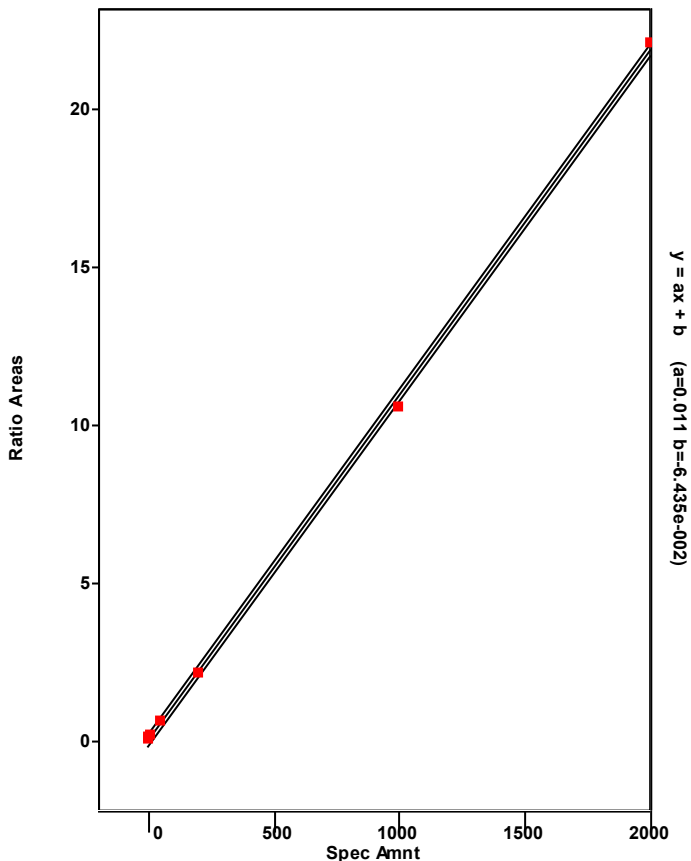


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	1906893
RM1 Area	2374257
RM1 Ratio (A)	1.2451
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.89
Percent Recovery (A)	108
TEQ (A)	5.3893
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

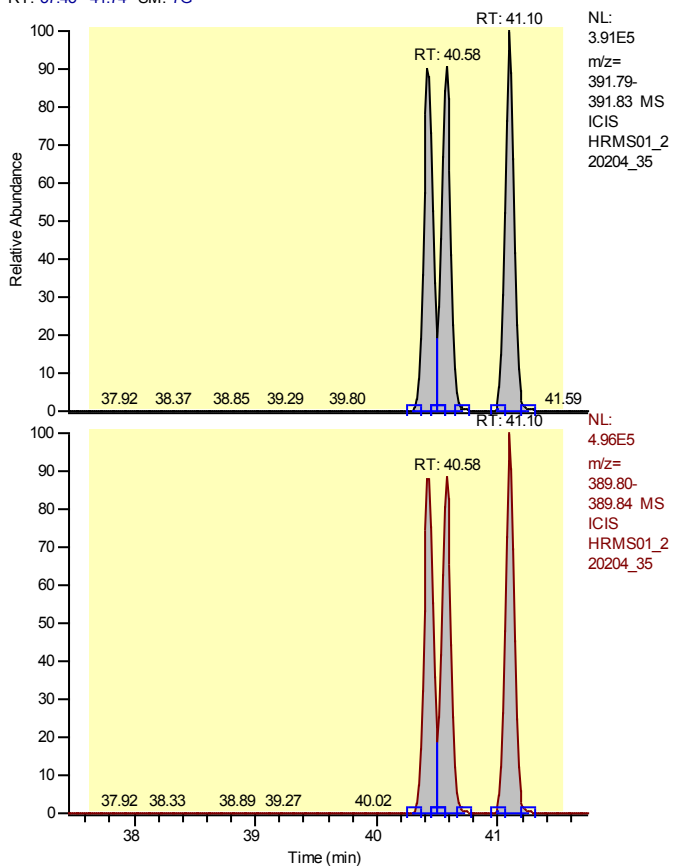
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.45 - 41.74 SM: 7G

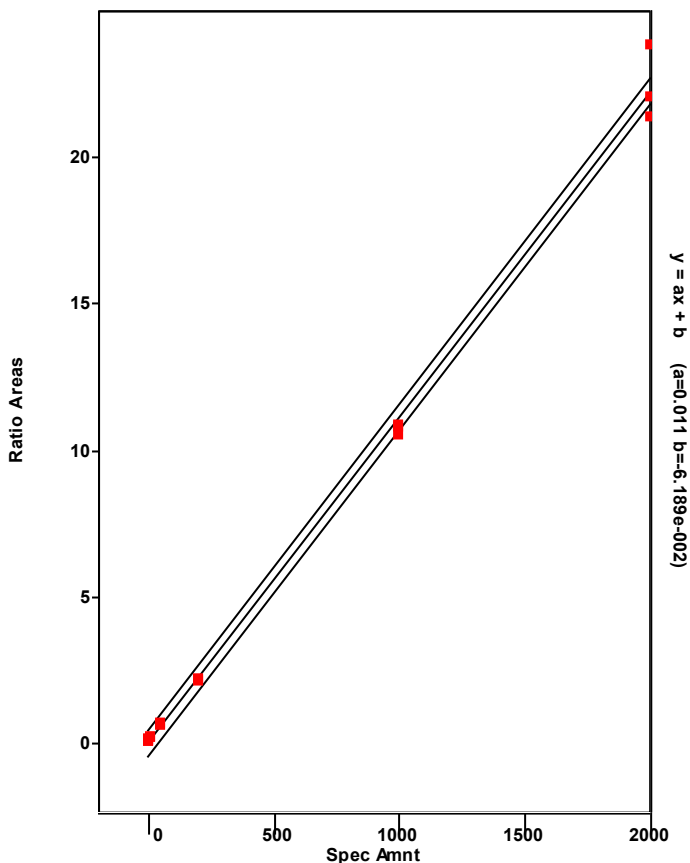


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	5807333
RM1 Area	7273809
RM1 Ratio (A)	1.2525
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	161.85
Percent Recovery (A)	324
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

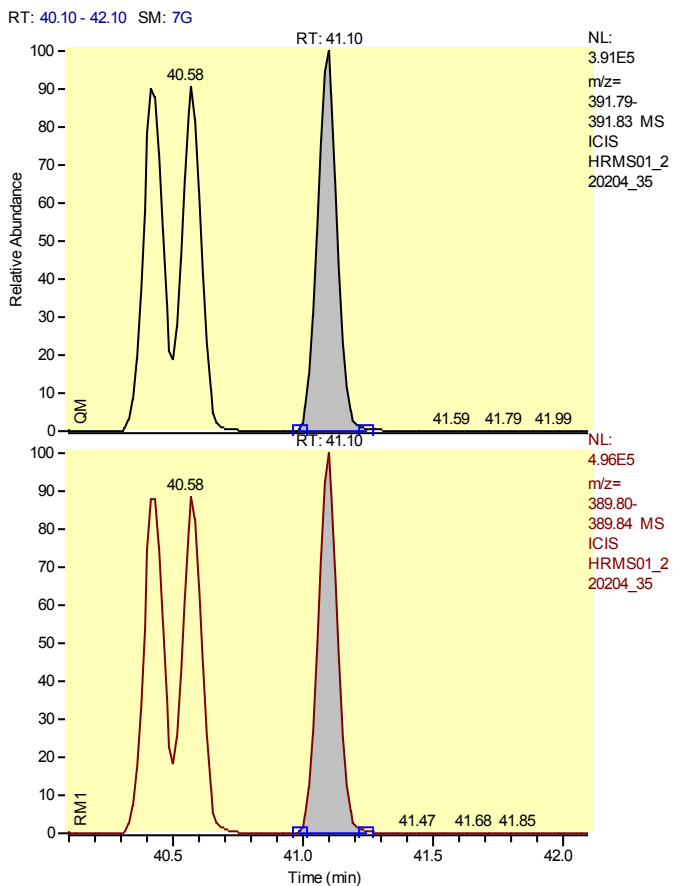
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

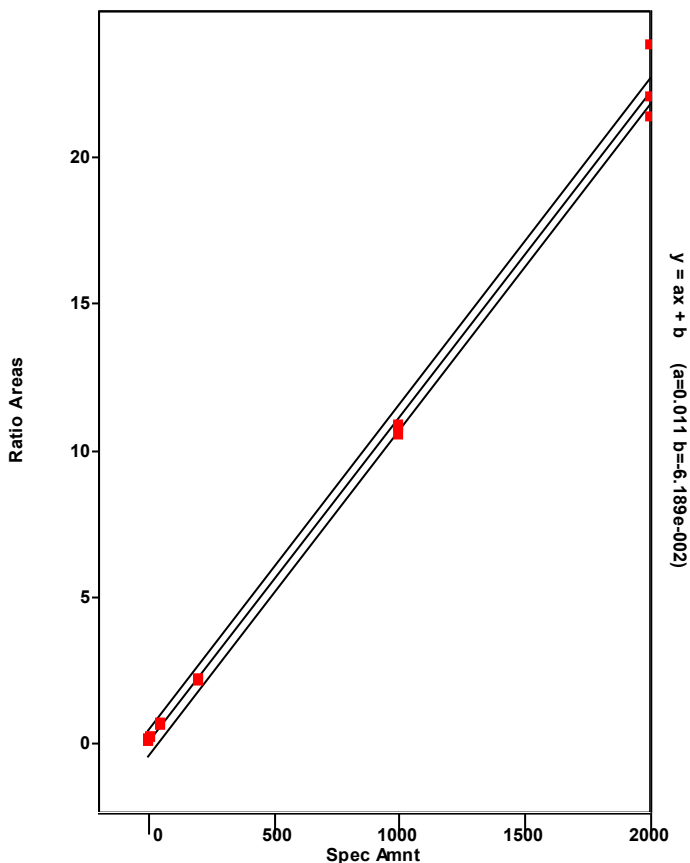


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	2059371
RM1 Area	2582233
RM1 Ratio (A)	1.2539
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	57.43
Percent Recovery (A)	115
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

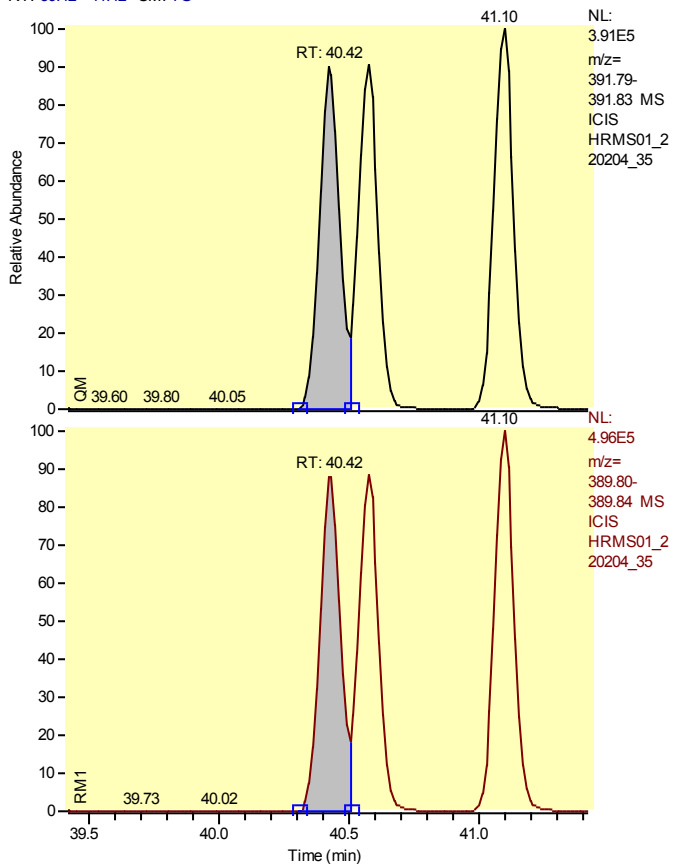
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.42 - 41.42 SM: 7G

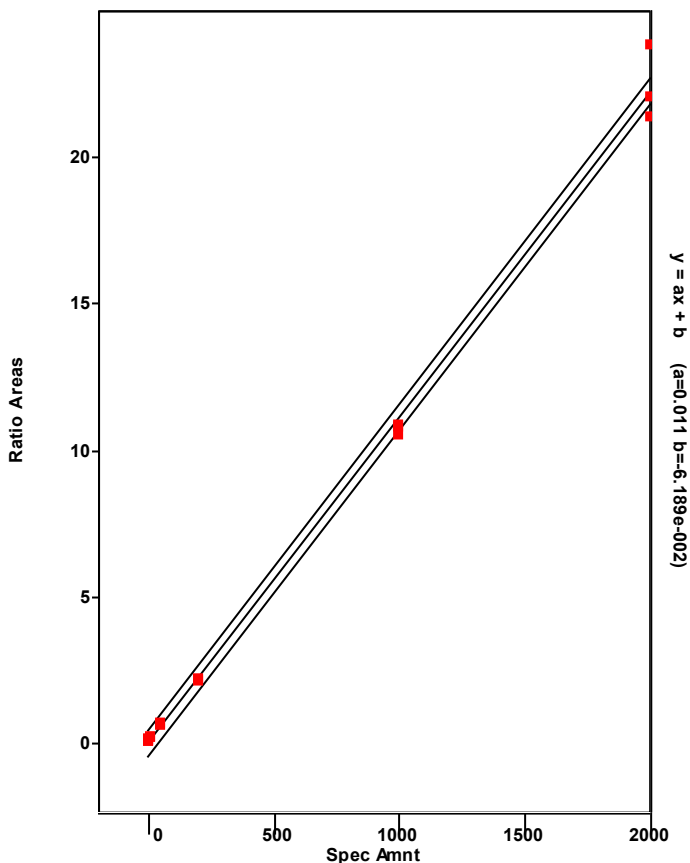


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1906893
RM1 Area	2374257
RM1 Ratio (A)	1.2451
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	52.97
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

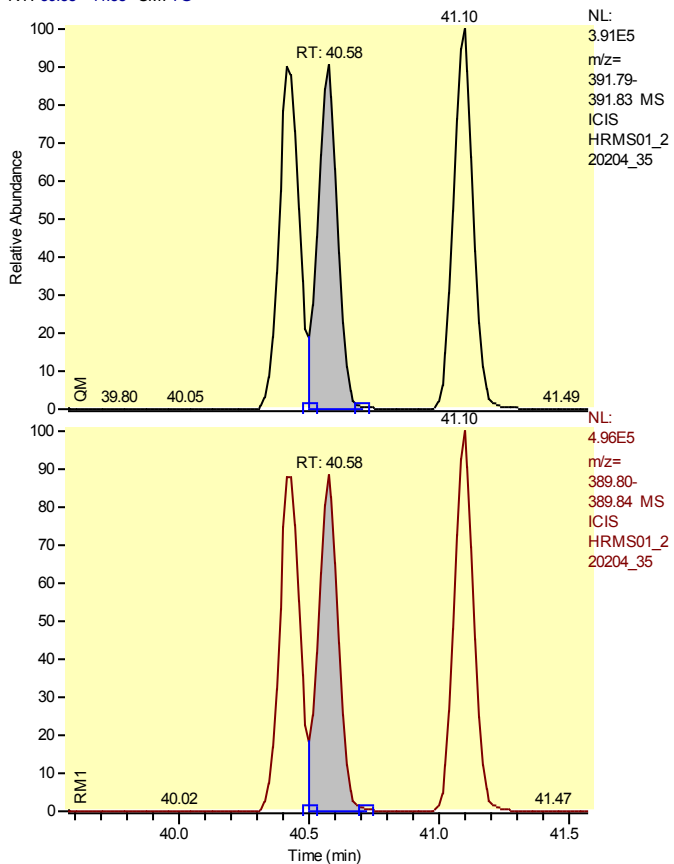
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.58 - 41.58 SM: 7G

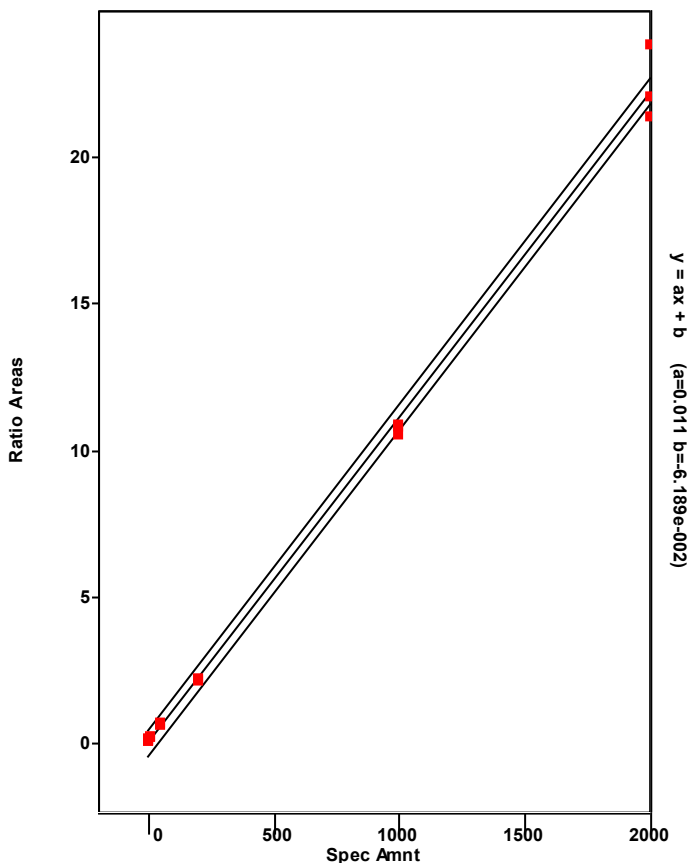


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1841069
RM1 Area	2317319
RM1 Ratio (A)	1.2587
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.45
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

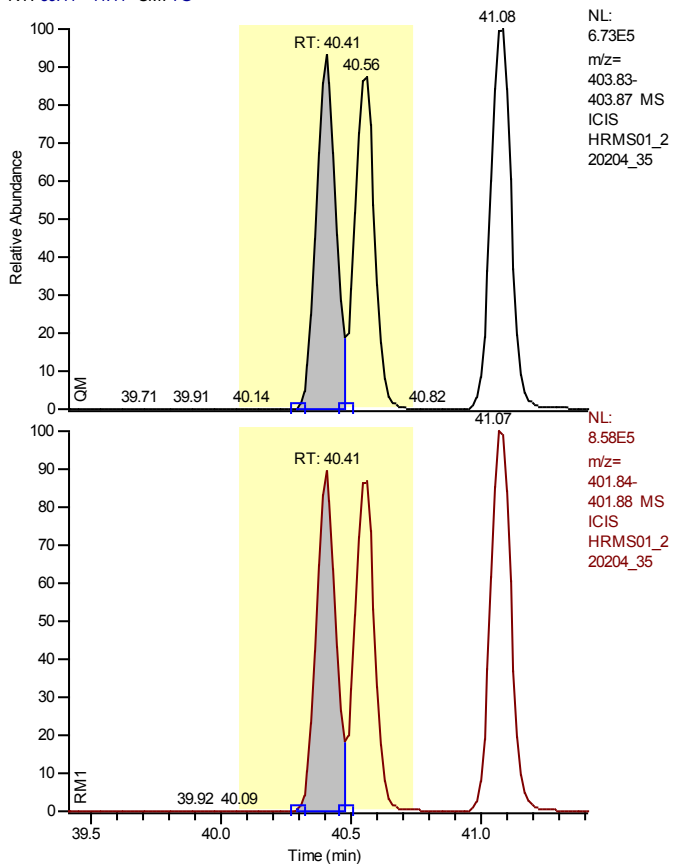
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

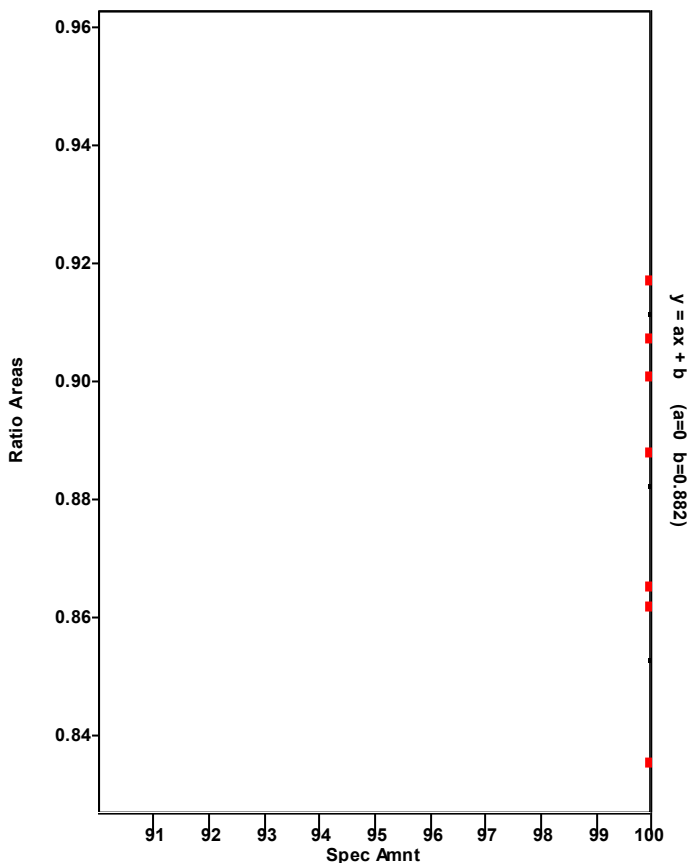
RT: 39.41 - 41.41 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	3271222
RM1 Area	3978430
RM1 Ratio (A)	1.2162
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	99.70
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

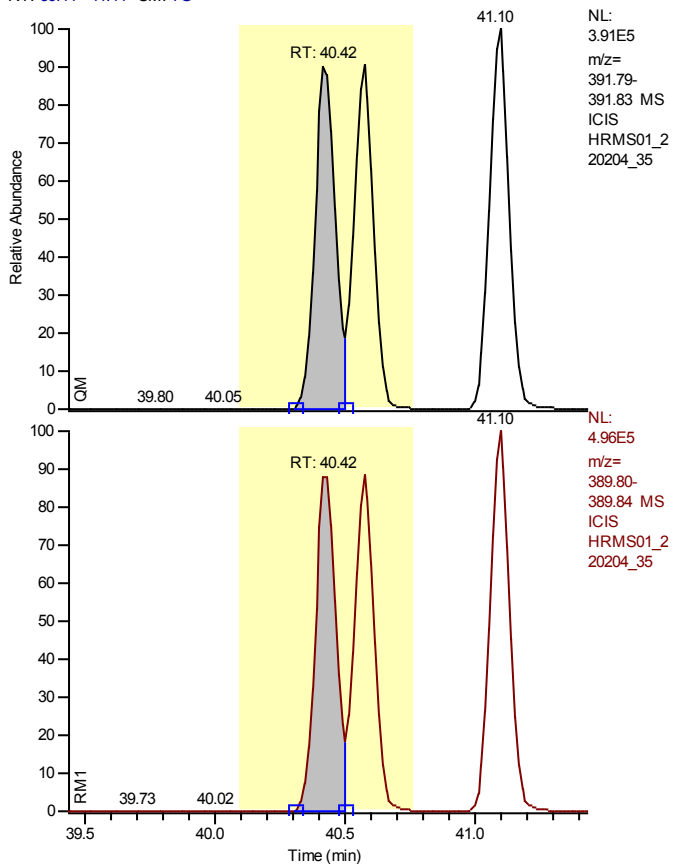
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.44 - 41.44 SM: 7G

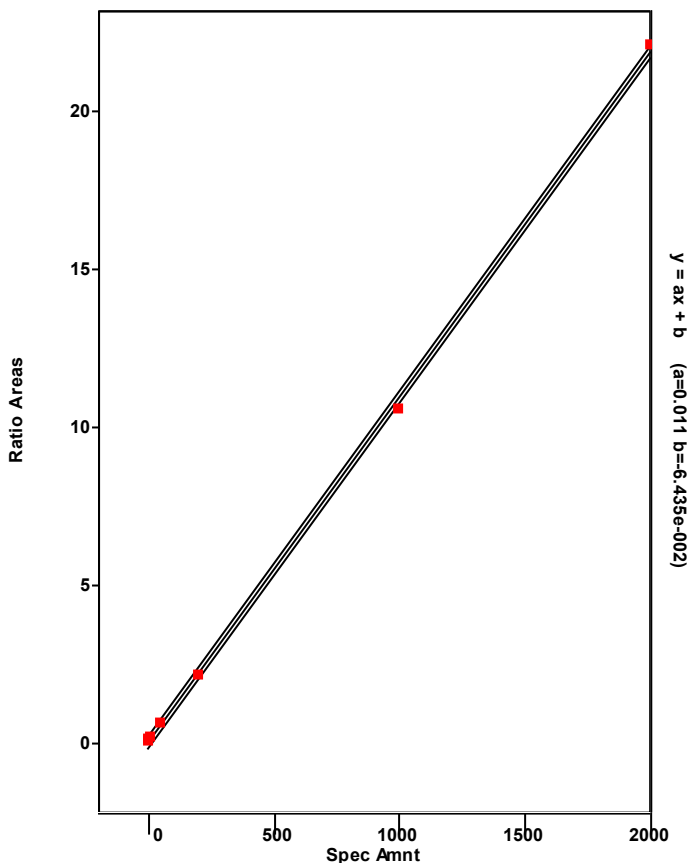


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	1906893
RM1 Area	2374257
RM1 Ratio (A)	1.2451
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.89
Percent Recovery (A)	108
TEQ (A)	5.3893
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

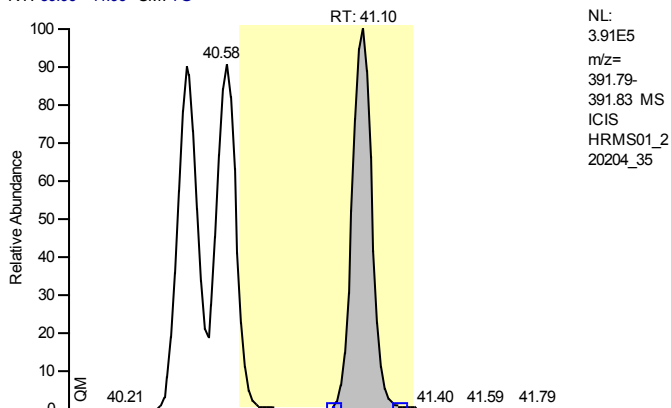
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

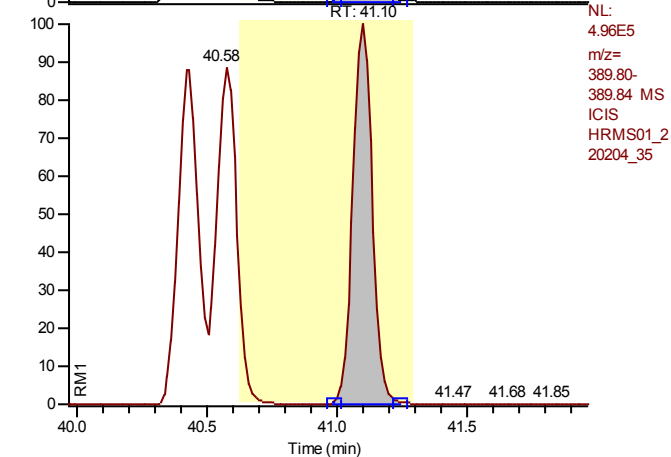
Entry Parameters

RT: 39.96 - 41.96 SM: 7G



NL:
 3.91E5
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20204_35

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	2059371
RM1 Area	2582233
RM1 Ratio (A)	1.2539
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.41
Percent Recovery (A)	111
TEQ (A)	5.5410
Label2	

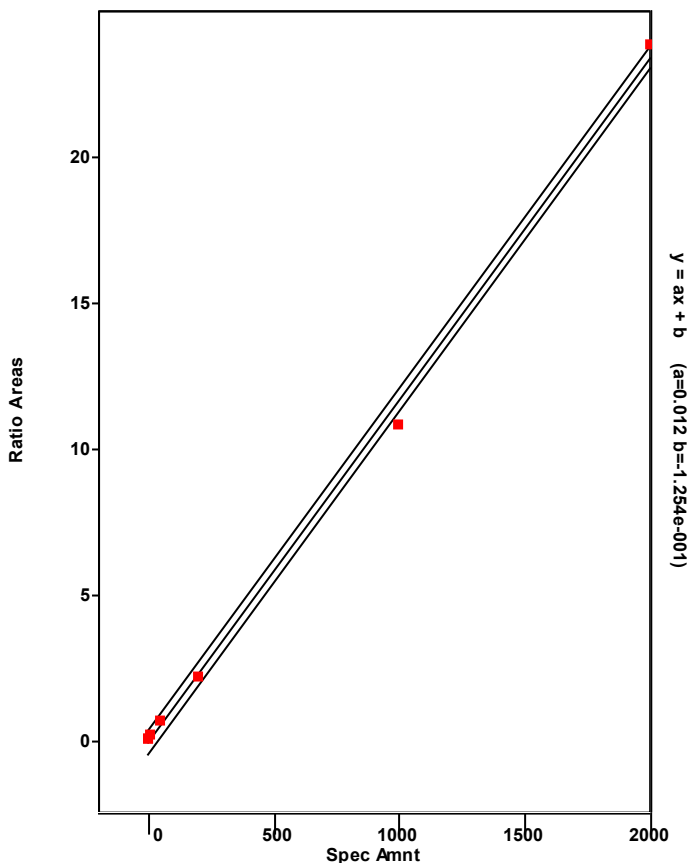


NL:
 4.96E5
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20204_35

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

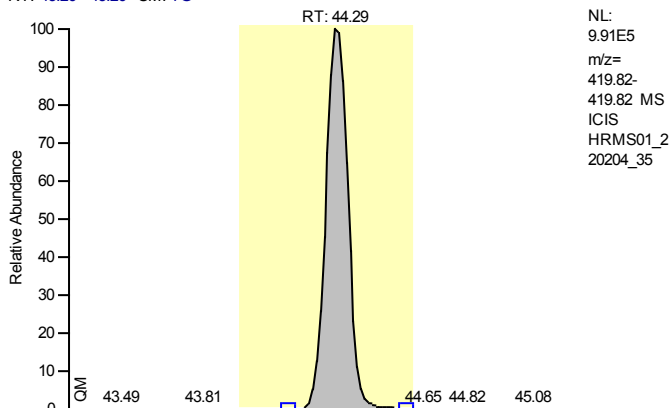
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



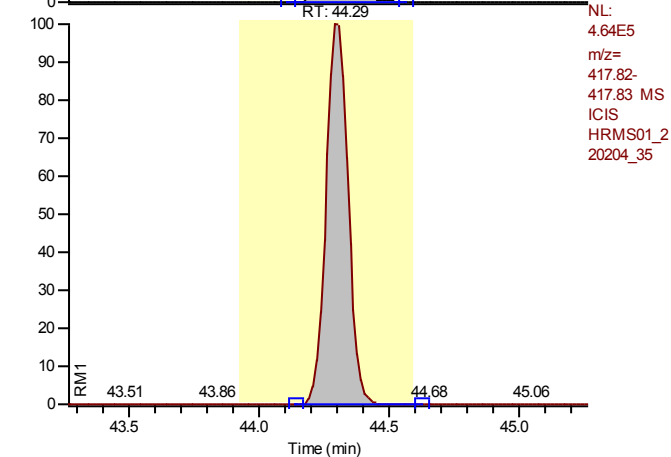
Chromatogram

Entry Parameters

RT: 43.26 - 45.26 SM: 7G

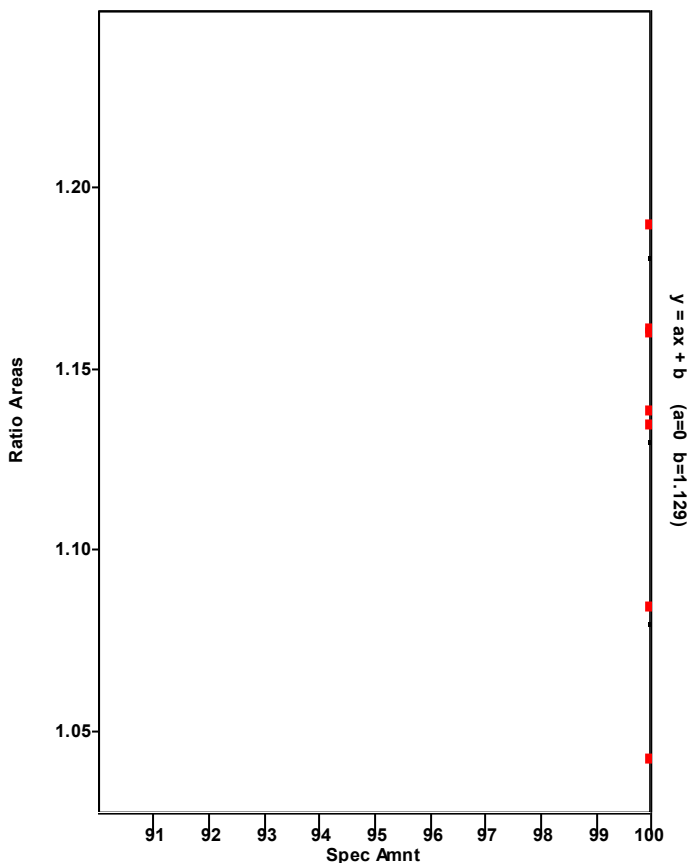


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	5876580
RM1 Area	2737485
RM1 Ratio (A)	0.4658
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	92.49
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

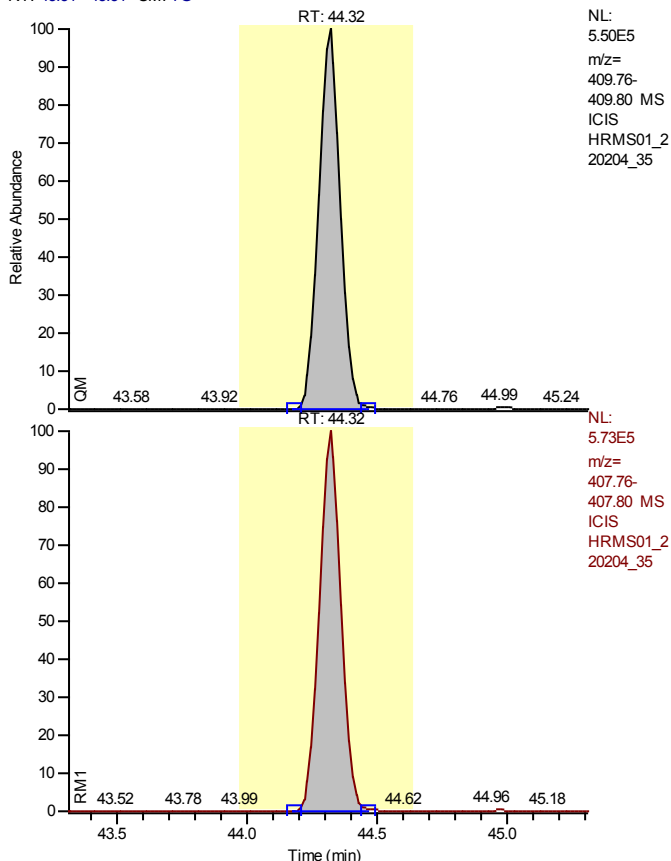
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.31 - 45.31 SM: 7G

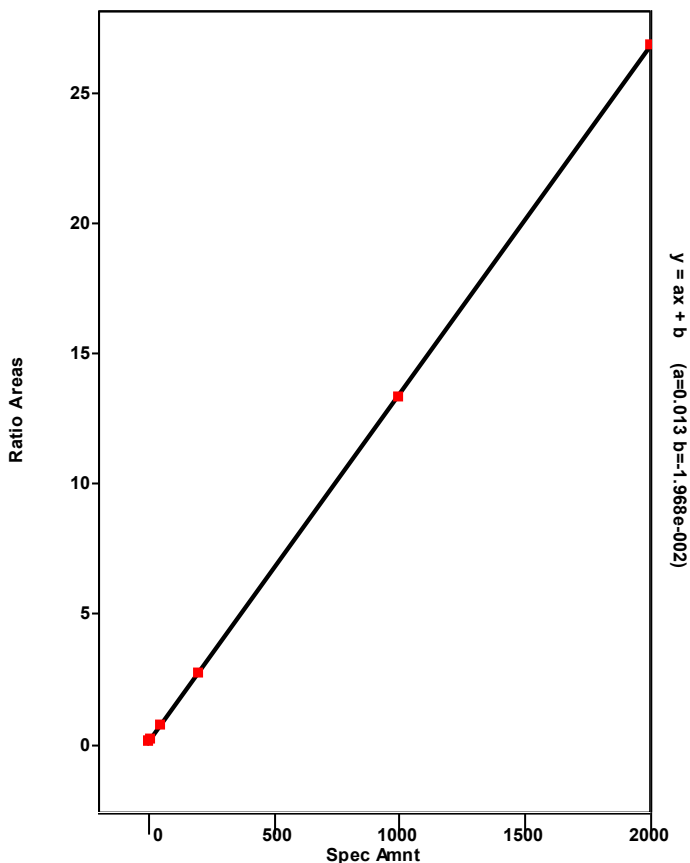


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	3176045
RM1 Area	3306762
RM1 Ratio (A)	1.0412
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.78
Percent Recovery (A)	112
TEQ (A)	0.5578
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

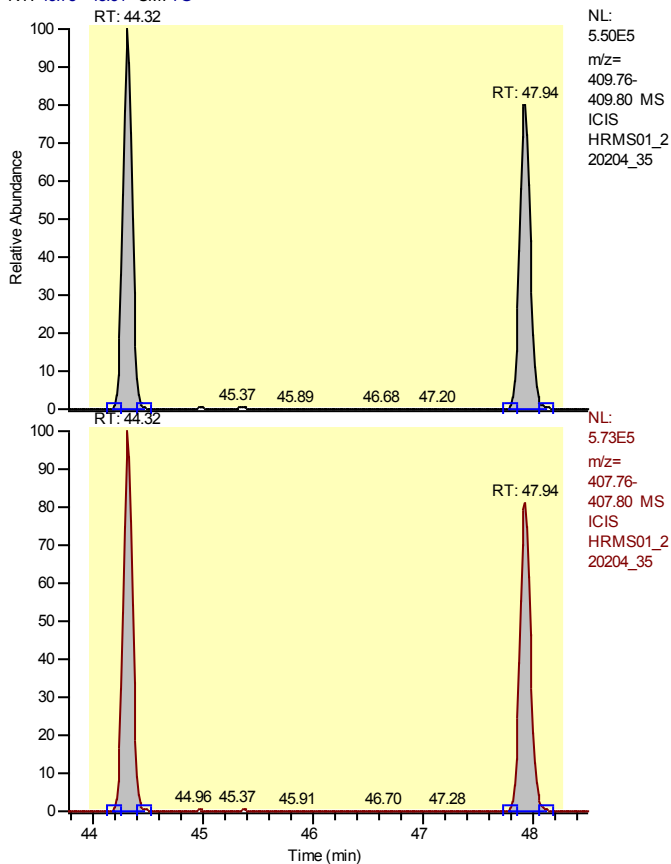
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

RT: 43.78 - 48.51 SM: 7G

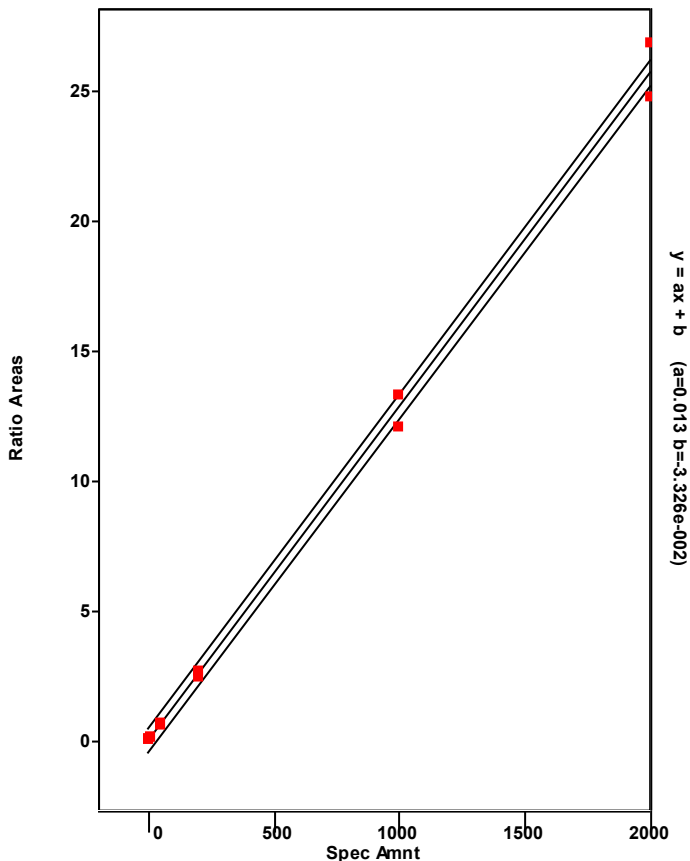


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	6214775
RM1 Area	6481415
RM1 Ratio (A)	1.0429
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	114.73
Percent Recovery (A)	229
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

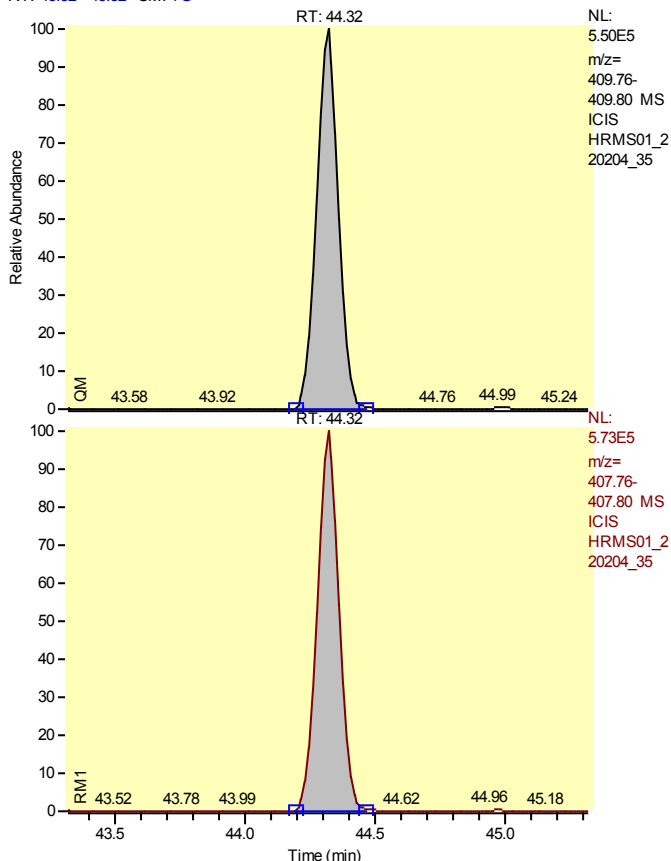
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.32- 45.32 SM: 7G

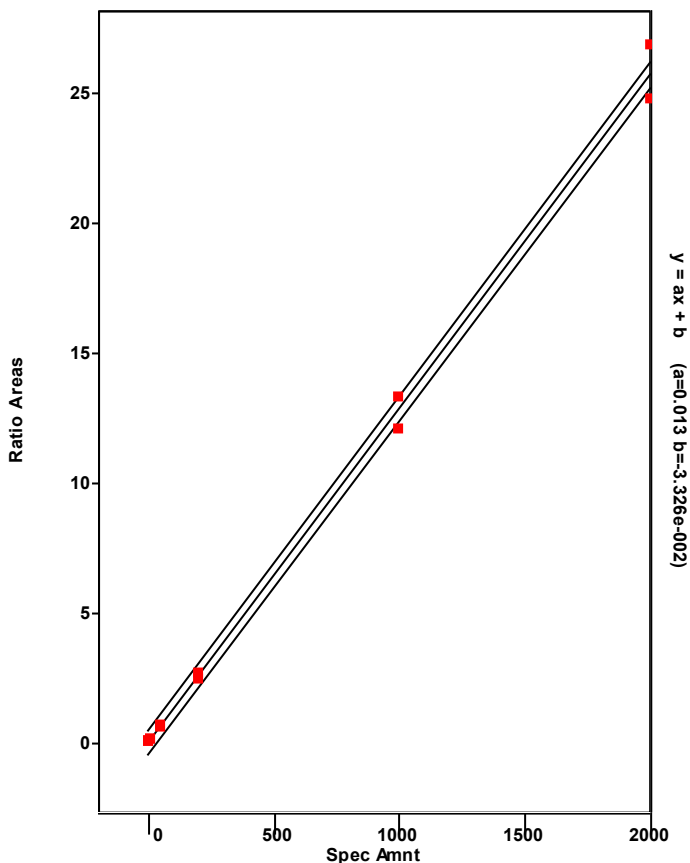


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	3191077
RM1 Area	3325413
RM1 Ratio (A)	1.0421
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	58.89
Percent Recovery (A)	118
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

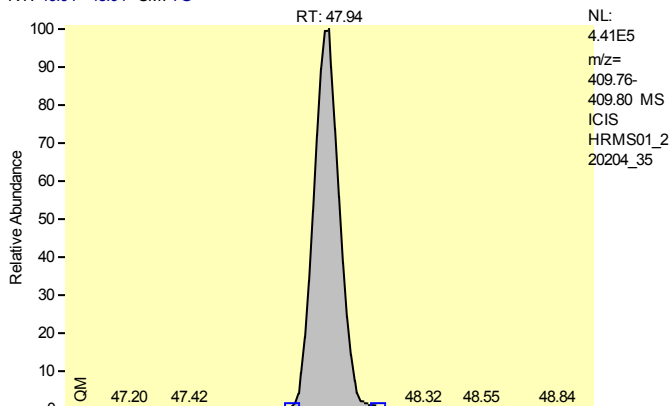
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



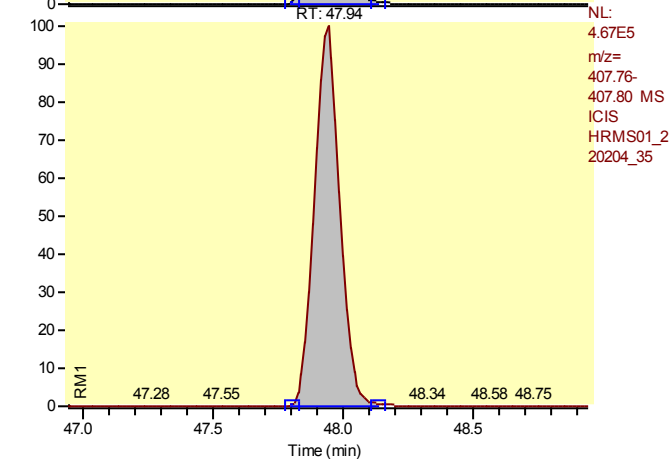
Chromatogram

Entry Parameters

RT: 46.94 - 48.94 SM: 7G



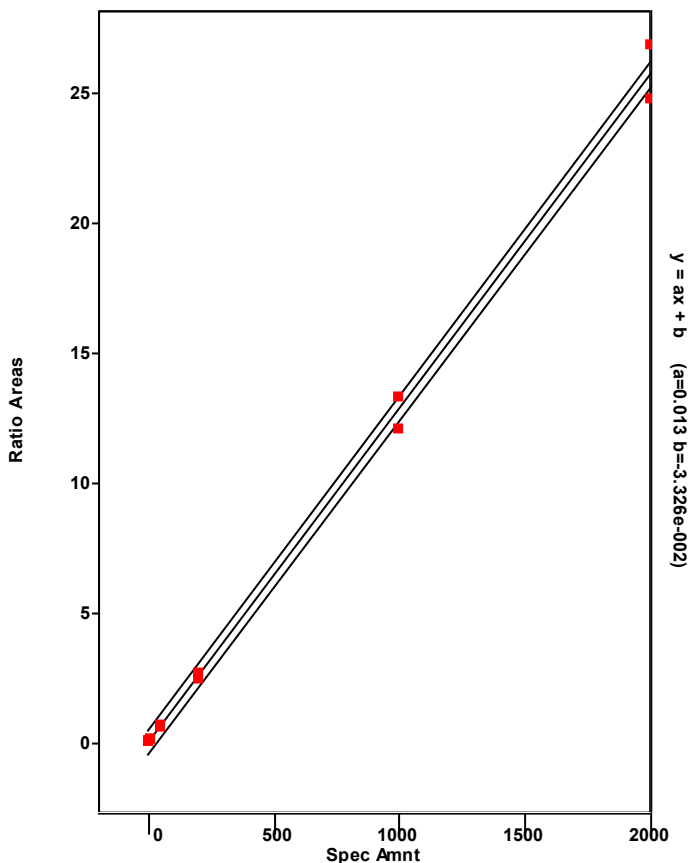
Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	3023698
RM1 Area	3156003
RM1 Ratio (A)	1.0438
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.84
Percent Recovery (A)	112
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

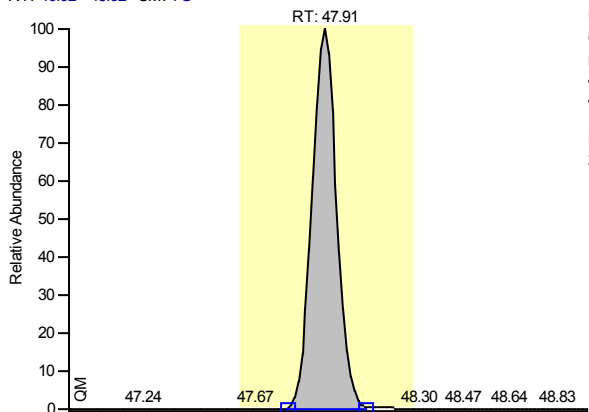
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

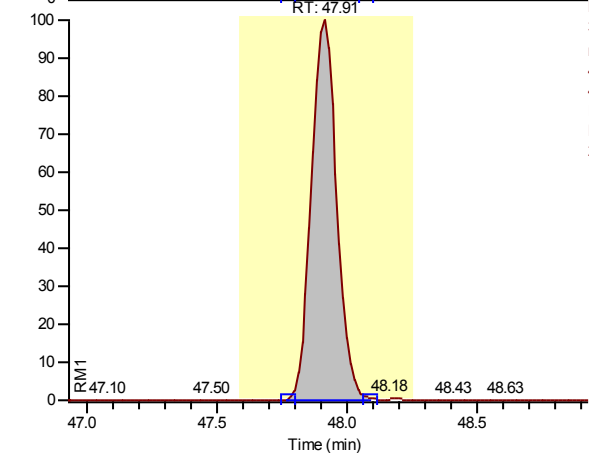
Entry Parameters

RT: 46.92 - 48.92 SM: 7G



NL:
 8.63E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20204_35

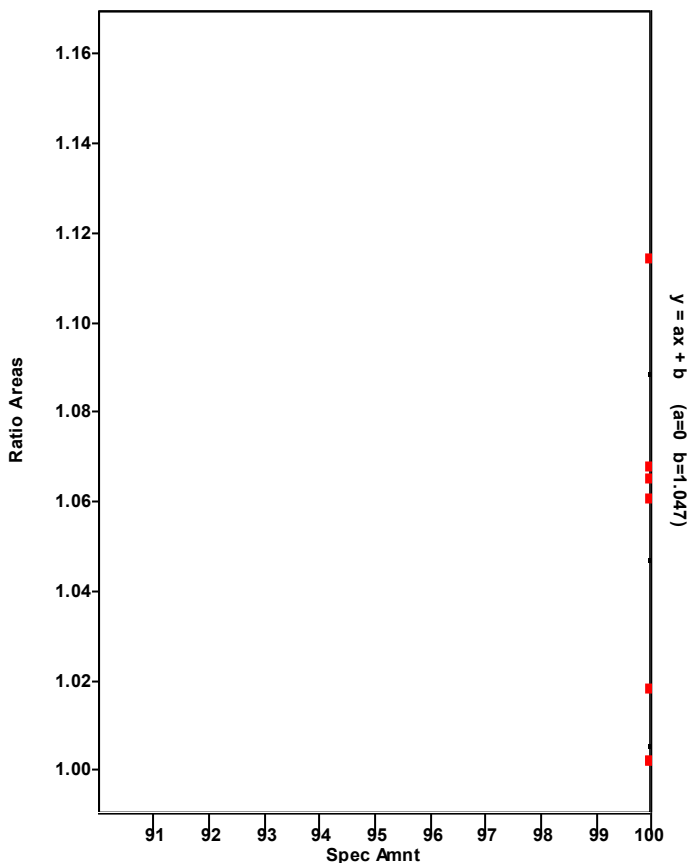
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	5663547
RM1 Area	2579203
RM1 Ratio (A)	0.4554
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	95.50
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	



NL:
 3.83E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20204_35

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

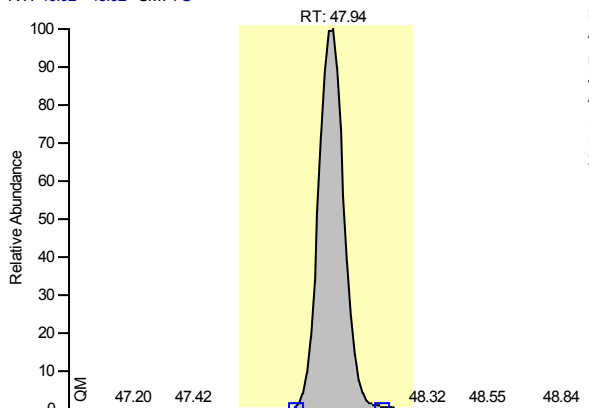
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

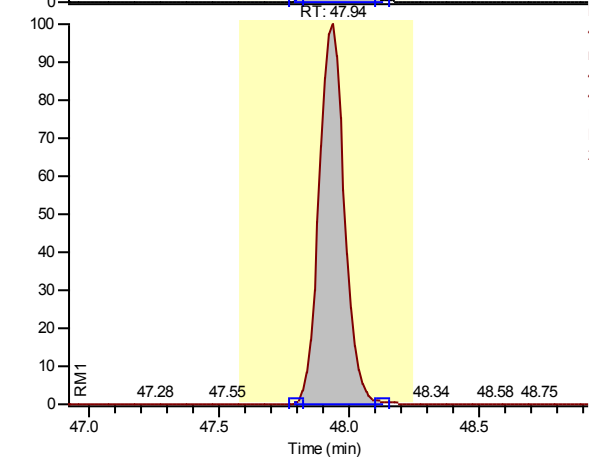
Entry Parameters

RT: 46.92 - 48.92 SM: 7G



NL:
4.41E5
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	3023698
RM1 Area	3156003
RM1 Ratio (A)	1.0438
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	56.96
Percent Recovery (A)	114
TEQ (A)	0.5696
Label2	

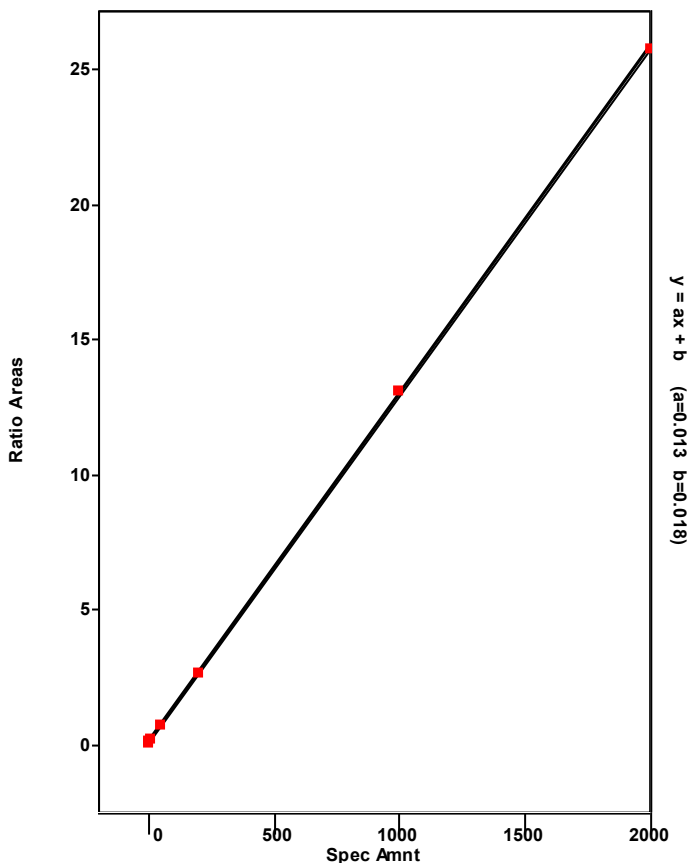


NL:
4.67E5
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20204_35

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

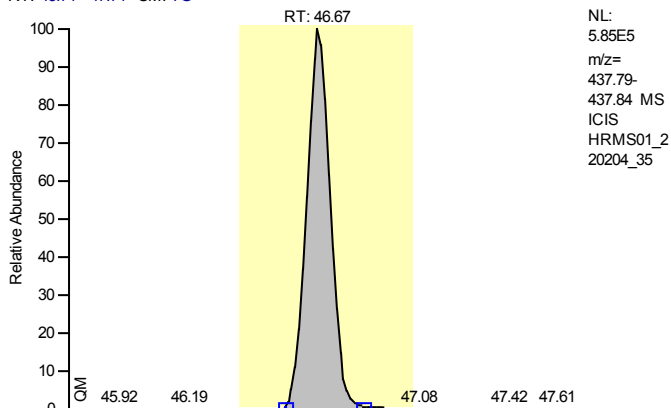
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



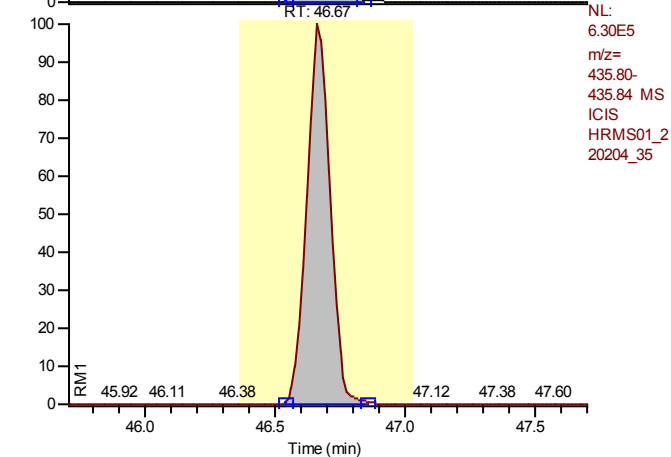
Chromatogram

Entry Parameters

RT: 45.71 - 47.71 SM: 7G

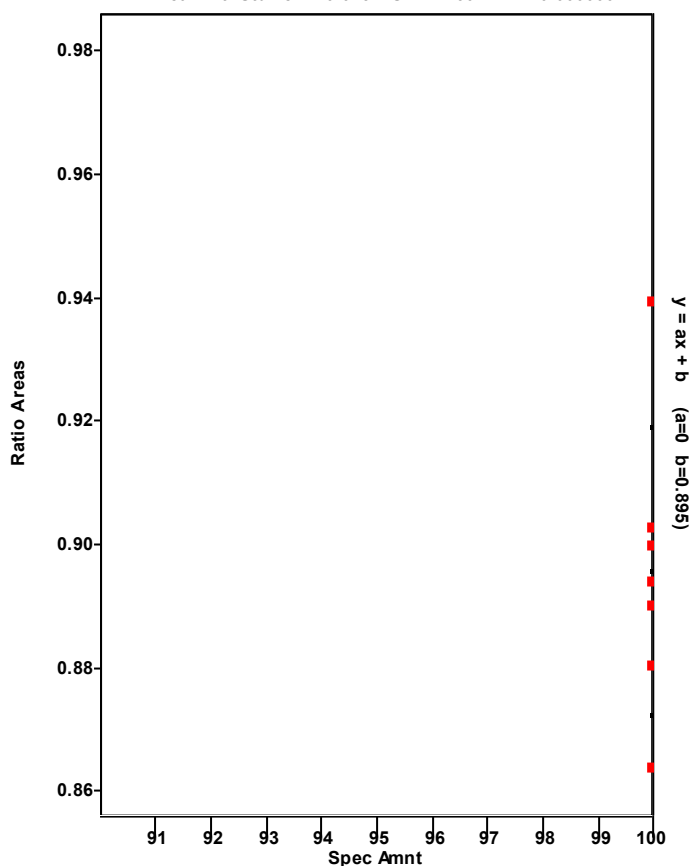


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	3743784
RM1 Area	3956040
RM1 Ratio (A)	1.0567
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	104.28
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

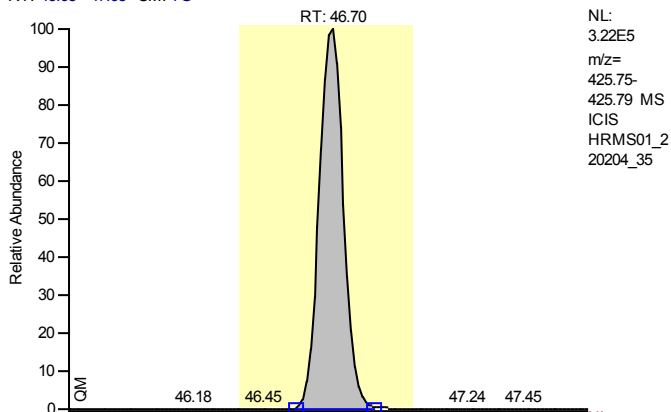
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



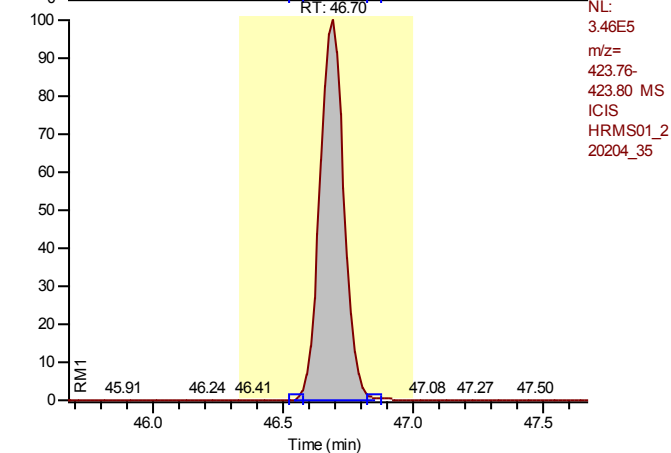
Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G



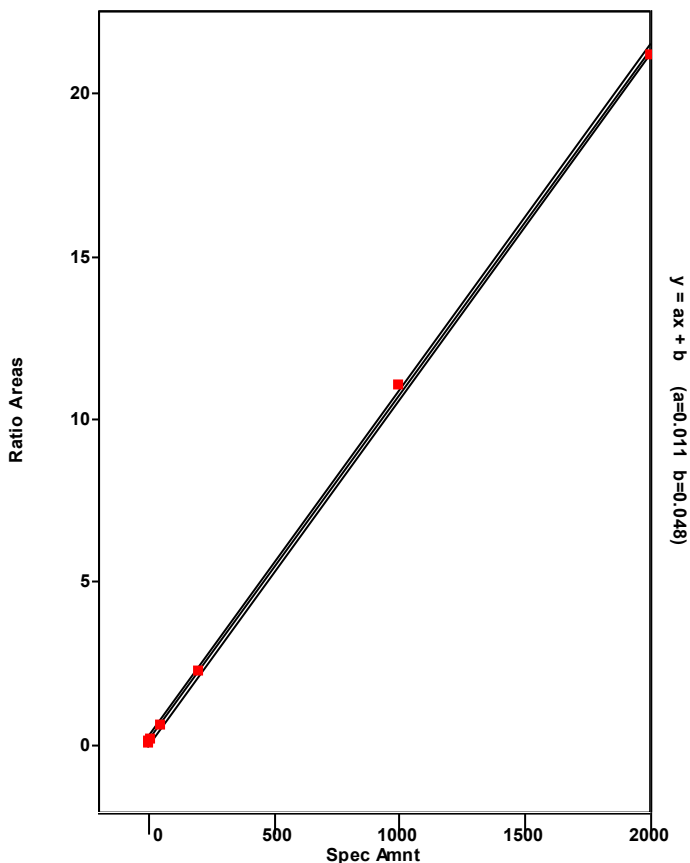
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	2096960
RM1 Area	2224240
RM1 Ratio (A)	1.0607
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.64
Percent Recovery (A)	101
TEQ (A)	0.5064
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

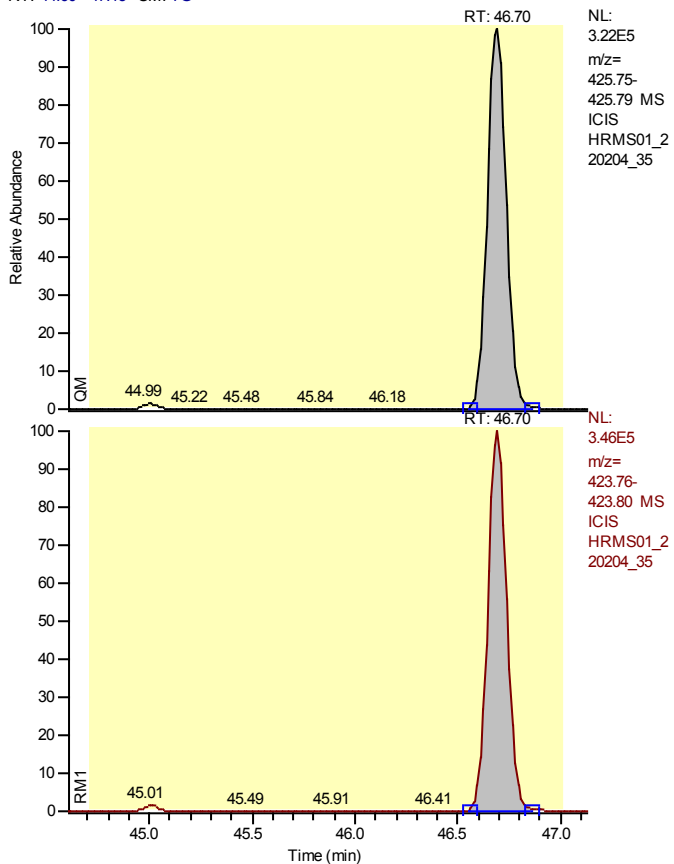
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.60 - 47.13 SM: 7G

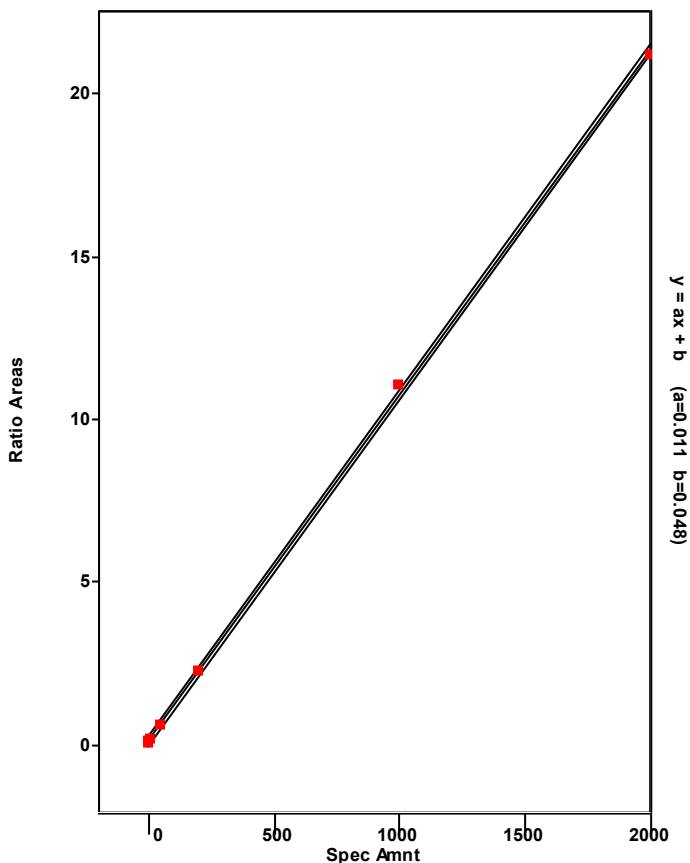


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	2096960
RM1 Area	2224240
RM1 Ratio (A)	1.0607
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.64
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

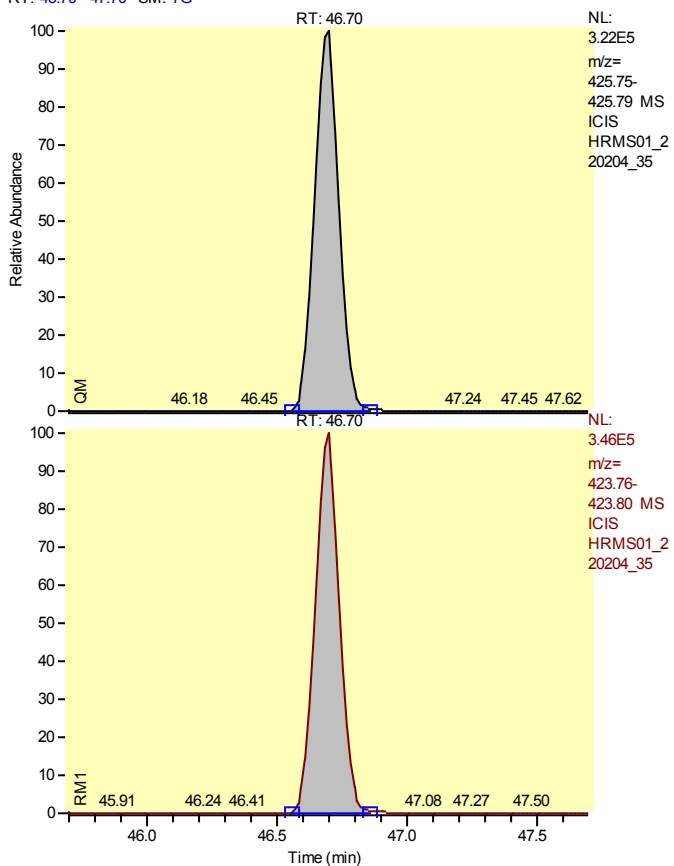
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.70 - 47.70 SM: 7G

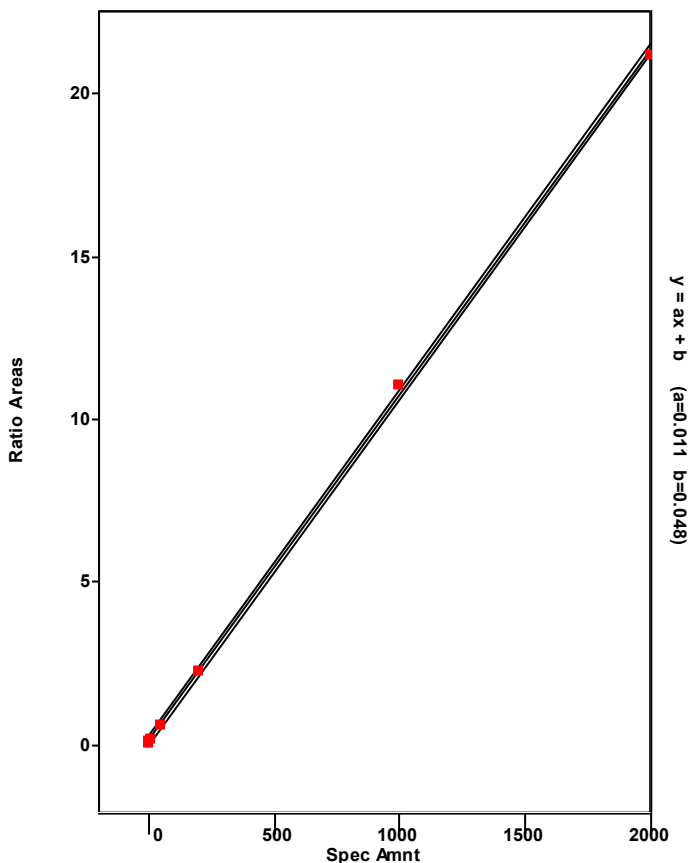


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	2096960
RM1 Area	2224240
RM1 Ratio (A)	1.0607
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.64
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

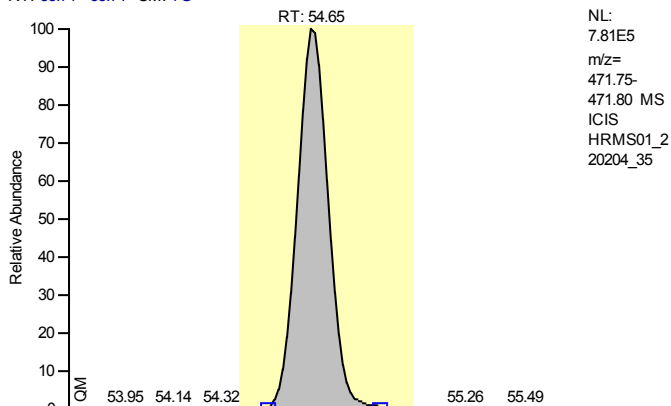
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



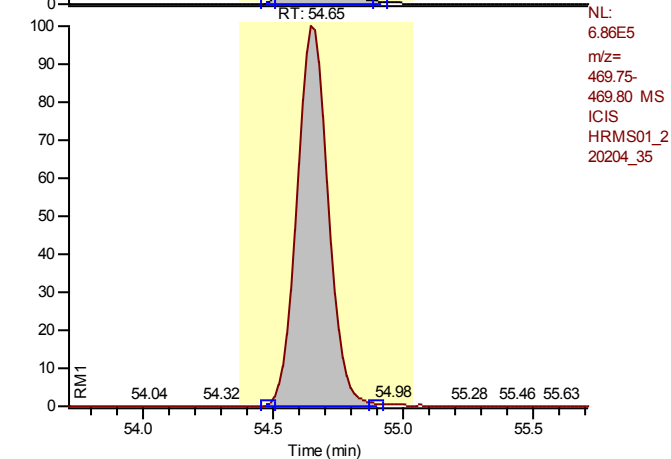
Chromatogram

Entry Parameters

RT: 53.71 - 55.71 SM: 7G



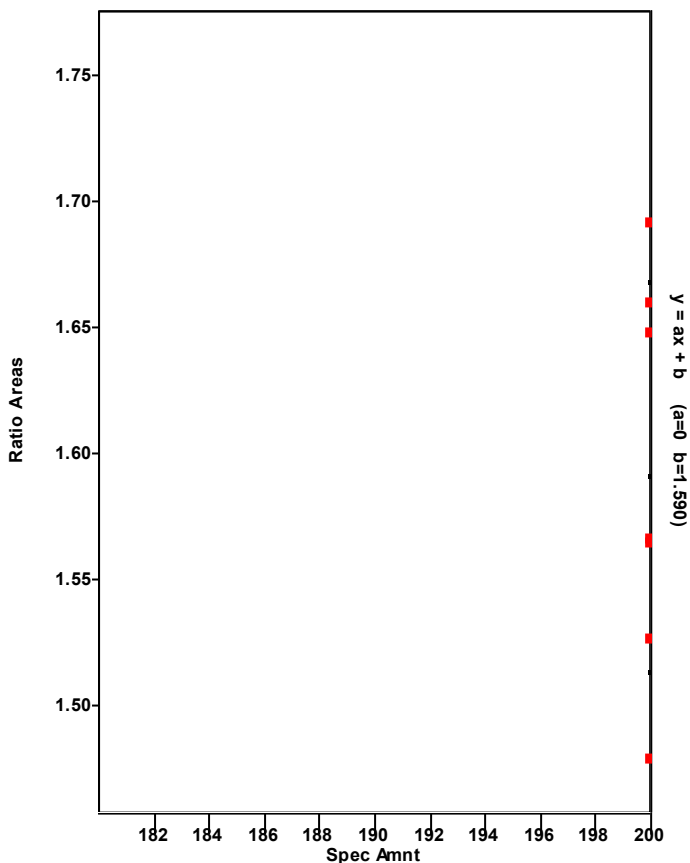
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	6519465
RM1 Area	5767684
RM1 Ratio (A)	0.8847
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	187.44
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

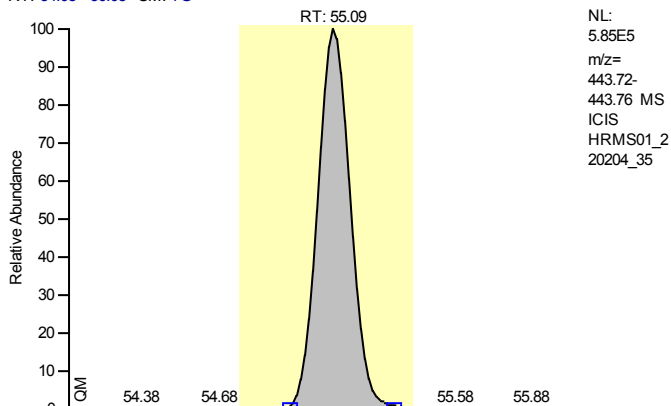
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



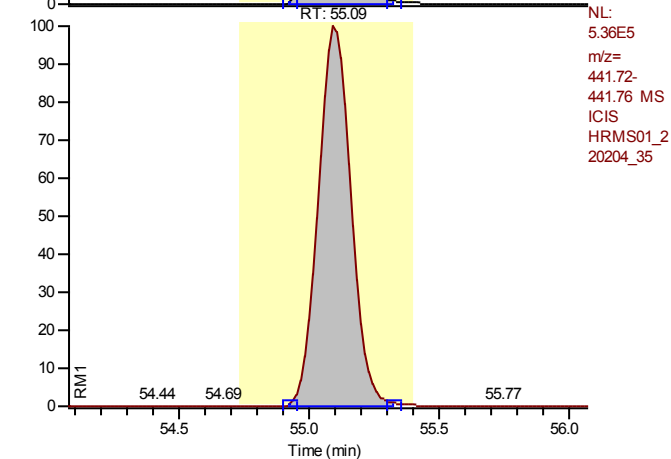
Chromatogram

Entry Parameters

RT: 54.08 - 56.08 SM: 7G



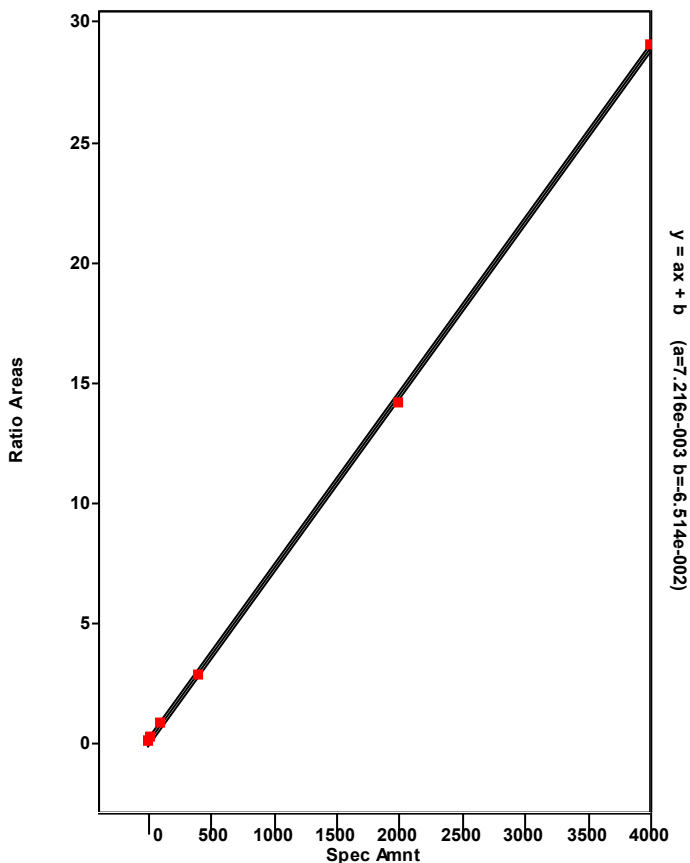
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	5111140
RM1 Area	4708767
RM1 Ratio (A)	0.9213
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	113.56
Percent Recovery (A)	114
TEQ (A)	0.0341
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

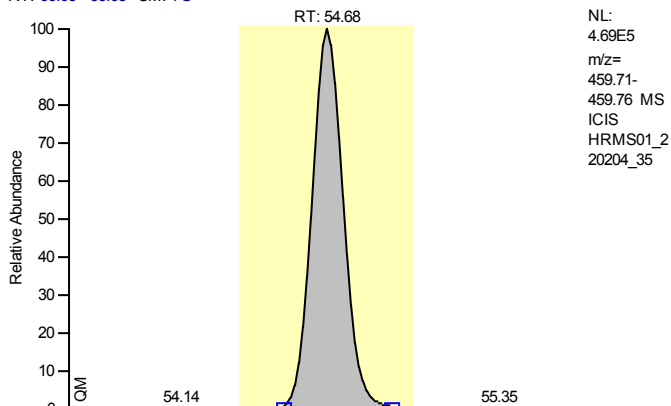
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

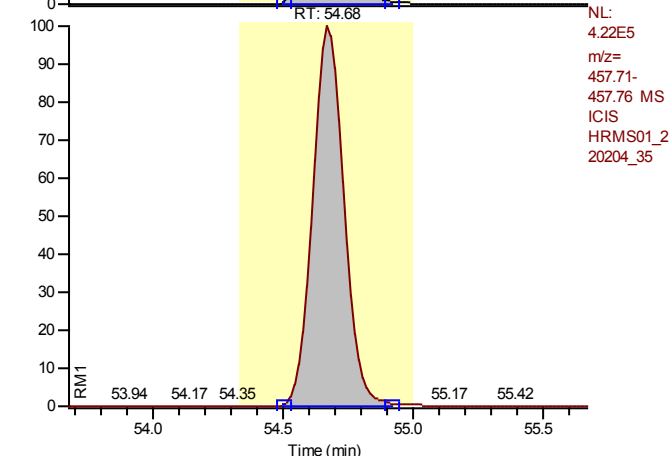
Entry Parameters

RT: 53.68 - 55.68 SM: 7G



NL:
4.69E5
m/z=
459.71-
459.76 MS
ICIS
HRMS01_2
20204_35

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	3945608
RM1 Area	3536044
RM1 Ratio (A)	0.8962
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	114.92
Percent Recovery (A)	115
TEQ (A)	0.0345
Label2	

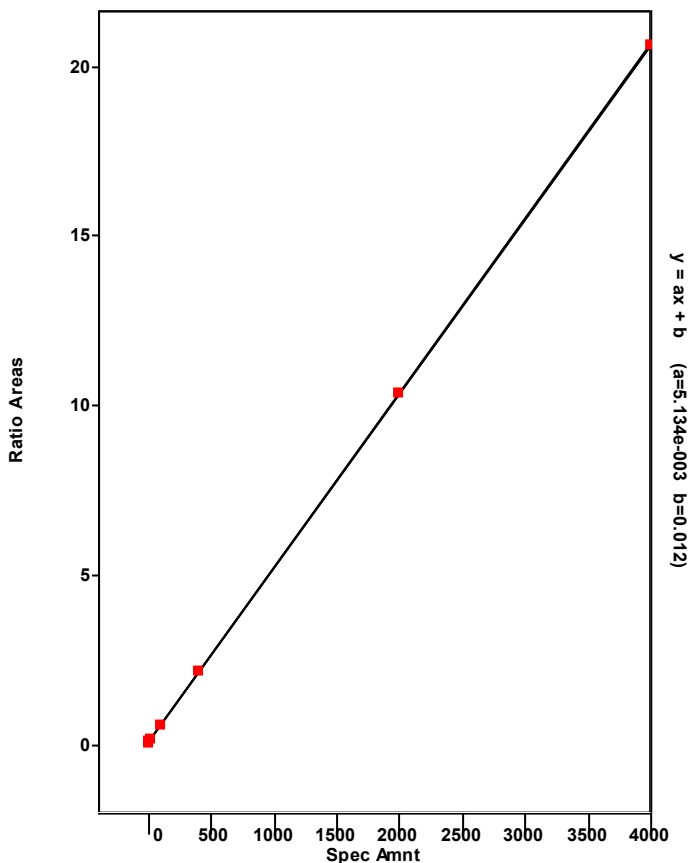


NL:
4.22E5
m/z=
457.71-
457.76 MS
ICIS
HRMS01_2
20204_35

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

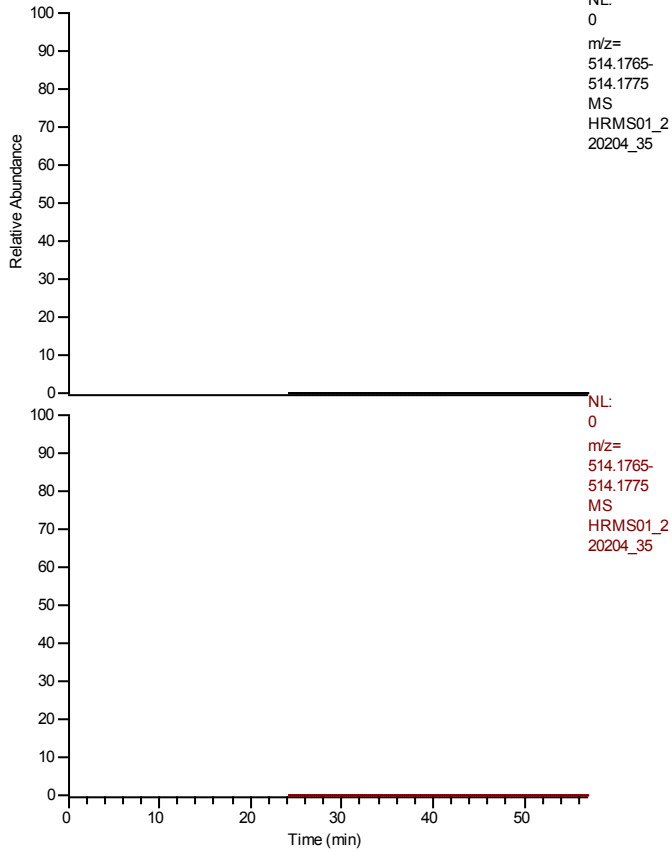
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

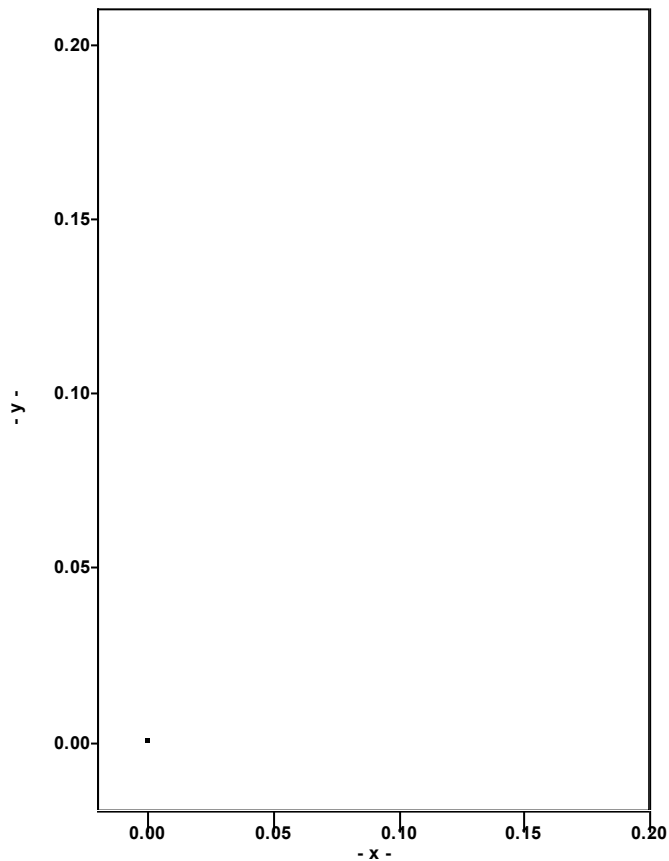
RT: 0.00 - 57.02 SM: 5G

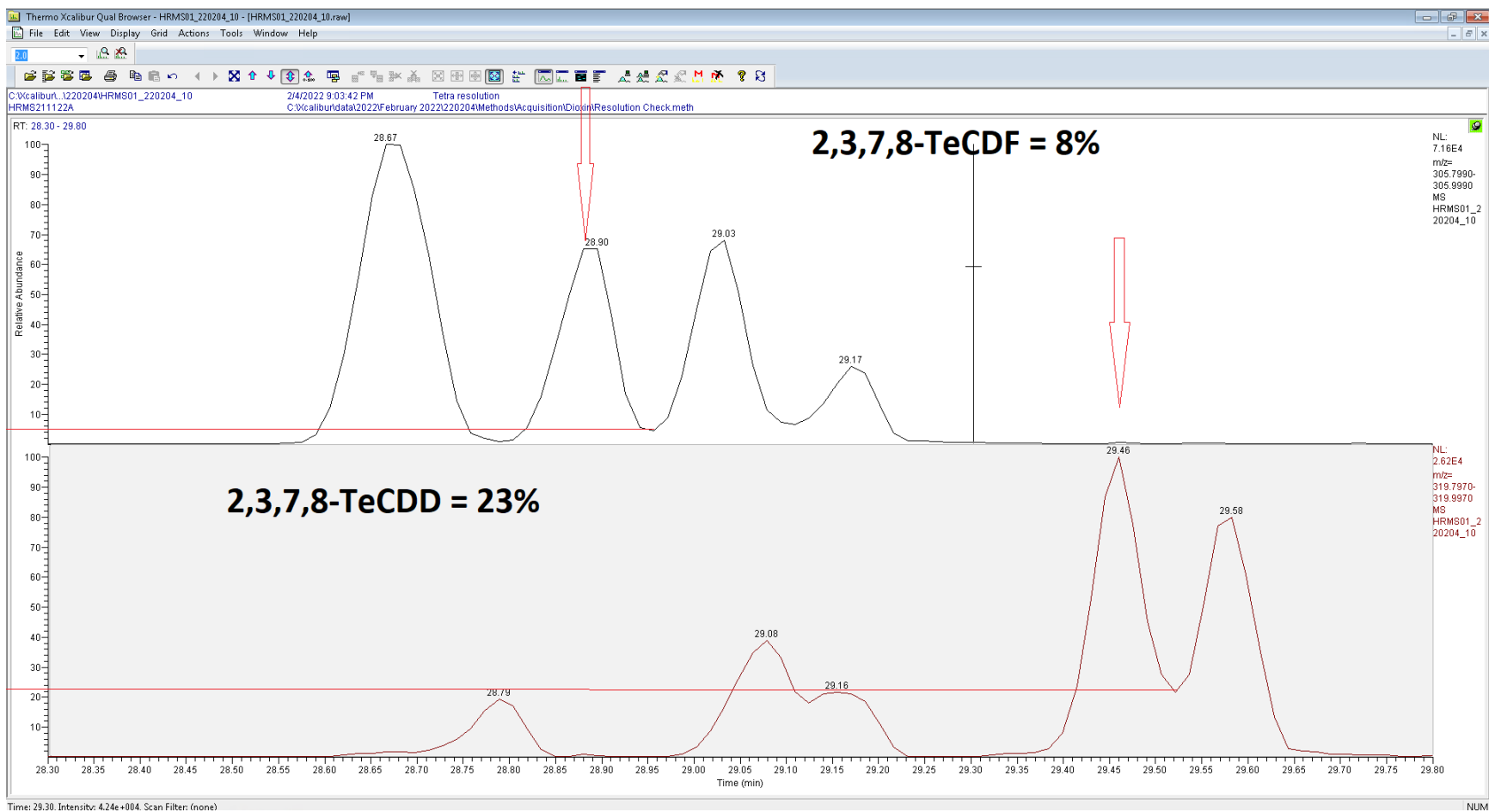


Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	41456124
RM1 Area	48148296
RM1 Ratio (A)	1.1614
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	950.01
Percent Recovery (A)	---
TEQ (A)	122.2672
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



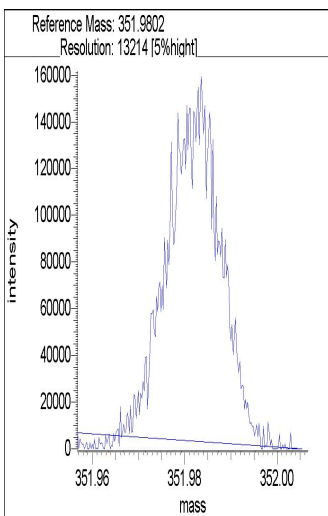
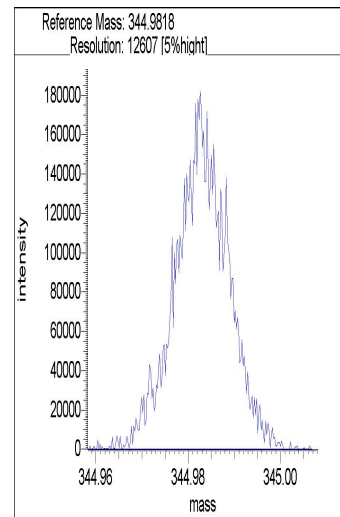
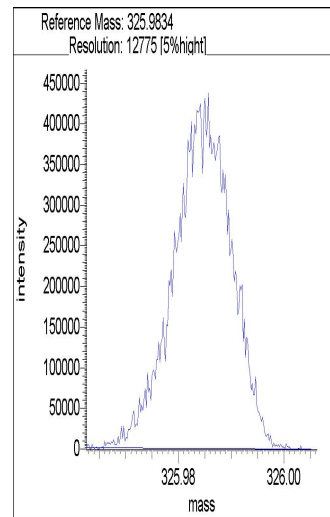
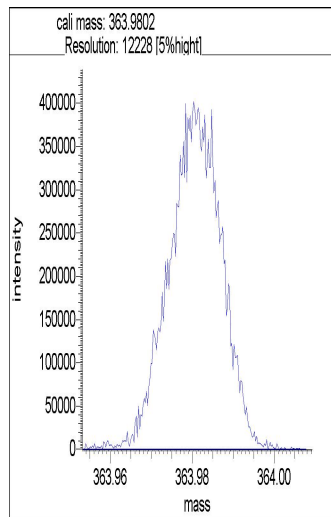
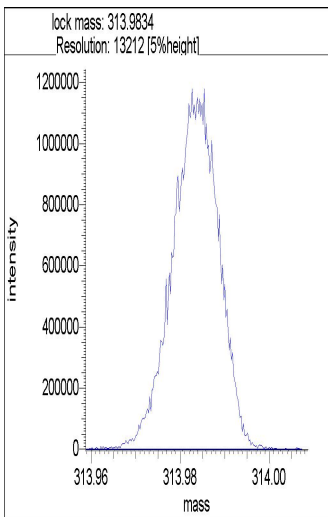


Resolution Check Report (DFS SN: 1209)

Date: 04 Feb 2022 21:03
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

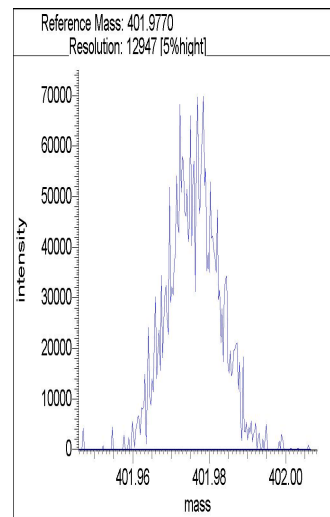
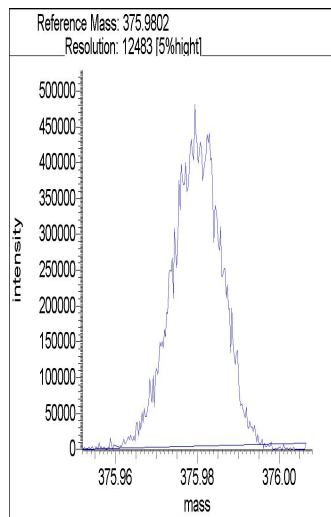
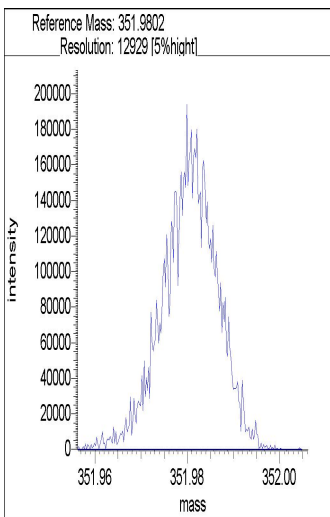
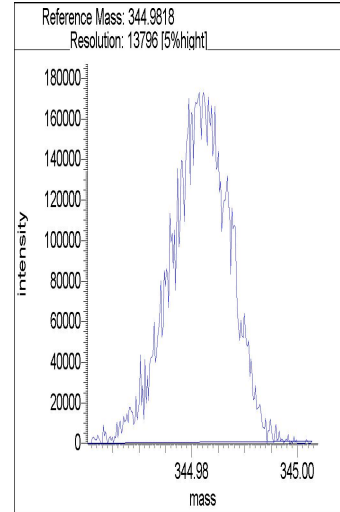
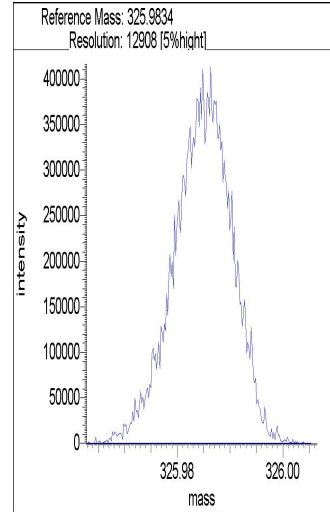
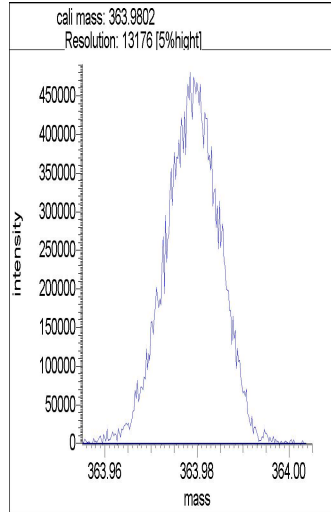
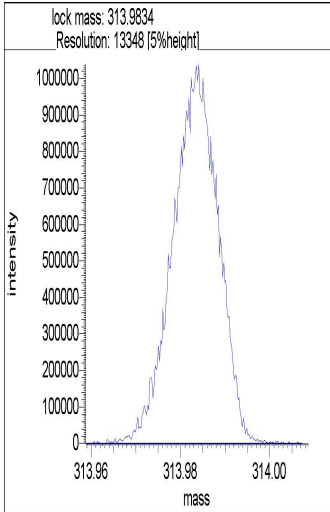
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Ref. mass 325.9834 [m/z] Resolution: 12775 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 12607 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 13214 [5%height]



Segment 2

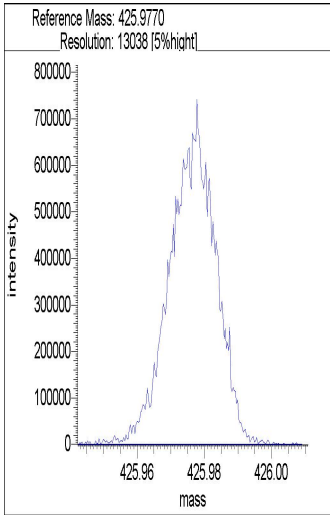
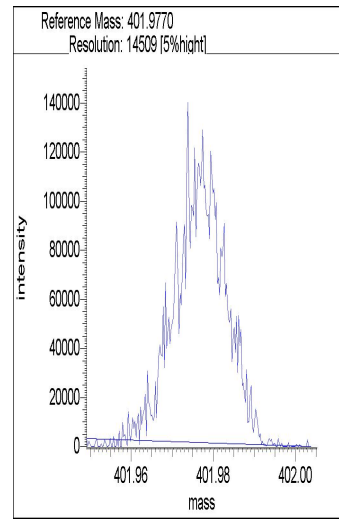
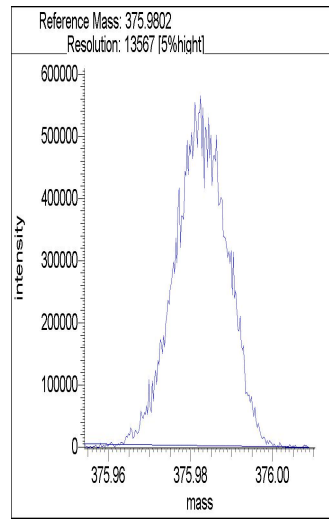
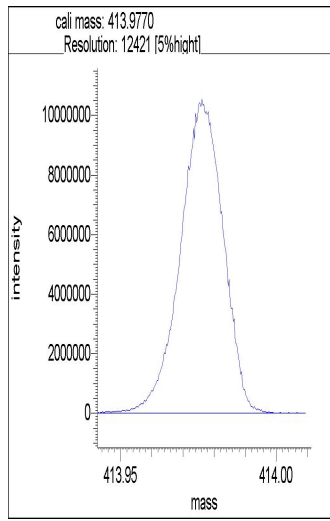
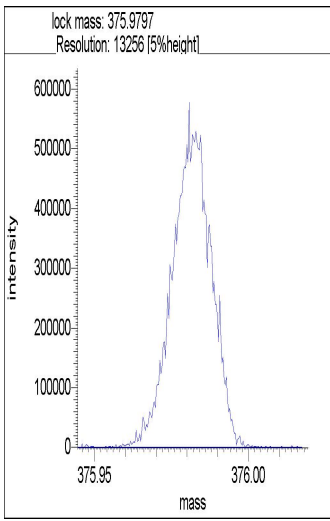
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Cali. mass 363.9802 [m/z] Resolution: 13176 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 12908 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 13796 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 12929 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 12483 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12947 [5%height]



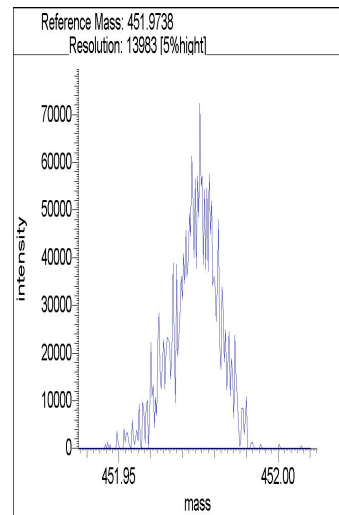
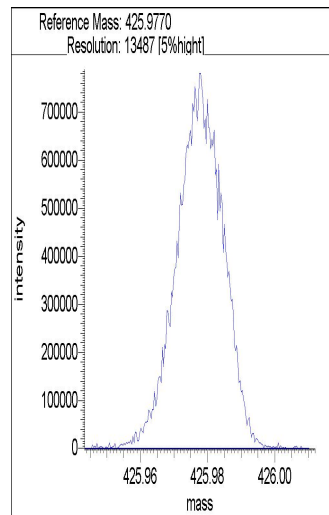
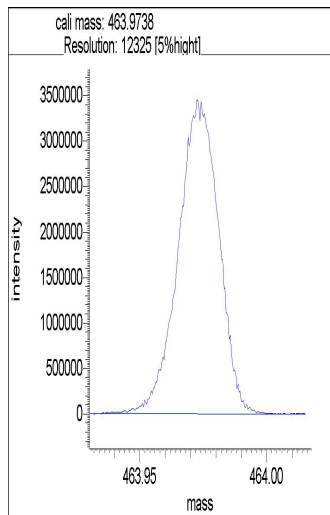
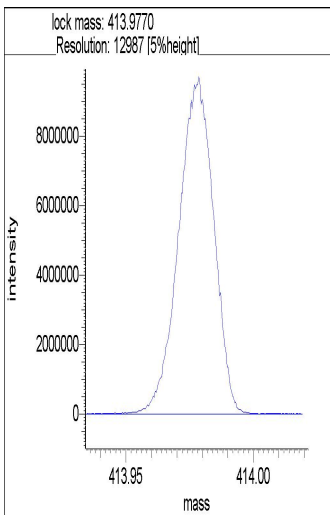
Segment 3

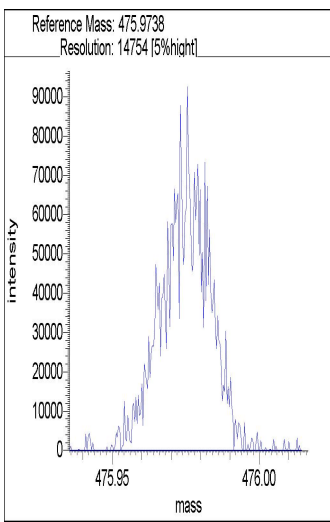
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Ref. mass 375.9802 [m/z] Resolution: 13567 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 14509 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 13038 [5%height]



Segment 4

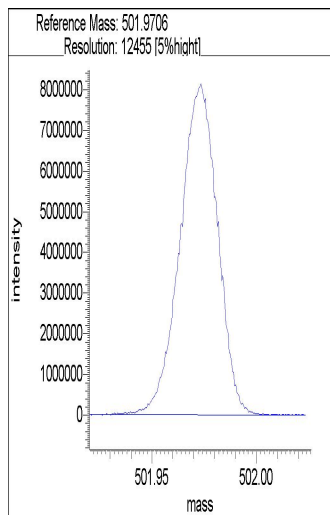
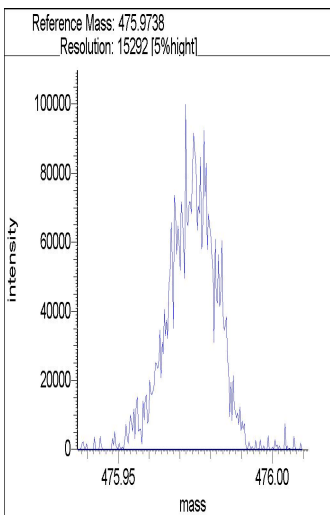
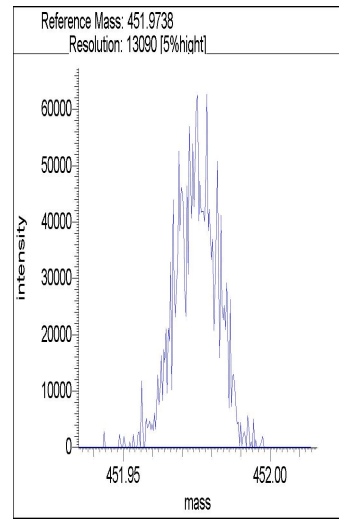
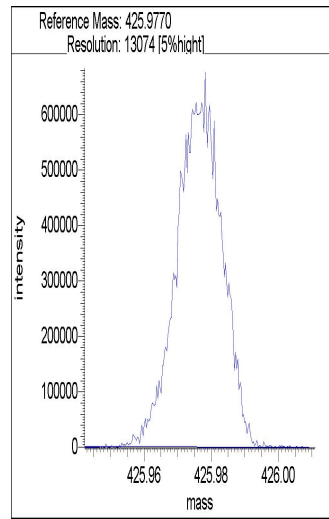
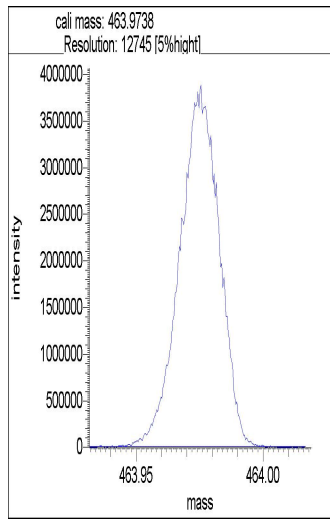
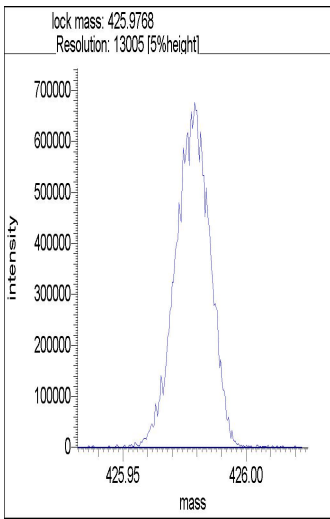
- Lock mass 413.9770 [m/z] Resolution: 12987 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 12325 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 13487 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13983 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 14754 [5%height]





Segment 5

- Lock mass 425.9768 [m/z] Resolution: 13005 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 12745 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 13074 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13090 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 15292 [5%height]
- Ref. mass 501.9706 [m/z] Resolution: 12455 [5%height]





**WELLINGTON
LABORATORIES**

**CERTIFICATE OF ANALYSIS
DOCUMENTATION**

EPA-1613CVS

**U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}\text{C}_{12}$) and mass-labelled ($^{13}\text{C}_{12}$ and $^{37}\text{Cl}_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of $\geq 99\%$. The 2,3,7,8- $^{37}\text{Cl}_4$ -Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of $\geq 95\%$.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
Native PCDDs and PCDFs:							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: 
B.G. Chittim, General Manager

Date: 10/25/2019
(mm/dd/yyyy)

Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
¹³ C ₁₂ -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

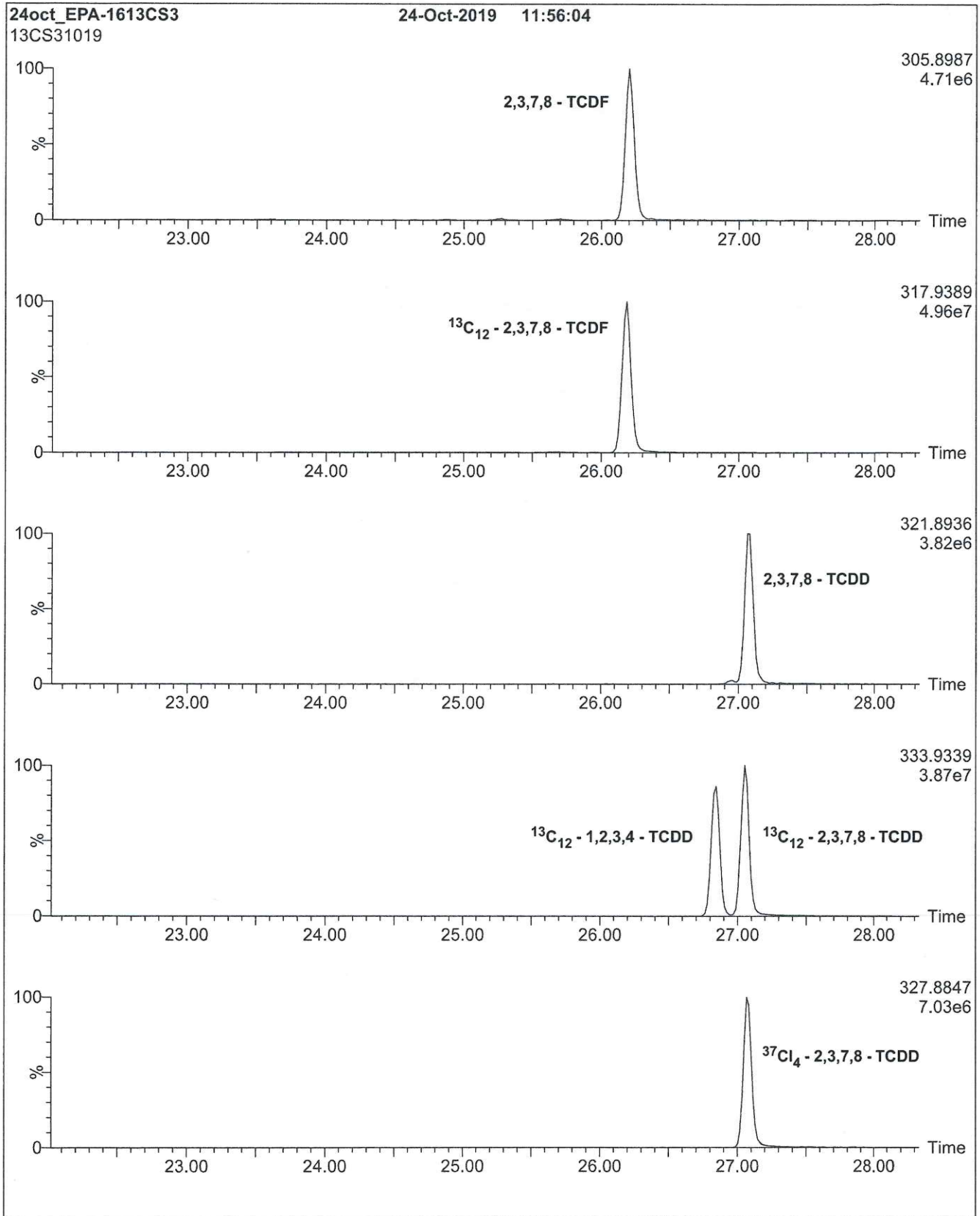


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

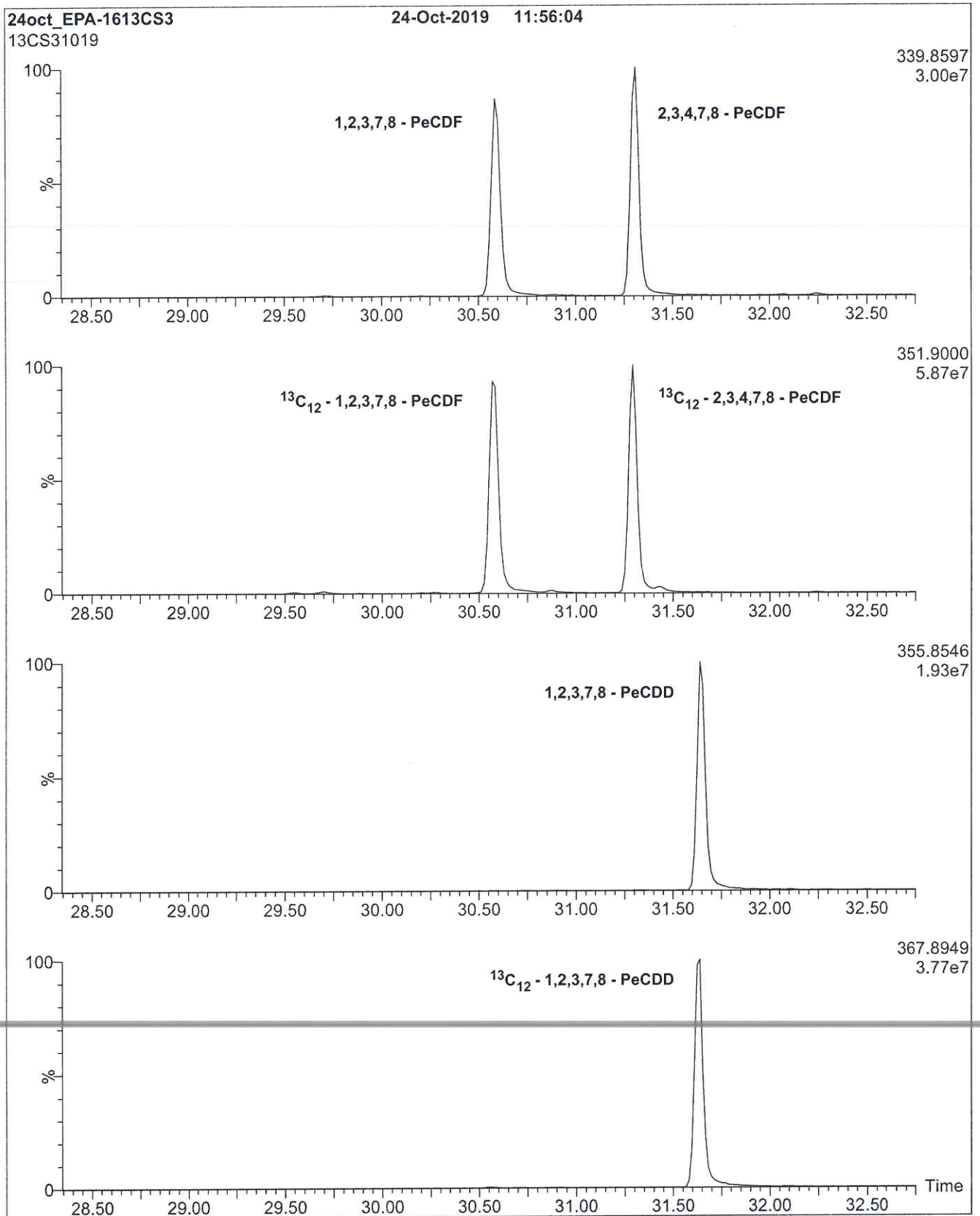


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

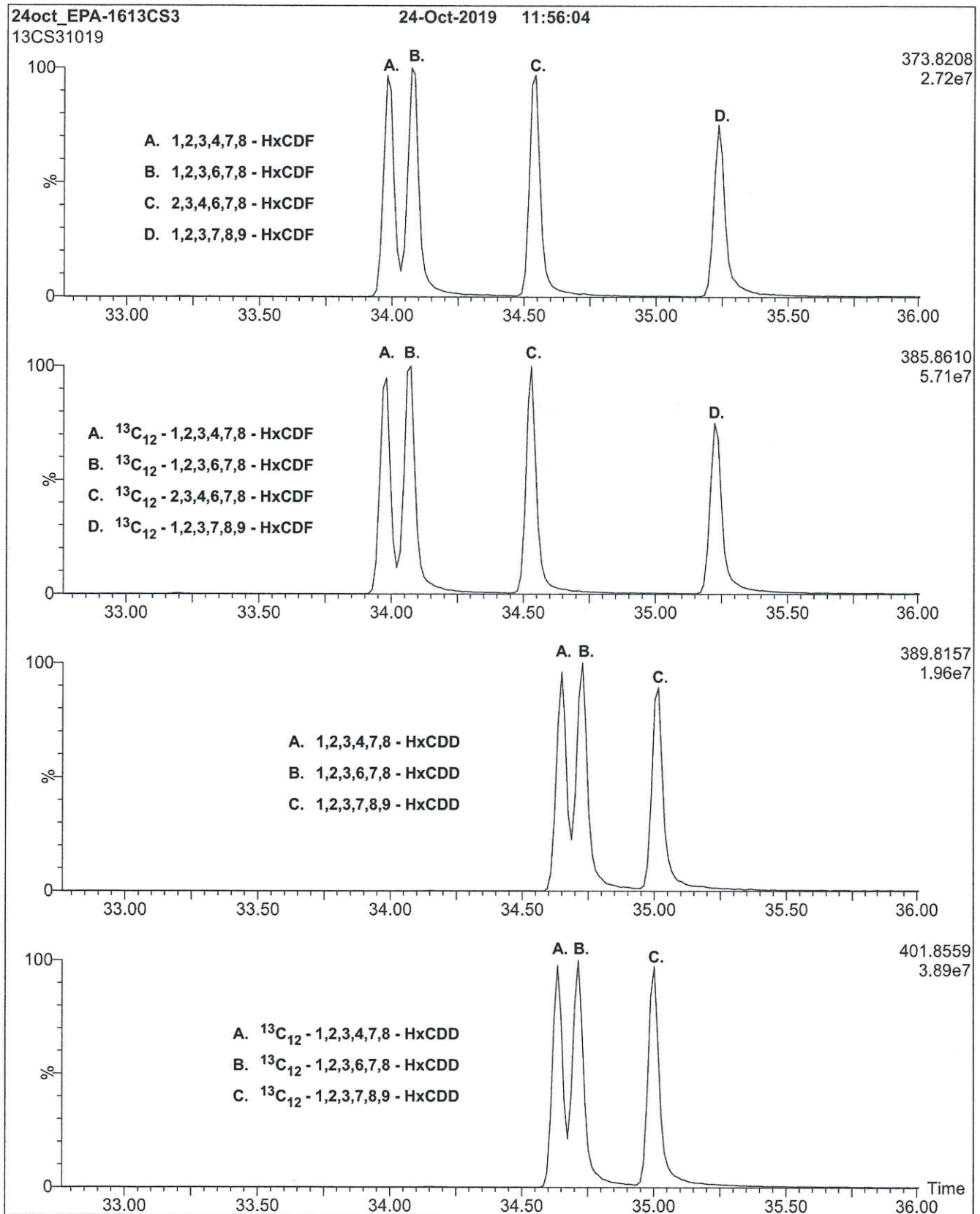


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

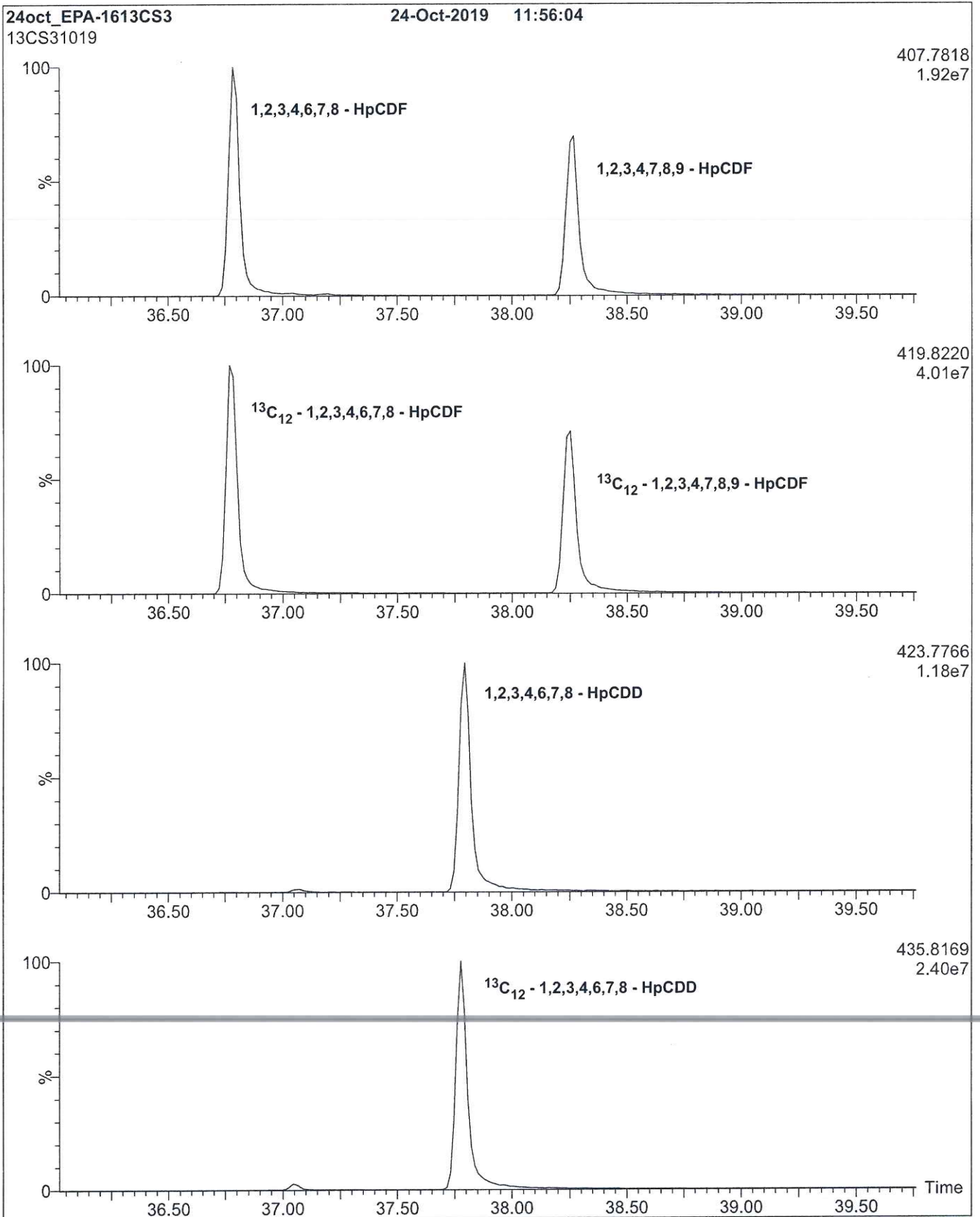
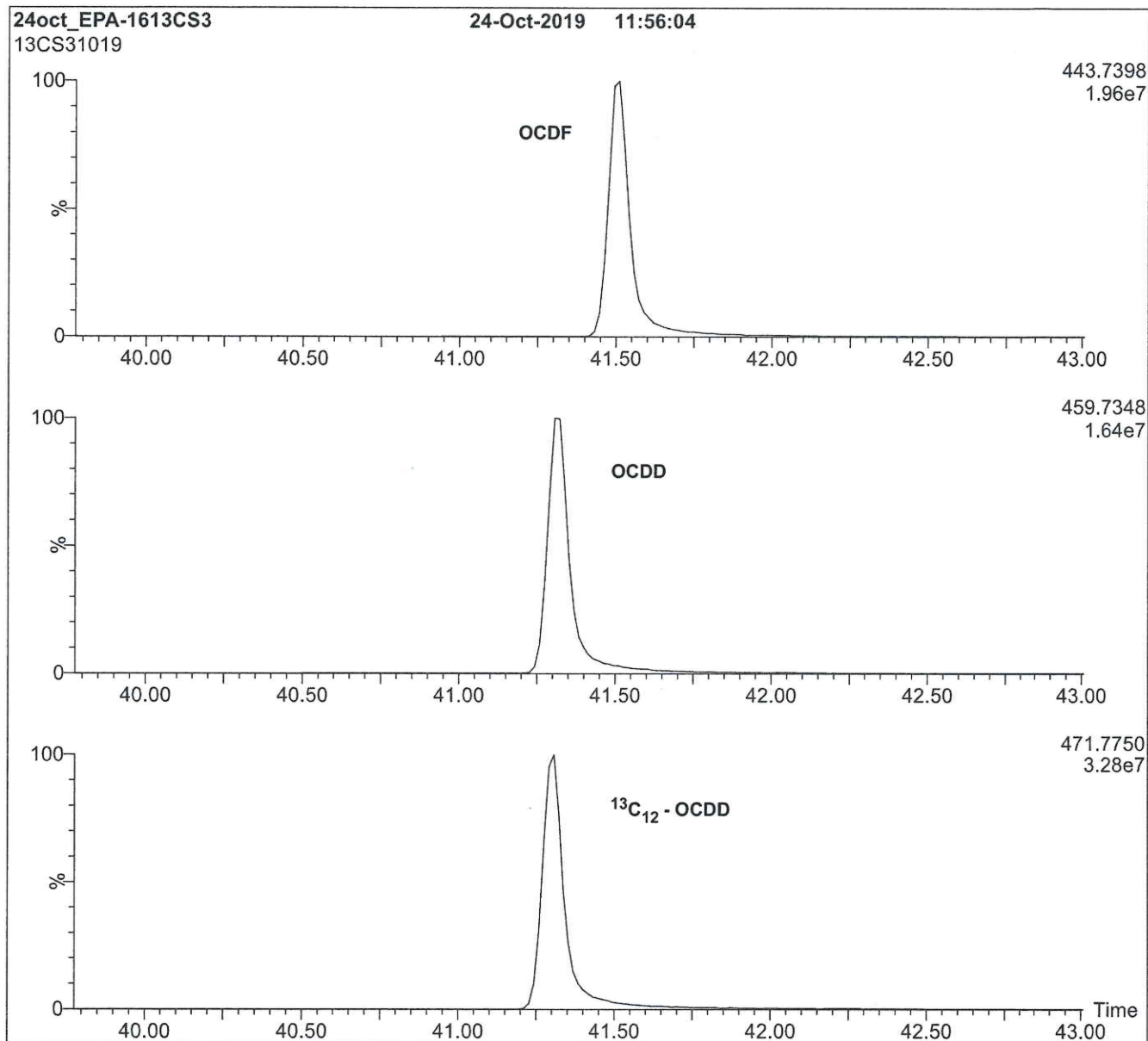


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



EPA-1613CVS

**U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(see below)
	EPA-1613CS1		13CS11020
	EPA-1613CS2		13CS21020
	EPA-1613CS3		13CS31020
	EPA-1613CS4		13CS41020
	EPA-1613CS5		13CS51020

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51020
EPA-1613CSL	13CSL1020

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	11/16/2020
<u>LAST TESTED:</u> (mm/dd/yyyy)	11/18/2020
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	11/18/2027
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

LCMS 21017AG-AH
JW 1/17/21

DESCRIPTION:

EPA-1613CVS is a series of five HRGC/HRMS calibration solutions containing native ($^{12}\text{C}_{12}$) and mass-labelled ($^{13}\text{C}_{12}$ and $^{37}\text{Cl}_4$) chlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

EPA-1613CVS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of $\geq 99\%$. The 2,3,7,8- $^{37}\text{Cl}_4$ -tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of $\geq 95\%$.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

EPA-1613CVS was prepared using, and is compatible with, the following stock solutions: EPA-1613LCS, EPA-1613CSS, EPA-1613ISS, EPA-1613PAR, and EPA-1613STOCK.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations

Table B: 5-Point HRGC/HRMS Calibration and RRF Summary

Table C: 7-Point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

-
- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
Components and Concentrations (ng/mL, ± 5% in nonane/toluene)**

Compound	Acronym	Concentration (ng/mL)						
		CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
Native PCDDs:								
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin	2,3,7,8-TCDD	0.500	2.00	10.0	40.0	200	0.100	0.250
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8-PeCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,7,8-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,6,7,8-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8,9-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,6,7,8-HpCDD	2.50	10.0	50.0	200	1000	0.500	1.25
Octachlorodibenzo- <i>p</i> -dioxin	OCDD	5.00	20.0	100	400	2000	1.00	2.50
Native PCDFs:								
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	0.500	2.00	10.0	40.0	200	0.100	0.250
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	2.50	10.0	50.0	200	1000	0.500	1.25
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	2.50	10.0	50.0	200	1000	0.500	1.25
Octachlorodibenzofuran	OCDF	5.00	20.0	100	400	2000	1.00	2.50
Mass-Labelled PCDDs:								
2,3,7,8-Tetrachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-2,3,7,8-TCDD	100	100	100	100	100	100	100
1,2,3,7,8-Pentachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
1,2,3,4,7,8-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
1,2,3,6,7,8-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
1,2,3,4,6,7,8-Heptachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
Octachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-OCDD	200	200	200	200	200	200	200
Mass-Labelled PCDFs:								
2,3,7,8-Tetrachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,7,8-TCDF	100	100	100	100	100	100	100
1,2,3,7,8-Pentachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
2,3,4,7,8-Pentachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
1,2,3,4,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,6,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,7,8,9-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
2,3,4,6,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,4,6,7,8-Heptachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
1,2,3,4,7,8,9-Heptachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
Cleanup Standard:								
2,3,7,8-[³⁷ Cl ₄]-Tetrachlorodibenzo- <i>p</i> -dioxin	[³⁷ Cl ₄]-2,3,7,8-TCDD	0.500	2.00	10.0	40.0	200	0.100	0.250
Internal Standards:								
1,2,3,4-Tetrachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4-TCDD	100	100	100	100	100	100	100
1,2,3,7,8,9-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)		3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: 
B.G. Chittim, General Manager

Date: 11/20/2020
(mm/dd/yyyy)

Table B: EPA-1613CVS; 5-Point HRGC/HRMS Calibration and RRF Summary

Calibration RRF Summary			Calibration Standard				
Calibration Filename: 17NOV2020-M459-1613CVS-5PT.QLD			CS1	CS2	CS3	CS4	CS5
Acronym	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
Native PCDDs:							
2,3,7,8-TCDD	1.02	6.7	0.92	0.98	1.02	1.06	1.10
1,2,3,7,8-PeCDD	1.02	4.7	0.96	0.97	1.05	1.06	1.04
1,2,3,4,7,8-HxCDD	1.06	7.6	0.93	1.05	1.08	1.12	1.13
1,2,3,6,7,8-HxCDD	1.03	6.7	0.94	0.98	1.06	1.09	1.10
1,2,3,7,8,9-HxCDD	1.09	7.3	0.97	1.05	1.12	1.18	1.13
1,2,3,4,6,7,8-HpCDD	1.07	7.3	0.96	1.02	1.14	1.12	1.12
OCDD	1.00	6.1	0.90	1.00	1.01	1.04	1.05
Native PCDFs:							
2,3,7,8-TCDF	1.05	4.3	1.00	1.01	1.04	1.08	1.11
1,2,3,7,8-PeCDF	1.01	3.9	0.96	0.98	1.03	1.04	1.04
2,3,4,7,8-PeCDF	1.12	4.7	1.04	1.09	1.15	1.15	1.15
1,2,3,4,7,8-HxCDF	1.02	3.8	0.97	0.99	1.03	1.06	1.04
1,2,3,6,7,8-HxCDF	0.97	4.0	0.91	0.94	0.99	0.99	1.00
2,3,4,6,7,8-HxCDF	1.01	6.9	0.89	1.00	1.04	1.05	1.07
1,2,3,7,8,9-HxCDF	0.94	7.1	0.84	0.92	0.95	1.01	0.98
1,2,3,4,6,7,8-HpCDF	0.90	3.0	0.88	0.87	0.91	0.92	0.93
1,2,3,4,7,8,9-HpCDF	0.87	5.9	0.78	0.86	0.88	0.90	0.92
OCDF	1.26	9.3	1.09	1.21	1.28	1.34	1.39
Mass-Labelled PCDDs:							
¹³ C ₁₂ -2,3,7,8-TCDD	1.32	4.3	1.27	1.28	1.30	1.35	1.41
¹³ C ₁₂ -1,2,3,7,8-PeCDD	1.02	6.4	0.95	1.02	0.96	1.05	1.11
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.90	4.1	0.95	0.87	0.91	0.87	0.93
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	0.98	3.9	0.95	1.01	1.04	0.96	0.96
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.69	2.6	0.69	0.70	0.66	0.68	0.70
¹³ C ₁₂ -OCDD	0.60	6.0	0.59	0.60	0.55	0.59	0.65
Mass-Labelled PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDF	1.97	2.4	1.92	1.94	1.95	2.01	2.03
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.83	3.7	1.76	1.83	1.77	1.84	1.93
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.74	5.4	1.64	1.81	1.65	1.73	1.85
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.56	4.1	1.59	1.53	1.66	1.49	1.55
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.81	3.4	1.81	1.83	1.89	1.76	1.74
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.56	3.0	1.56	1.55	1.63	1.52	1.52
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.35	2.6	1.33	1.36	1.38	1.30	1.39
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.30	2.2	1.34	1.31	1.32	1.26	1.29
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.04	2.4	1.05	1.05	1.02	1.02	1.08
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	2.21	7.8	1.97	2.15	2.19	2.34	2.41
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00

**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
7-Point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary			Calibration Standard						
Calibration Filename: 17NOV2020-M459-1613CVS-7PT.QLD			CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Acronym	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Native PCDDs:									
2,3,7,8-TCDD	0.98	9.2	0.83	0.95	0.92	0.98	1.02	1.06	1.10
1,2,3,7,8-PeCDD	1.00	5.9	1.01	0.90	0.96	0.97	1.05	1.06	1.04
1,2,3,4,7,8-HxCDD	1.03	8.6	0.90	1.01	0.93	1.05	1.08	1.12	1.13
1,2,3,6,7,8-HxCDD	1.00	8.3	0.89	0.93	0.94	0.98	1.06	1.09	1.10
1,2,3,7,8,9-HxCDD	1.08	6.9	1.12	1.00	0.97	1.05	1.12	1.18	1.13
1,2,3,4,6,7,8-HpCDD	1.05	7.8	0.94	1.01	0.96	1.02	1.14	1.12	1.12
OCDD	0.99	5.8	0.93	1.00	0.90	1.00	1.01	1.04	1.05
Native PCDFs:									
2,3,7,8-TCDF	1.03	6.4	1.04	0.90	1.00	1.01	1.04	1.08	1.11
1,2,3,7,8-PeCDF	0.98	5.5	0.92	0.92	0.96	0.98	1.03	1.04	1.04
2,3,4,7,8-PeCDF	1.08	8.1	0.91	1.09	1.04	1.09	1.15	1.15	1.15
1,2,3,4,7,8-HxCDF	1.00	4.9	0.93	0.96	0.97	0.99	1.03	1.06	1.04
1,2,3,6,7,8-HxCDF	0.95	4.2	0.93	0.90	0.91	0.94	0.99	0.99	1.00
2,3,4,6,7,8-HxCDF	0.97	9.0	0.90	0.86	0.89	1.00	1.04	1.05	1.07
1,2,3,7,8,9-HxCDF	0.93	6.2	0.93	0.89	0.84	0.92	0.95	1.01	0.98
1,2,3,4,6,7,8-HpCDF	0.86	8.4	0.75	0.77	0.88	0.87	0.91	0.92	0.93
1,2,3,4,7,8,9-HpCDF	0.85	6.2	0.80	0.81	0.78	0.86	0.88	0.90	0.92
OCDF	1.23	9.1	1.12	1.19	1.09	1.21	1.28	1.34	1.39
Mass-Labelled PCDDs:									
¹³ C ₁₂ -2,3,7,8-TCDD	1.29	5.6	1.20	1.22	1.27	1.28	1.30	1.35	1.41
¹³ C ₁₂ -1,2,3,7,8-PeCDD	1.01	5.4	1.00	0.98	0.95	1.02	0.96	1.05	1.11
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.90	3.7	0.89	0.87	0.95	0.87	0.91	0.87	0.93
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	0.98	3.5	1.00	0.95	0.95	1.01	1.04	0.96	0.96
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.69	2.2	0.70	0.69	0.69	0.70	0.66	0.68	0.70
¹³ C ₁₂ -OCDD	0.60	5.0	0.60	0.59	0.59	0.60	0.55	0.59	0.65
Mass-Labelled PCDFs:									
¹³ C ₁₂ -2,3,7,8-TCDF	1.94	3.4	1.84	1.89	1.92	1.94	1.95	2.01	2.03
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.81	3.4	1.78	1.77	1.76	1.83	1.77	1.84	1.93
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.72	4.6	1.70	1.68	1.64	1.81	1.65	1.73	1.85
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.56	3.4	1.56	1.56	1.59	1.53	1.66	1.49	1.55
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.82	3.2	1.89	1.85	1.81	1.83	1.89	1.76	1.74
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.56	2.6	1.60	1.57	1.56	1.55	1.63	1.52	1.52
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.34	3.4	1.36	1.26	1.33	1.36	1.38	1.30	1.39
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.32	2.5	1.36	1.33	1.34	1.31	1.32	1.26	1.29
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.04	2.0	1.04	1.05	1.05	1.05	1.02	1.02	1.08
Cleanup Standard:									
³⁷ Cl ₄ -2,3,7,8-TCDD	2.18	7.4	2.21	2.00	1.97	2.15	2.19	2.34	2.41
Internal Standards:									
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

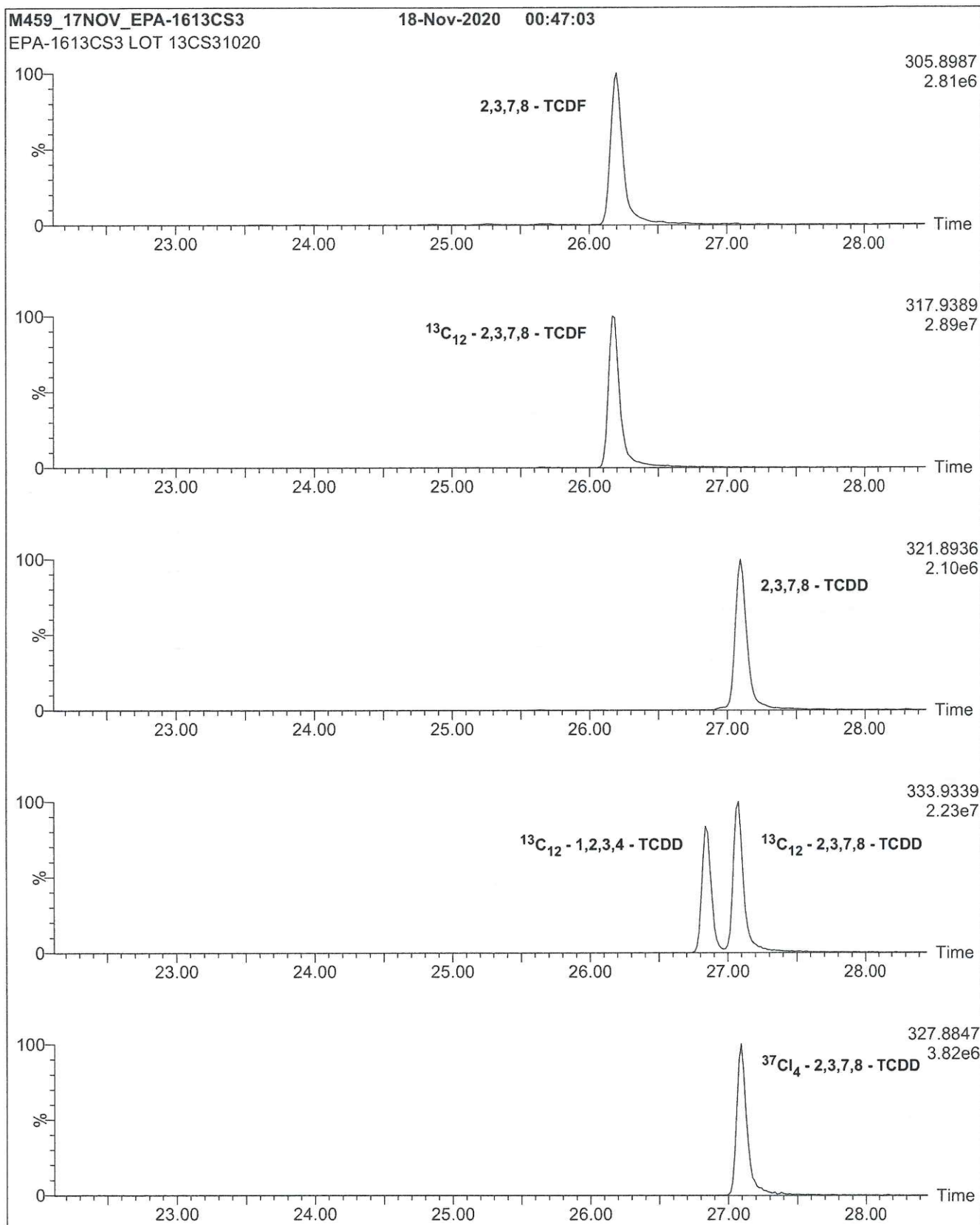


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

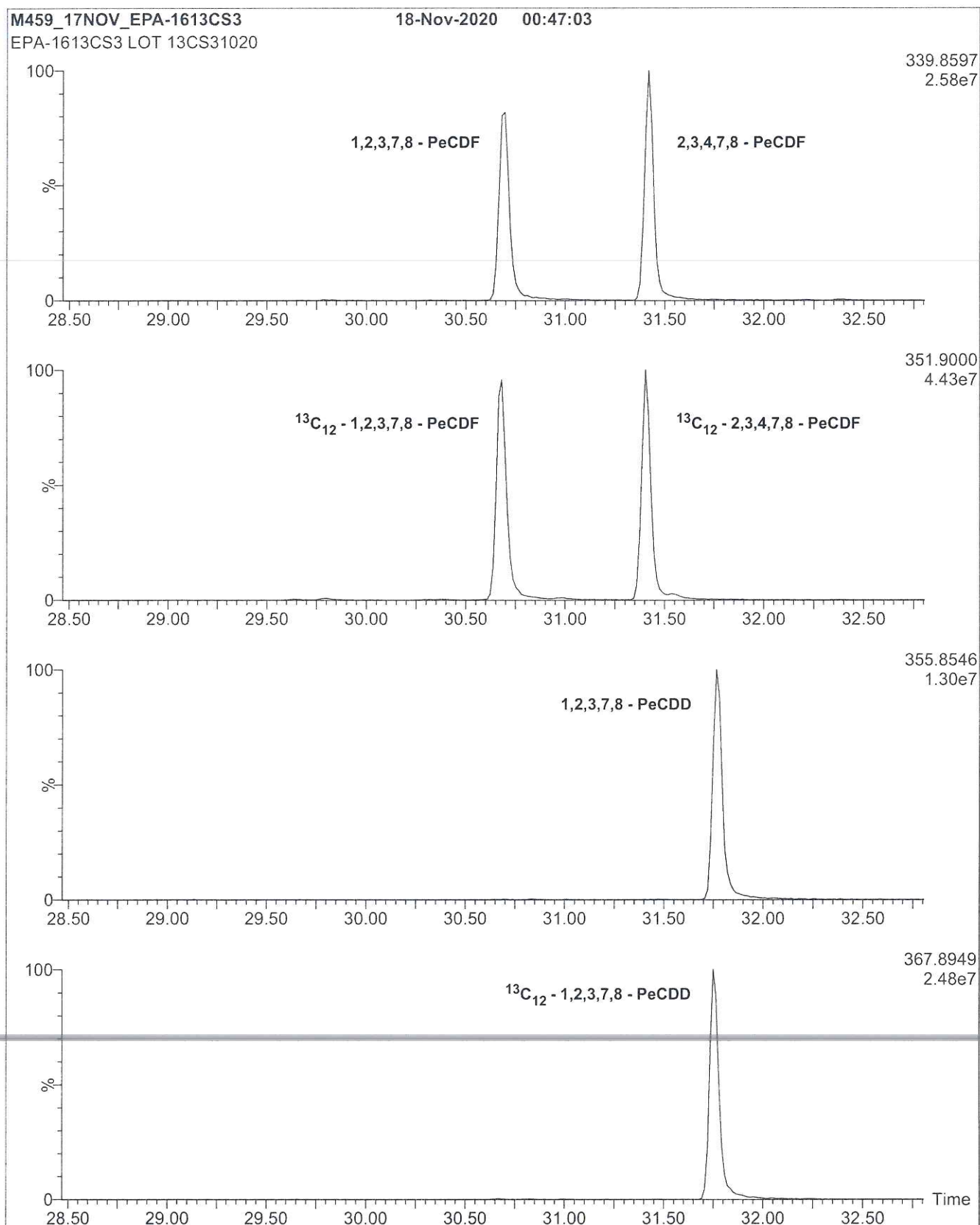


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

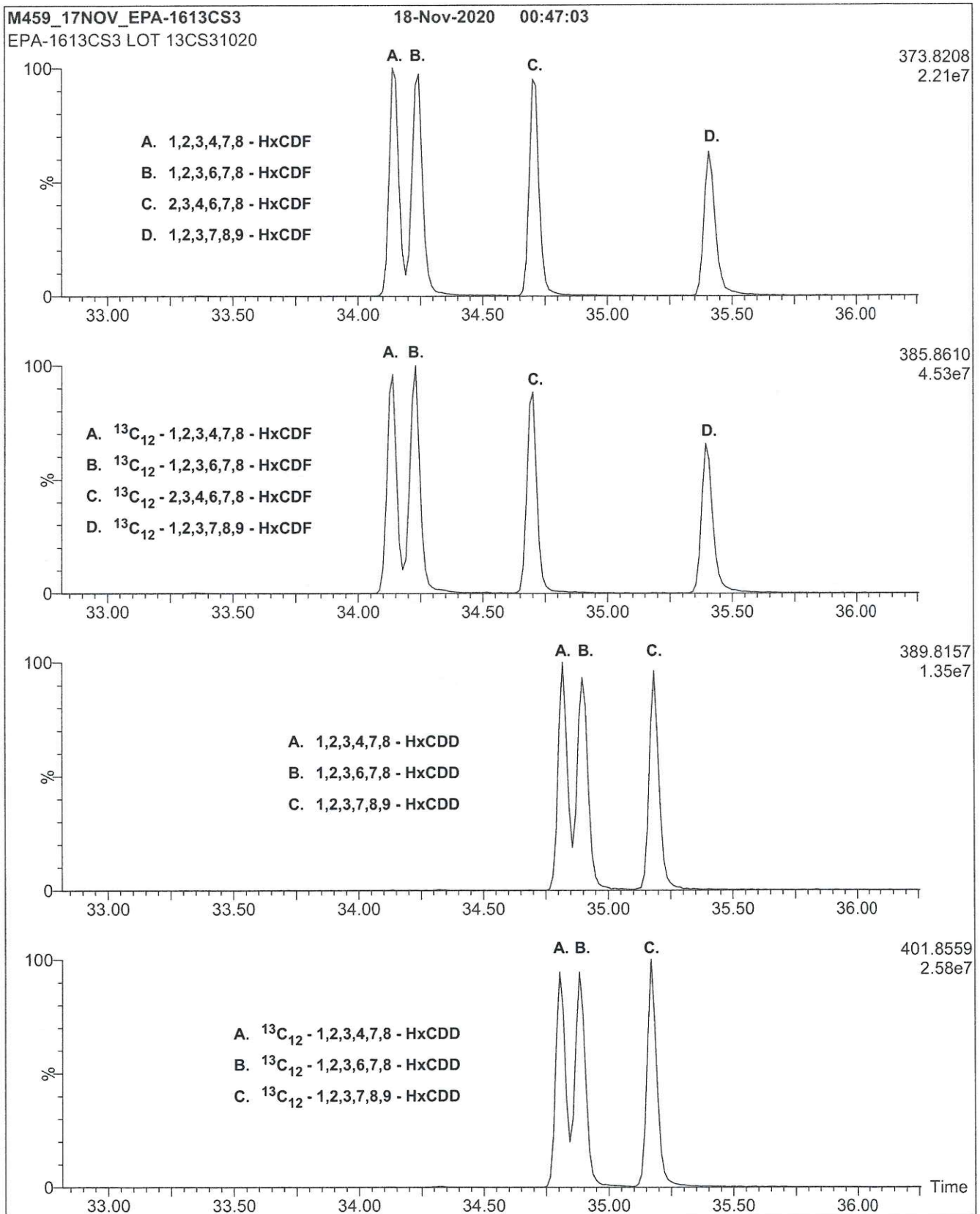


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

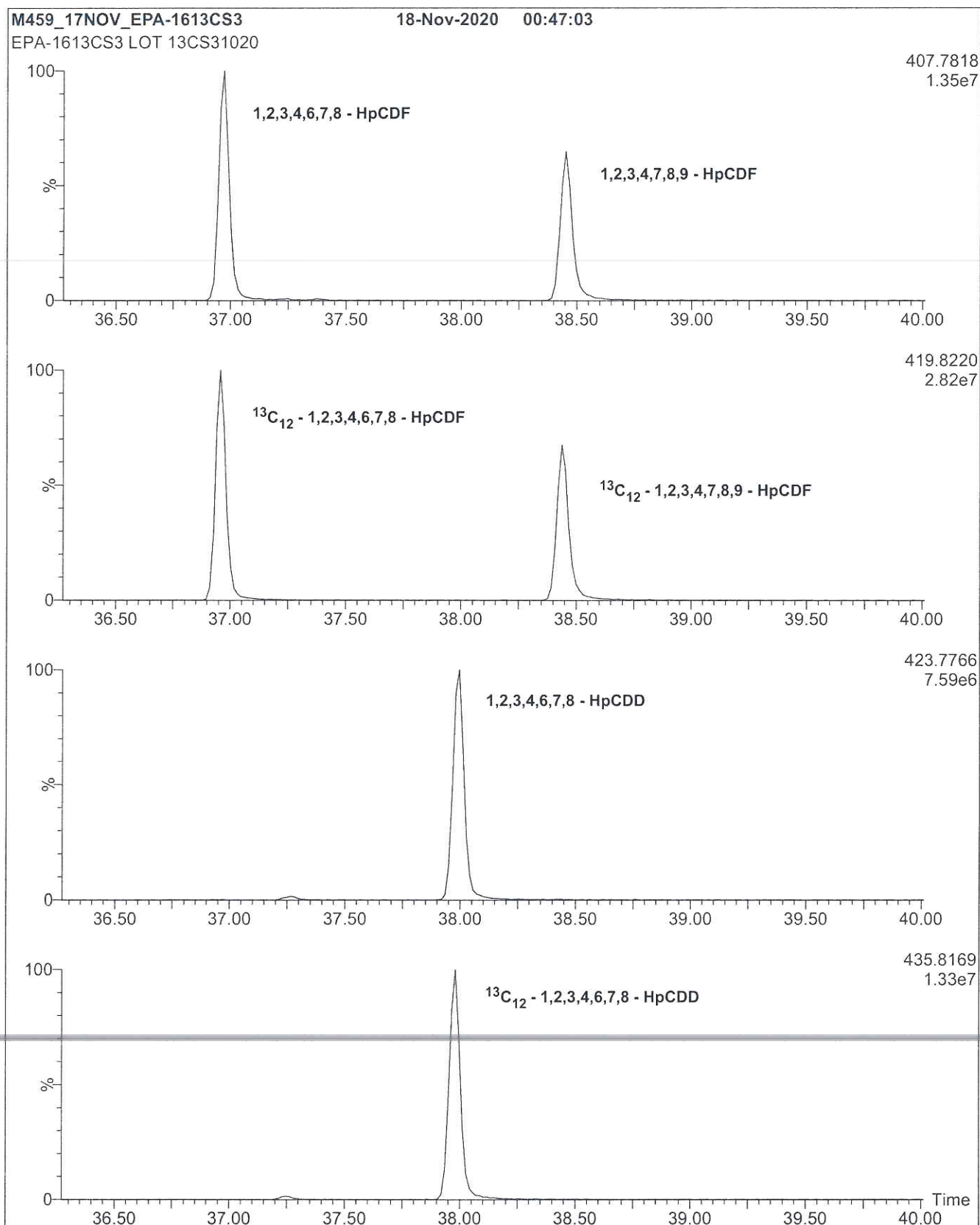
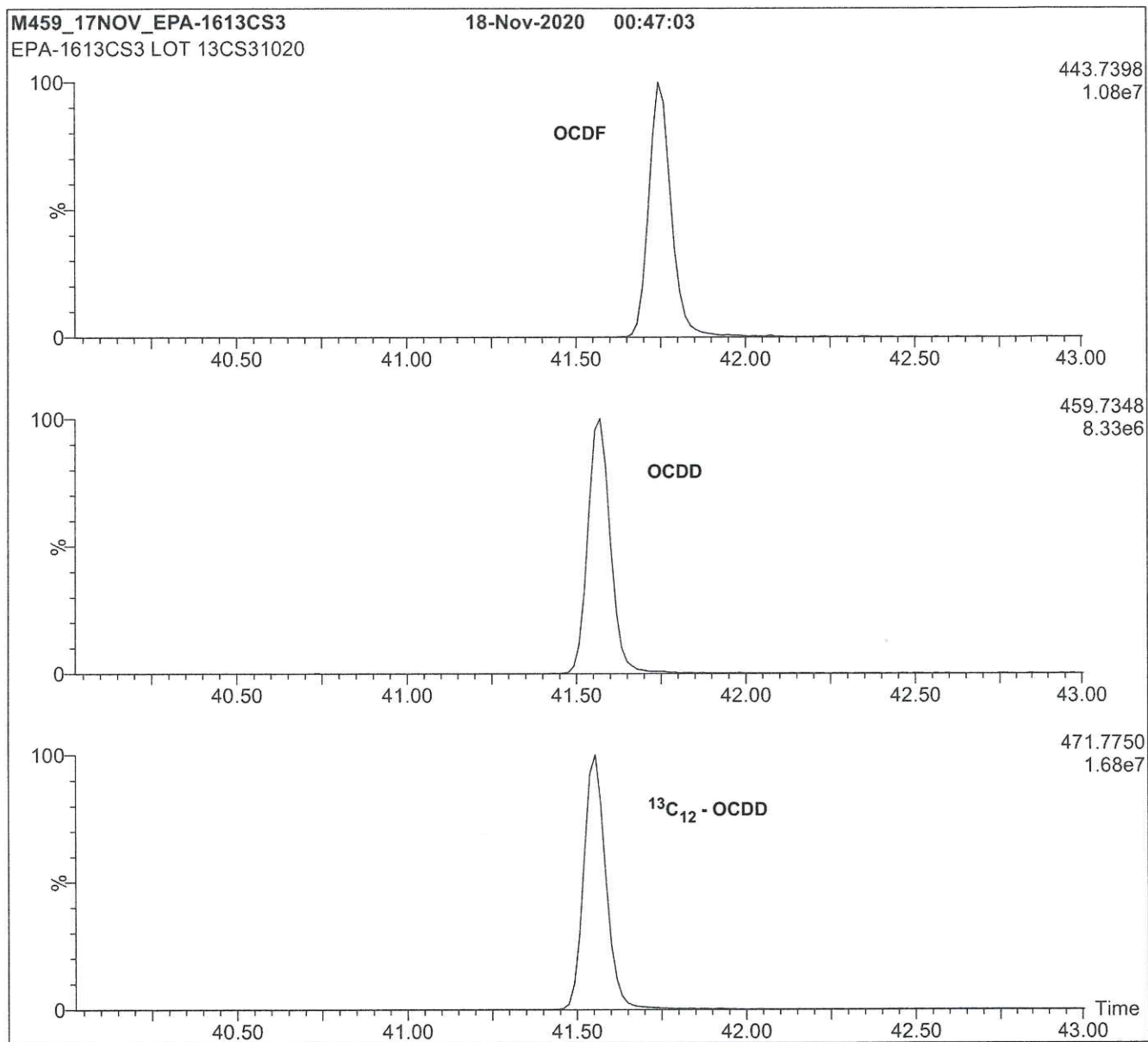


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 mL/min

Injector: 280°C (Splitless Injection)

Ionization: EI+

Detector: 280°C

SIR at 10,000 mass resolving power

Oven: 150°C (1 min)

12°C/min to 200°C

3°C/min to 235°C

235°C (8 min)

8°C/min to 310°C

310°C (8 min)

1613 High STD

Standard Laboratory ID Number:

Standard Description: 1613 HRMS High Level STD
 Standard Laboratory ID Number: HRMS_STD_200917A

Assigned Lab ID	Chemical Name	Stock Concentration(ng/mL)	Vendor/Part Number/location	Stock Volume (uL)	Final Volume (uL)	Solvent	Standard Concentration (ng/mL)
HRMS200523B	EPA 1613 Labeled Compound	100-200	CIL / EDF-8999	40	Evap to 40	nonane	100-200
HRMS200523A	EPA 1613 ISTD	200	CIL / EDF-5999	20	Evap to 40	nonane	100
HRMS190818B	EPA 1613 PAR	400-4000	CIL / EDF-7999-10X	40	Evap to 40	nonane	400-4000
HRMS200327A	EPA 1613 CLS	8	CIL / EDF-6999-10X	50	Evap to 40	nonane	10
Solution Prepared By: PB		Date Prepared: September 17, 2020			Expiration Date: September 17, 2022		
Solvent Lot: Nonane N/A		Refrigerator / Freezer No: NA					

Comments

Primary Review: Philip Bassignani

Date: 9/17/2020

Secondary Review: Arin Jones

Date: 9/17/2020

Comments

Primary Review: _____

Date: _____

Secondary Review: _____

Date: _____

Form #

Alpha Analytical Mansfield MA

Lims generated Standard Form

HRMS 191114



D-H
PB
Rec
11-14-14

Revision 00
Page 1 of 5

Cerilliant Quality
ISO GUIDE 34
ISO/IEC 17025
ISO 13485
ISO 15194
ISO 9001
GMP/GLP

Certificate of Analysis

Method 1613 Calibration Solutions (CS1 - CS5)¹

Catalog Number: EDF-9999
Kit Lot: ER01091701

Solution	C1	C2	C3	C4	C5
Product Number	EDF-9999-1	EDF-9999-2	EDF-9999-3	EDF-9999-4	EDF-9999-5
Lot Number	ER05061401	ER02251501	ER11051603	ER02251503	ER02251504

Expiration Date: September 2024
Solvent: n-Nonane
Volume per Ampule: Not less than 0.2 mL
Storage: Store at room temperature. Do not store cold.
Intended Use: For R&D/analytical purposes only. Not suitable for human or animal consumption.
Safety: **Danger. See Safety Data Sheet.**

- ¹ Linearity has been determined across the calibration solutions (CC1-CC5) by HRMS and meets EPA method requirements.
- Expiration Date has been established through real time stability studies.
 - Ampoules are overfilled to ensure a minimum 0.2 mL volume. We advise laboratories to use measured volumes of this standard solution before diluting to the desired concentration.

Cerilliant certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration/retest date when stored unopened as recommended. Product should be used shortly after opening to avoid concentration changes due to evaporation. Warranty does not apply to ampoules stored after opening.



Darron Ellsworth, Quality Assurance Manager

March 07, 2017

Date

Compound	Prepared Concentration (ng/mL)				
	CS1	CS2	CS3	CS4	CS5
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
2,3,7,8-Tetrachlorodibenzofuran	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8-Pentachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
2,3,4,7,8-Pentachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,6,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8,9-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
2,3,4,6,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
Octachlorodibenzo-p-dioxin	5.000 ± 0.050	20.00 ± 0.20	100.0 ± 1.0	400.0 ± 4.0	2000 ± 20
Octachlorodibenzofuran	5.000 ± 0.050	20.00 ± 0.20	100.0 ± 1.0	400.0 ± 4.0	2000 ± 20
1,2,3,4-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ³⁷ Cl ₄	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
2,3,7,8-Tetrachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8-Pentachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,4,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8,9-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,4,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
Octachlorodibenzo-p-dioxin- ¹³ C ₁₂	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0

<i>Native Analytes</i>						
Analyte	Lot Number	CAS Number	Chemical Formula	Molecular Weight	Chromatographic Purity	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	ER061009-02	1746-01-6	C ₁₂ H ₄ Cl ₄ O ₂	321.97	99.2%	
2,3,7,8-Tetrachlorodibenzofuran	ER101211-02	51207-31-9	C ₁₂ H ₄ Cl ₄ O	305.97	99.4%	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	ER110909-02	40321-76-4	C ₁₂ H ₃ Cl ₅ O ₂	356.42	99.2%	
1,2,3,7,8-Pentachlorodibenzofuran	ER021511-01	57117-41-6	C ₁₂ H ₃ Cl ₅ O	340.42	99.5%	
2,3,4,7,8-Pentachlorodibenzofuran	ER070710-01	57117-31-4	C ₁₂ H ₃ Cl ₅ O	340.42	99.4%	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	ER080108-02	39227-28-6	C ₁₂ H ₂ Cl ₆ O ₂	390.86	98.6%	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	ER03231501	57653-85-7	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.6%	
	¹ ER072607-01	57653-85-7	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.3%	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	ER020111-01	19408-74-3	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.5%	
1,2,3,4,7,8-Hexachlorodibenzofuran	ER021110-01	70648-26-9	C ₁₂ H ₂ Cl ₆ O	374.86	99.0%	
1,2,3,6,7,8-Hexachlorodibenzofuran	ER010708-01	57117-44-9	C ₁₂ H ₂ Cl ₆ O	374.86	99.4%	
1,2,3,7,8,9-Hexachlorodibenzofuran	ER060107-01	72918-21-9	C ₁₂ H ₂ Cl ₆ O	374.86	97.5%	
2,3,4,6,7,8-Hexachlorodibenzofuran	ER100407-03	60851-34-5	C ₁₂ H ₂ Cl ₆ O	374.86	97.8%	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	ER01201504	35822-46-9	C ₁₂ HCl ₇ O ₂	425.31	98.5%	
	¹ ER100207-02	35822-46-9	C ₁₂ HCl ₇ O ₂	425.31	99.8%	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ER02281403	67562-39-4	C ₁₂ HCl ₇ O	409.31	98.9%	
	¹ ER100307-03	67562-39-4	C ₁₂ HCl ₇ O	409.31	98.7%	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ER01121503	55673-89-7	C ₁₂ HCl ₇ O	409.31	99.1%	
	¹ ER072607-02	55673-89-7	C ₁₂ HCl ₇ O	409.31	98.7%	
Octachlorodibenzo-p-dioxin	ER05221301	3268-87-9	C ₁₂ Cl ₈ O ₂	459.75	99.9%	
Octachlorodibenzofuran	ER040811-01	39001-02-0	C ₁₂ Cl ₈ O	443.75	98.9%	

¹ Used for EDF-9999-1, ER05061401, only.

<i>Labeled Analytes</i>					
Analyte	Lot Number	CAS Number	Chemical Formula	Molecular Weight	Chromatographic Purity
1,2,3,4-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER060710-01	114423-99-3	¹³ C ₁₂ H ₄ Cl ₄ O ₂	333.88	99.5%
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER060407-02	76523-40-5	¹³ C ₁₂ H ₄ Cl ₄ O ₂	333.88	98.9%
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ³⁷ Cl ₄	ER052010-02	85508-50-5	C ₁₂ H ₄ ³⁷ Cl ₄ O ₂	328.02	98.3%
2,3,7,8-Tetrachlorodibenzofuran- ¹³ C ₁₂	ER092507-01	89059-46-1	¹³ C ₁₂ H ₄ Cl ₄ O	317.88	99.4%
1,2,3,7,8-Pentachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER030907-02	109719-79-1	¹³ C ₁₂ H ₃ Cl ₅ O ₂	368.33	99.2%
1,2,3,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	ER012111-01	109719-77-9	¹³ C ₁₂ H ₃ Cl ₅ O	352.33	99.2%
2,3,4,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	ER102607-01	116843-02-8	¹³ C ₁₂ H ₃ Cl ₅ O	352.33	99.0%
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER012208-01	109719-80-4	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.2%
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER010209-01	109719-81-5	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.5%
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER020111-02	109719-82-6	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.0%
1,2,3,4,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER072810-02	114423-98-2	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	99.6%
1,2,3,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER053107-03	116843-03-9	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	98.1%
1,2,3,7,8,9-Hexachlorodibenzofuran- ¹³ C ₁₂	ER100107-01	116843-04-0	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	98.7%
2,3,4,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER031507-03	116843-05-1	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	99.4%
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER111010-01	109719-83-7	¹³ C ₁₂ HCl ₇ O ₂	437.22	98.9%
1,2,3,4,6,7,8-Heptachlorodibenzofuran- ¹³ C ₁₂	ER020907-02	109719-84-8	¹³ C ₁₂ HCl ₇ O	421.22	97.6%
1,2,3,4,7,8,9-Heptachlorodibenzofuran- ¹³ C ₁₂	ER053107-02	109719-94-0	¹³ C ₁₂ HCl ₇ O	421.22	98.3%
Octachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER071610-01	114423-97-1	¹³ C ₁₂ Cl ₈ O ₂	471.66	98.9%

COA Revision History

Revision No.	Date	Reason for Revision
00	March 07, 2017	Initial version

Entry	Compound Name	RF Area [HRMS01_220204_17]	RF Area [HRMS01_220204_19]	RF Area [HRMS01_220204_21]	RF Area [HRMS01_220204_23]	RF Area [HRMS01_220204_25]	RF Area [HRMS01_220204_27]	RF Area [HRMS01_220204_29]	Average	Std. Deviation	RSD [%]	Correlation
1	2378-TCDF 13C12 STD	1.65	1.54	1.75	1.54	1.57	1.60	1.74	1.62	0.09	5.35	0.03
2	2378-TCDF	0.99	0.81	0.94	0.89	0.92	0.94	1.01	0.93	0.06	6.83	0.12
3	2378-TCDD 13C12 STD	1.20	1.07	1.12	1.34	1.09	1.15	1.18	1.16	0.09	7.66	0.00
4	1234-TCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
5	2378-TCDD 3704 STD	2.29	2.64	2.54	2.86	2.36	2.34	---	2.50	0.22	8.73	0.00
6	2378-TCDD	0.90	0.93	1.15	1.15	1.09	1.08	1.10	1.06	0.08	7.43	0.40
7	12378-PeCDF 13C12 STD	1.41	1.47	1.38	1.43	1.43	1.45	1.57	1.45	0.05	3.26	0.42
8	23478-PeCDF 13C12 STD	1.35	1.27	1.24	1.40	1.46	1.43	1.40	1.36	0.06	4.52	0.43
9	12378-PeCDF	1.00	1.02	1.00	0.97	0.97	0.97	1.00	0.99	0.02	1.79	0.32
10	23478-PeCDF	1.15	1.14	1.11	1.08	1.07	1.05	1.00	1.08	0.01	0.99	0.96
11	12378-PeCDD 13C12 STD	0.88	0.86	0.84	0.92	0.98	0.97	0.93	0.91	0.04	4.06	0.54
12	12378-PeCDD	1.11	0.97	0.94	1.01	0.99	0.99	1.01	1.00	0.05	4.83	0.09
13	123478-HxCDF 13C12 STD	1.19	1.17	1.03	1.03	1.20	1.23	1.10	1.12	0.11	9.63	0.01
14	123678-HxCDF 13C12 STD	1.24	1.21	1.00	1.16	1.26	1.35	1.24	1.21	0.10	8.20	0.15
15	234678-HxCDF 13C12 STD	1.25	1.21	0.99	1.15	1.25	1.21	1.19	1.18	0.09	7.52	0.01
16	123789-HxCDF 13C12 STD	1.15	1.16	1.12	1.06	1.18	1.21	1.14	1.15	0.05	4.15	0.04
17	123478-HxCDF	1.17	1.17	1.11	1.16	1.17	1.13	1.16	1.15	0.02	1.94	0.03
18	123678-HxCDF	1.27	1.21	1.12	1.09	1.16	1.10	1.05	1.14	0.04	3.53	0.71
19	234678-HxCDF	1.14	1.29	1.26	1.13	1.22	1.17	1.15	1.19	0.06	5.17	0.10
20	123789-HxCDF	1.21	1.12	1.08	1.05	1.14	1.08	1.15	1.12	0.05	4.72	0.10
21	123478-HxCDD 13C12 STD	0.87	0.91	0.89	0.89	0.90	0.94	0.85	0.89	0.03	3.47	0.00
22	123678-HxCDD 13C12 STD	0.95	0.95	0.87	0.95	0.91	1.00	0.90	0.93	0.04	4.46	0.00
23	123789-HxCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
24	123478-HxCDD	1.03	1.09	1.03	1.01	1.04	1.00	1.10	1.04	0.04	3.76	0.00
25	123678-HxCDD	1.15	1.09	1.07	1.03	1.07	0.96	1.06	1.06	0.04	3.84	0.51
26	123789-HxCDD	1.15	1.06	1.12	1.00	1.09	0.93	1.10	1.06	0.07	6.13	0.21
27	1234678-HpCDF 13C12 STD	1.04	1.22	1.03	0.94	1.10	1.19	1.11	1.09	0.10	8.77	0.03
28	1234789-HpCDF 13C12 STD	0.88	1.12	0.87	0.99	1.05	1.31	1.00	1.03	0.13	12.98	0.22
29	1234678-HpCDF	1.27	1.29	1.29	1.28	1.26	1.28	1.33	1.29	0.02	1.63	0.19
30	1234789-HpCDF	1.28	1.32	1.29	1.26	1.33	1.26	1.31	1.29	0.03	2.26	0.00
31	1234678-HpCDD 13C12 STD	0.83	0.91	0.83	0.87	0.90	1.07	0.90	0.90	0.07	7.33	0.32
32	1234678-HpCDD	1.07	1.08	1.10	1.08	1.10	1.10	1.02	1.08	0.03	2.37	0.11
33	OCDF	1.33	1.50	1.33	1.28	1.39	1.44	1.50	1.40	0.08	5.91	0.16
34	OCDD 13C12 STD	0.78	0.81	0.77	0.83	0.74	0.97	0.73	0.80	0.08	10.09	0.02
35	OCDD	1.14	1.15	1.04	1.04	1.05	1.06	1.09	1.08	0.04	3.79	0.29
36	Total native TCDF	0.99	0.81	0.94	0.89	0.92	0.94	1.01	0.93	0.06	6.83	0.12
37	Total native TCDD	0.90	0.93	1.15	1.15	1.09	1.08	1.10	1.06	0.08	7.43	0.40
38	Total native PeCDF	1.05	1.00	1.00	1.01	1.03	1.00	0.94	1.01	0.05	4.92	0.21
39	Total native PeCDD	1.11	0.97	0.94	1.01	0.99	0.99	1.01	1.00	0.05	4.83	0.09
40	Total native HxCDF	1.21	1.22	1.24	1.18	1.20	1.13	1.19	1.20	0.07	5.78	0.11
41	Total native HxCDD	1.18	1.12	1.06	1.06	1.08	1.00	1.13	1.09	0.07	6.23	0.14
42	Total native HpCDF	1.17	1.25	1.19	1.30	1.26	1.33	1.25	1.25	0.08	6.50	0.13
43	Total native HpCDD	1.07	1.08	1.10	1.08	1.10	1.10	1.02	1.08	0.03	2.37	0.11

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 02:18
Number of Entries	59
Comment	HRMS210204A
Vial	4
Sample Name	IA1613STD-.25
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_17_seq
Data	hrms01_220204_17
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

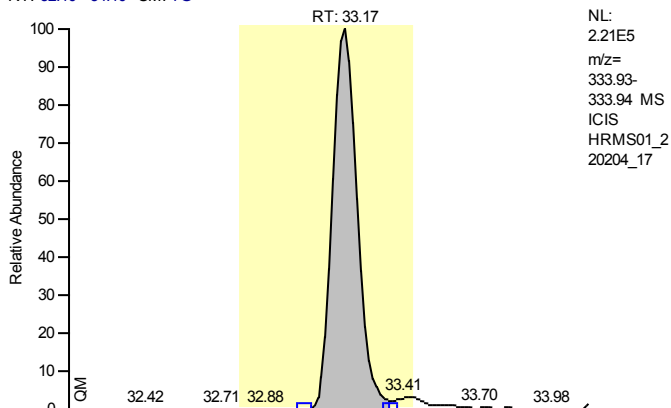
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1464088	1178365	0.8048	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2465163	1893071	0.7679	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	6259	4548	0.7267	0.6500 - 0.8900	0.25	0.25	100	0.0250
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	6259	4548	0.7267	0.6500 - 0.8900	0.25	0.25	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	6259	4548	0.7267	0.6500 - 0.8900	0.25	0.25	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1713240	1465324	0.8553	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	3945	3190	0.8087	0.6500 - 0.8900	0.25	0.25	100	0.2500
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	3945	3190	0.8087	0.6500 - 0.8900	0.25	0.25	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	3945	3190	0.8087	0.6500 - 0.8900	0.25	0.25	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1481314	2232794	1.5073	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	18167	28458	1.5664	1.3200 - 1.7800	1.25	1.25	100	0.0375
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	36756	61041	1.6607	1.3200 - 1.7800	1.25	2.50	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	18167	28458	1.5664	1.3200 - 1.7800	1.25	1.25	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	18589	32584	1.7529	1.3200 - 1.7800	1.25	1.25	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1412359	2145302	1.5189	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	18589	32584	1.7529	1.3200 - 1.7800	1.25	1.25	100	0.3750
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		932770	1394981	1.4955	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	12559	19598	1.5605	1.3200 - 1.7800	1.25	1.25	100	1.2500
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	12559	19598	1.5605	1.3200 - 1.7800	1.25	1.25	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	12559	19598	1.5605	1.3200 - 1.7800	1.25	1.25	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		7552	7552	1.0000	0.8500 - 1.1500	0.25	0.25	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1301883	1655926	1.2719	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2334052	1199414	0.5139	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	22867	28670	1.2538	1.0500 - 1.4300	1.25	1.25	100	0.1250
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	93881	119871	1.2768	1.0500 - 1.4300	1.25	5.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	25837	32239	1.2478	1.0500 - 1.4300	1.25	1.25	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	22867	28670	1.2538	1.0500 - 1.4300	1.25	1.25	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	22450	30123	1.3418	1.0500 - 1.4300	1.25	1.25	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	22728	28839	1.2689	1.0500 - 1.4300	1.25	1.25	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		2358968	1306552	0.5539	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	25837	32239	1.2478	1.0500 - 1.4300	1.25	1.25	100	0.1250
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2429337	1264758	0.5206	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	22450	30123	1.3418	1.0500 - 1.4300	1.25	1.25	100	0.1250
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		2246931	1150016	0.5118	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	22728	28839	1.2689	1.0500 - 1.4300	1.25	1.25	100	0.1250
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1118584	1455727	1.3014	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	14606	18674	1.2785	1.0500 - 1.4300	1.25	1.25	100	0.1250
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	48312	65632	1.3585	1.0500 - 1.4300	1.25	3.74	299	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	17111	23266	1.3597	1.0500 - 1.4300	1.25	1.25	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	14606	18674	1.2785	1.0500 - 1.4300	1.25	1.25	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	16596	23693	1.4276	1.0500 - 1.4300	1.25	1.24	99	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1233889	1571462	1.2736	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	17111	23266	1.3597	1.0500 - 1.4300	1.25	1.25	100	0.1250
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	16611	23625	1.4222	1.0500 - 1.4300	1.25	1.24	99	0.1241
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2109812	974535	0.4619	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	24549	24263	0.9883	0.8800 - 1.2000	1.25	1.25	100	0.0125
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	44326	45958	1.0368	0.8800 - 1.2000	1.25	2.50	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	24549	24263	0.9883	0.8800 - 1.2000	1.25	1.25	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	19777	21695	1.0970	0.8800 - 1.2000	1.25	1.25	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1806509	794864	0.4400	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	19777	21695	1.0970	0.8800 - 1.2000	1.25	1.25	100	0.0125
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1181757	1284063	1.0866	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	15045	18008	1.1970	0.8800 - 1.2000	1.25	1.25	100	0.0125
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	15045	18008	1.1970	0.8800 - 1.2000	1.25	1.25	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	15045	18008	1.1970	0.8800 - 1.2000	1.25	1.25	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2396976	2202981	0.9191	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	38214	38149	0.9983	0.7600 - 1.0200	2.50	2.50	100	0.0007
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	35208	30549	0.8677	0.7600 - 1.0200	2.50	2.50	100	0.0007
59	overall TEQ	overall TEQ test		334520	406477	1.2151	0.0000 - 0.0000	0.00	21.74	---	2.8506

Chromatogram

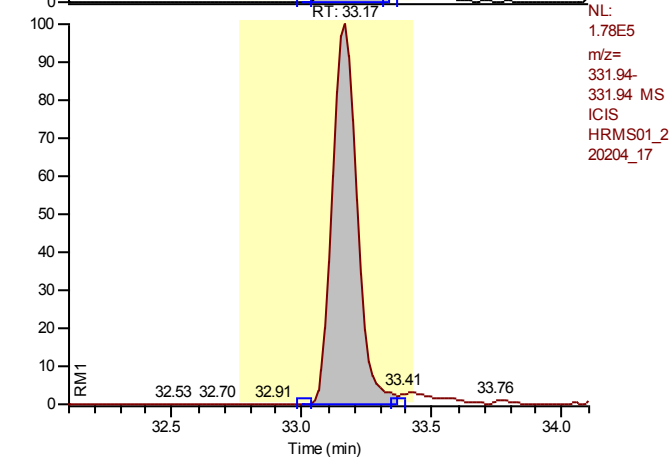
Entry Parameters

RT: 32.10 - 34.10 SM: 7G



NL:
 2.21E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1464088
RM1 Area	1178365
RM1 Ratio (A)	0.8048
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

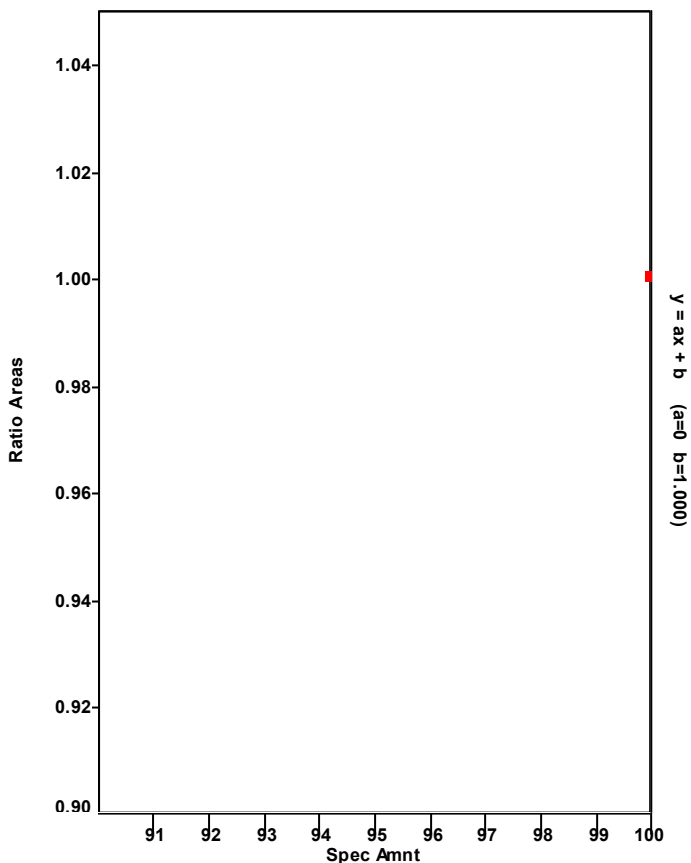


NL:
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 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

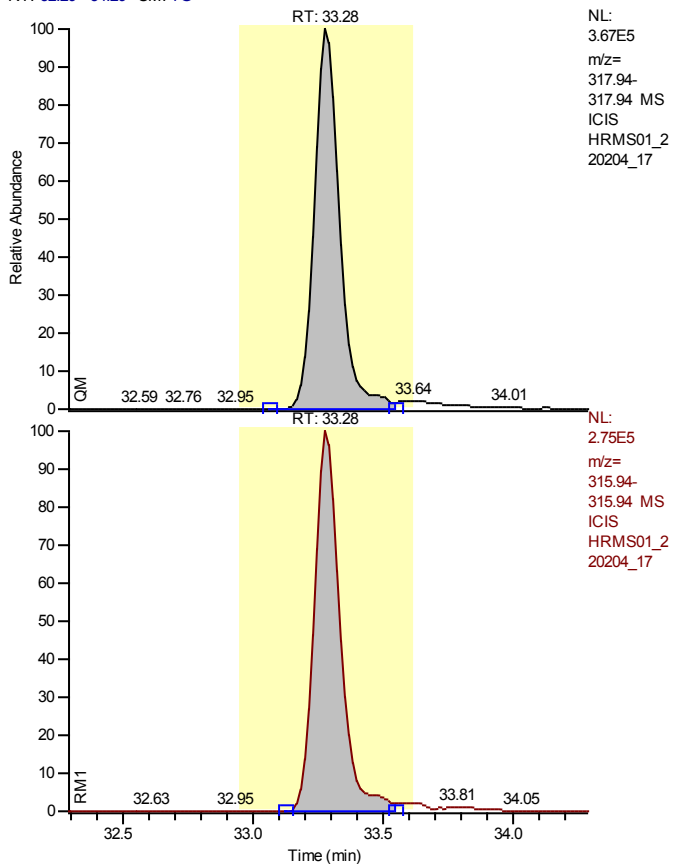
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.29 - 34.29 SM: 7G

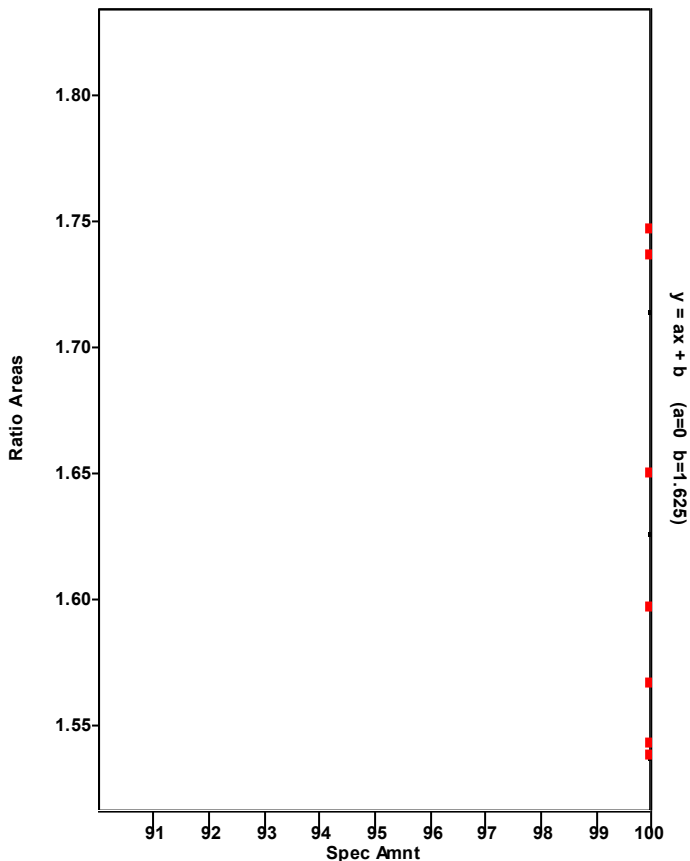


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2465163
RM1 Area	1893071
RM1 Ratio (A)	0.7679
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

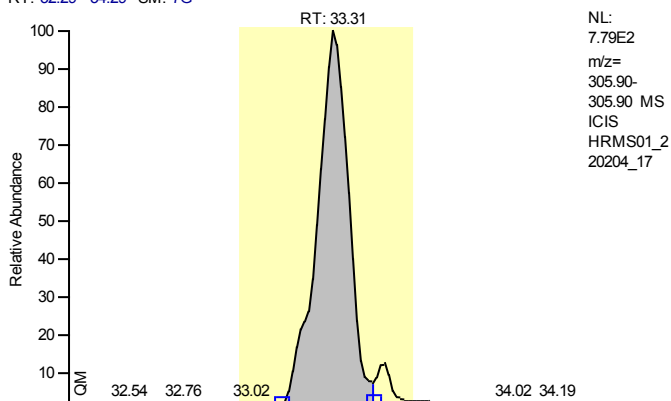
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

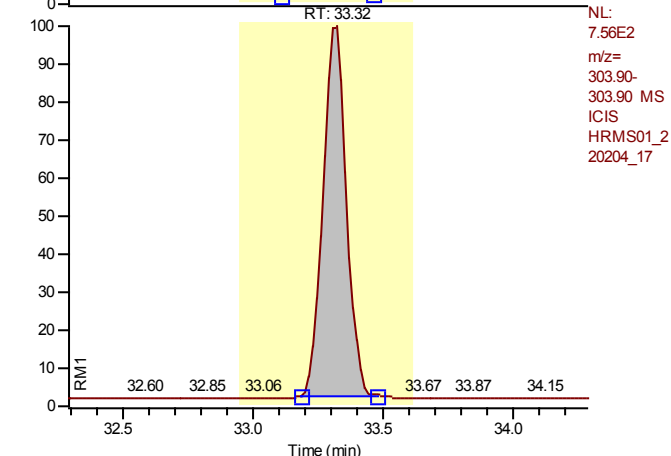
Entry Parameters

RT: 32.29 - 34.29 SM: 7G



NL:
7.79E2
m/z=
305.90-
305.90 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	6259
RM1 Area	4548
RM1 Ratio (A)	0.7267
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

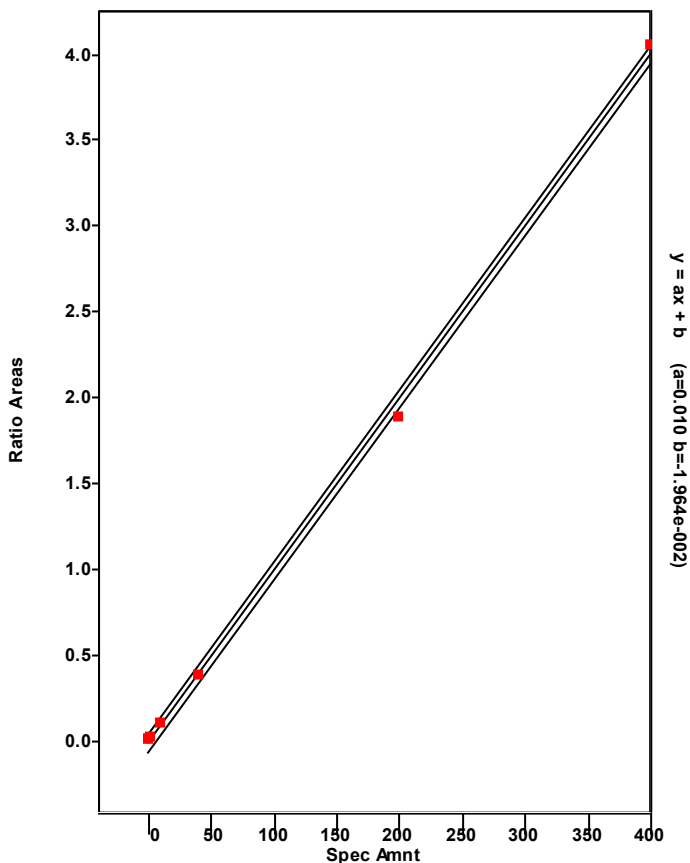


NL:
7.56E2
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20204_17

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

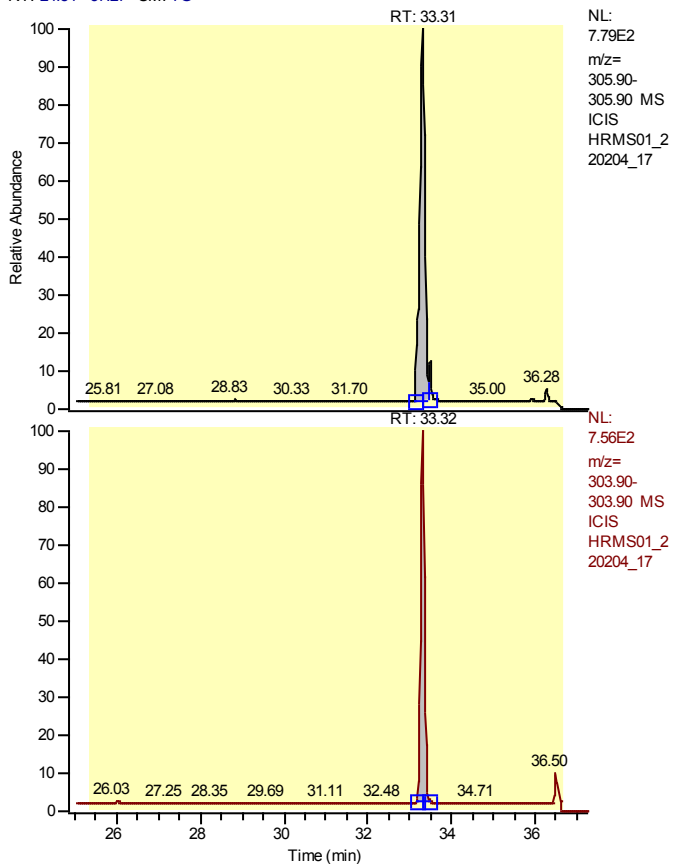
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.84 - 37.27 SM: 7G

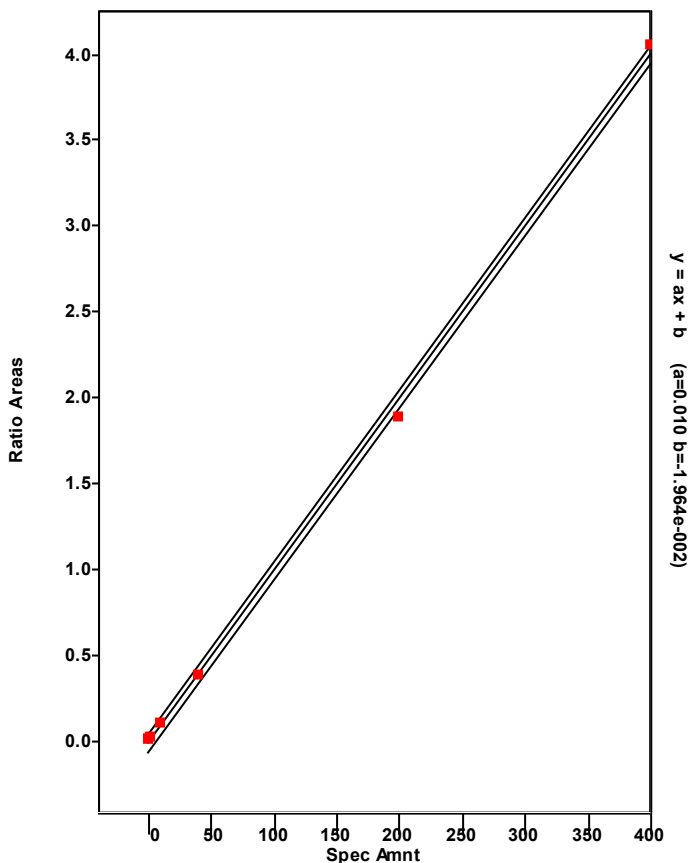


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	6259
RM1 Area	4548
RM1 Ratio (A)	0.7267
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

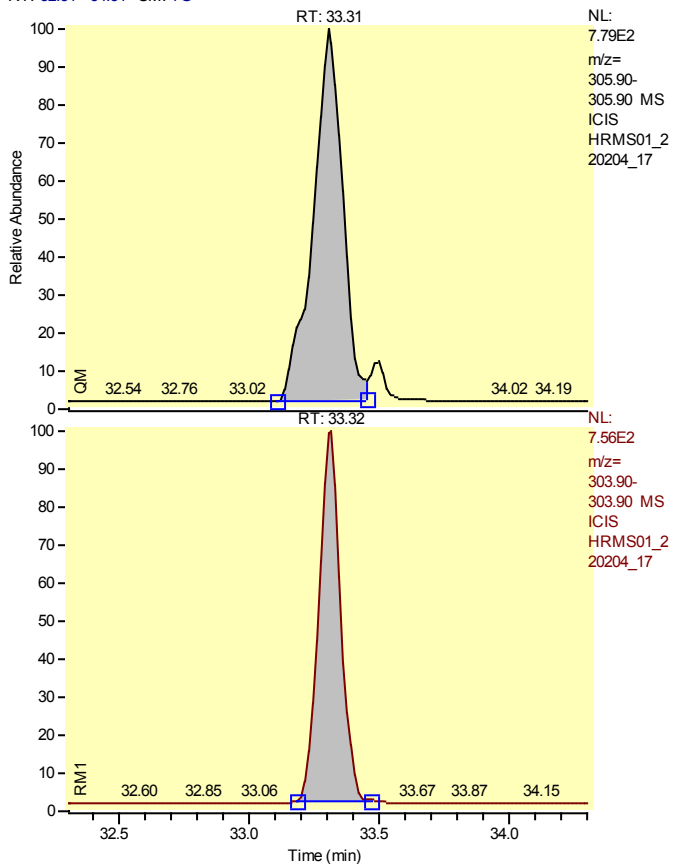
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G

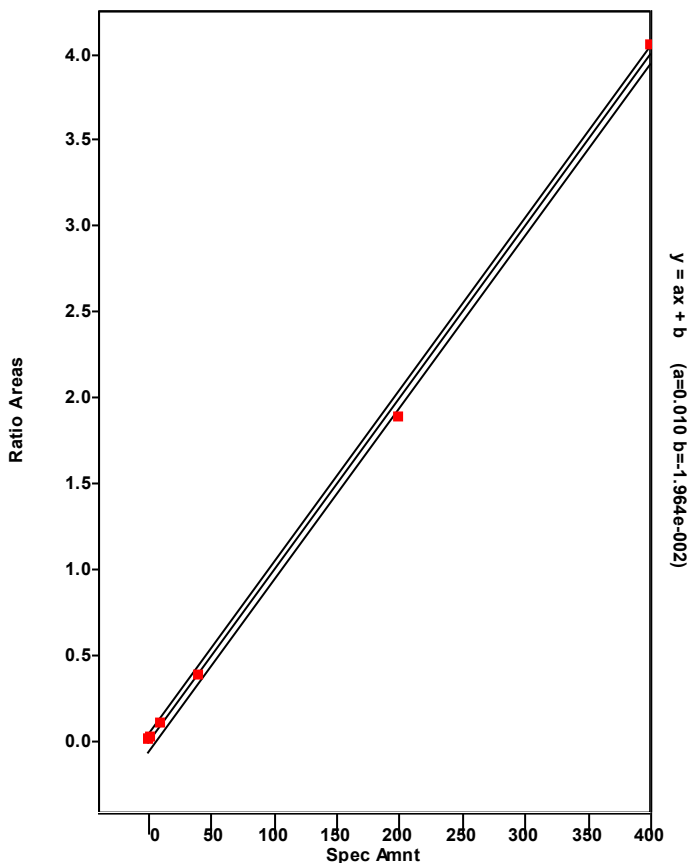


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	6259
RM1 Area	4548
RM1 Ratio (A)	0.7267
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

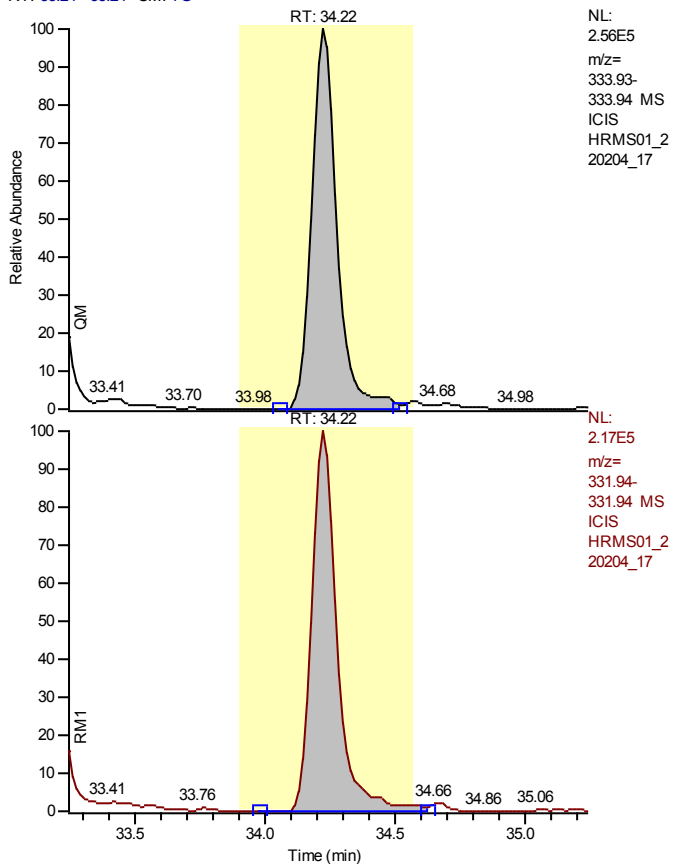
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G

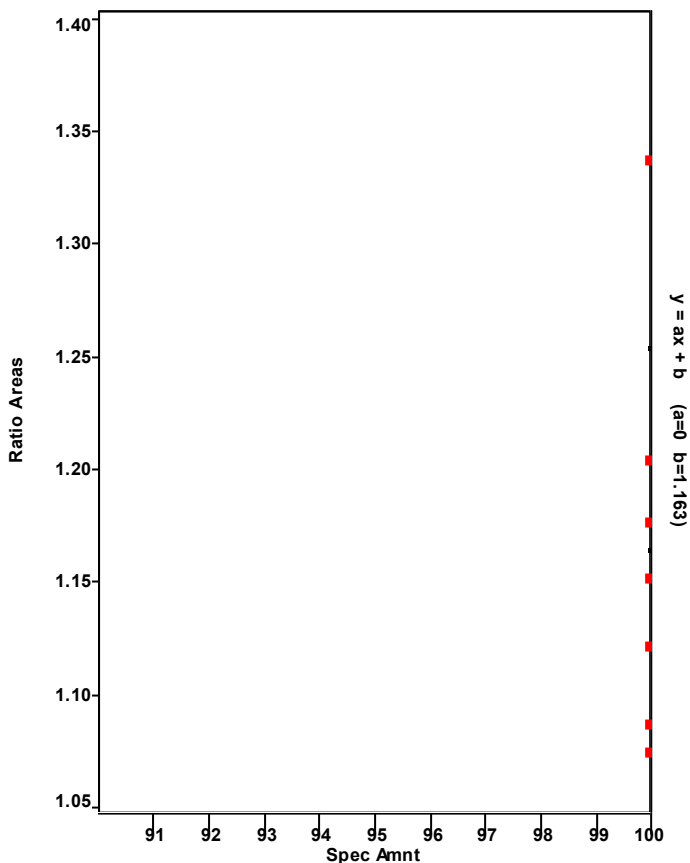


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1713240
RM1 Area	1465324
RM1 Ratio (A)	0.8553
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

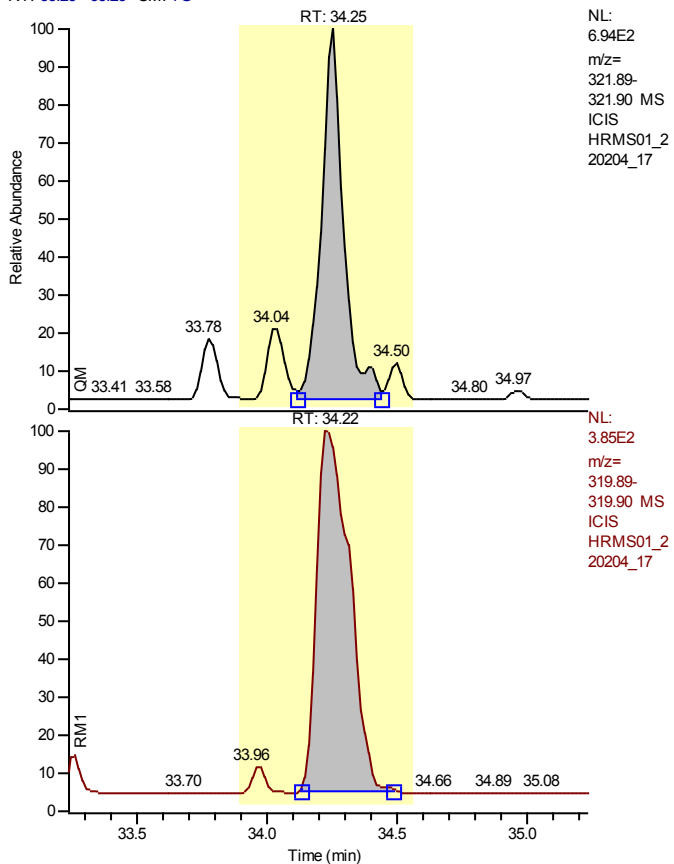
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G



NL:
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m/z=
321.89-
321.90 MS
ICIS
HRMS01_2
20204_17

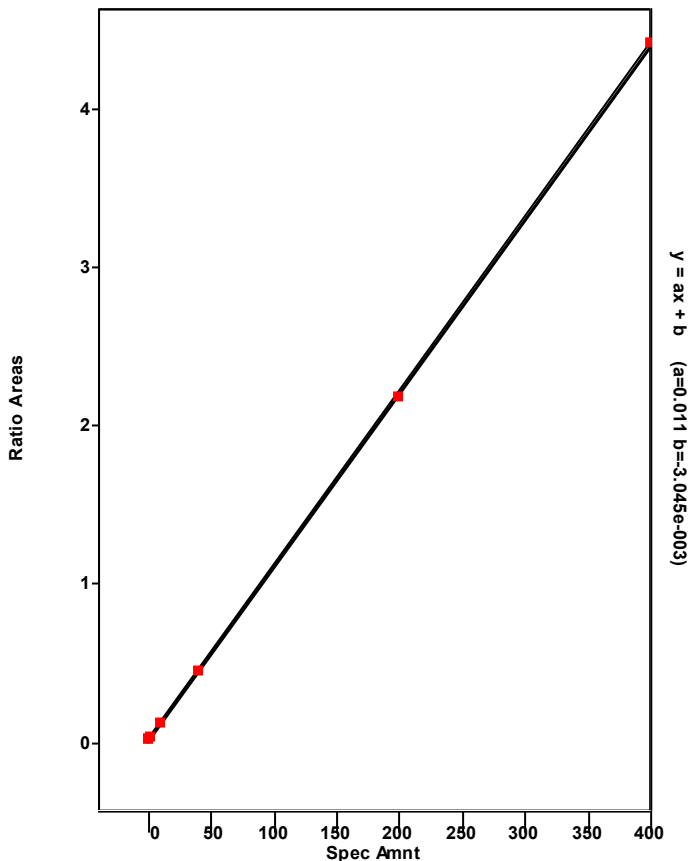
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	3945
RM1 Area	3190
RM1 Ratio (A)	0.8087
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

NL:
3.85E2
m/z=
319.89-
319.90 MS
ICIS
HRMS01_2
20204_17

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

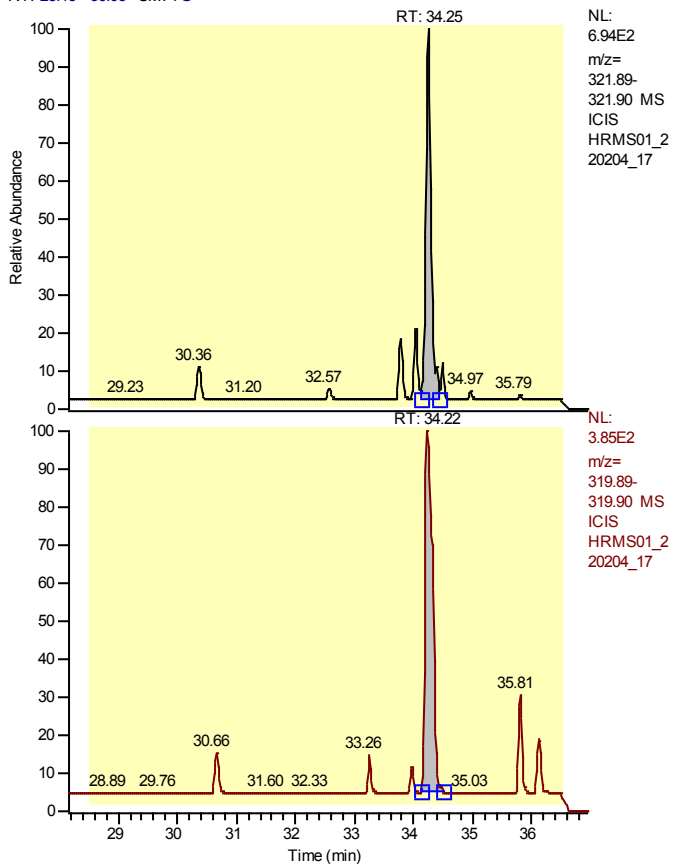
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.15 - 36.95 SM: 7G

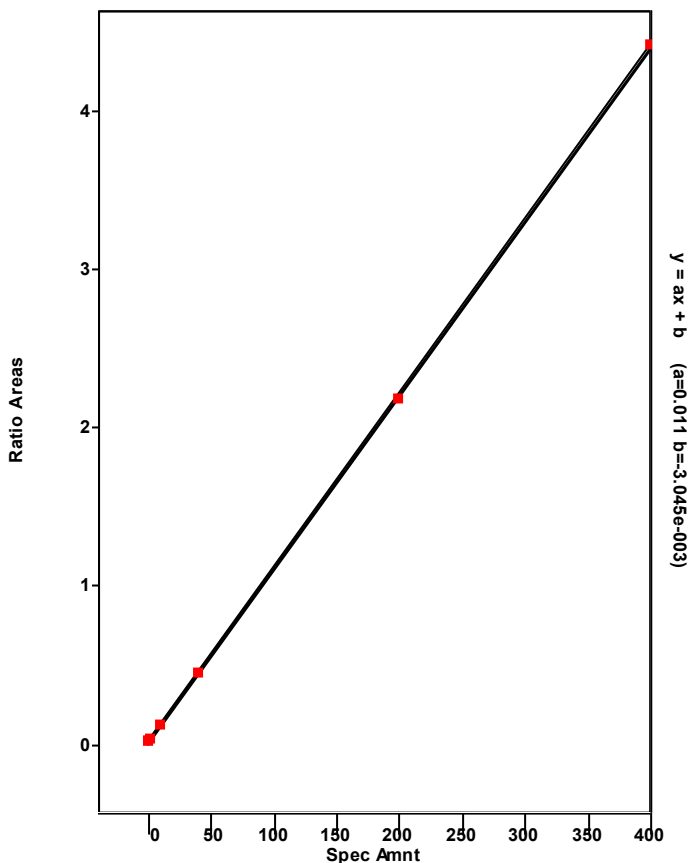


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	3945
RM1 Area	3190
RM1 Ratio (A)	0.8087
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

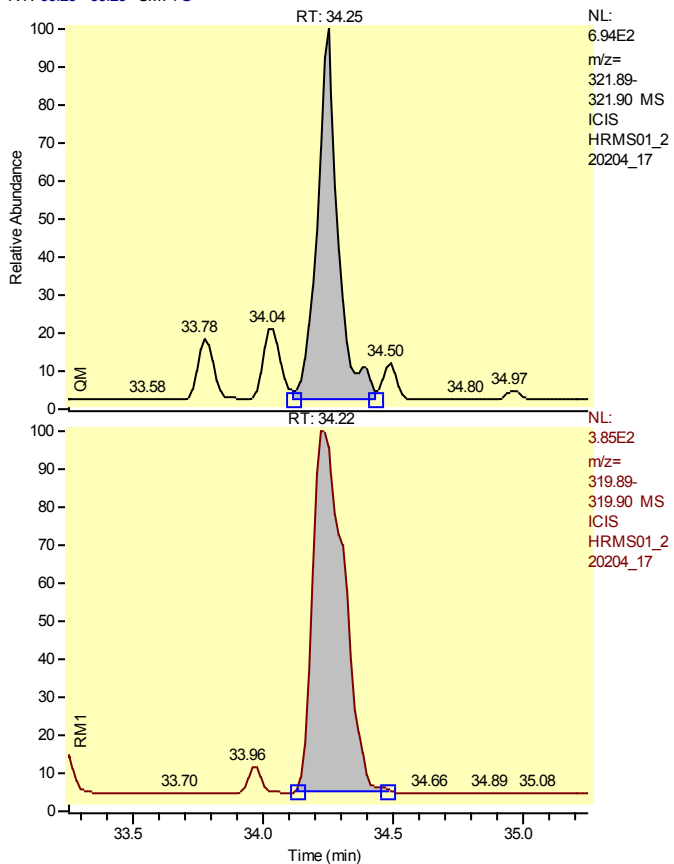
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.25 - 35.25 SM: 7G

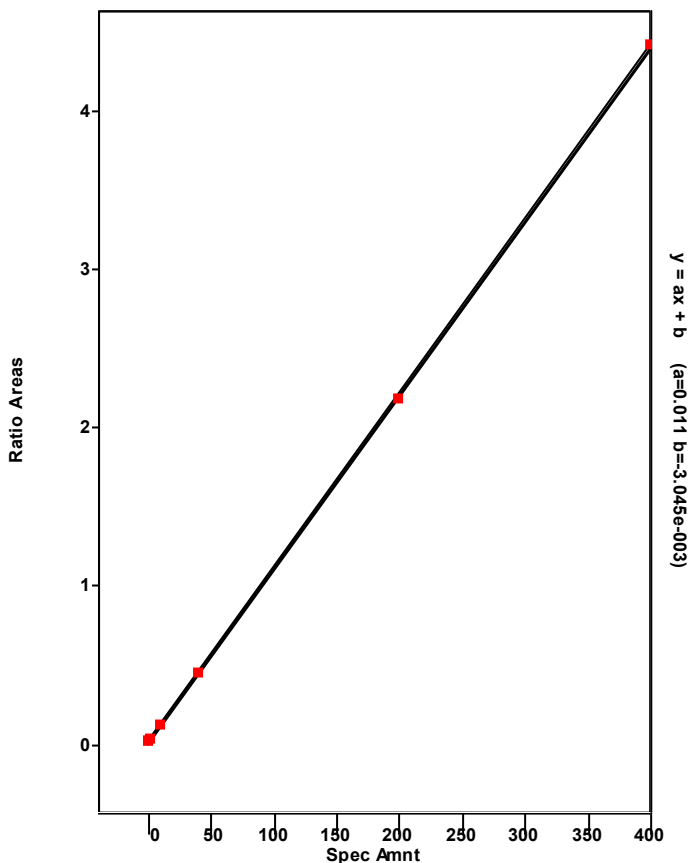


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	3945
RM1 Area	3190
RM1 Ratio (A)	0.8087
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

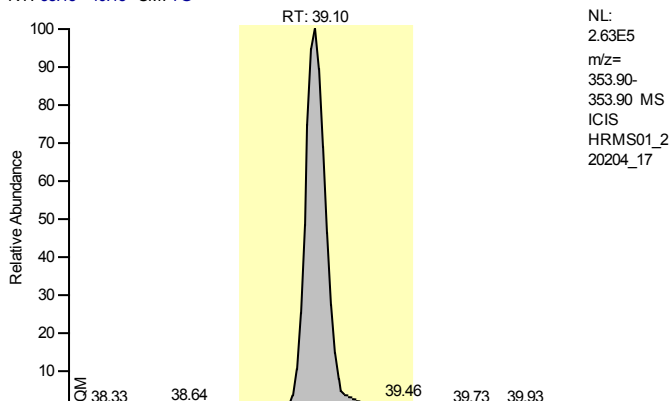
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

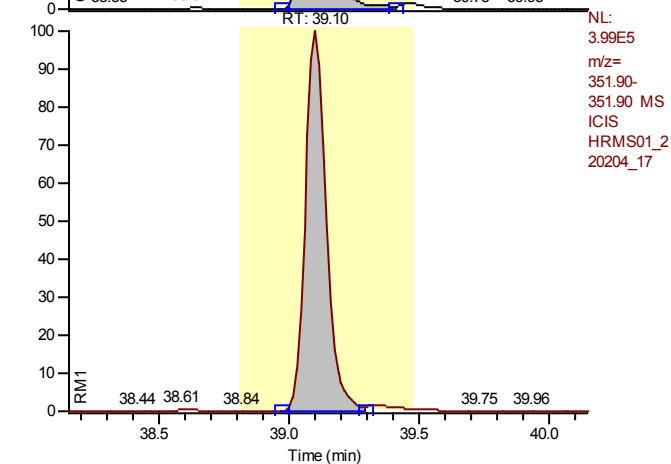
Entry Parameters

RT: 38.15 - 40.15 SM: 7G



NL:
 2.63E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1481314
RM1 Area	2232794
RM1 Ratio (A)	1.5073
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

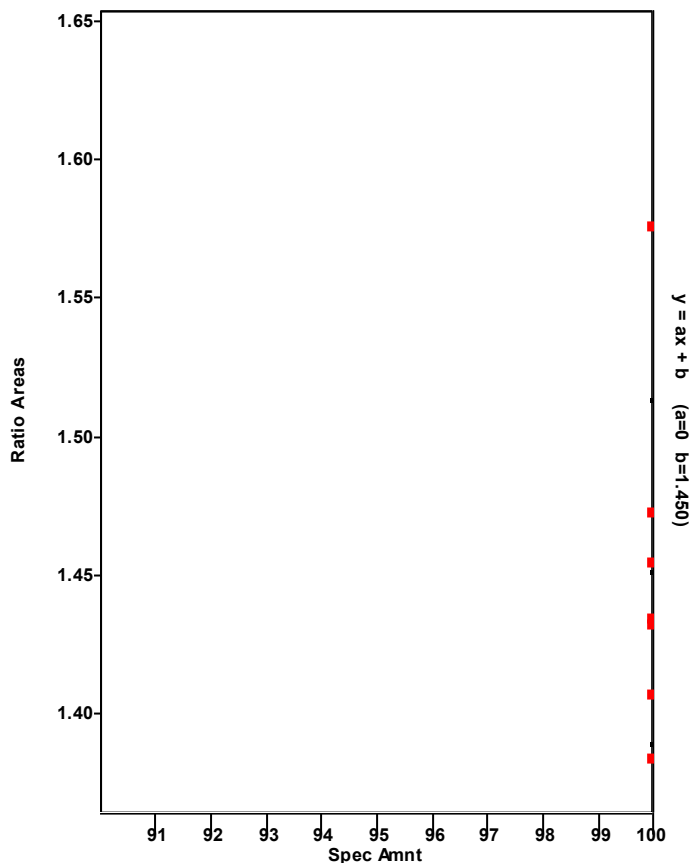


NL:
 3.99E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

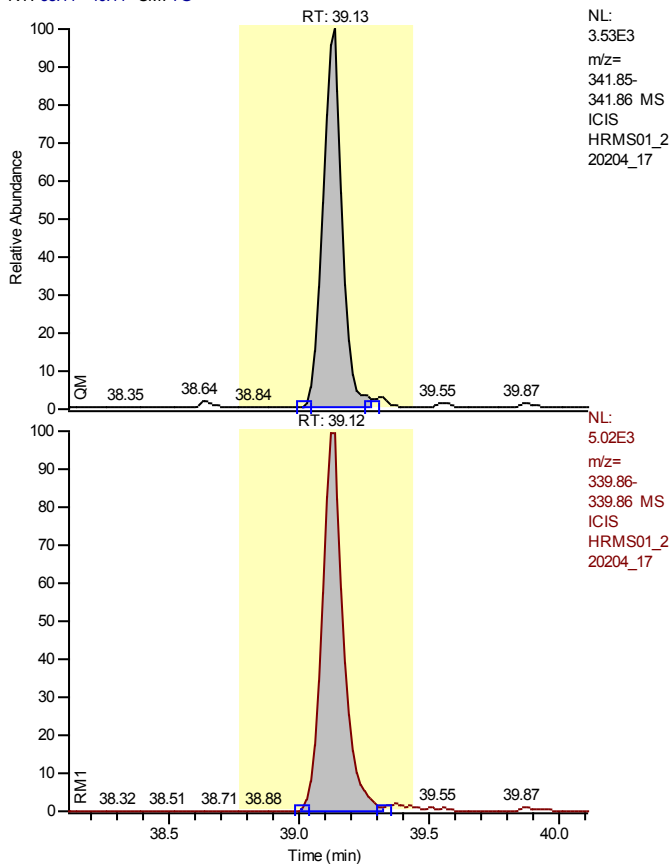
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G



NL:
 3.53E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_17

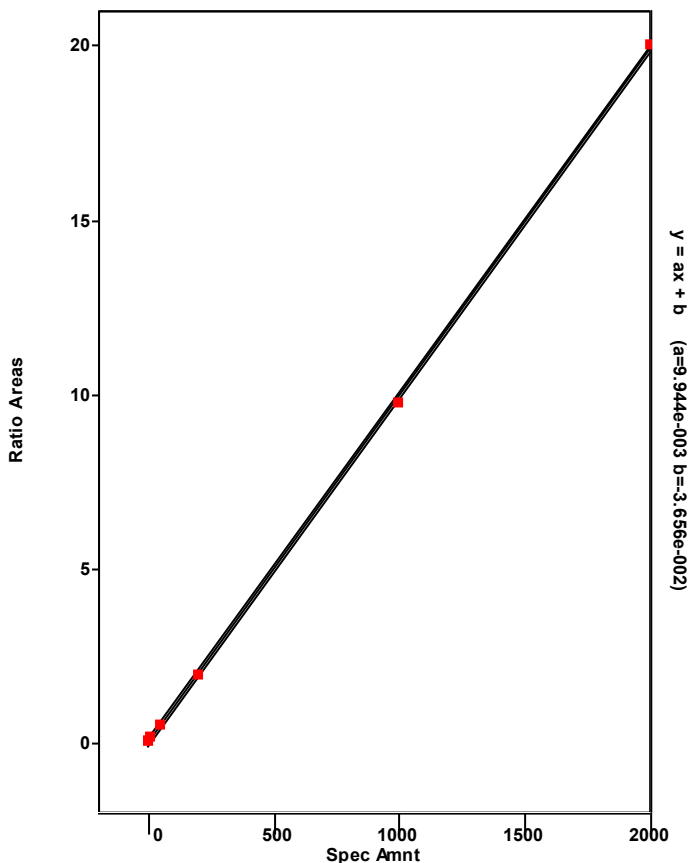
NL:
 5.02E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	18167
RM1 Area	28458
RM1 Ratio (A)	1.5664
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0375
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

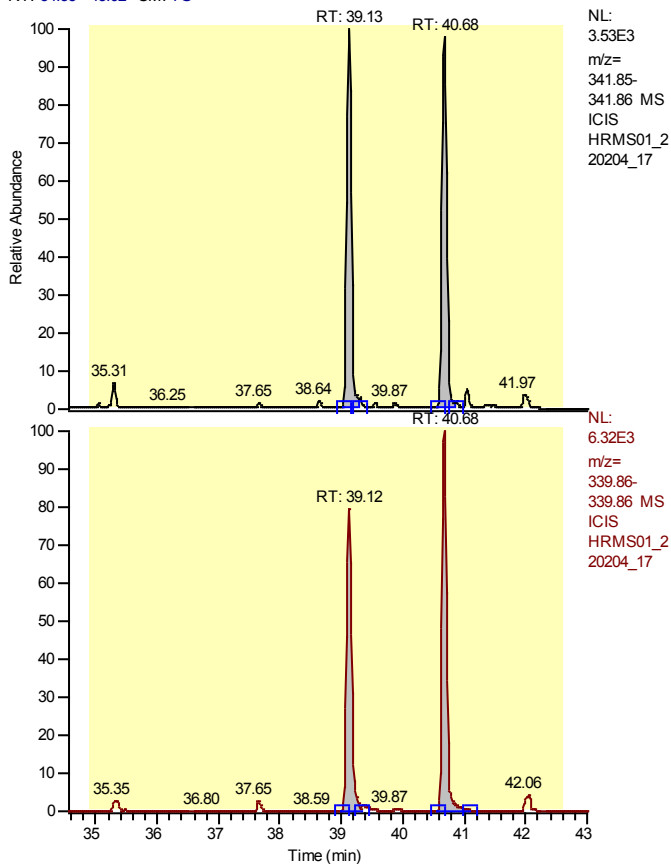
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.55 - 43.02 SM: 7G

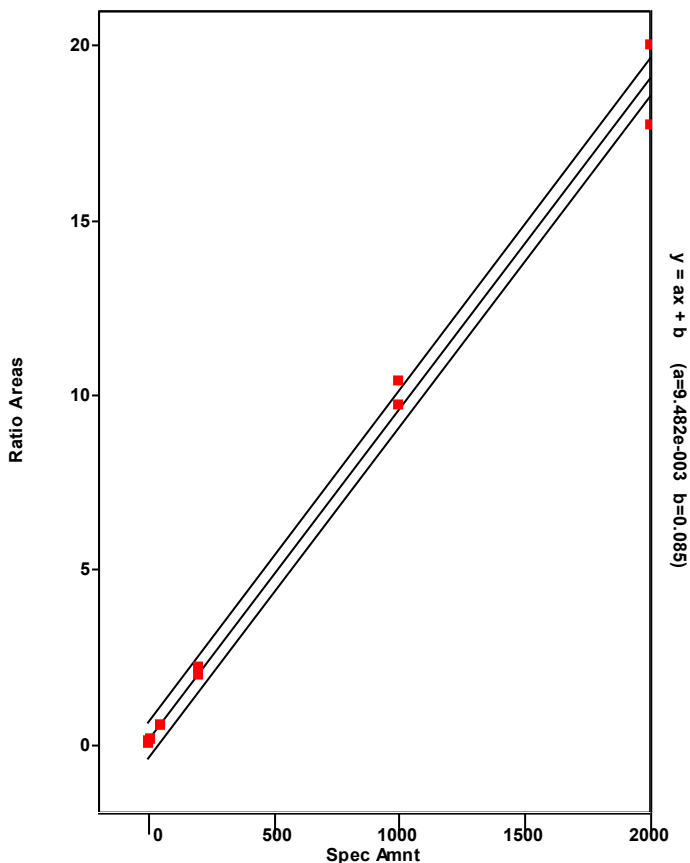


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	36756
RM1 Area	61041
RM1 Ratio (A)	1.6607
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	2.50
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

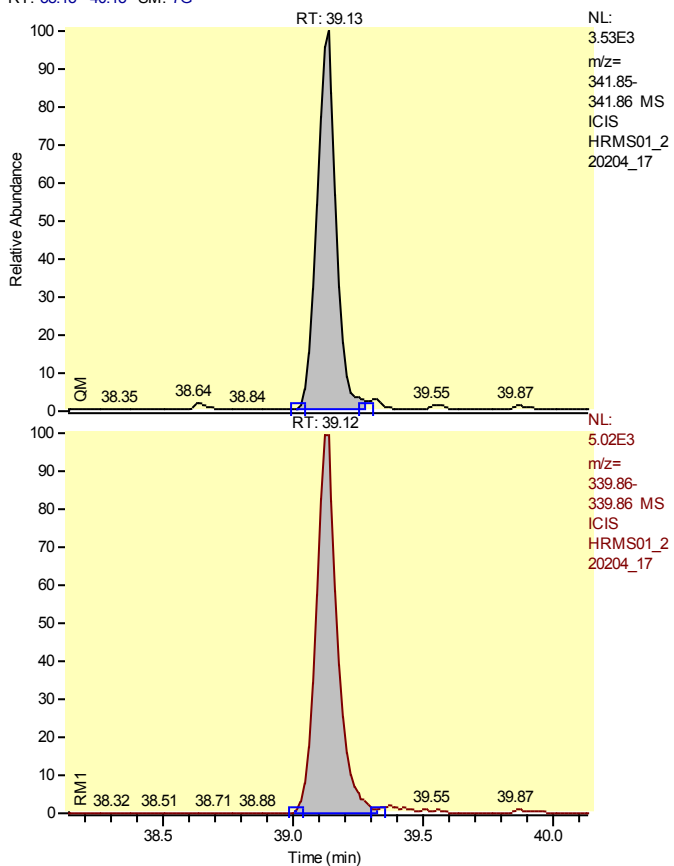
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G

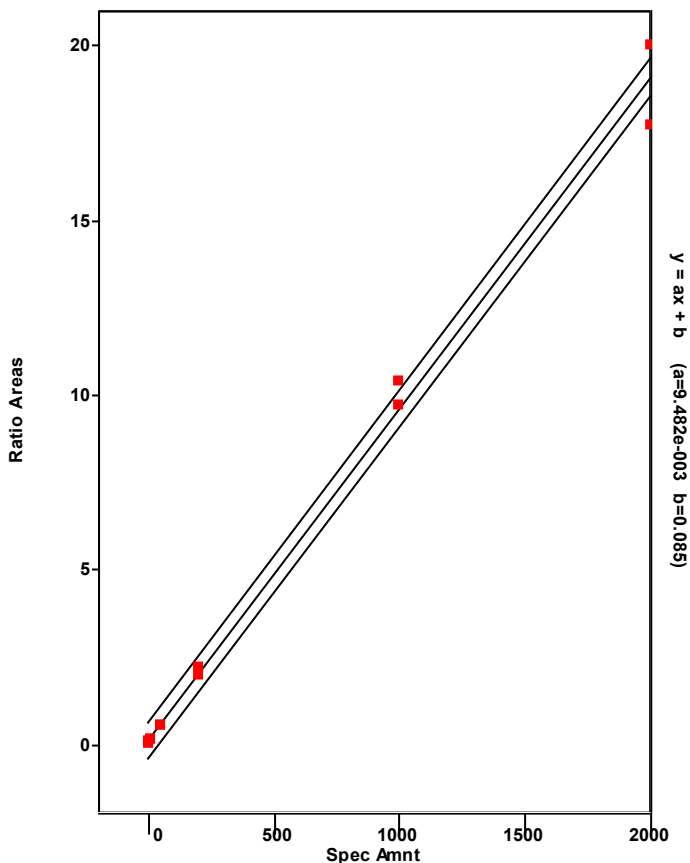


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	18167
RM1 Area	28458
RM1 Ratio (A)	1.5664
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

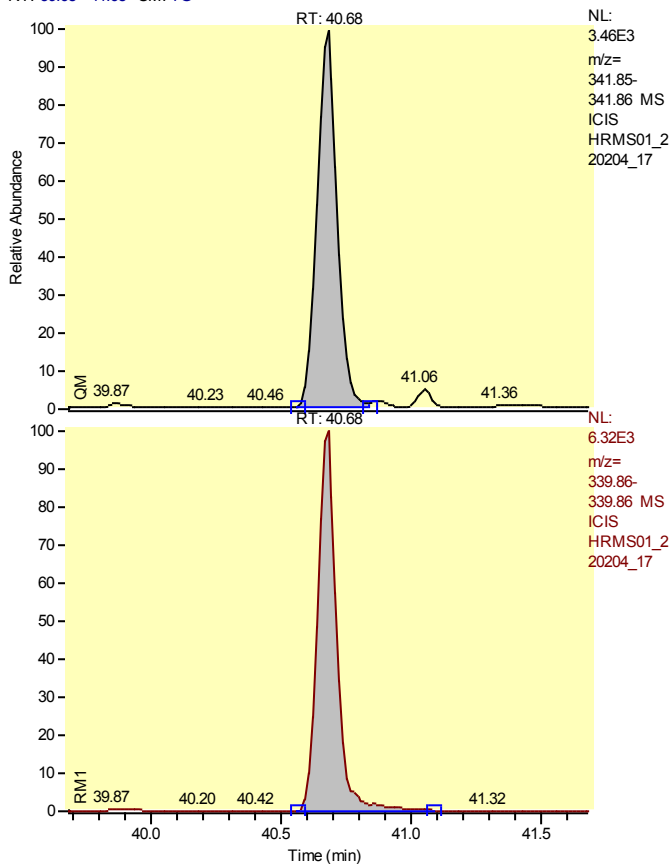
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.68 - 41.68 SM: 7G

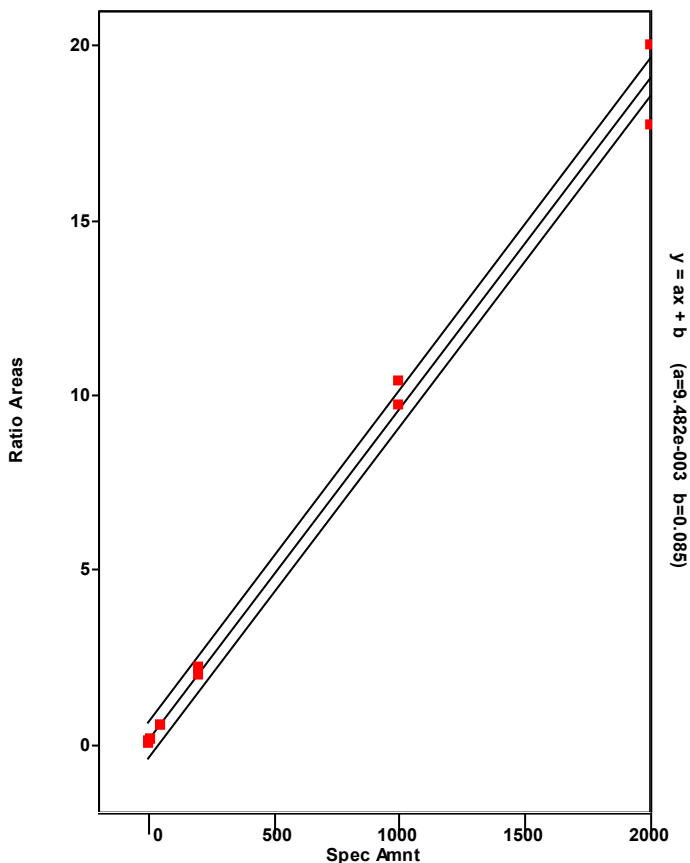


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	18589
RM1 Area	32584
RM1 Ratio (A)	1.7529
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

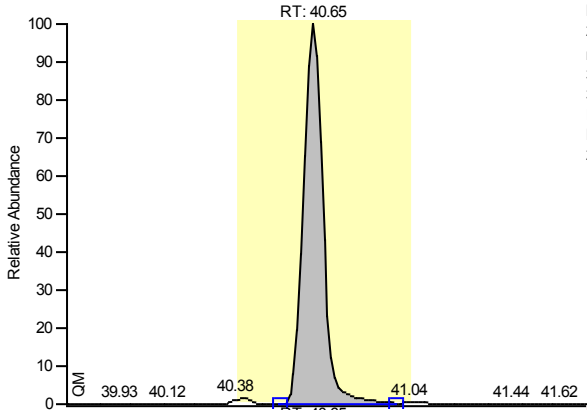
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

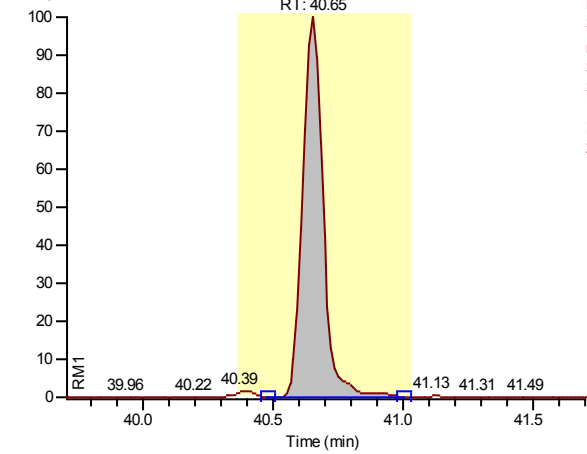
Entry Parameters

RT: 39.70 - 41.70 SM: 7G



NL:
2.72E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1412359
RM1 Area	2145302
RM1 Ratio (A)	1.5189
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

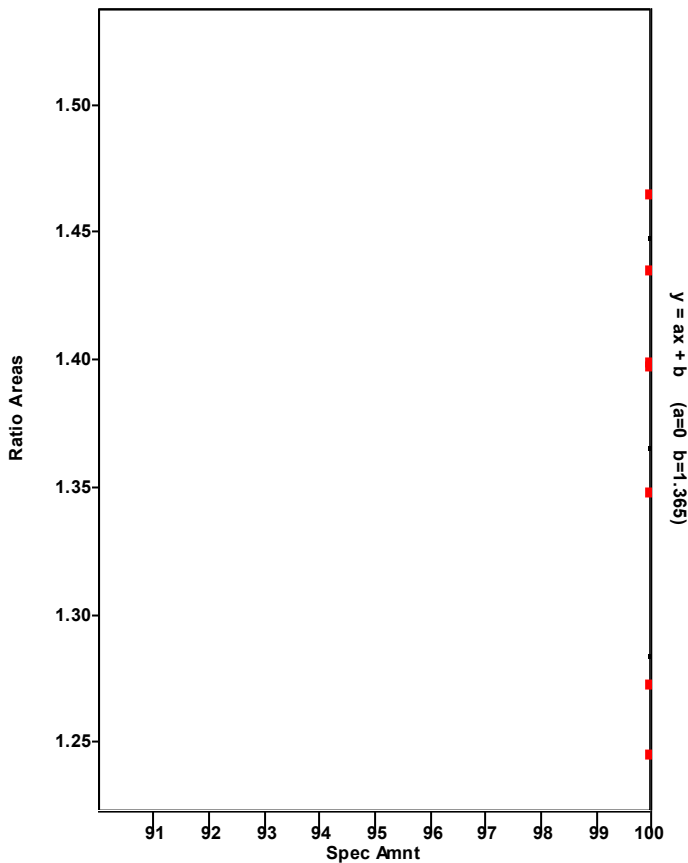


NL:
3.99E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20204_17

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

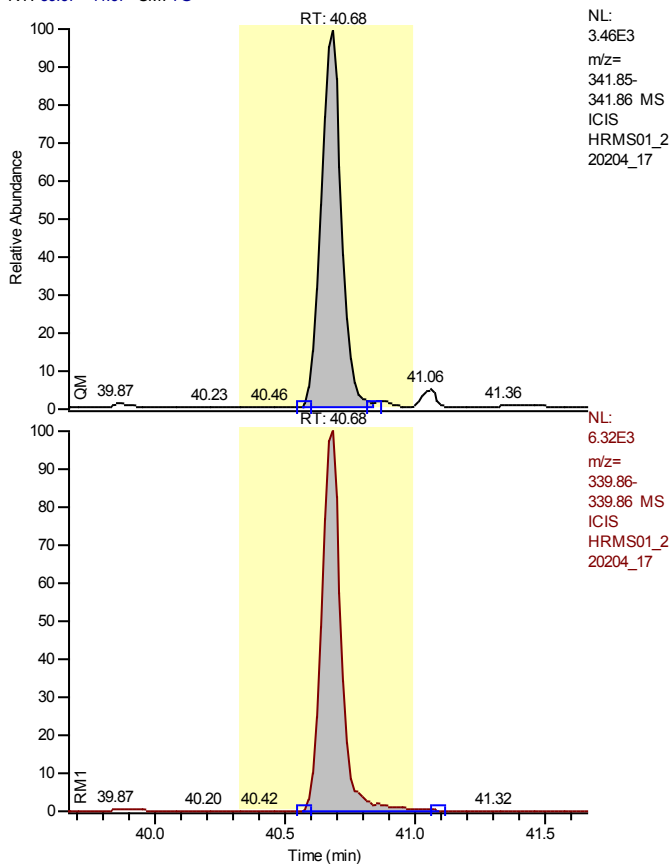
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.67 - 41.67 SM: 7G



NL:
 3.46E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_17

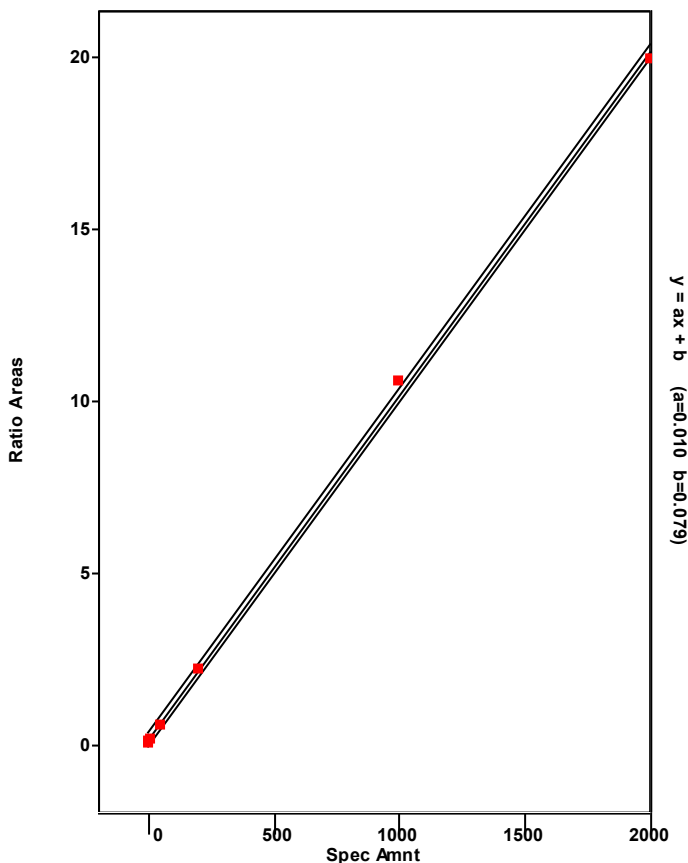
NL:
 6.32E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	18589
RM1 Area	32584
RM1 Ratio (A)	1.7529
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.3750
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

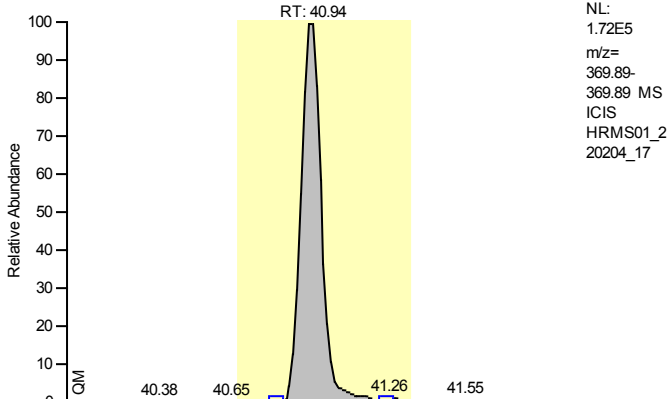
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

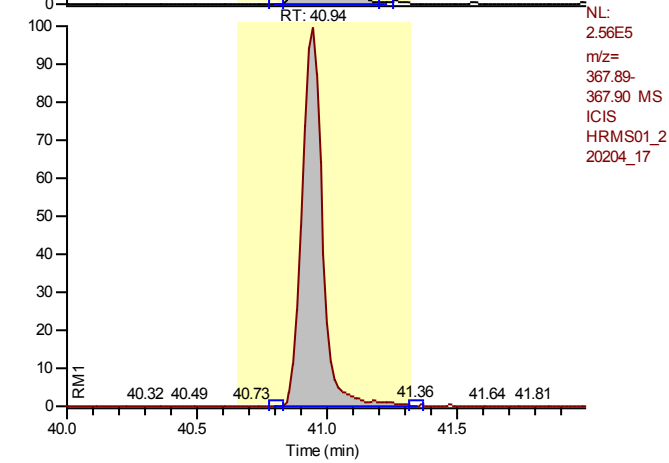
Entry Parameters

RT: 39.99 - 41.99 SM: 7G



NL:
1.72E5
m/z=
369.89-
369.89 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	932770
RM1 Area	1394981
RM1 Ratio (A)	1.4955
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

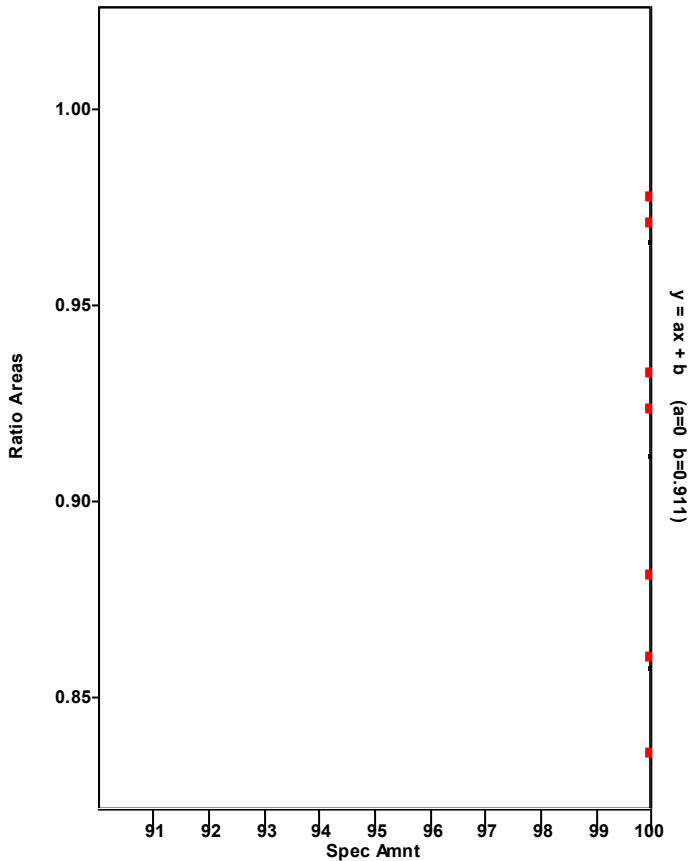


NL:
2.56E5
m/z=
367.89-
367.90 MS
ICIS
HRMS01_2
20204_17

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

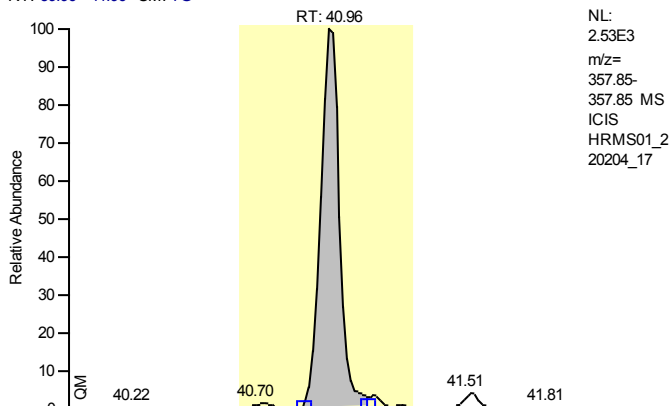
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

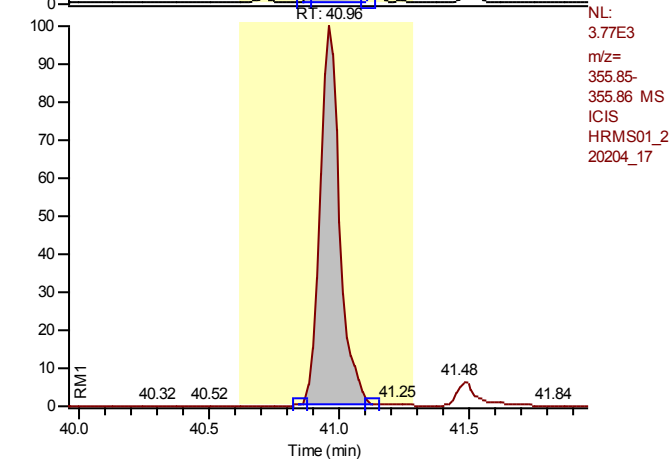
Entry Parameters

RT: 39.96 - 41.96 SM: 7G



NL:
2.53E3
m/z=
357.85-
357.85 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	12559
RM1 Area	19598
RM1 Ratio (A)	1.5605
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	1.2500
Label2	

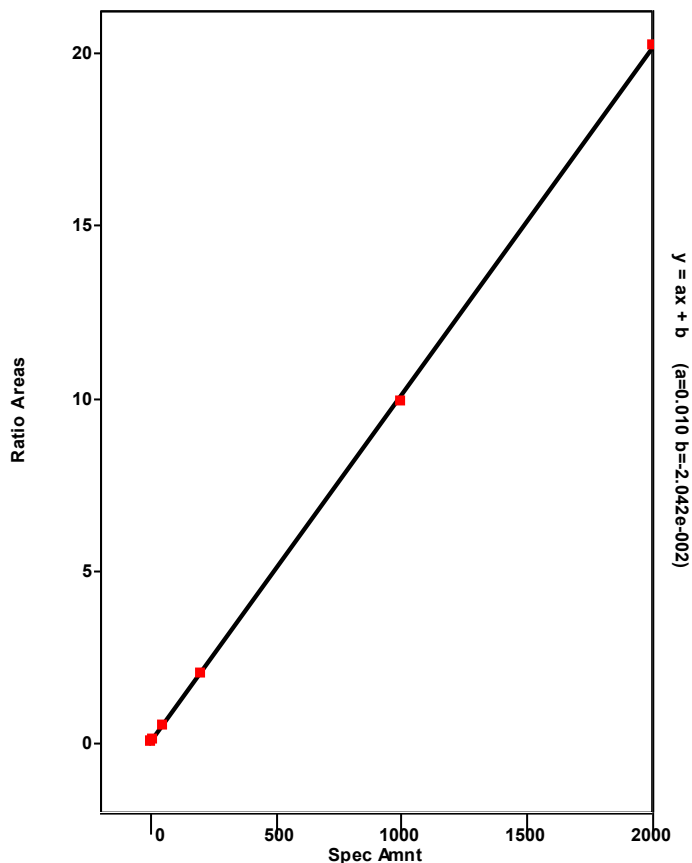


NL:
3.77E3
m/z=
355.85-
355.86 MS
ICIS
HRMS01_2
20204_17

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

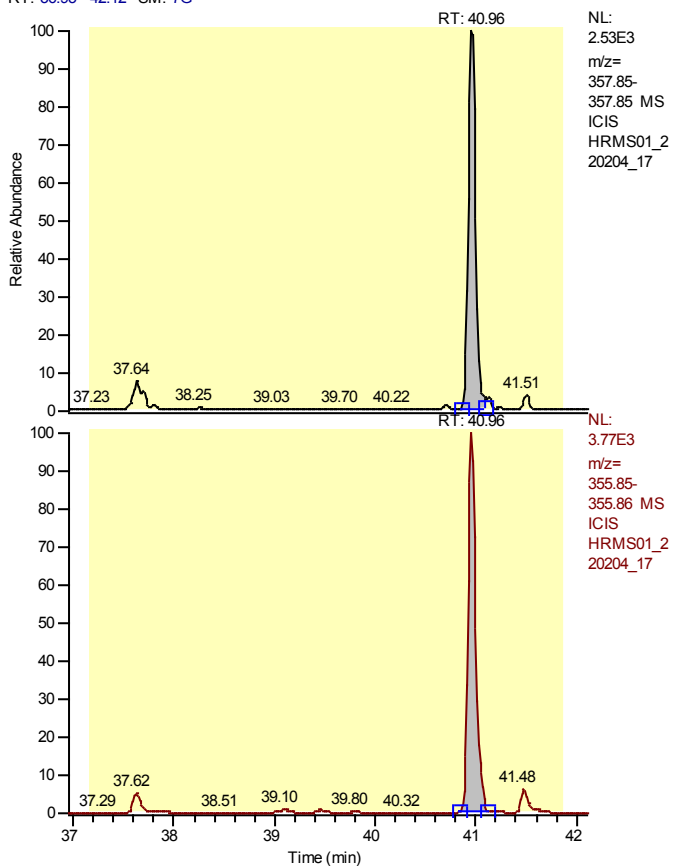
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.95 - 42.12 SM: 7G

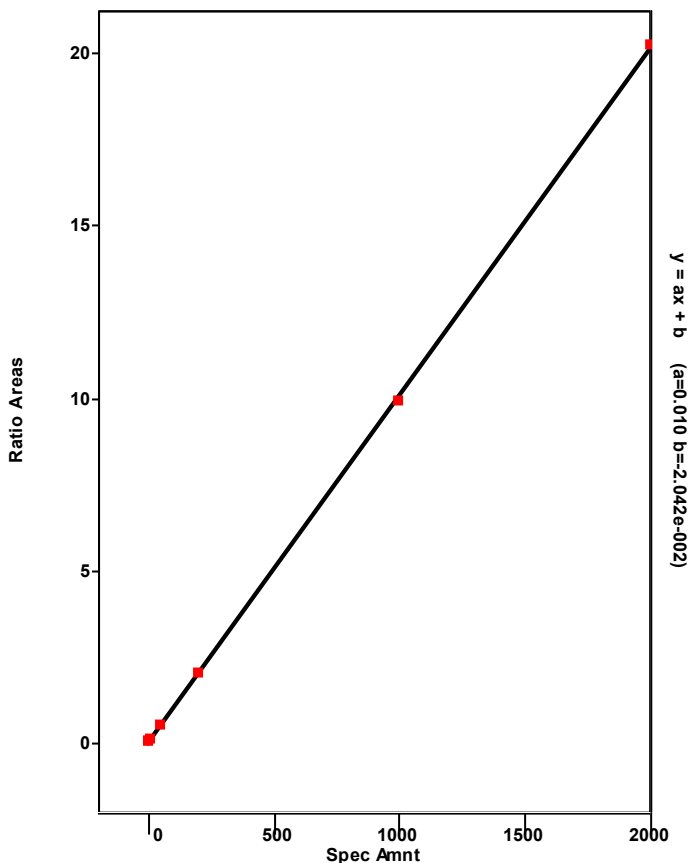


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	12559
RM1 Area	19598
RM1 Ratio (A)	1.5605
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

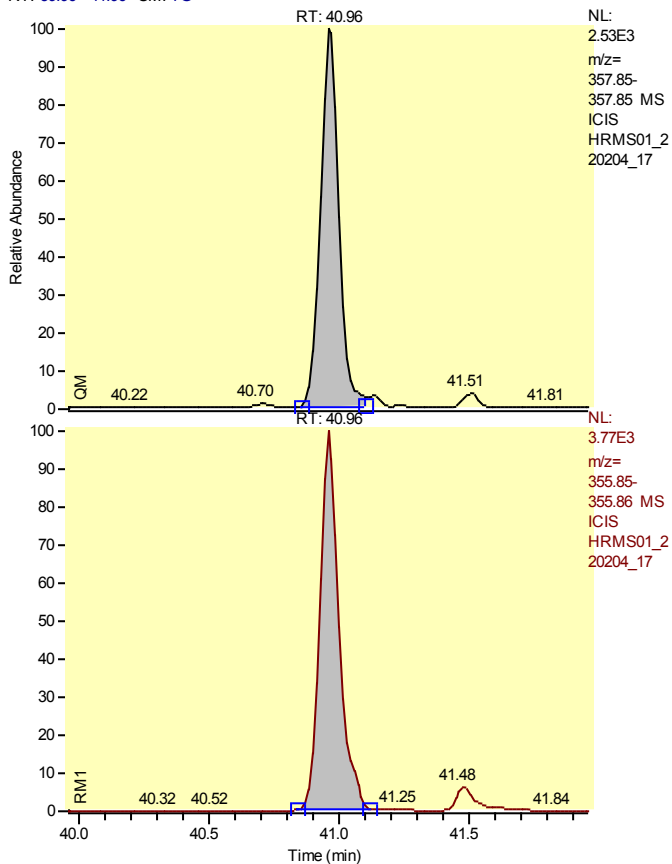
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G

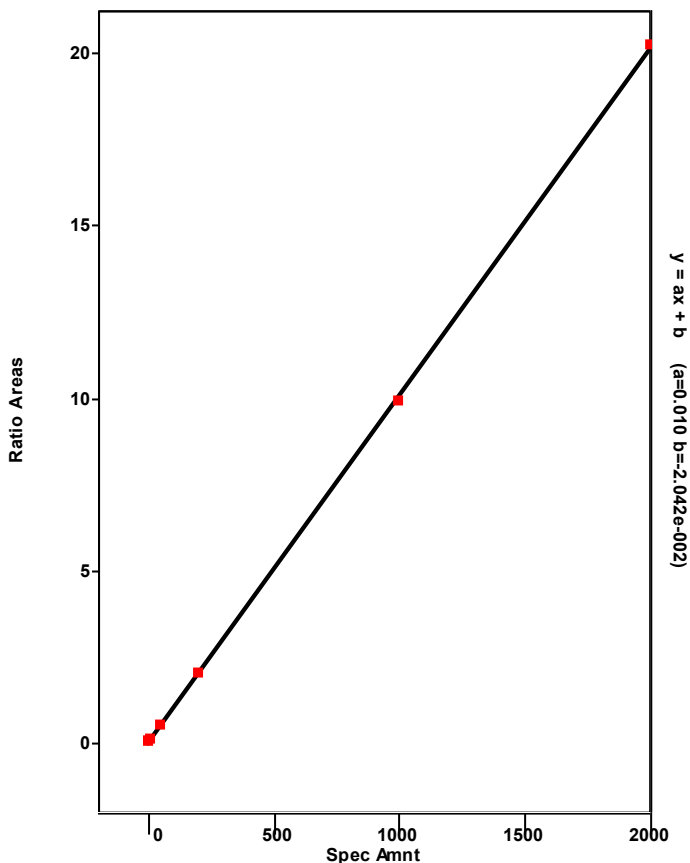


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	12559
RM1 Area	19598
RM1 Ratio (A)	1.5605
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

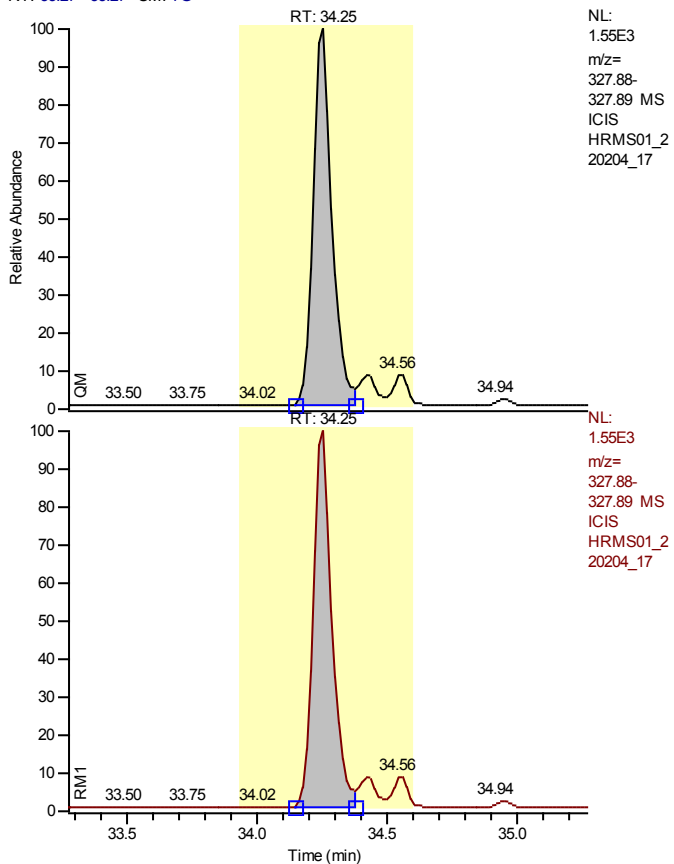
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.27 - 35.27 SM: 7G

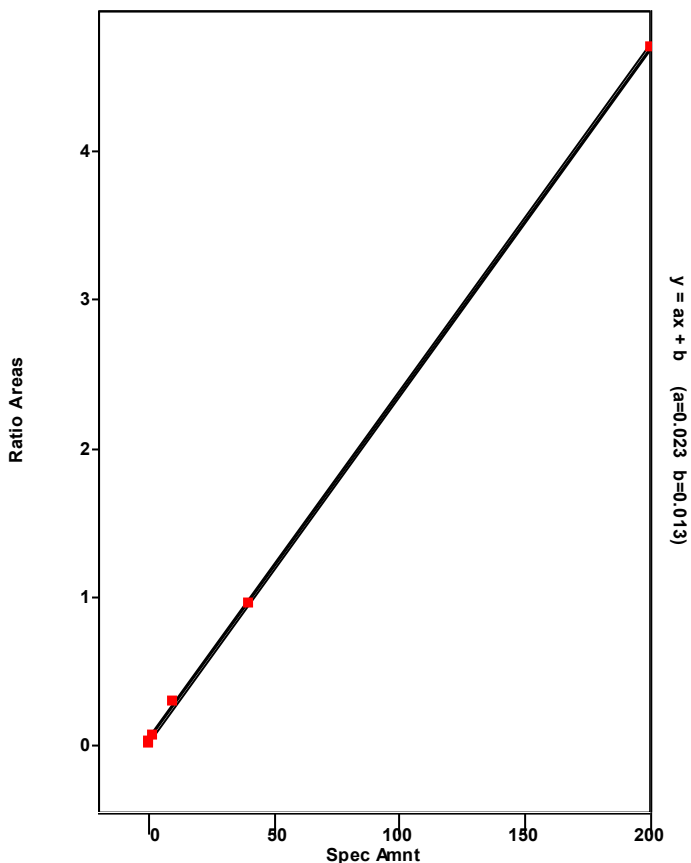


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	7552
RM1 Area	7552
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	0.25
Calculated Amount (A)	0.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

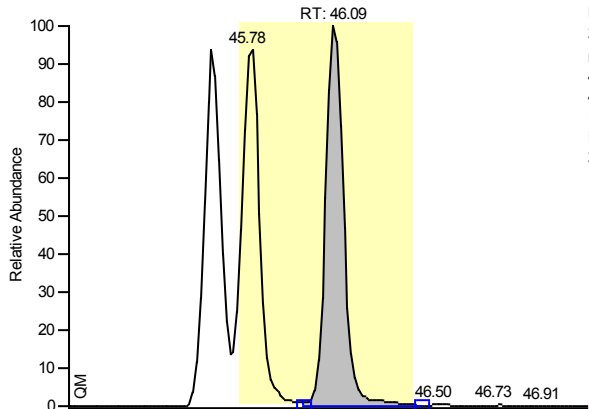
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

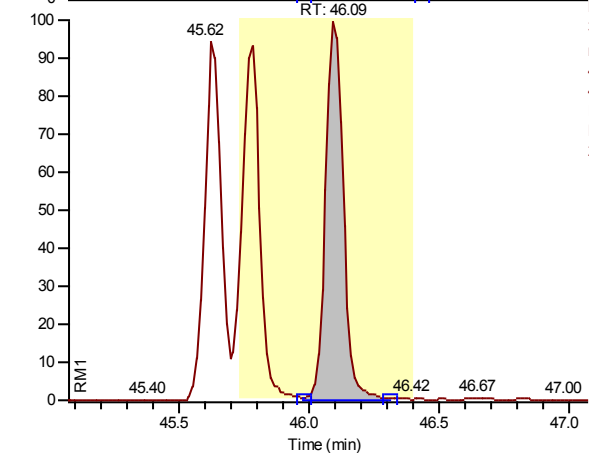
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 2.67E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1301883
RM1 Area	1655926
RM1 Ratio (A)	1.2719
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

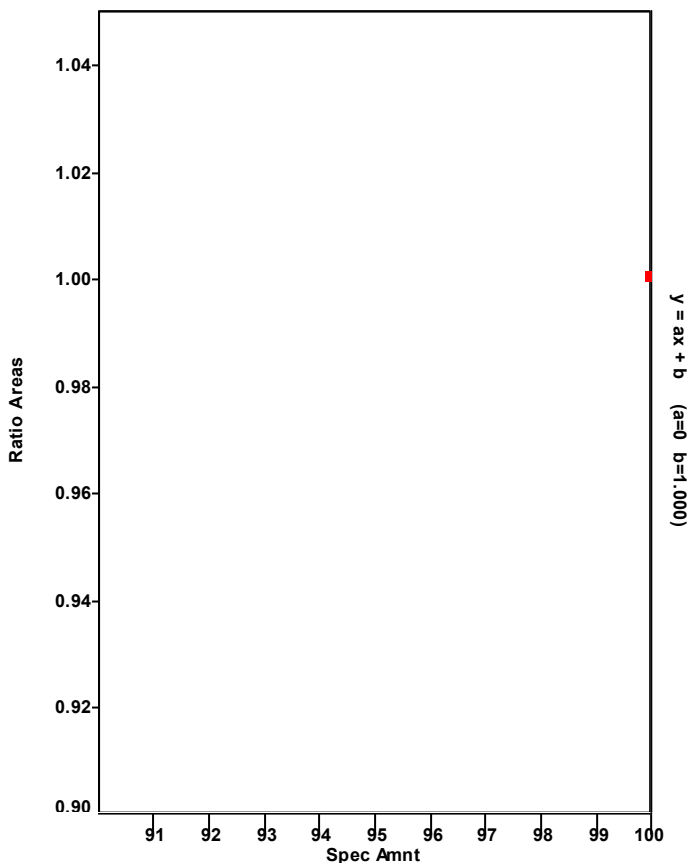


NL:
 3.50E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

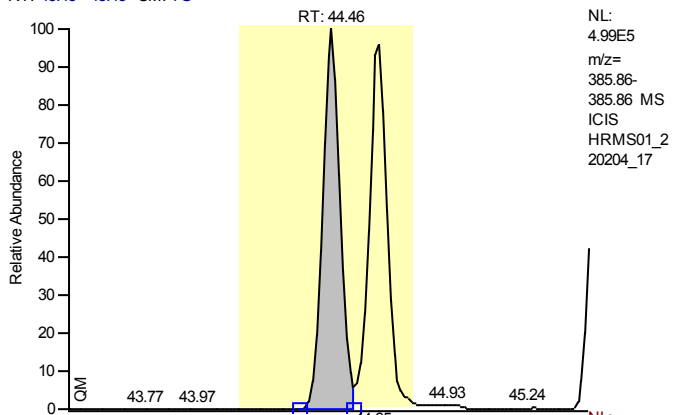
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



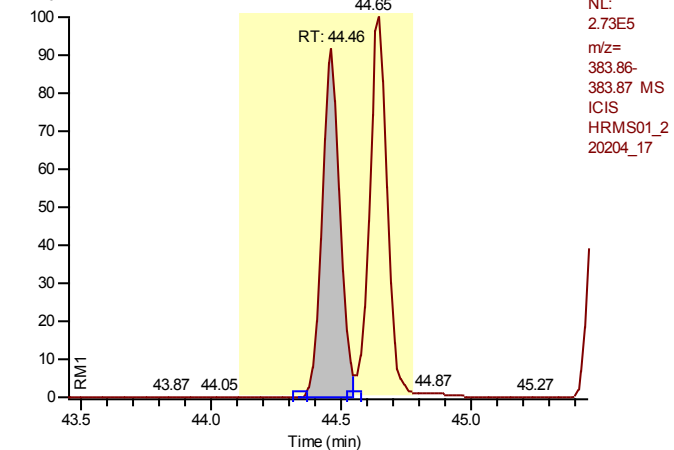
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G



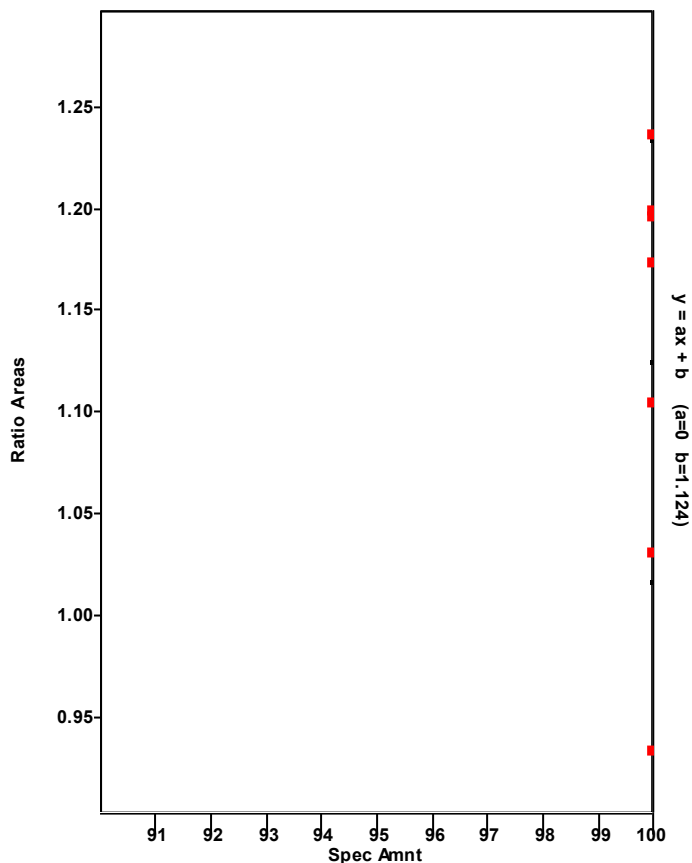
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2334052
RM1 Area	1199414
RM1 Ratio (A)	0.5139
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

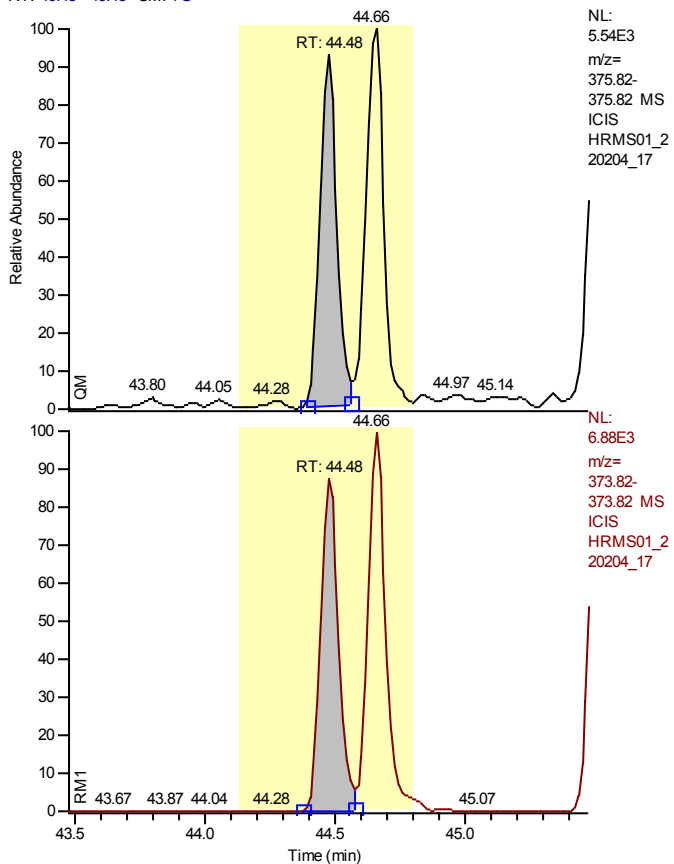
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.48 - 45.48 SM: 7G

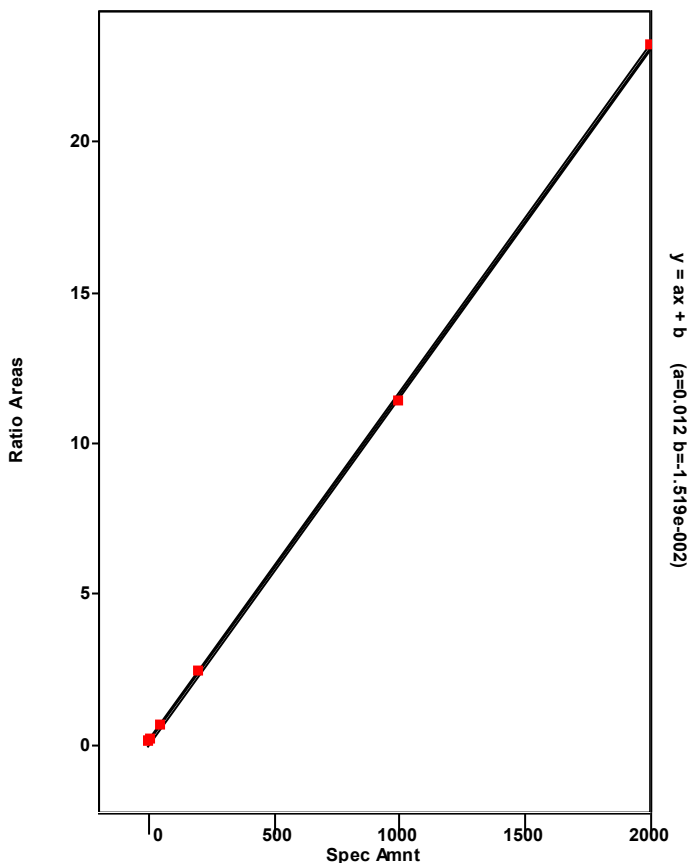


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	22867
RM1 Area	28670
RM1 Ratio (A)	1.2538
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

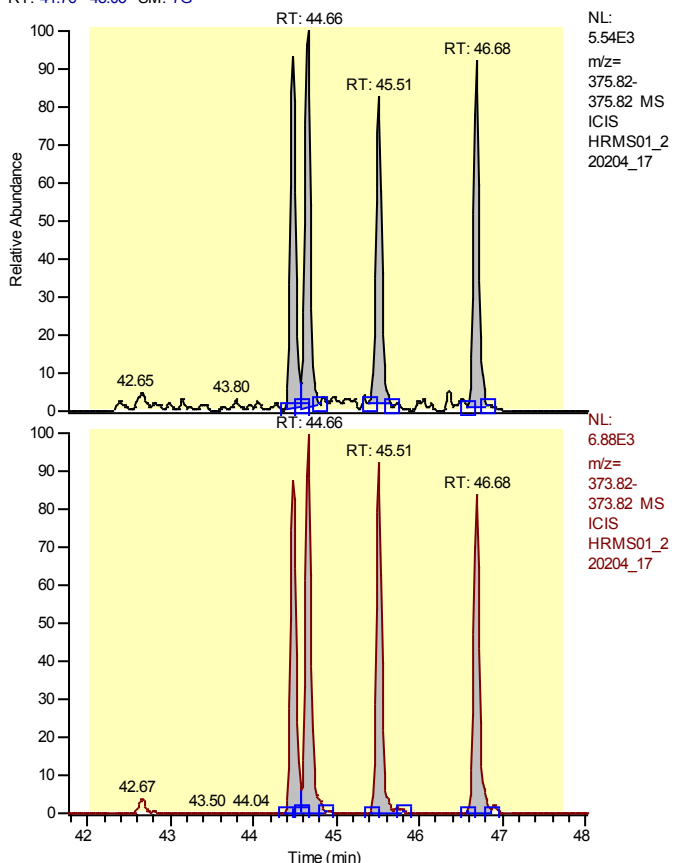
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.76 - 48.03 SM: 7G

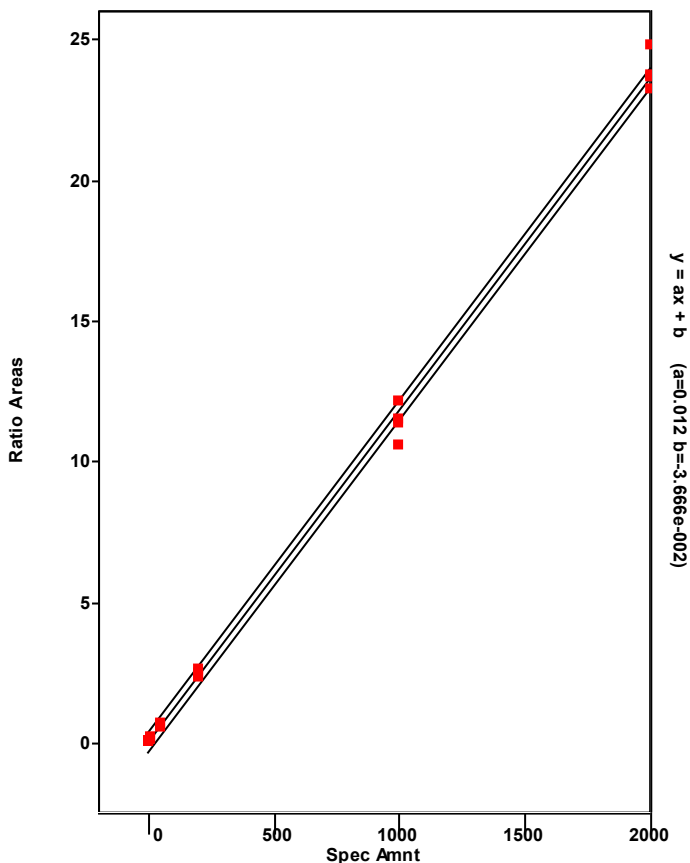


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	93881
RM1 Area	119871
RM1 Ratio (A)	1.2768
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	5.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

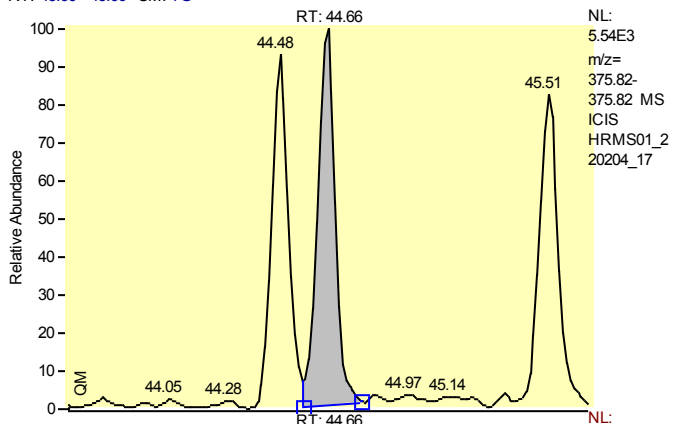
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



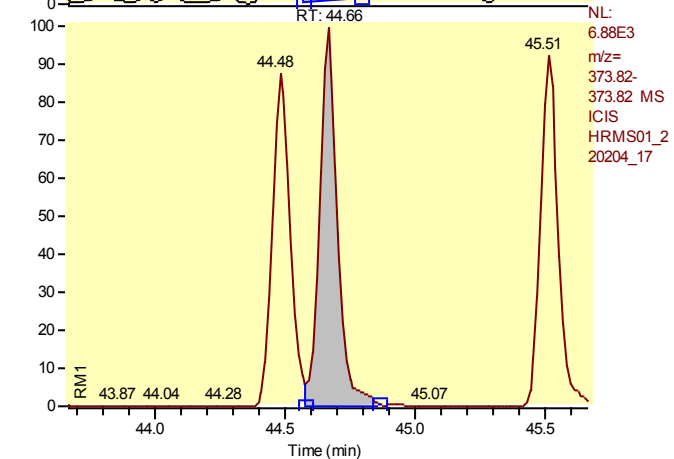
Chromatogram

Entry Parameters

RT: 43.66 - 45.66 SM: 7G



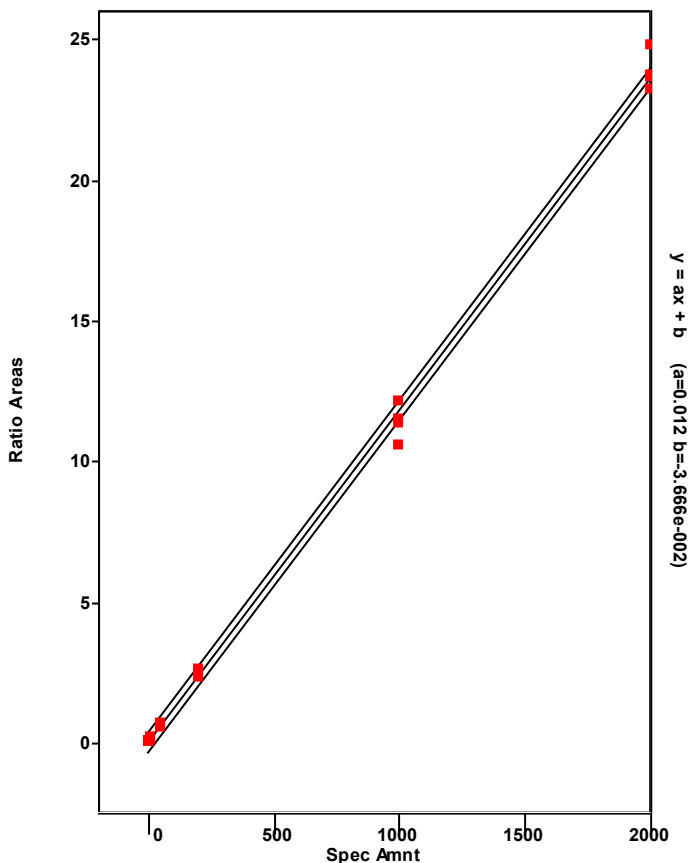
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	25837
RM1 Area	32239
RM1 Ratio (A)	1.2478
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

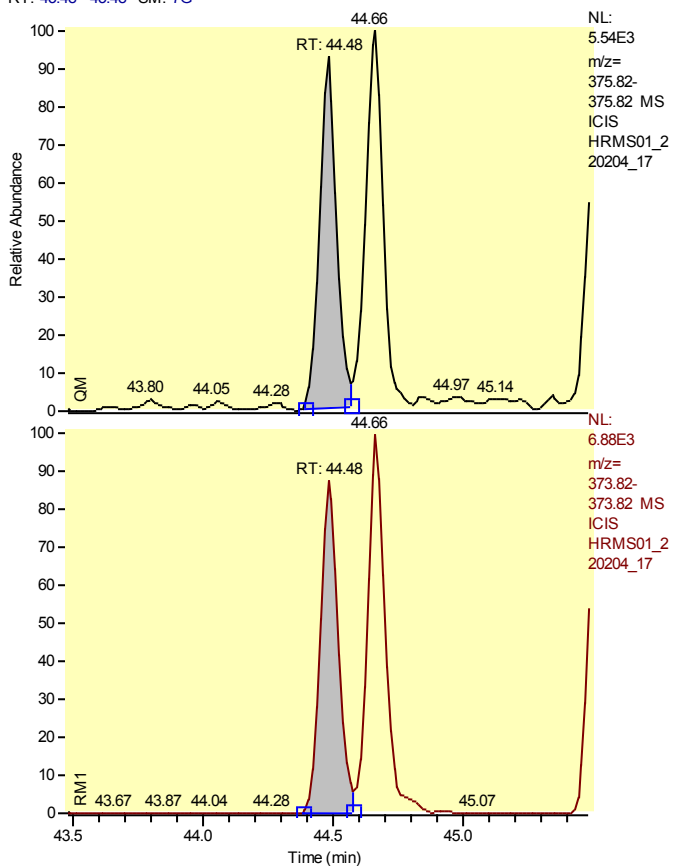
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.48 - 45.48 SM: 7G

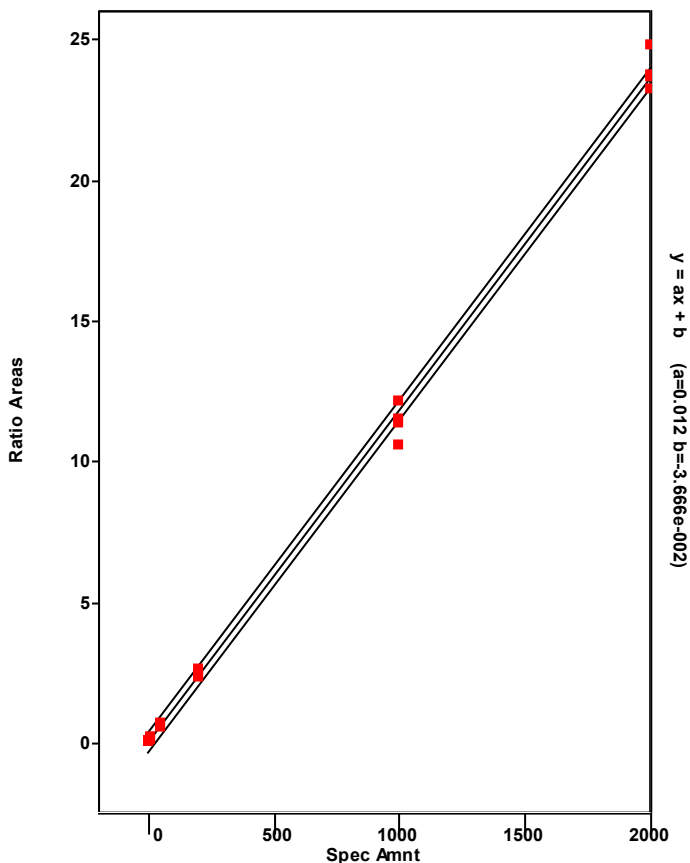


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	22867
RM1 Area	28670
RM1 Ratio (A)	1.2538
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

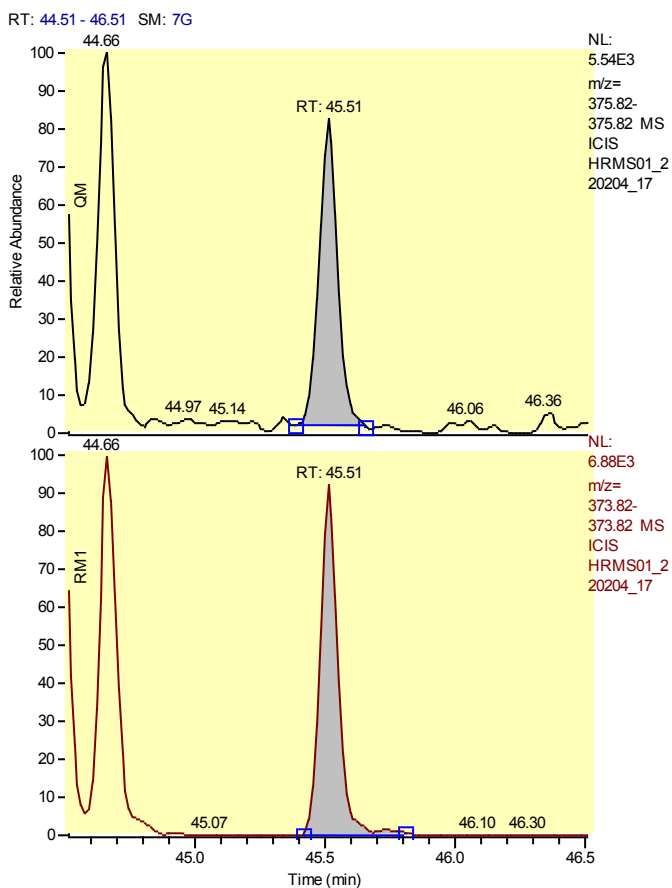
Calibration Points of Total Hexachlorodibenzofuran__2

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

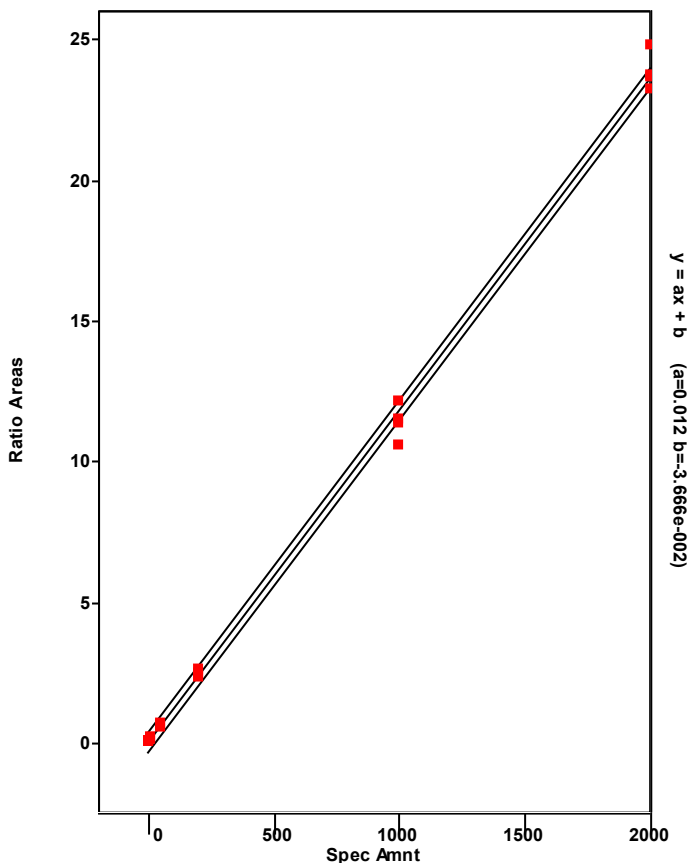


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	22450
RM1 Area	30123
RM1 Ratio (A)	1.3418
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

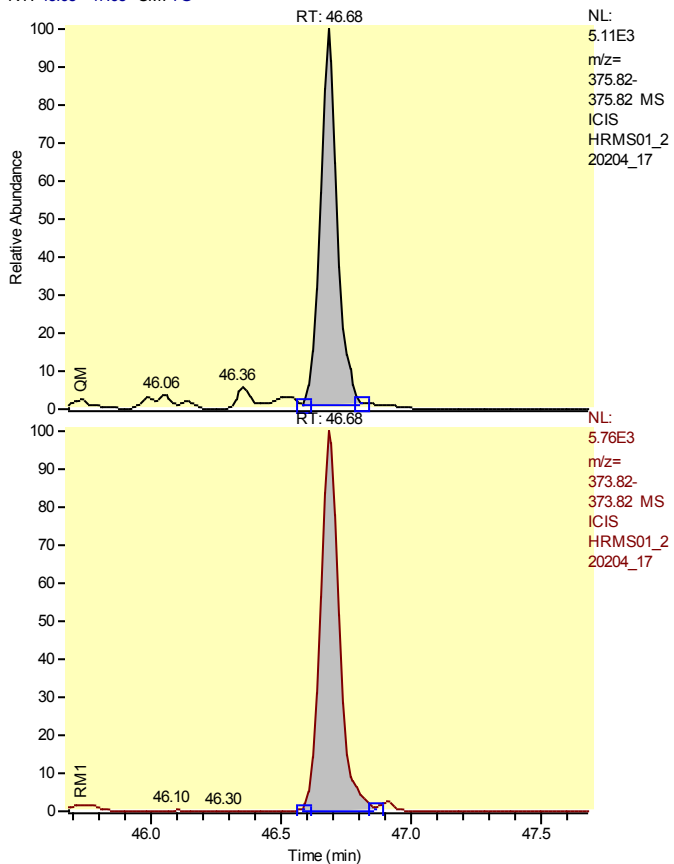
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G

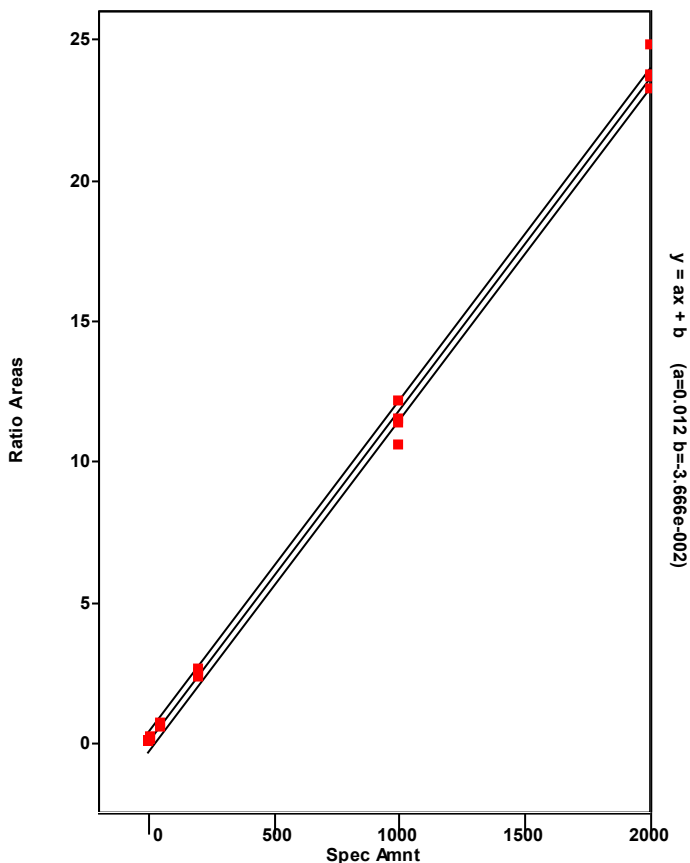


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	22728
RM1 Area	28839
RM1 Ratio (A)	1.2689
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

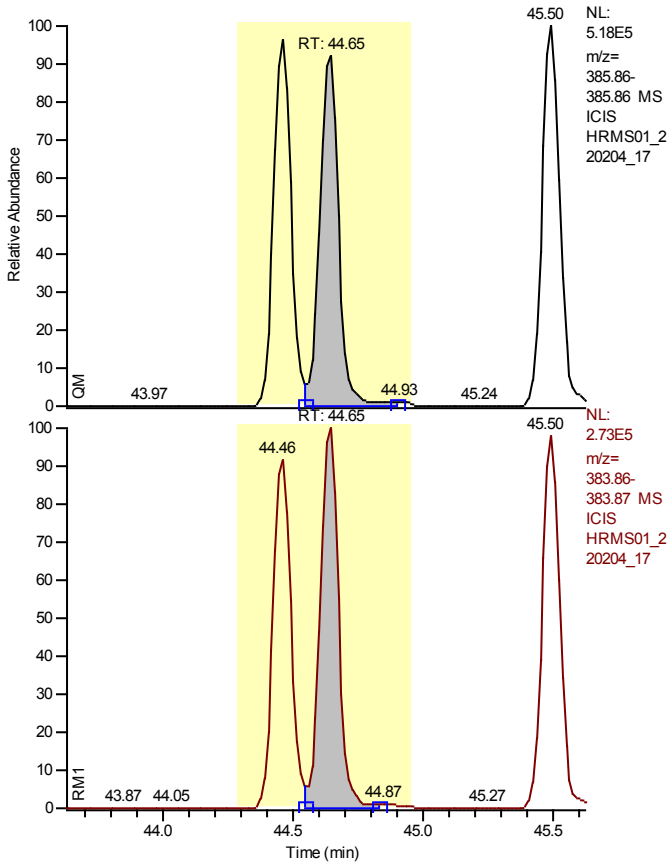
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

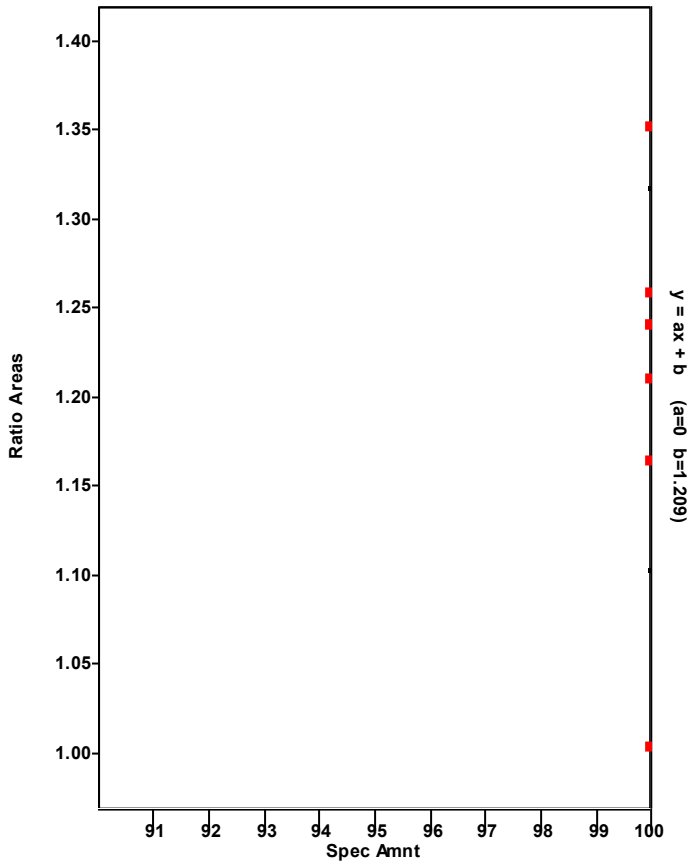


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	2358968
RM1 Area	1306552
RM1 Ratio (A)	0.5539
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

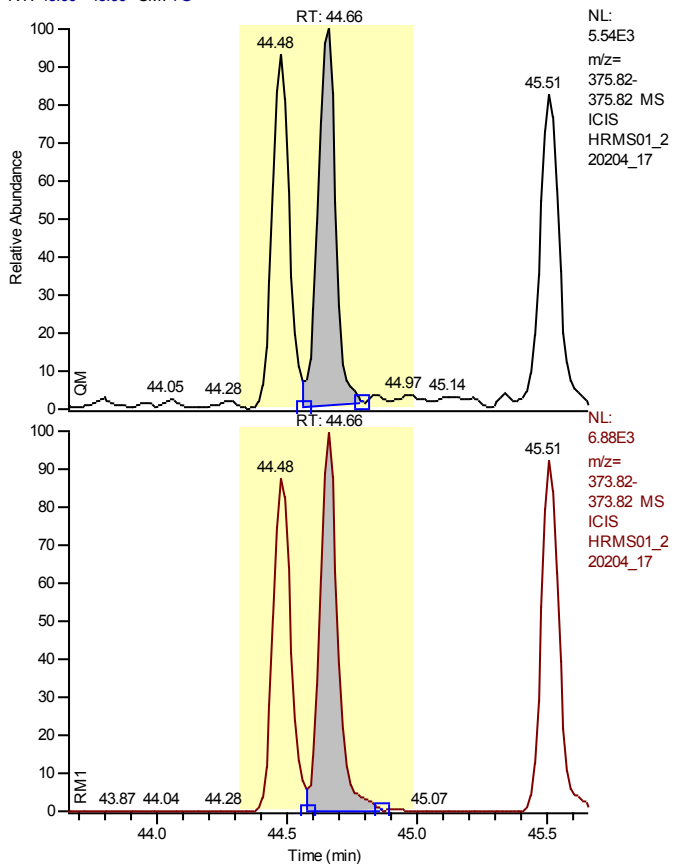
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.66 - 45.66 SM: 7G

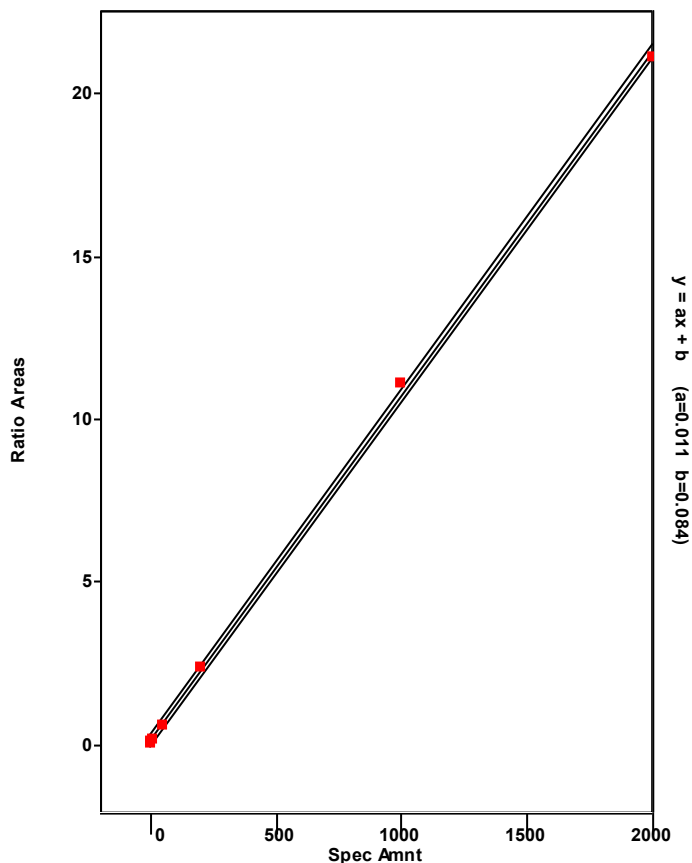


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	25837
RM1 Area	32239
RM1 Ratio (A)	1.2478
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

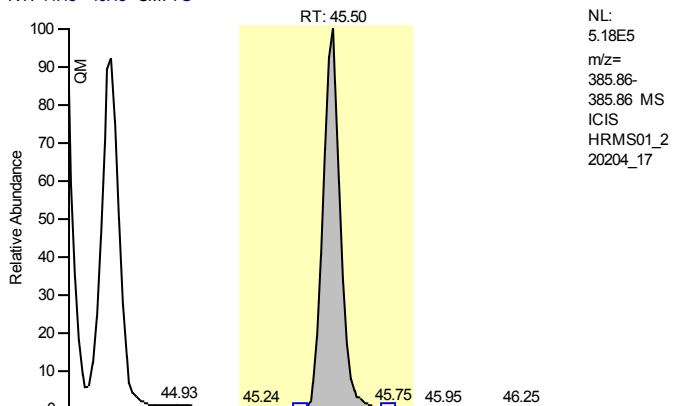
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

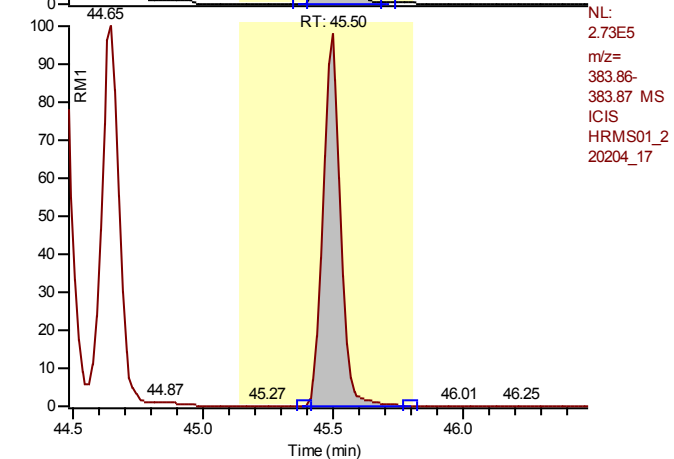
Entry Parameters

RT: 44.48 - 46.48 SM: 7G



NL:
 5.18E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2429337
RM1 Area	1264758
RM1 Ratio (A)	0.5206
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

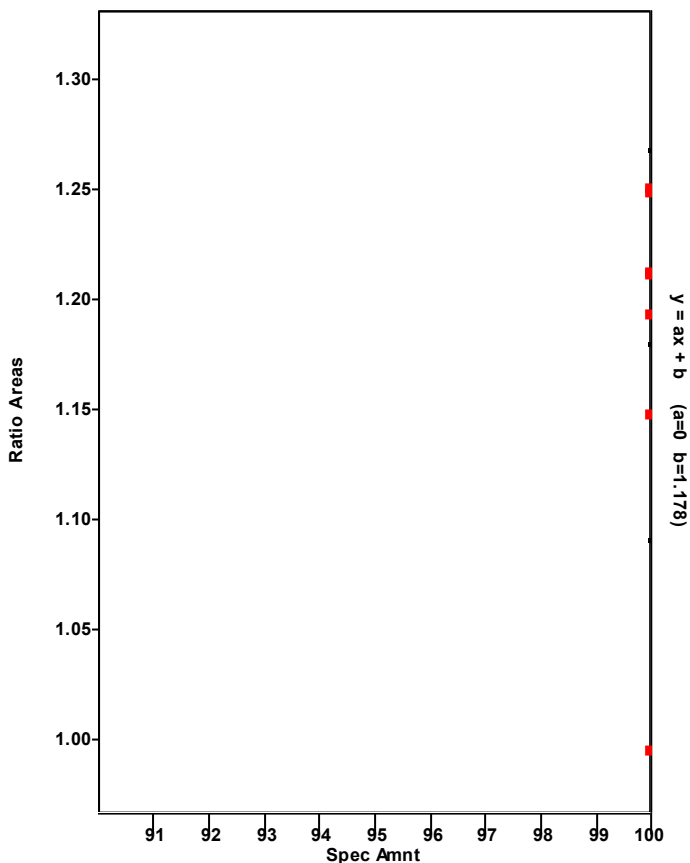


NL:
 2.73E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

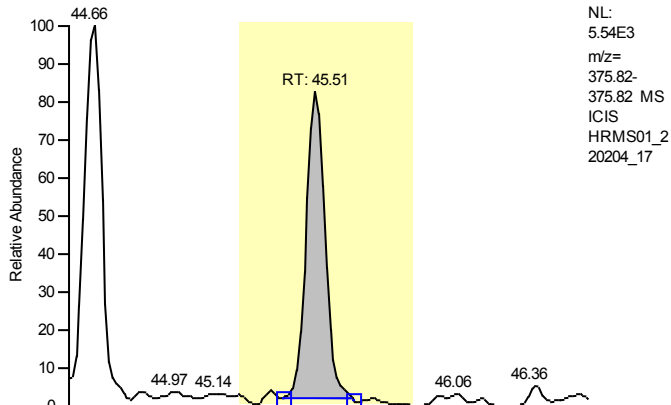
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

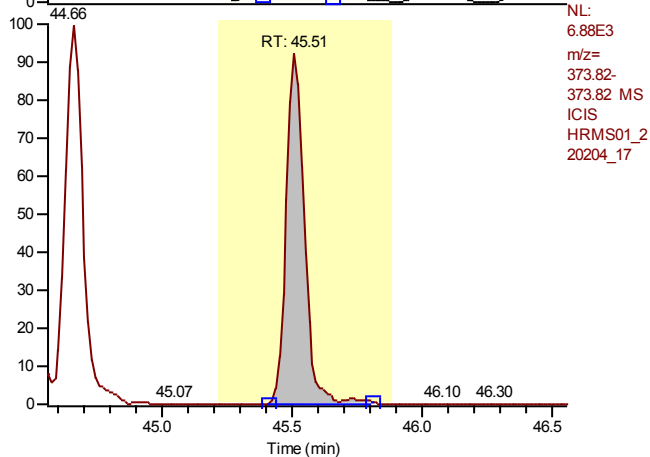
Entry Parameters

RT: 44.56 - 46.56 SM: 7G



NL:
 5.54E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	22450
RM1 Area	30123
RM1 Ratio (A)	1.3418
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

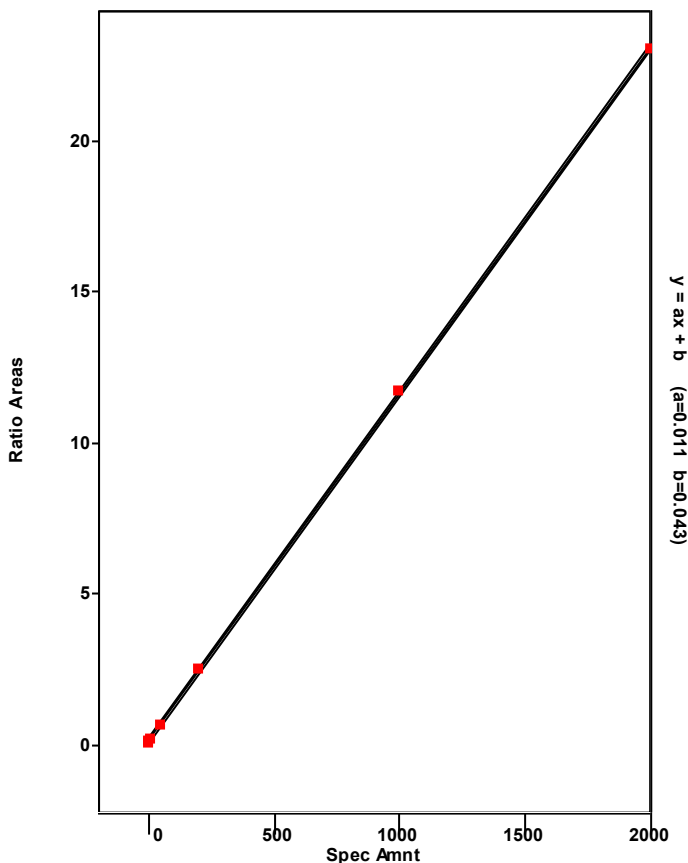


NL:
 6.88E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

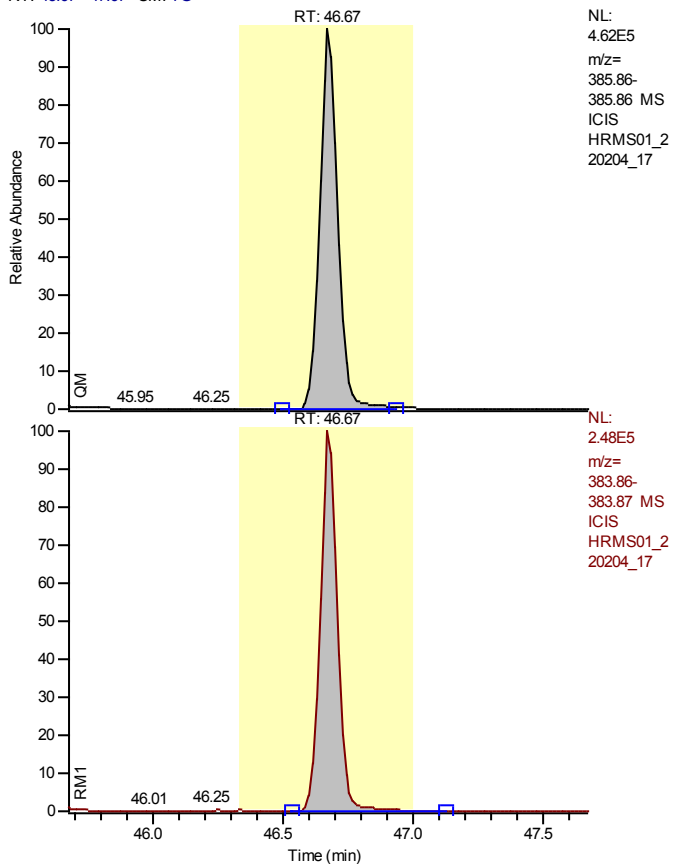
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

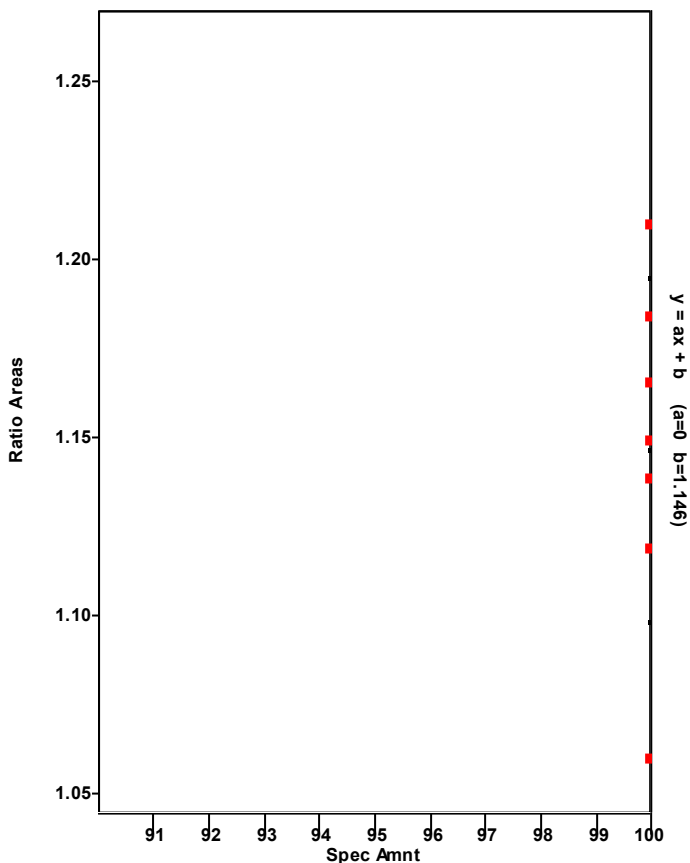


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	2246931
RM1 Area	1150016
RM1 Ratio (A)	0.5118
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

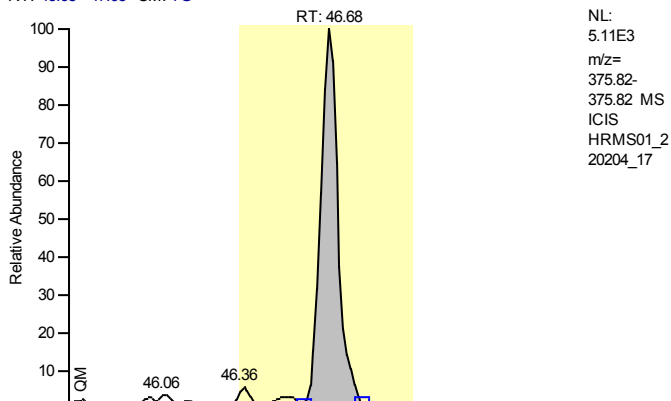
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

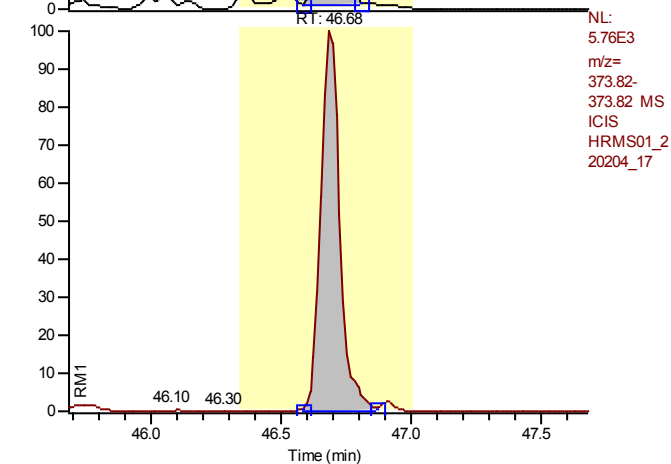
Entry Parameters

RT: 45.68 - 47.68 SM: 7G



NL:
 5.11E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	22728
RM1 Area	28839
RM1 Ratio (A)	1.2689
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

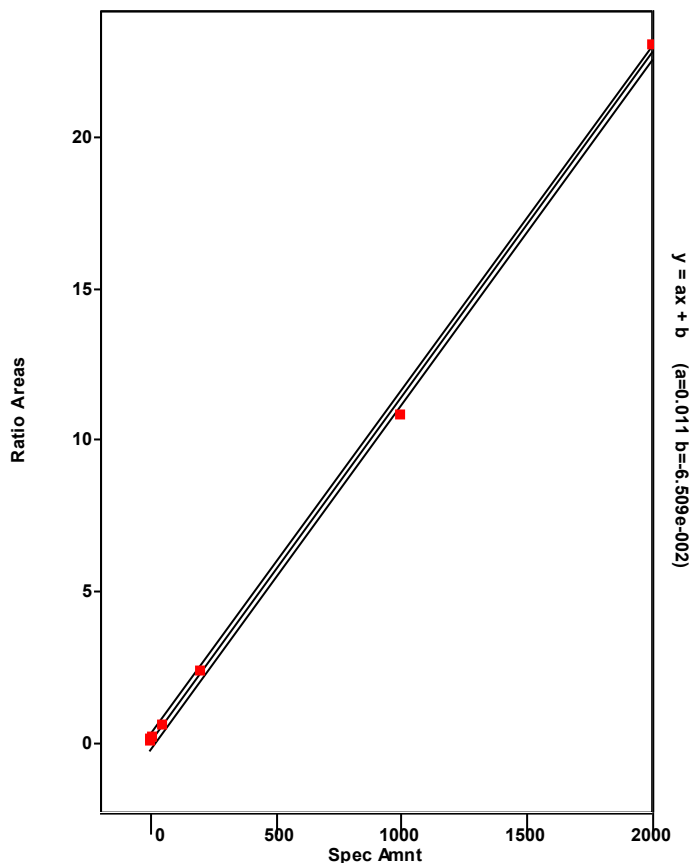


NL:
 5.76E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

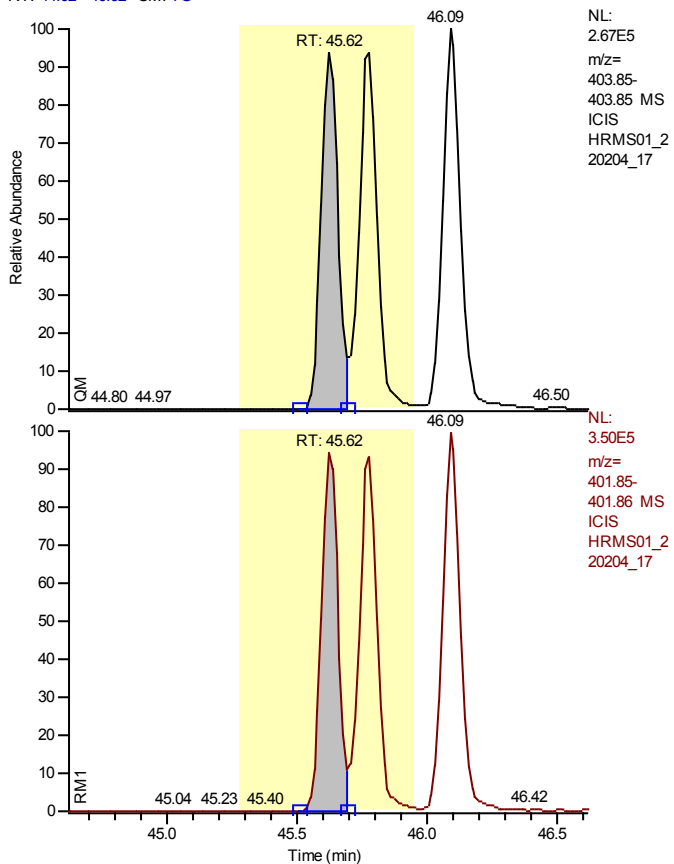
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G



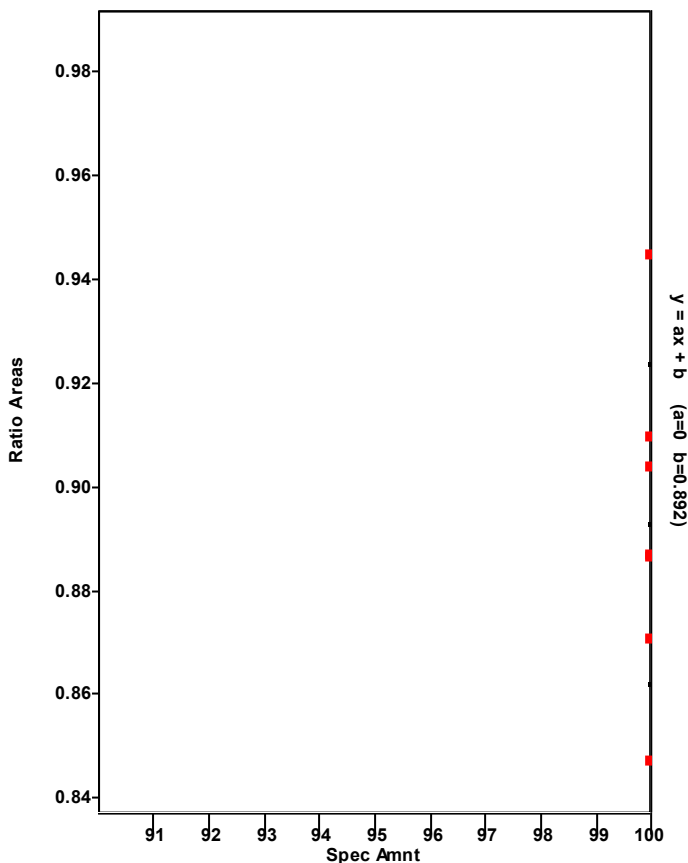
NL:
 2.67E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1118584
RM1 Area	1455727
RM1 Ratio (A)	1.3014
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 3.50E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_17

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

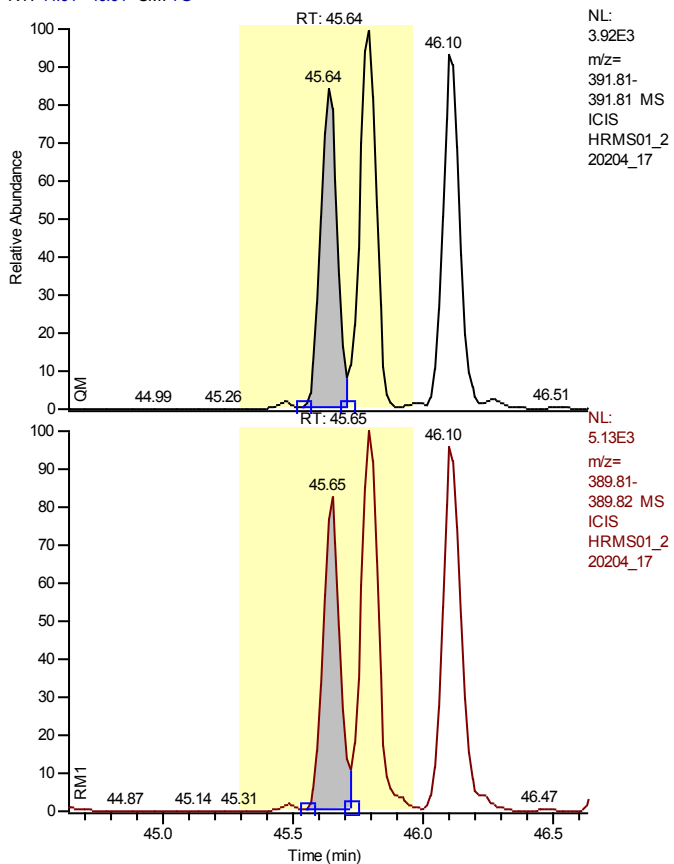
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.64 - 46.64 SM: 7G

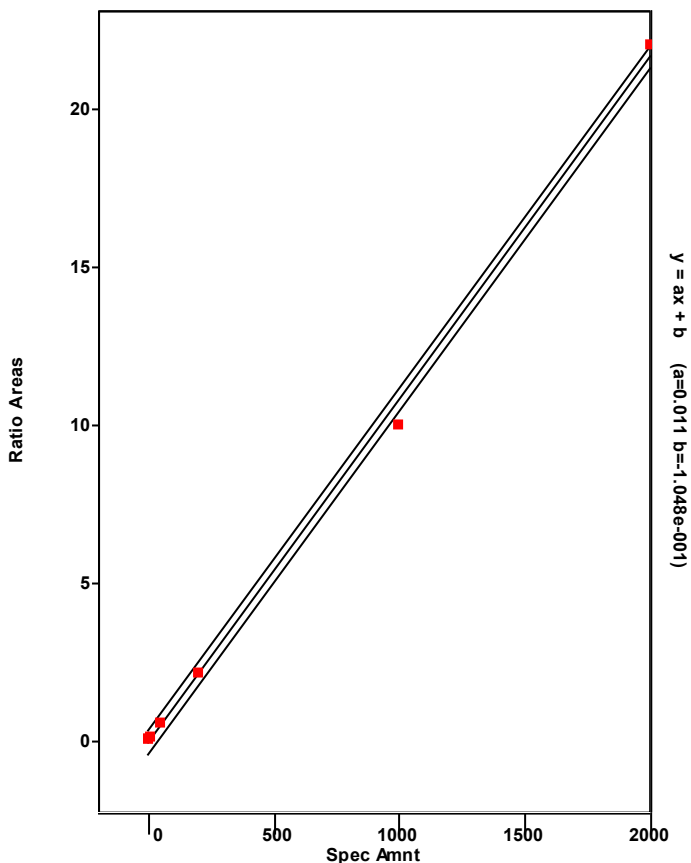


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	14606
RM1 Area	18674
RM1 Ratio (A)	1.2785
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

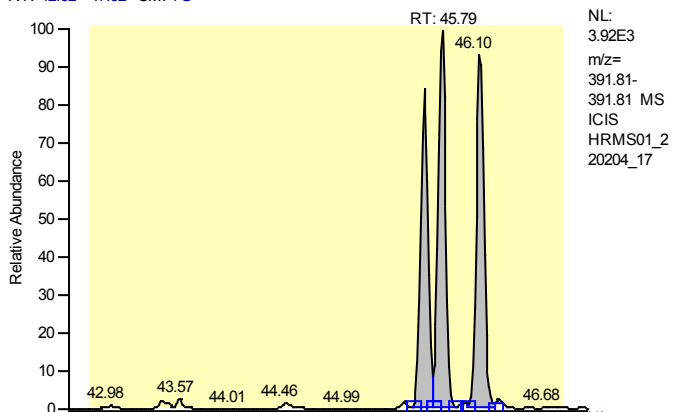
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



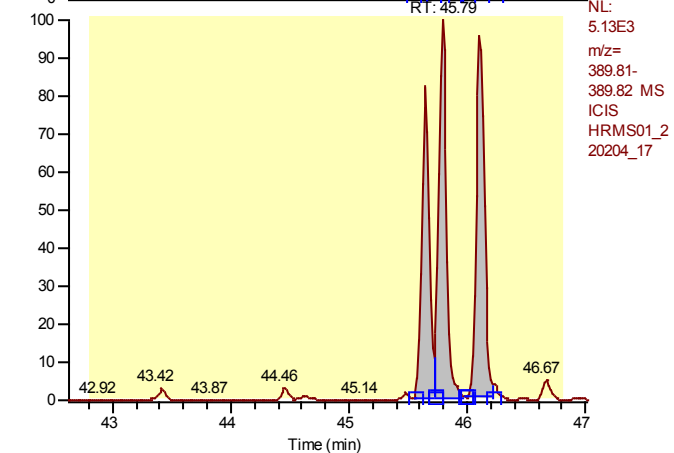
Chromatogram

Entry Parameters

RT: 42.62 - 47.02 SM: 7G



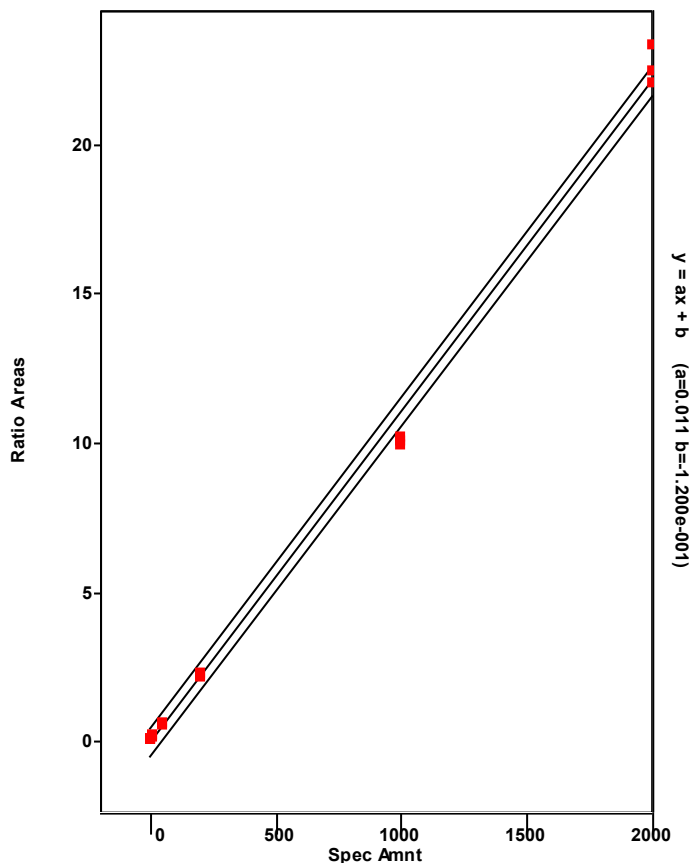
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	48312
RM1 Area	65632
RM1 Ratio (A)	1.3585
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	3.74
Percent Recovery (A)	299
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

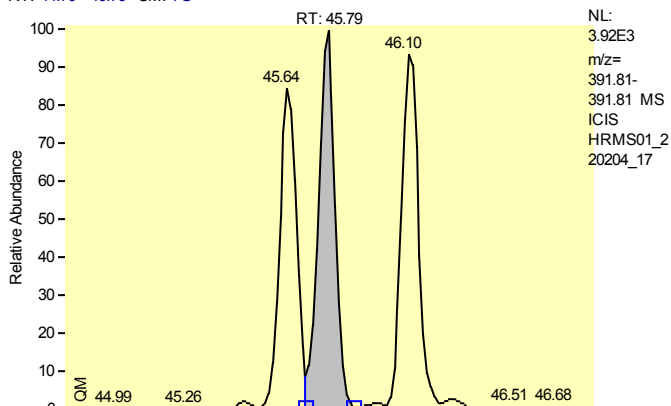
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



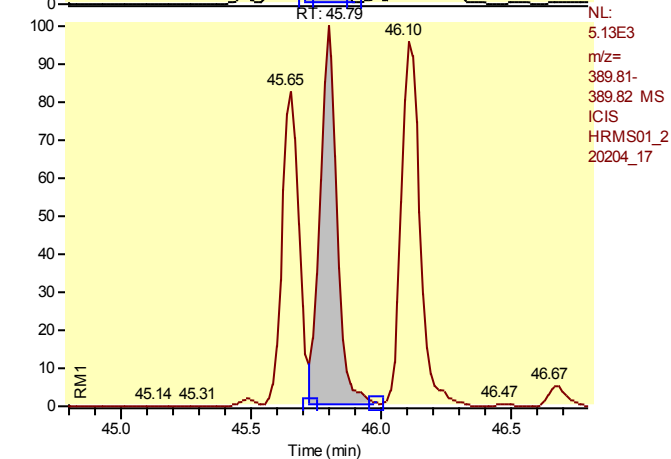
Chromatogram

Entry Parameters

RT: 44.79 - 46.79 SM: 7G



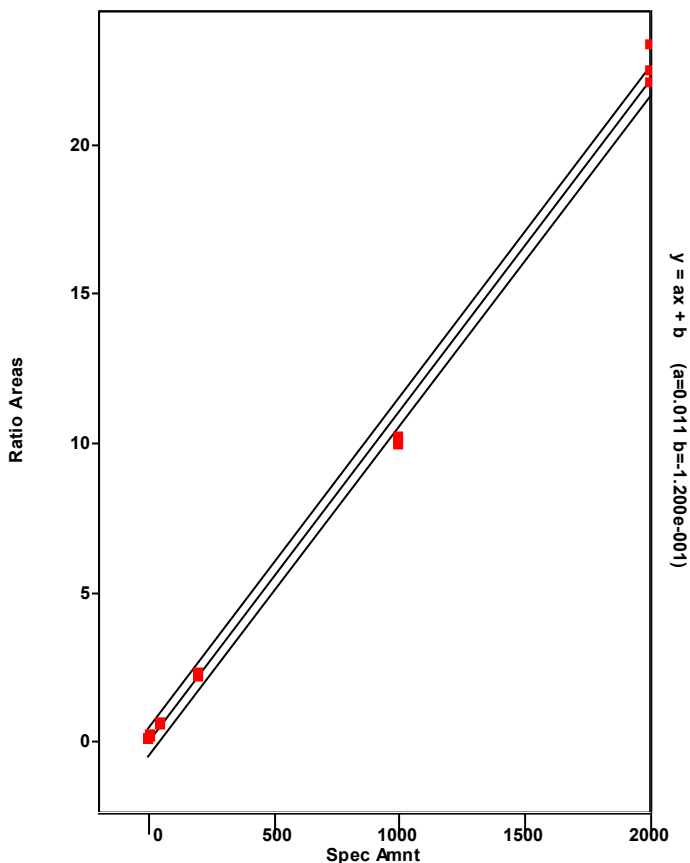
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	17111
RM1 Area	23266
RM1 Ratio (A)	1.3597
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

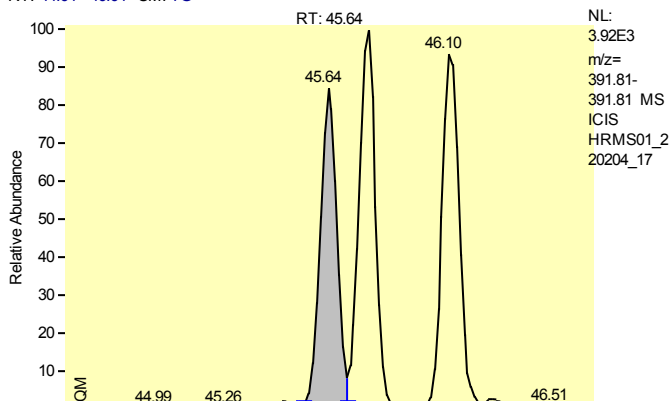
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



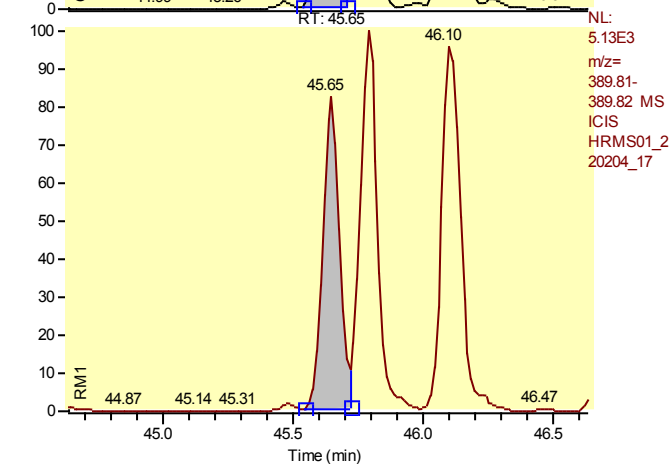
Chromatogram

Entry Parameters

RT: 44.64 - 46.64 SM: 7G



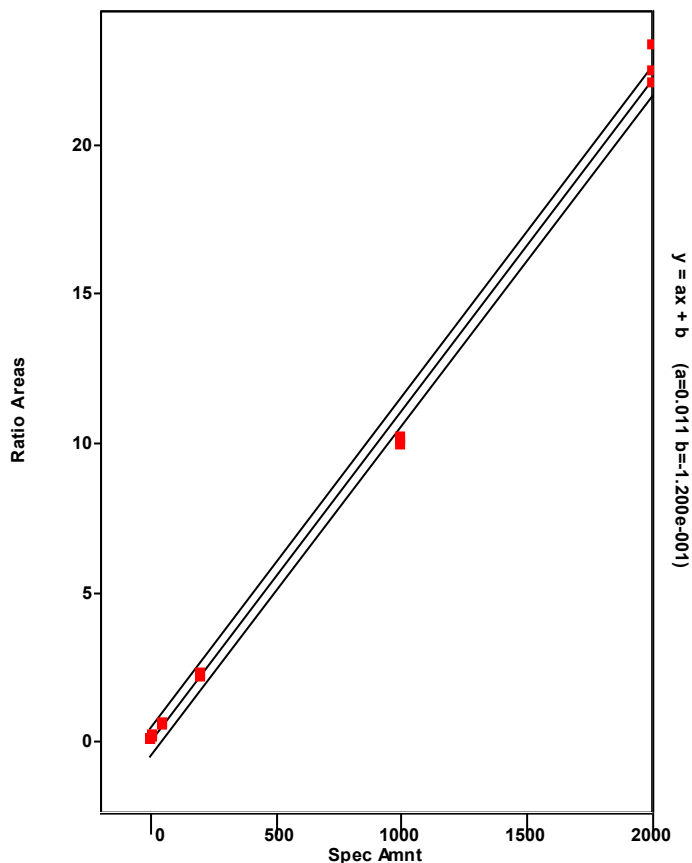
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	14606
RM1 Area	18674
RM1 Ratio (A)	1.2785
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

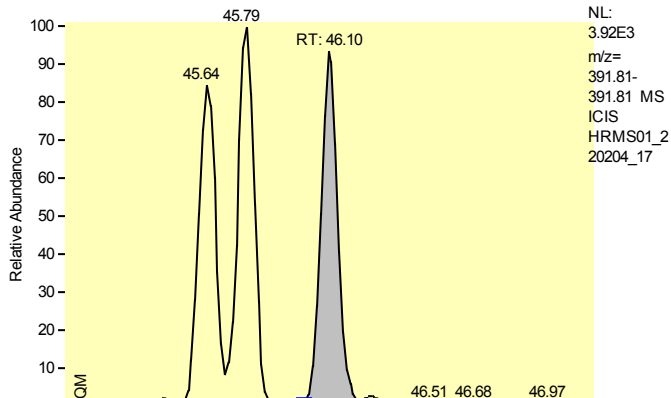
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

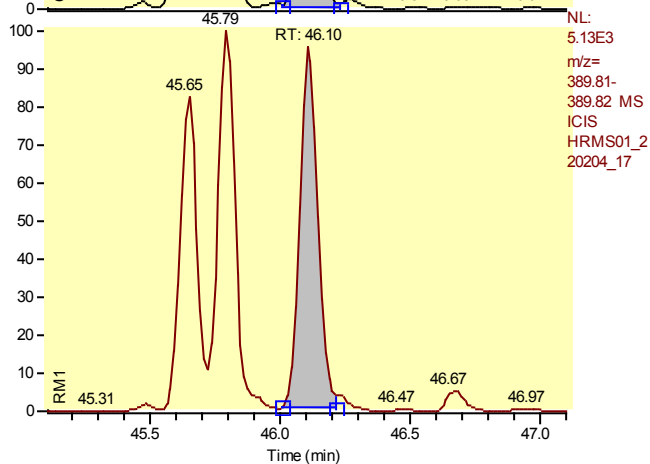
Entry Parameters

RT: 45.10 - 47.10 SM: 7G



NL:
3.92E3
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	16596
RM1 Area	23693
RM1 Ratio (A)	1.4276
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.24
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

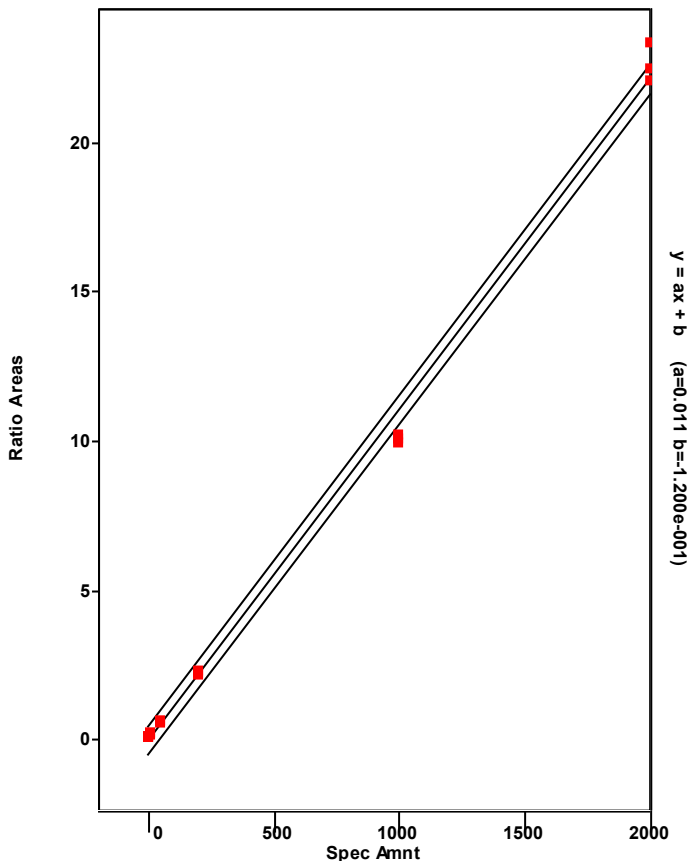


NL:
5.13E3
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_17

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

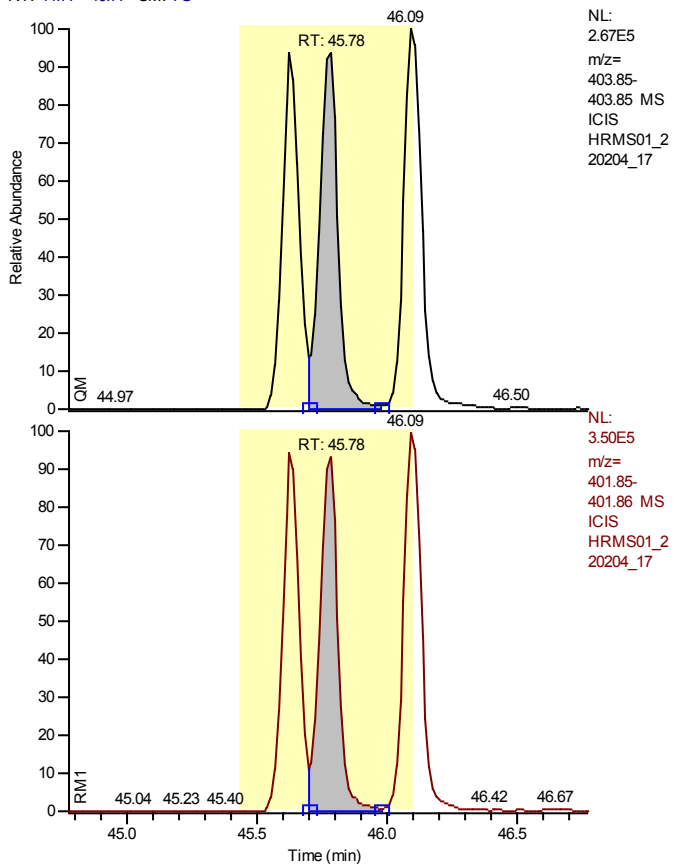
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.77 - 46.77 SM: 7G



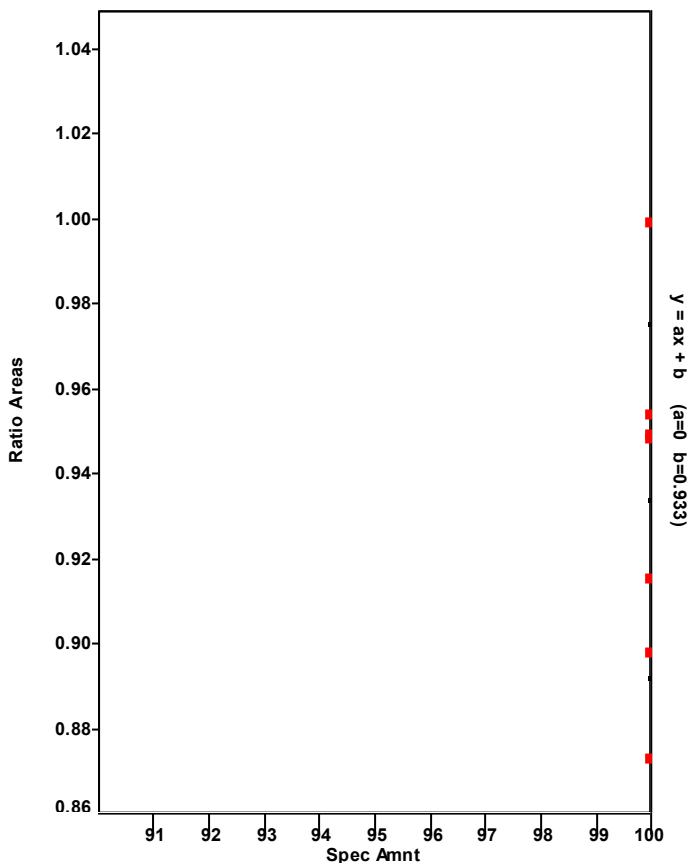
NL:
 2.67E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_17

NL:
 3.50E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1233889
RM1 Area	1571462
RM1 Ratio (A)	1.2736
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

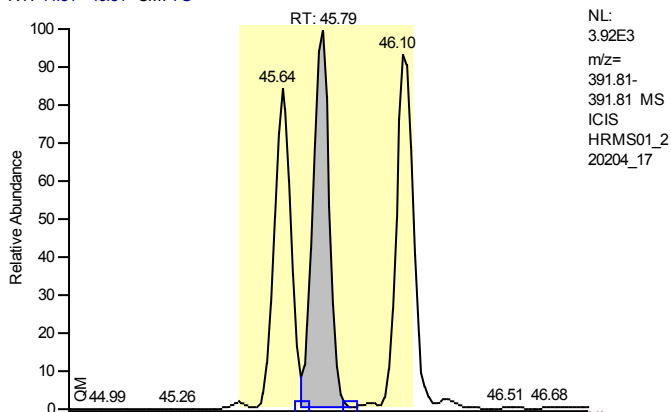
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



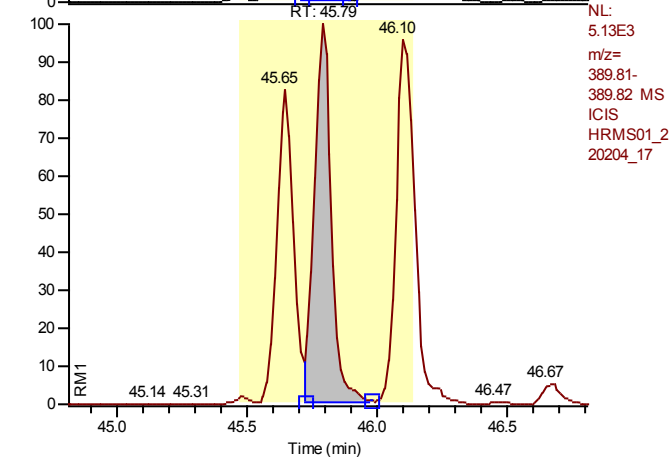
Chromatogram

Entry Parameters

RT: 44.81 - 46.81 SM: 7G



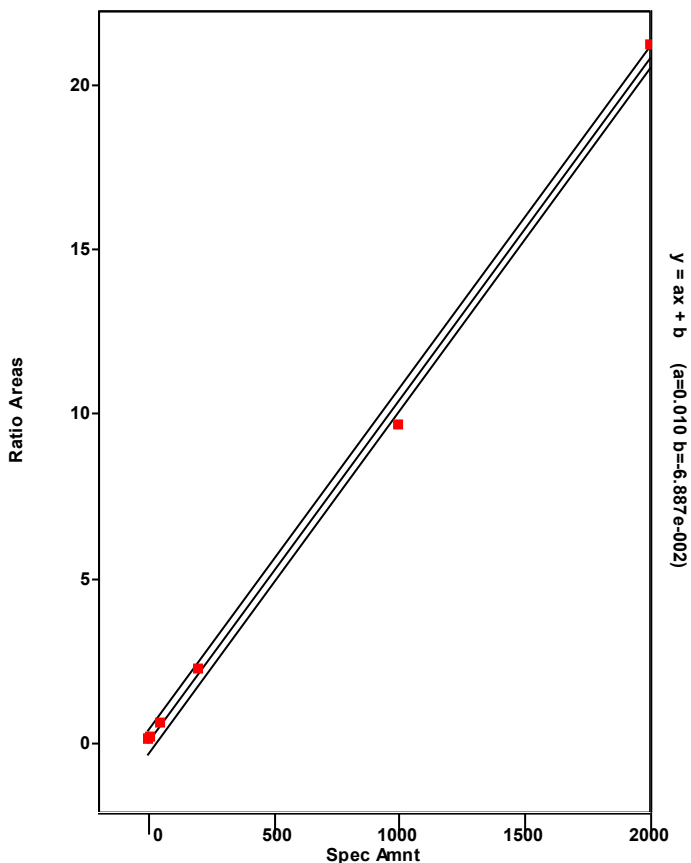
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	17111
RM1 Area	23266
RM1 Ratio (A)	1.3597
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.1250
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

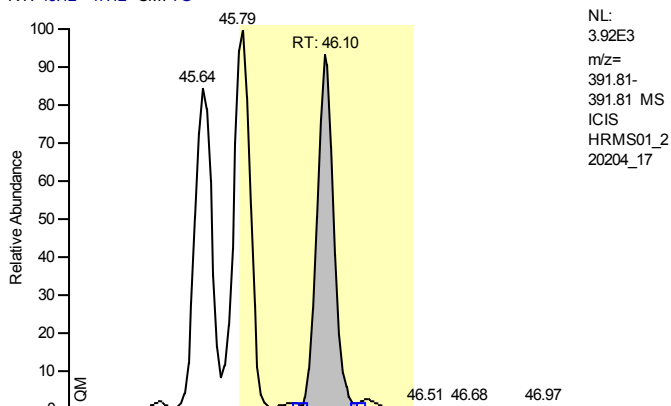
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

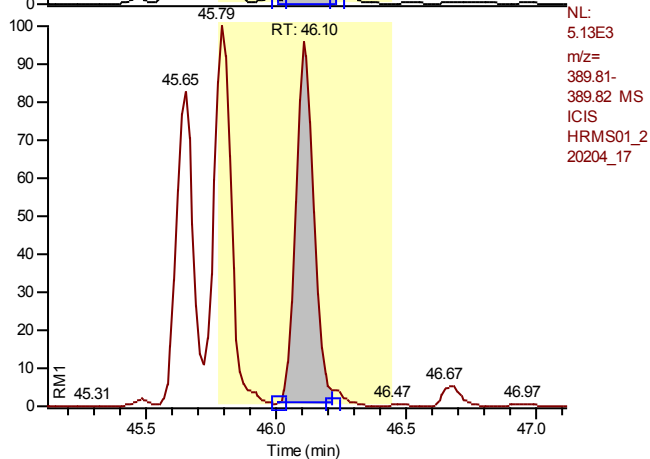
Entry Parameters

RT: 45.12 - 47.12 SM: 7G



NL:
 3.92E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	16611
RM1 Area	23625
RM1 Ratio (A)	1.4222
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1.25
Calculated Amount (A)	1.24
Percent Recovery (A)	99
TEQ (A)	0.1241
Label2	

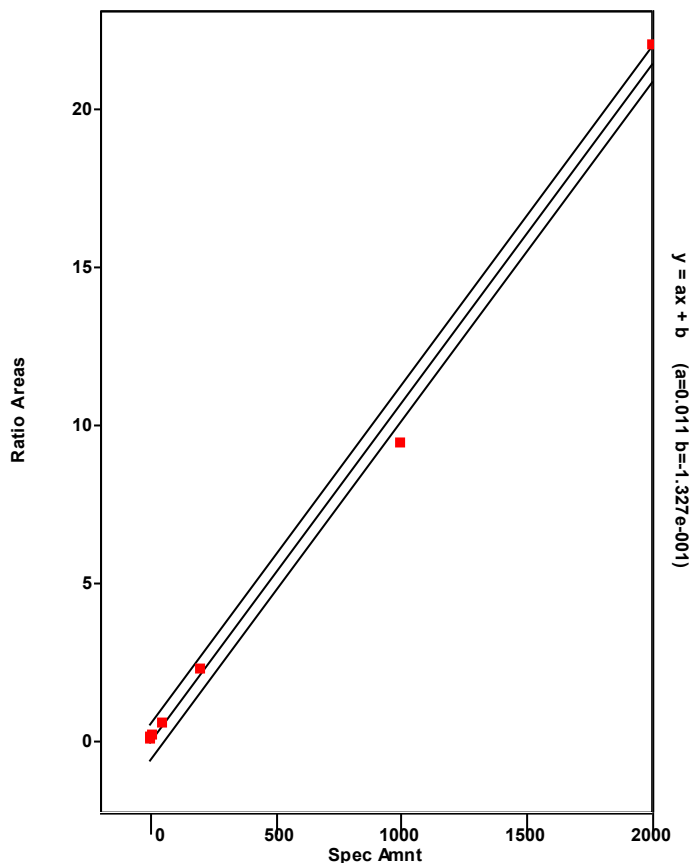


NL:
 5.13E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

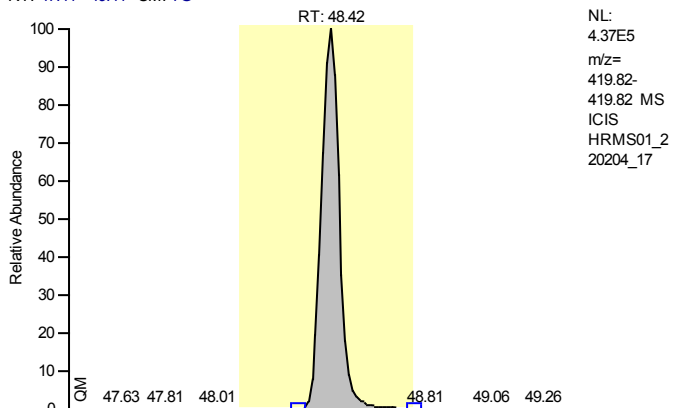
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



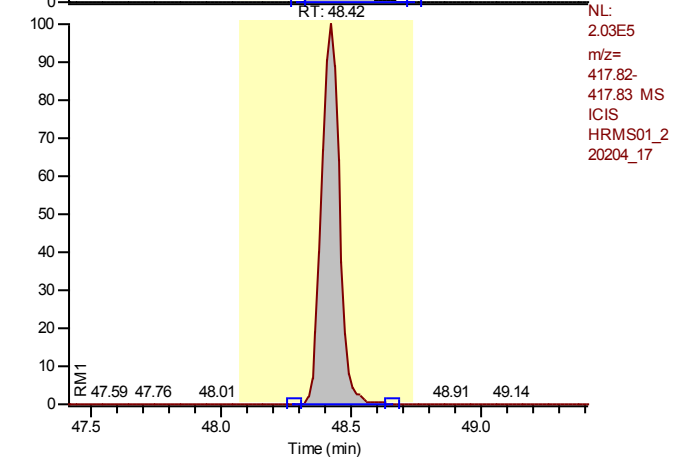
Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

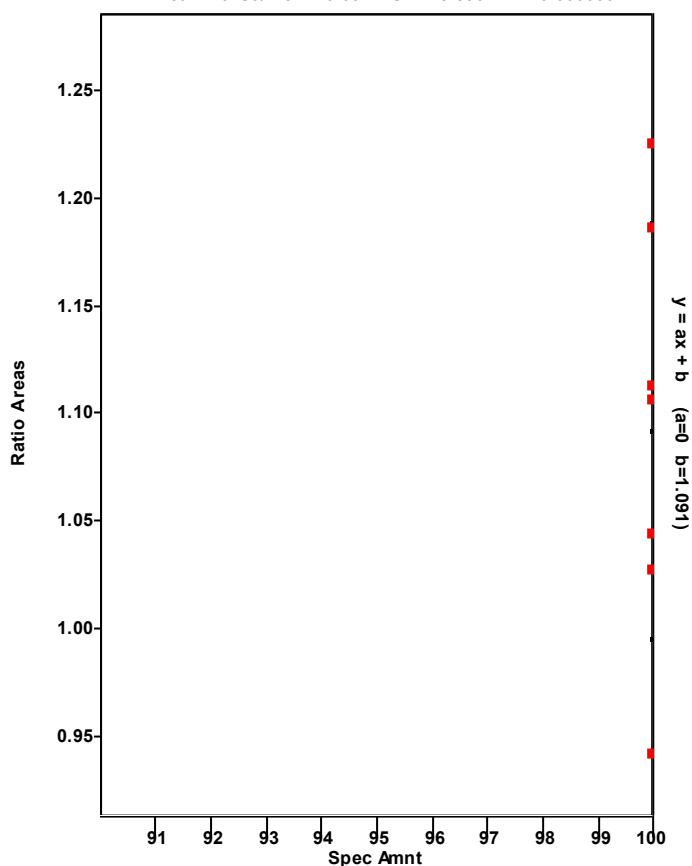


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2109812
RM1 Area	974535
RM1 Ratio (A)	0.4619
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

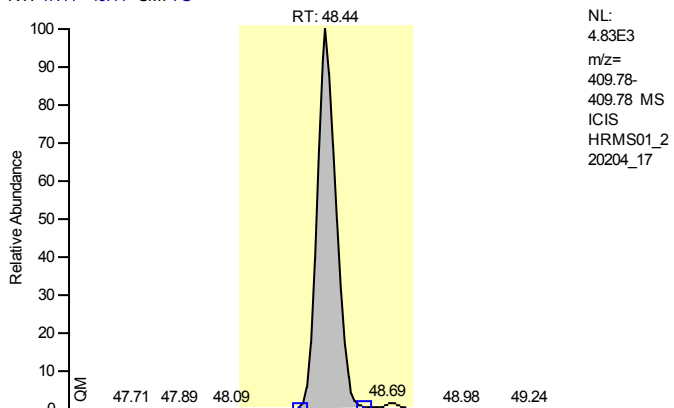
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

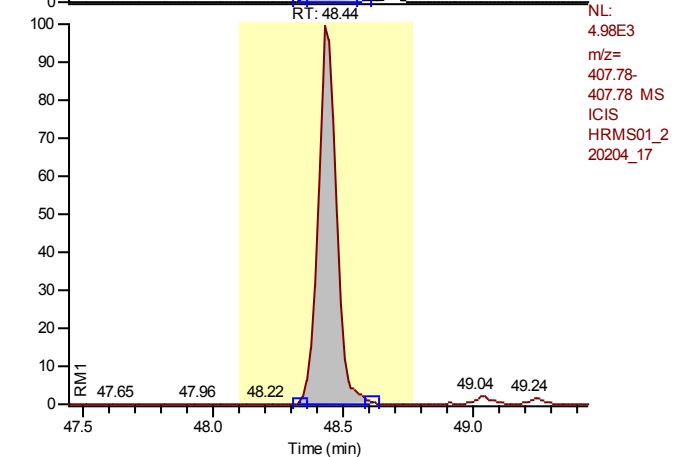
Entry Parameters

RT: 47.44 - 49.44 SM: 7G



NL:
 4.83E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20204_17

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	24549
RM1 Area	24263
RM1 Ratio (A)	0.9883
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	

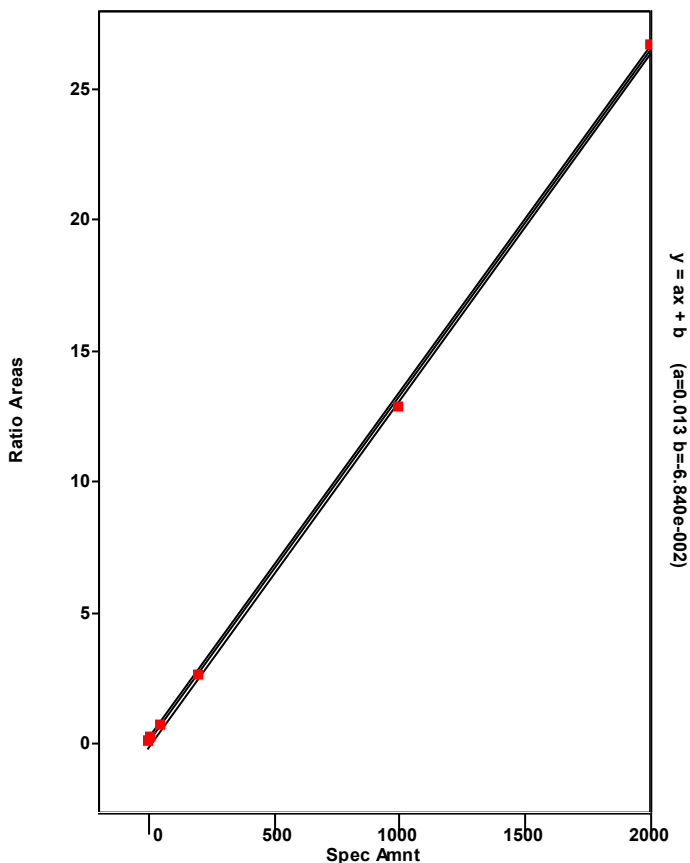


NL:
 4.98E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20204_17

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

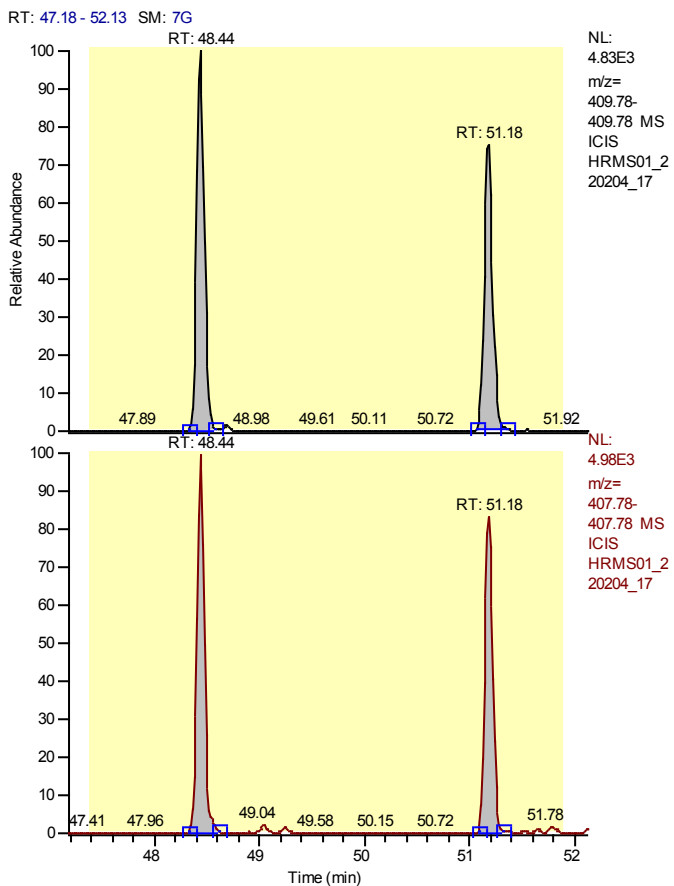
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

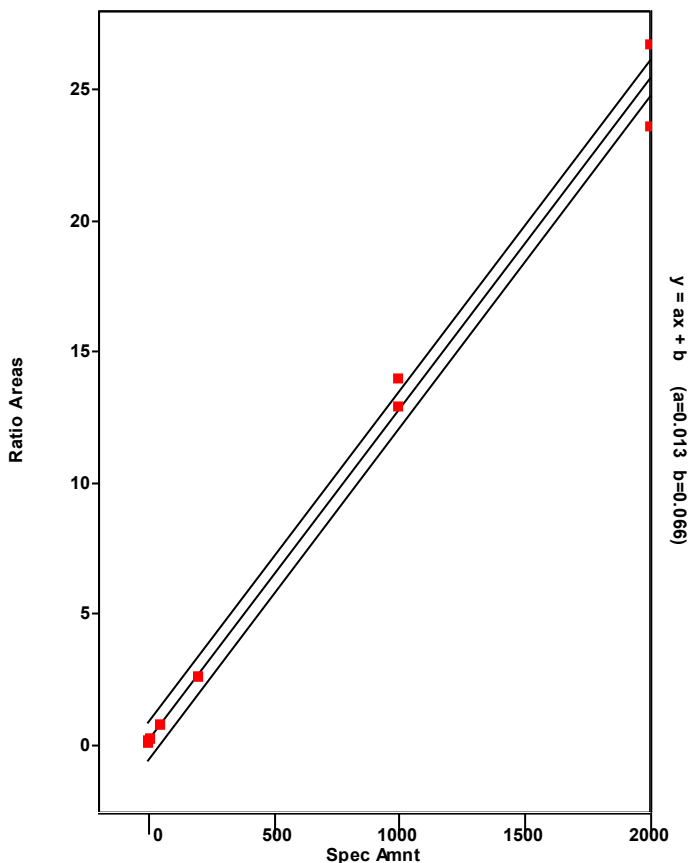


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	44326
RM1 Area	45958
RM1 Ratio (A)	1.0368
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	2.50
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

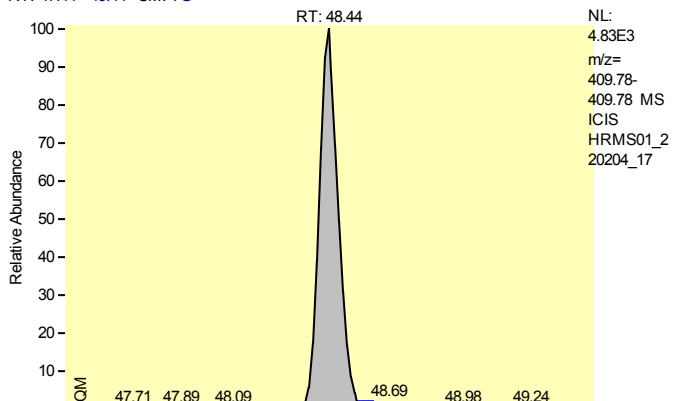
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

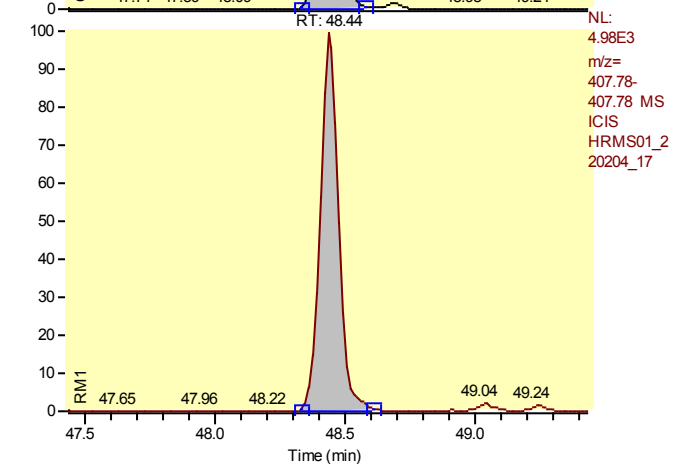
Entry Parameters

RT: 47.44 - 49.44 SM: 7G



NL:
4.83E3
m/z=
409.78-
409.78 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	24549
RM1 Area	24263
RM1 Ratio (A)	0.9883
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

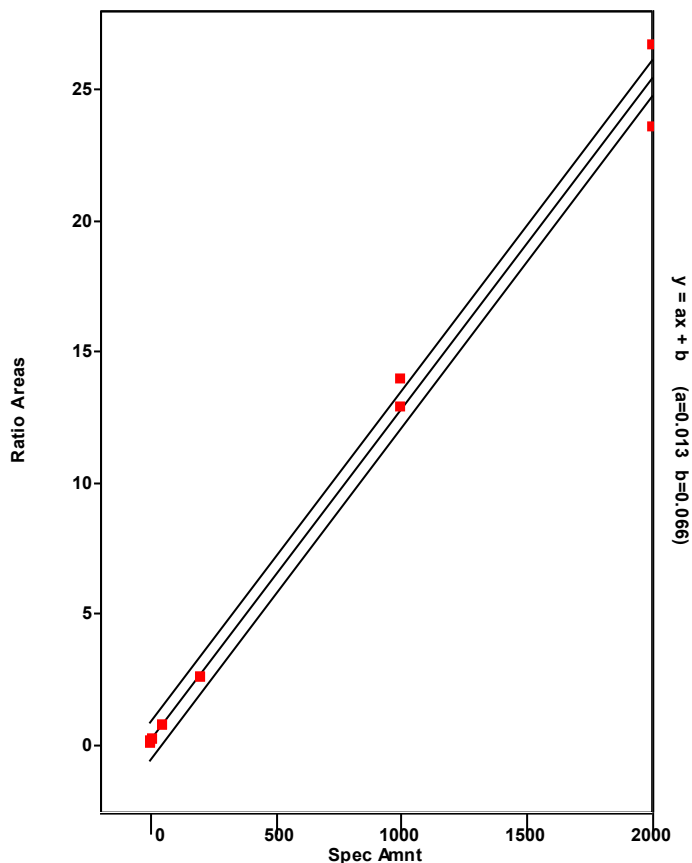


NL:
4.98E3
m/z=
407.78-
407.78 MS
ICIS
HRMS01_2
20204_17

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

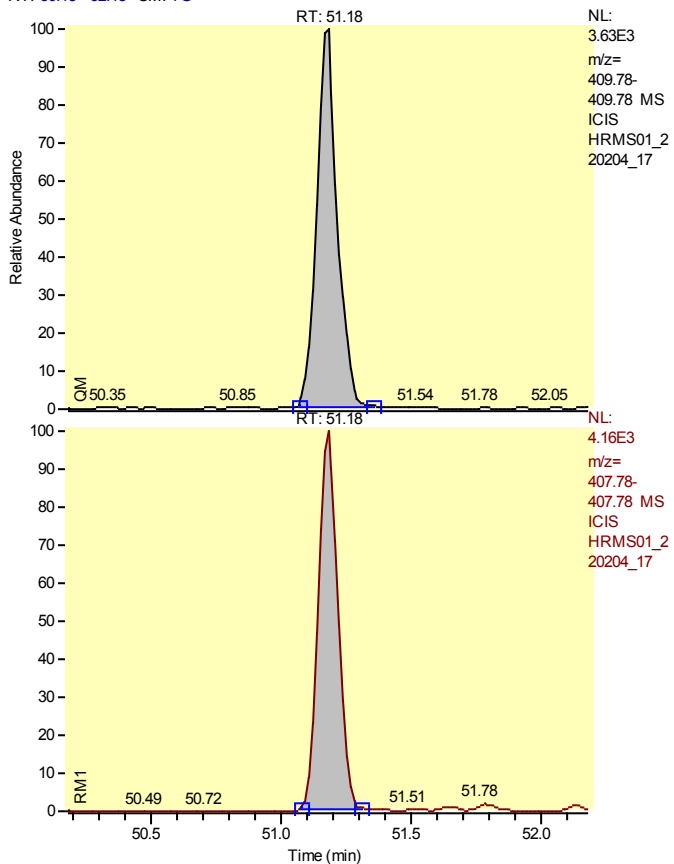
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.18 - 52.18 SM: 7G

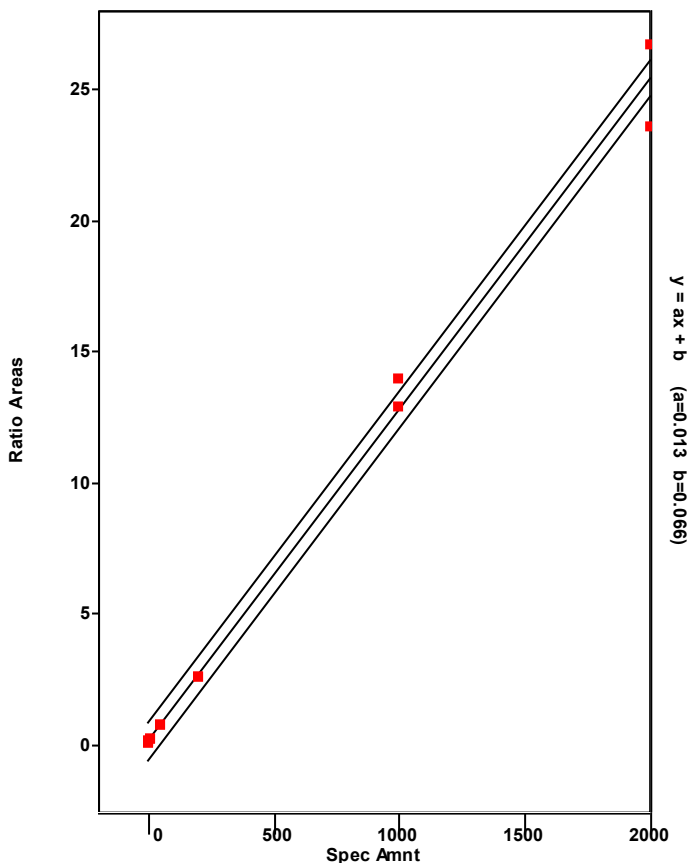


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	19777
RM1 Area	21695
RM1 Ratio (A)	1.0970
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

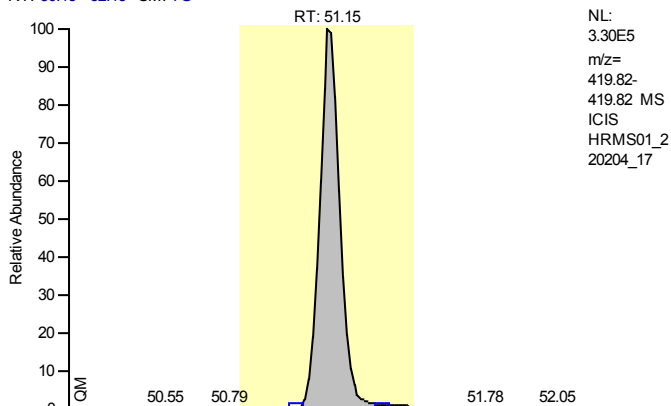
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

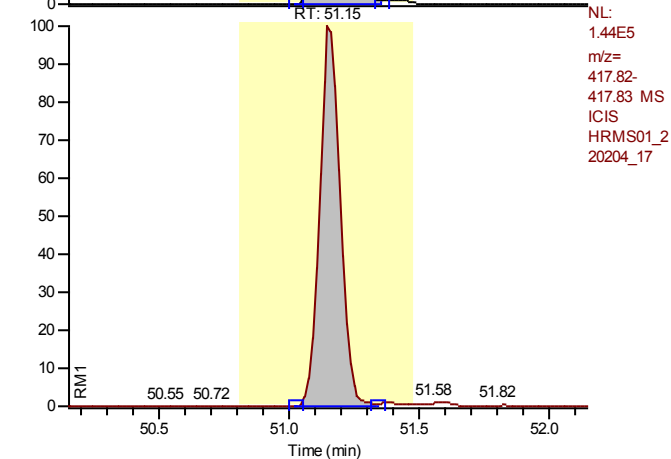
Entry Parameters

RT: 50.15- 52.15 SM: 7G



NL:
 3.30E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20204_17

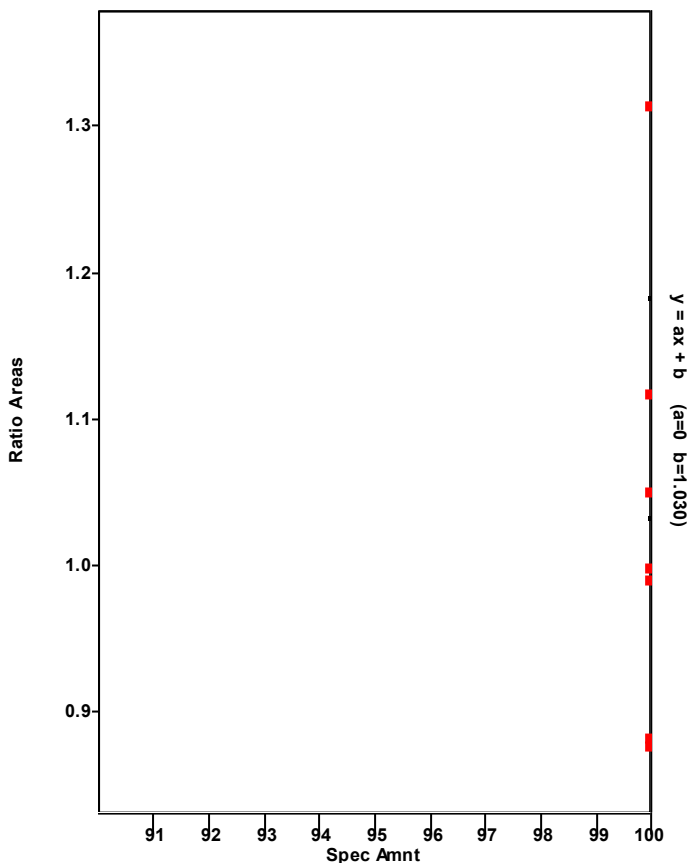
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1806509
RM1 Area	794864
RM1 Ratio (A)	0.4400
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
 1.44E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20204_17

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

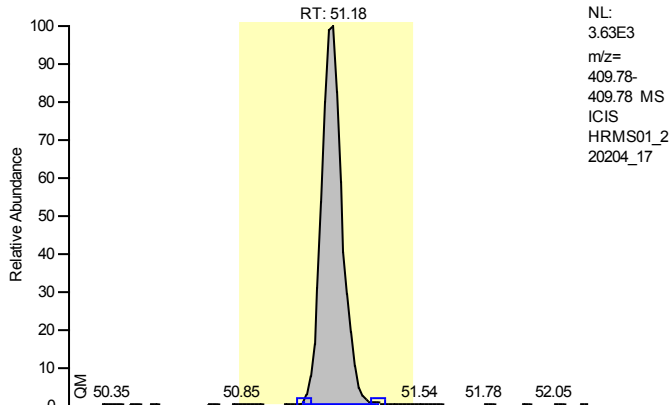
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



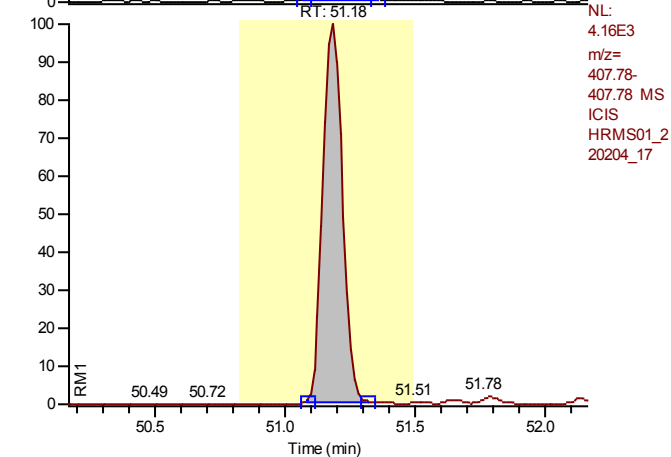
Chromatogram

Entry Parameters

RT: 50.16 - 52.16 SM: 7G



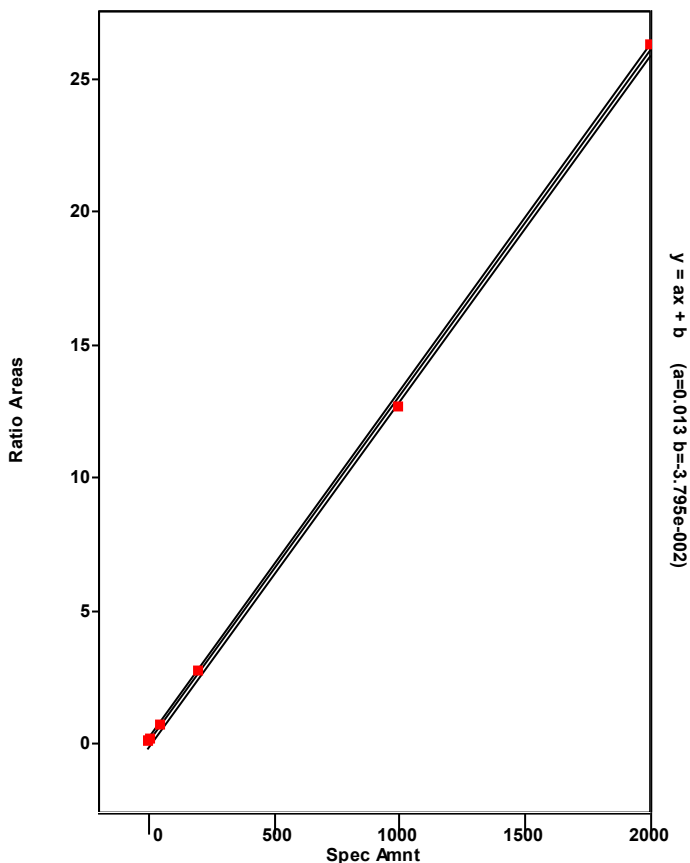
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	19777
RM1 Area	21695
RM1 Ratio (A)	1.0970
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

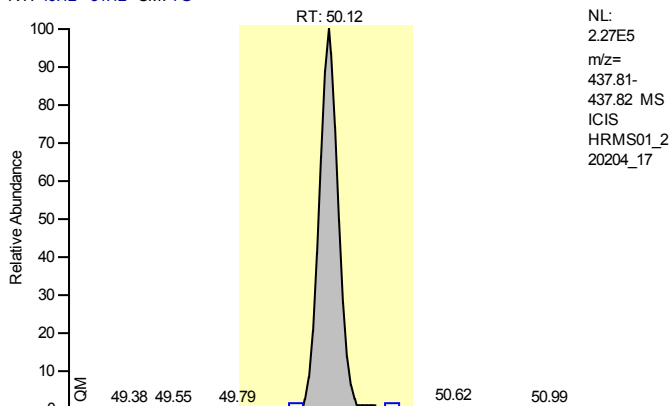
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



Chromatogram

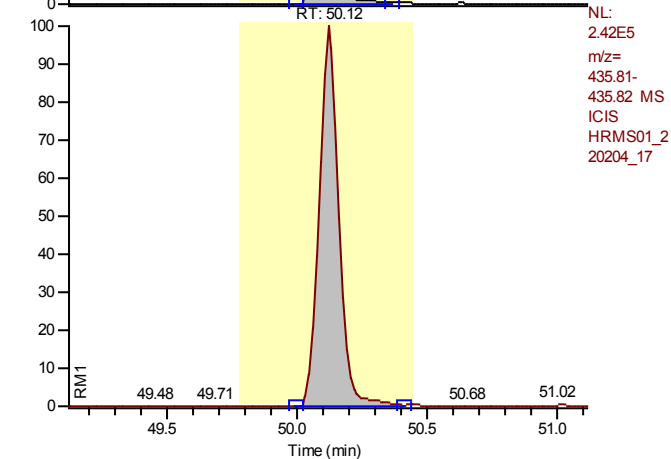
Entry Parameters

RT: 49.12 - 51.12 SM: 7G



NL:
 2.27E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20204_17

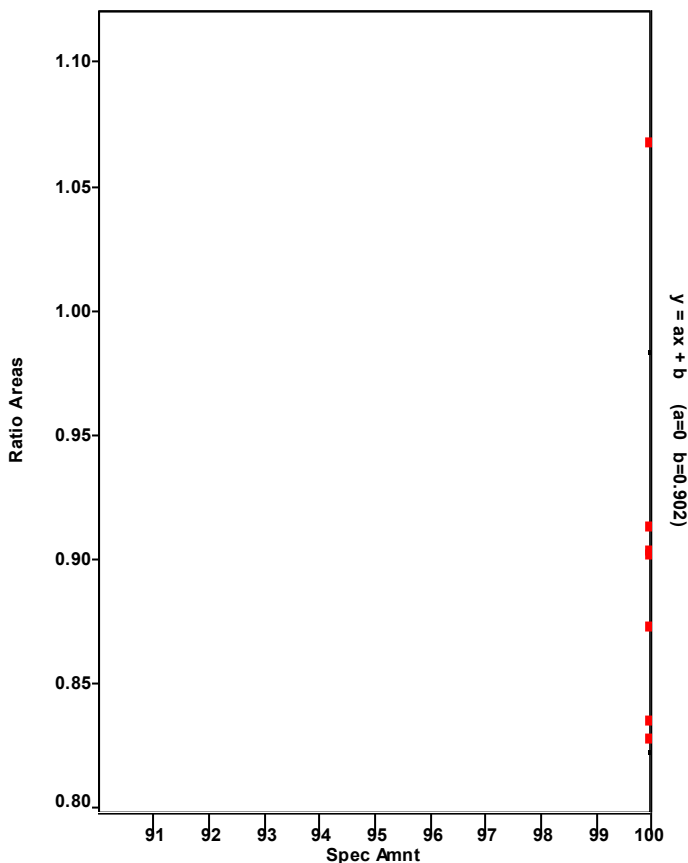
Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1181757
RM1 Area	1284063
RM1 Ratio (A)	1.0866
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
 2.42E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20204_17

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

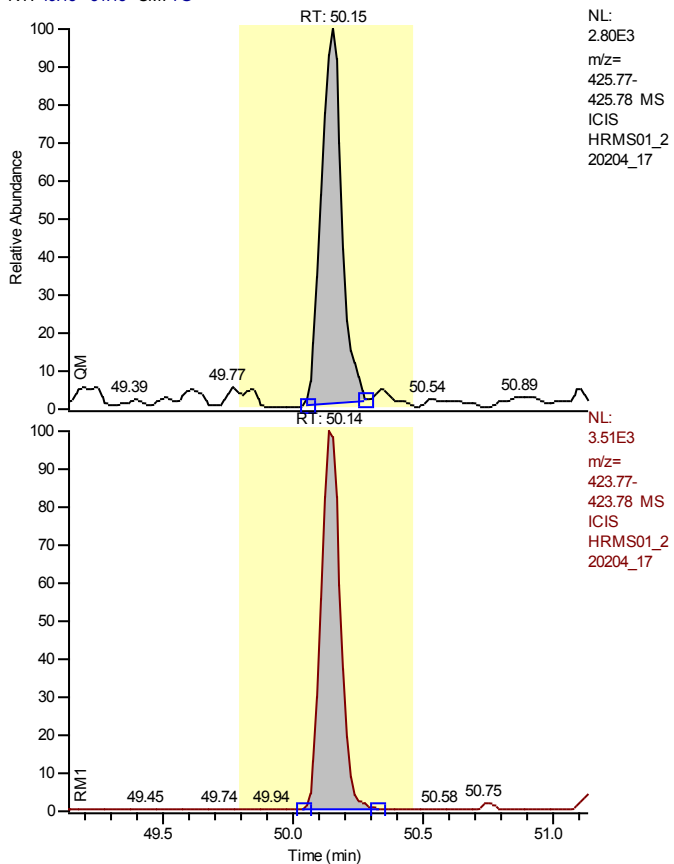
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G



NL:
2.80E3
m/z=
425.77-
425.78 MS
ICIS
HRMS01_2
20204_17

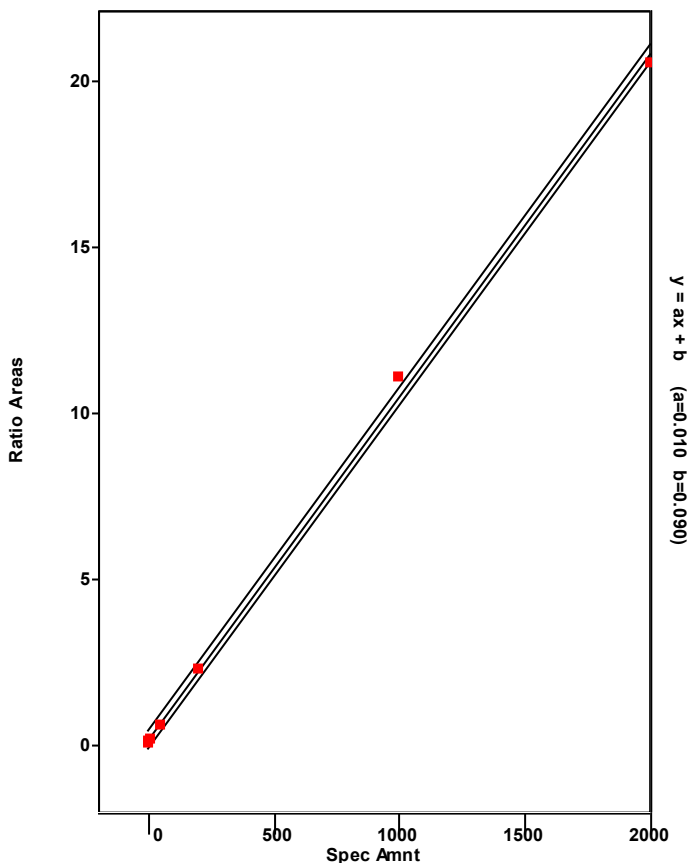
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	15045
RM1 Area	18008
RM1 Ratio (A)	1.1970
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0125
Label2	

NL:
3.51E3
m/z=
423.77-
423.78 MS
ICIS
HRMS01_2
20204_17

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

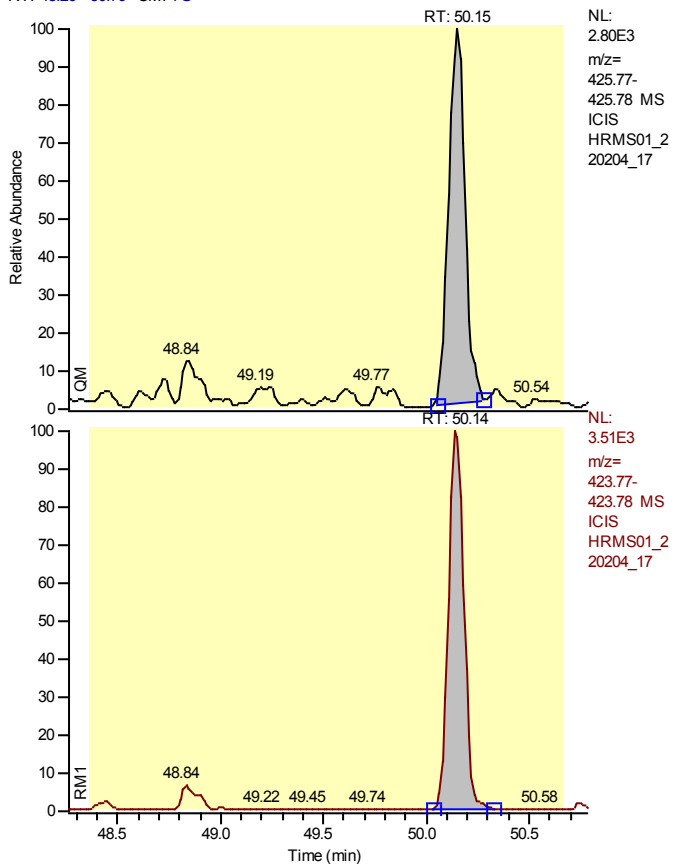
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.26 - 50.79 SM: 7G



NL:
2.80E3
m/z=
425.77-
425.78 MS
ICIS
HRMS01_2
20204_17

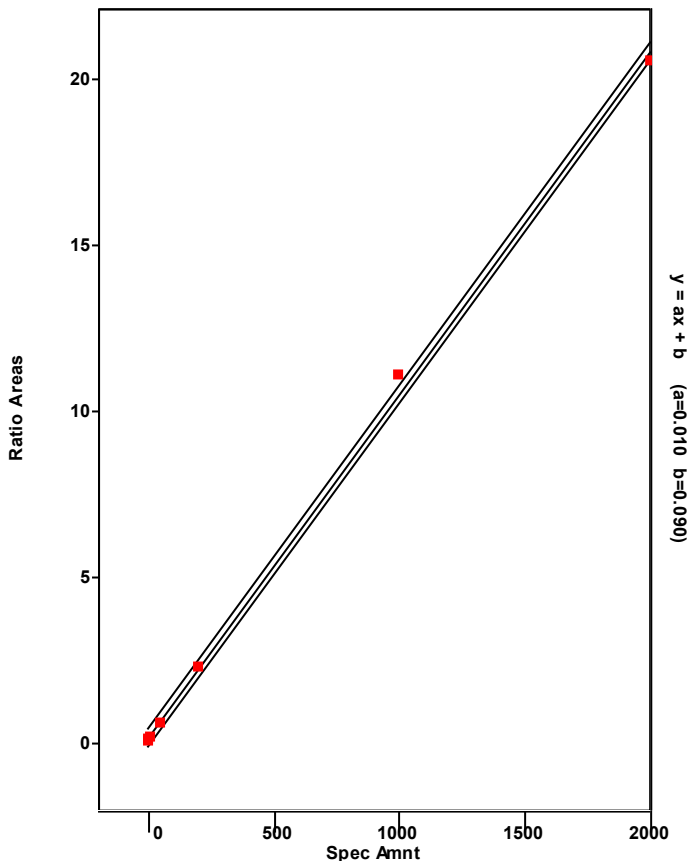
NL:
3.51E3
m/z=
423.77-
423.78 MS
ICIS
HRMS01_2
20204_17

Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	15045
RM1 Area	18008
RM1 Ratio (A)	1.1970
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

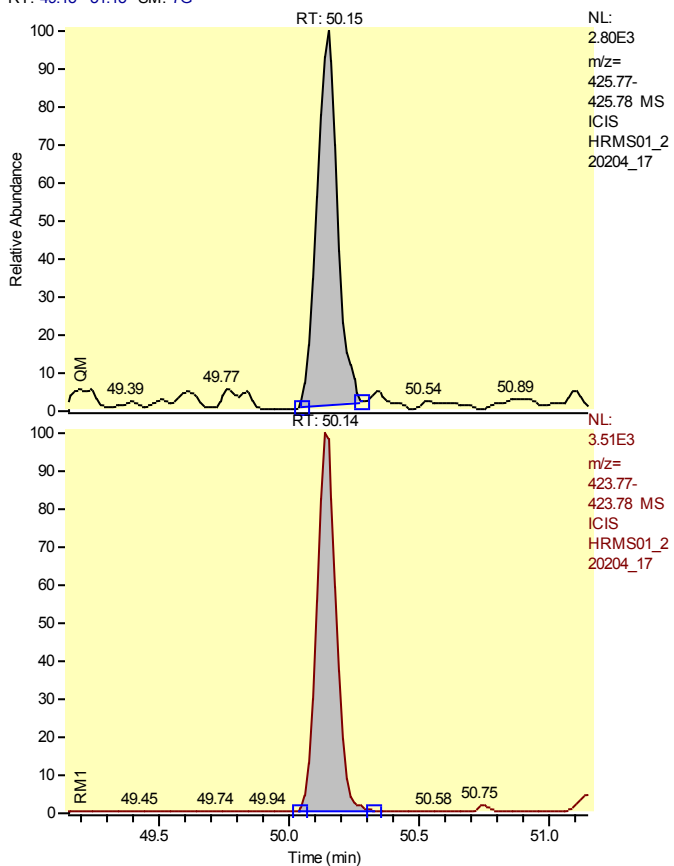
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.15 - 51.15 SM: 7G

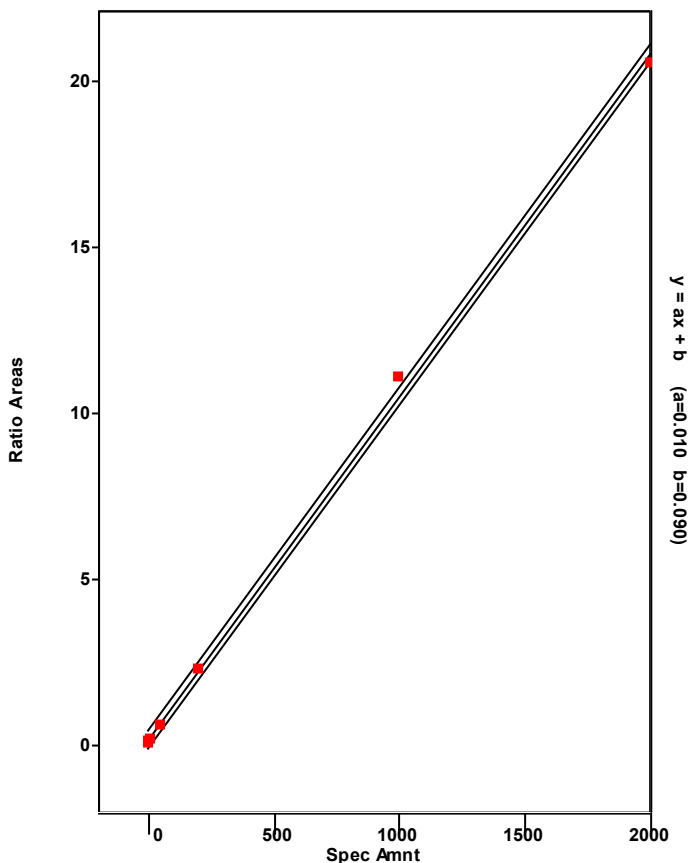


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	15045
RM1 Area	18008
RM1 Ratio (A)	1.1970
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1.25
Calculated Amount (A)	1.25
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

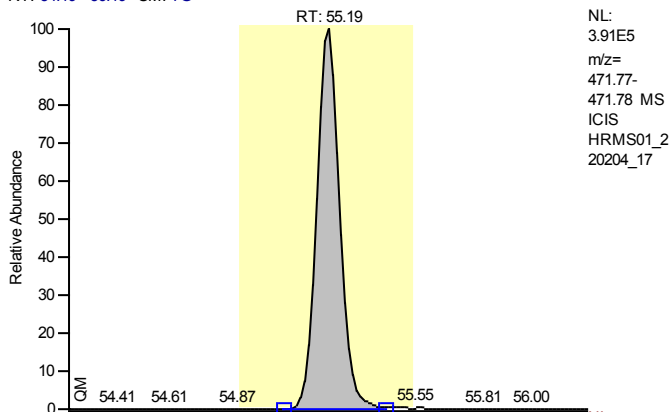
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



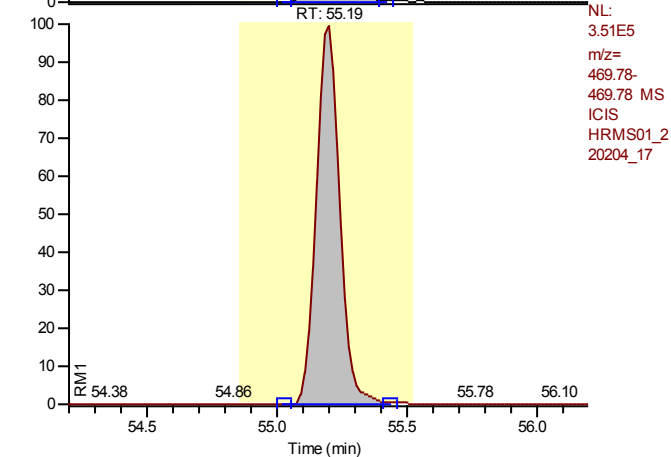
Chromatogram

Entry Parameters

RT: 54.19 - 56.19 SM: 7G



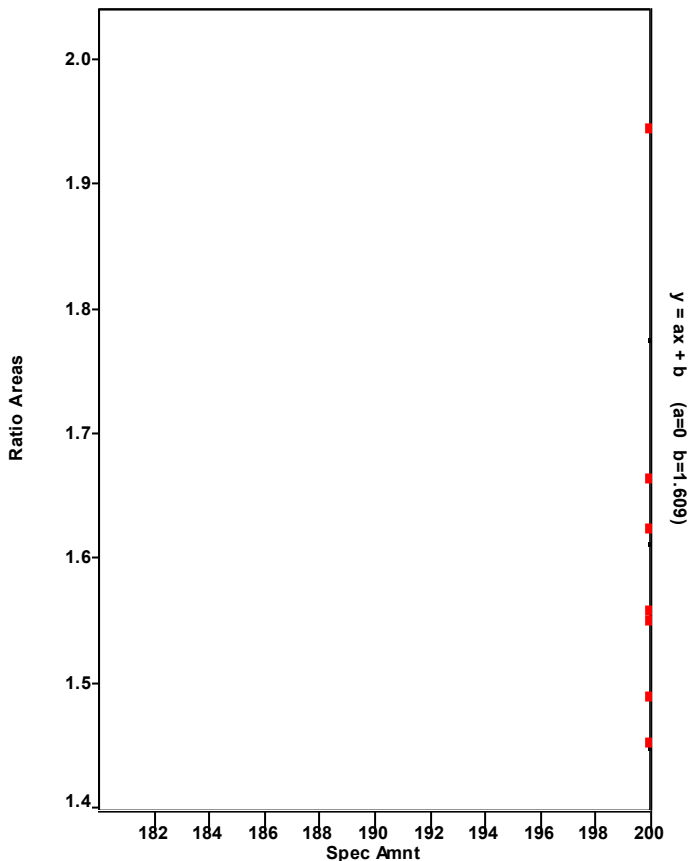
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2396976
RM1 Area	2202981
RM1 Ratio (A)	0.9191
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

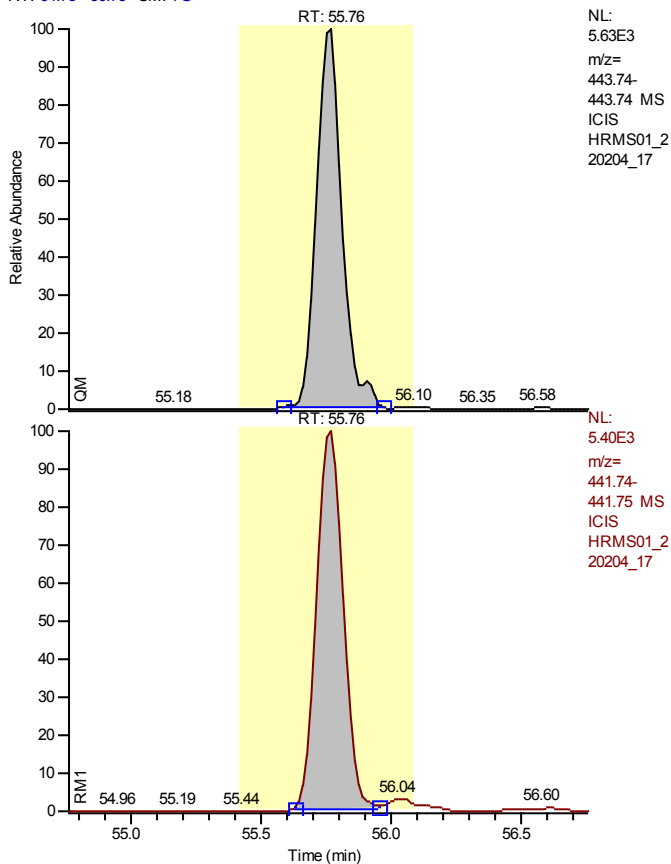
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.75 - 56.75 SM: 7G

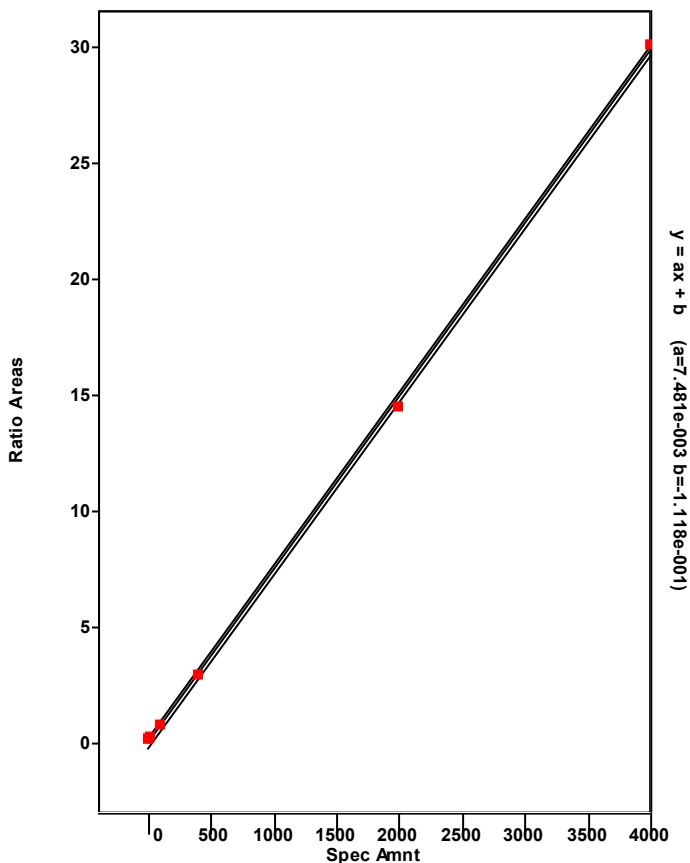


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	38214
RM1 Area	38149
RM1 Ratio (A)	0.9983
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0007
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

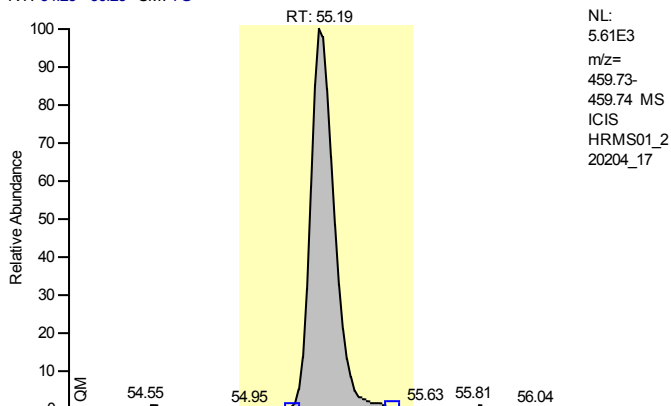
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



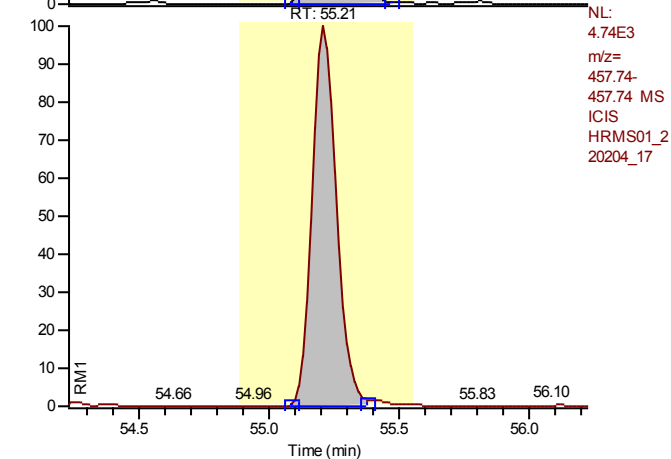
Chromatogram

Entry Parameters

RT: 54.23 - 56.23 SM: 7G



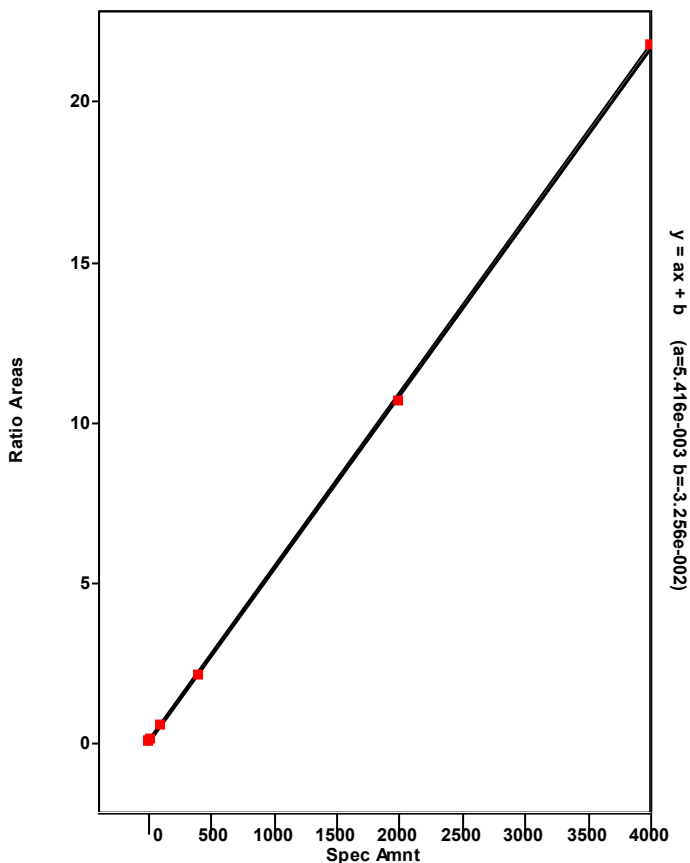
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	35208
RM1 Area	30549
RM1 Ratio (A)	0.8677
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0007
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

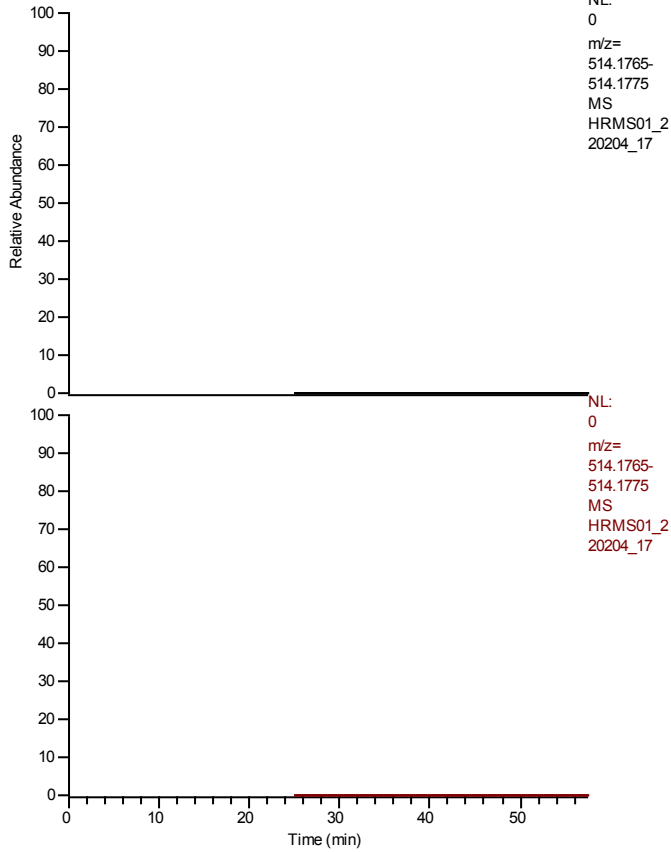
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

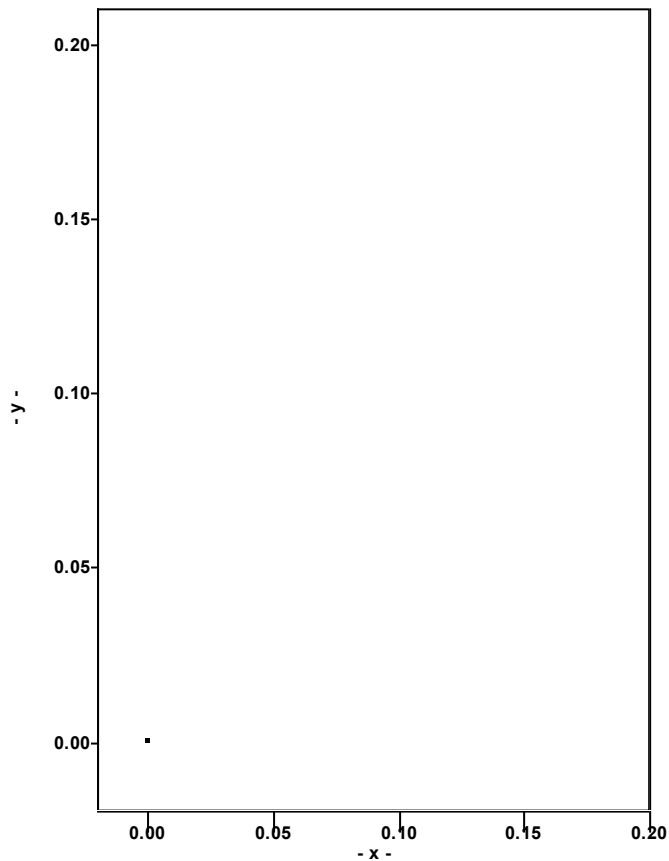
RT: 0.00 - 57.51 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	334520
RM1 Area	406477
RM1 Ratio (A)	1.2151
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	21.74
Percent Recovery (A)	---
TEQ (A)	2.8506
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 03:29
Number of Entries	59
Comment	HRMS200402A
Vial	5
Sample Name	IA1613STD-.5
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_19_seq
Data	hrms01_220204_19
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

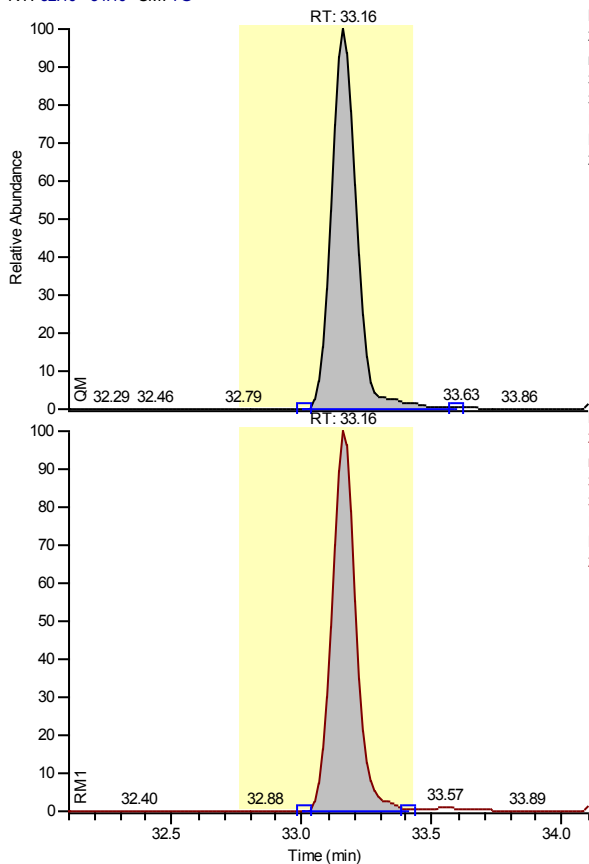
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1741856	1441587	0.8276	0.6500 - 1.0250	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2761109	2147267	0.7777	0.6500 - 1.0250	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	9795	9995	1.0204	0.6500 - 1.0250	0.50	0.50	100	0.0500
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	9795	9995	1.0204	0.6500 - 1.0250	0.50	0.50	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	9795	9995	1.0204	0.6500 - 1.0250	0.50	0.50	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1886408	1529730	0.8109	0.6500 - 1.0250	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	9318	6642	0.7128	0.6500 - 1.0250	0.50	0.50	100	0.5000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	9318	6642	0.7128	0.6500 - 1.0250	0.50	0.50	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	9318	6642	0.7128	0.6500 - 1.0250	0.50	0.50	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1778439	2905086	1.6335	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	46721	72572	1.5533	1.3200 - 1.7800	2.50	2.50	100	0.0750
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	88352	146033	1.6528	1.3200 - 1.7800	2.50	5.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	46721	72572	1.5533	1.3200 - 1.7800	2.50	2.50	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	41632	73461	1.7645	1.3200 - 1.7800	2.50	2.50	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1572829	2474146	1.5731	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	41632	73461	1.7645	1.3200 - 1.7800	2.50	2.50	100	0.7500
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1114157	1622446	1.4562	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	24911	41362	1.6604	1.3200 - 1.7800	2.50	2.50	100	2.5000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	24911	41362	1.6604	1.3200 - 1.7800	2.50	2.50	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	24911	41362	1.6604	1.3200 - 1.7800	2.50	2.50	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		21031	21031	1.0000	0.8500 - 1.1500	0.50	0.50	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1495673	1876622	1.2547	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2558088	1393411	0.5447	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	52217	63577	1.2175	1.0500 - 1.4300	2.50	2.50	100	0.2500
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	215616	265603	1.2318	1.0500 - 1.4300	2.50	10.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	59632	72245	1.2115	1.0500 - 1.4300	2.50	2.50	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	52217	63577	1.2175	1.0500 - 1.4300	2.50	2.50	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	56350	67100	1.1908	1.0500 - 1.4300	2.50	2.50	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	47417	62680	1.3219	1.0500 - 1.4300	2.50	2.50	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		2628232	1448178	0.5510	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	56350	67100	1.1908	1.0500 - 1.4300	2.50	2.50	100	0.2500
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2703520	1374672	0.5085	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	59632	72245	1.2115	1.0500 - 1.4300	2.50	2.50	100	0.2500
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		2546679	1381124	0.5423	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	47417	62680	1.3219	1.0500 - 1.4300	2.50	2.50	100	0.2500
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1324679	1741246	1.3145	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	37284	46302	1.2419	1.0500 - 1.4300	2.50	2.50	100	0.2500
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	112129	144661	1.2901	1.0500 - 1.4300	2.50	7.50	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	37909	49836	1.3146	1.0500 - 1.4300	2.50	2.50	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	37284	46302	1.2419	1.0500 - 1.4300	2.50	2.50	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	36936	48523	1.3137	1.0500 - 1.4300	2.50	2.50	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1433194	1781263	1.2429	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	37909	49836	1.3146	1.0500 - 1.4300	2.50	2.50	100	0.2500
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	36936	48523	1.3137	1.0500 - 1.4300	2.50	2.50	100	0.2500
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2890160	1236808	0.4279	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	60130	73446	1.2214	0.8800 - 1.2500	2.50	2.50	100	0.0250
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	118511	138849	1.1716	0.8800 - 1.2500	2.50	5.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	60130	73446	1.2214	0.8800 - 1.2500	2.50	2.50	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	58381	65403	1.1203	0.8800 - 1.2500	2.50	2.50	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		2589966	1171261	0.4522	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	58381	65403	1.1203	0.8800 - 1.2500	2.50	2.50	100	0.0250
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1492683	1582615	1.0602	0.8800 - 1.2500	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	40149	43061	1.0725	0.8800 - 1.2500	2.50	2.50	100	0.0250
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	40149	43061	1.0725	0.8800 - 1.2500	2.50	2.50	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	40149	43061	1.0725	0.8800 - 1.2500	2.50	2.50	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2878539	2590437	0.8999	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	108006	97428	0.9021	0.7600 - 1.0200	5.00	5.00	100	0.0015
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	84877	72798	0.8577	0.7600 - 1.0200	5.00	5.00	100	0.0015
59	overall TEQ	overall TEQ test		811664	966431	1.1907	0.0000 - 0.0000	0.00	43.50	---	5.7030

Chromatogram

Entry Parameters

RT: 32.10 - 34.10 SM: 7G



NL:
2.59E5
m/z=
333.93-
333.94 MS
ICIS
HRMS01_2
20204_19

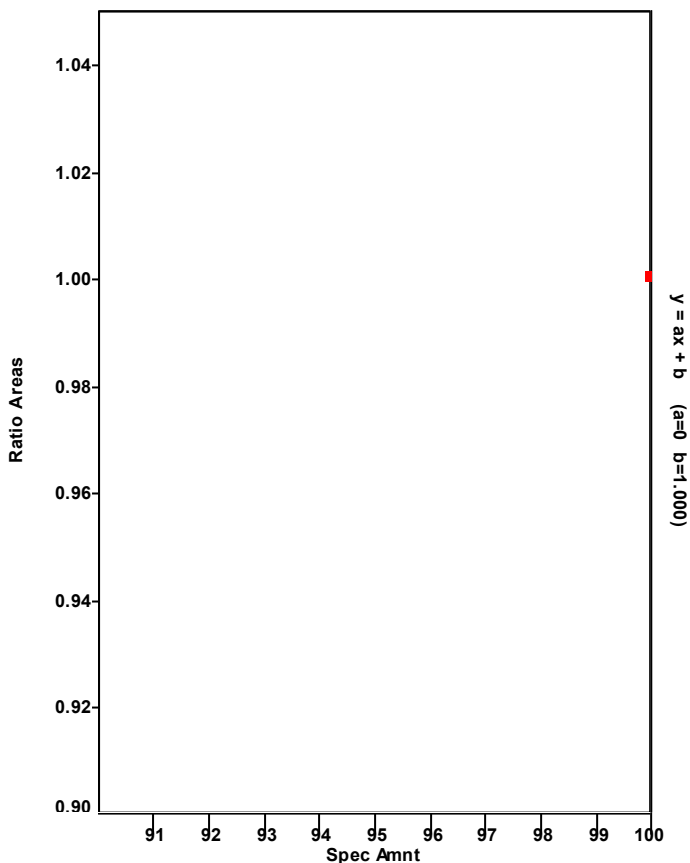
NL:
2.26E5
m/z=
331.94-
331.94 MS
ICIS
HRMS01_2
20204_19

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1741856
RM1 Area	1441587
RM1 Ratio (A)	0.8276
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

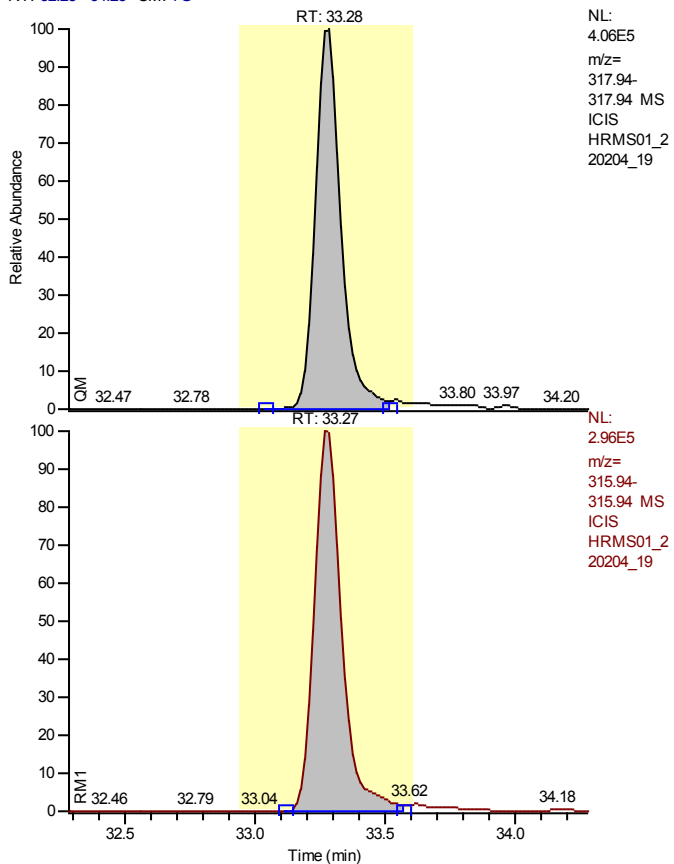
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

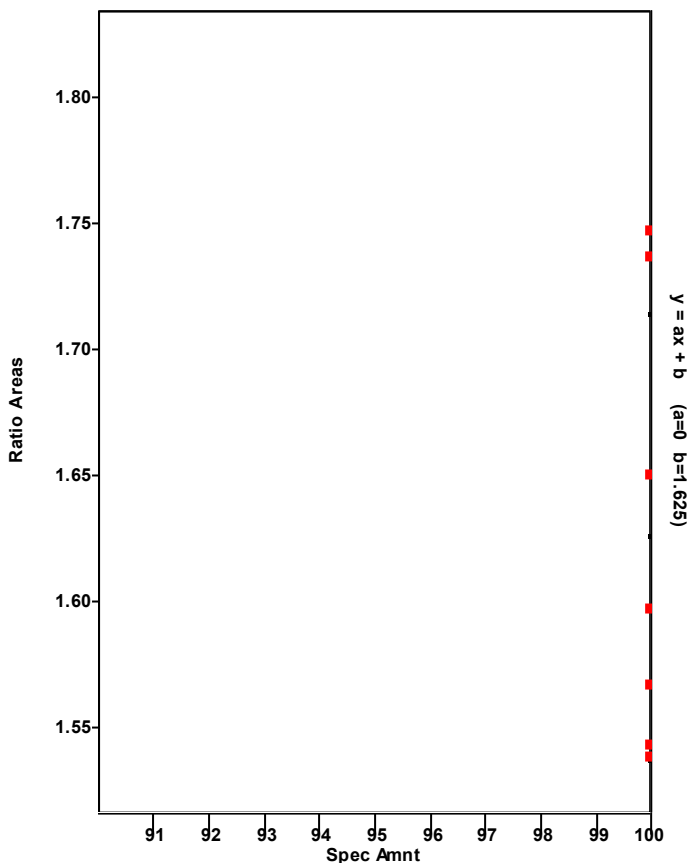


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2761109
RM1 Area	2147267
RM1 Ratio (A)	0.7777
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

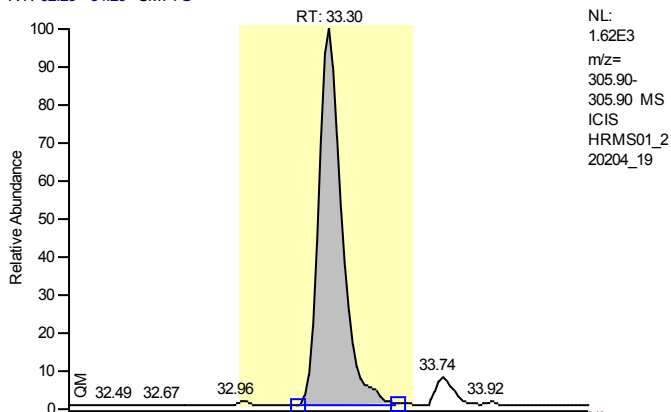
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

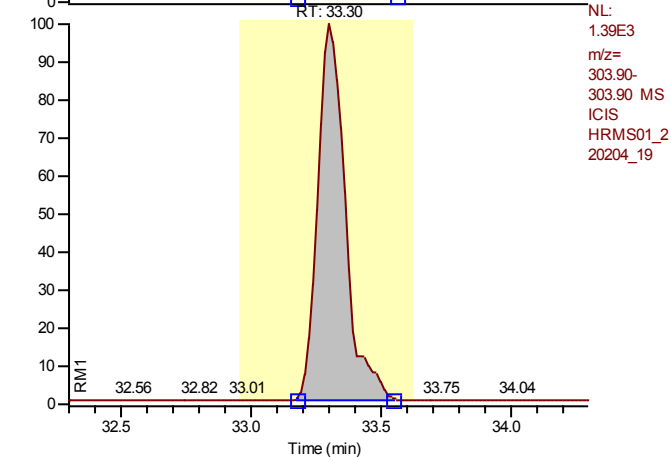
Entry Parameters

RT: 32.29 - 34.29 SM: 7G



NL: 1.62E3
 m/z= 305.90-305.90 MS
 ICIS HRMS01_2 20204_19

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	9795
RM1 Area	9995
RM1 Ratio (A)	1.0204
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0500
Label2	

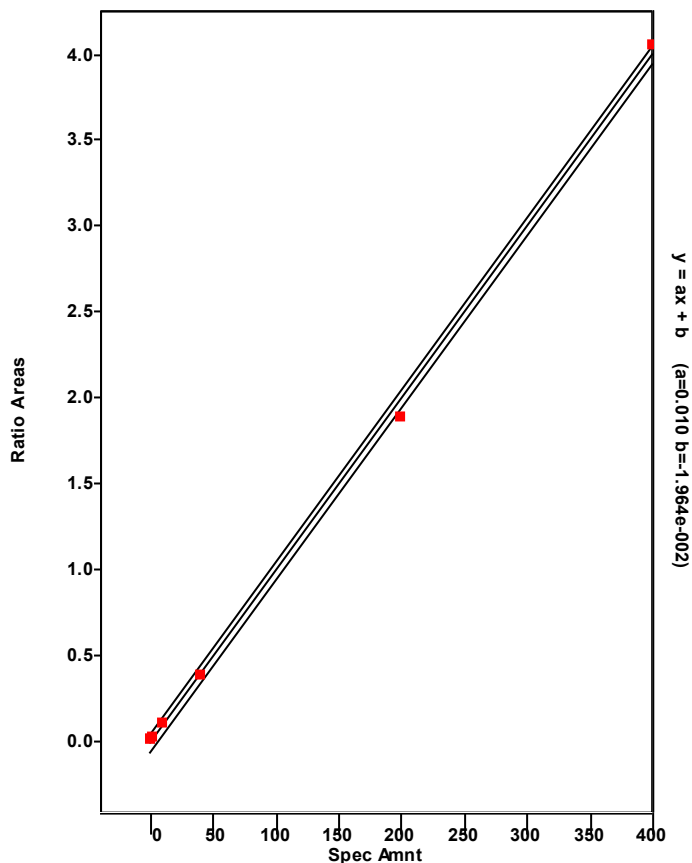


NL: 1.39E3
 m/z= 303.90-303.90 MS
 ICIS HRMS01_2 20204_19

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867

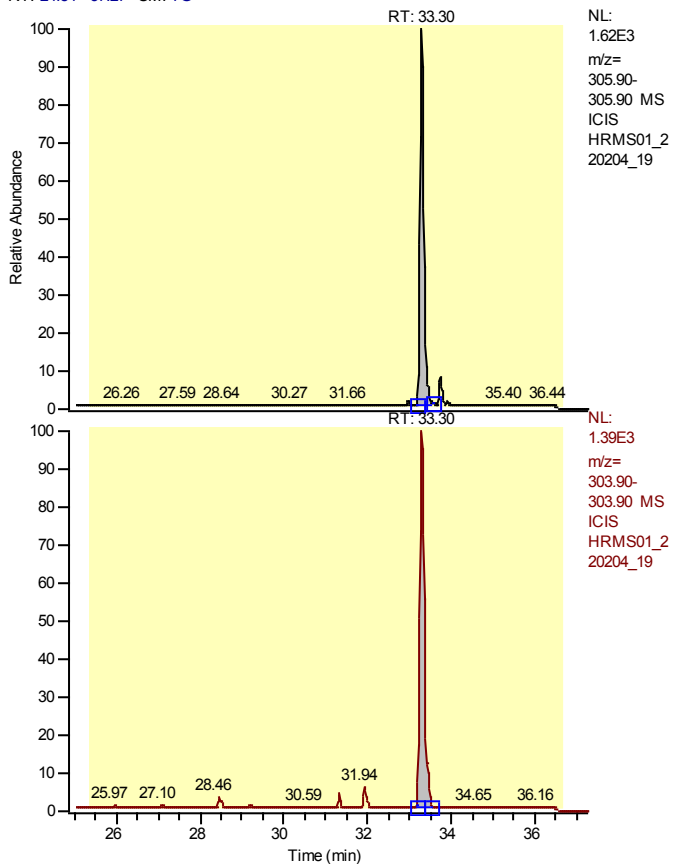


$y = ax + b$
 (a=0.010 b=-1.964e-002)

Chromatogram

Entry Parameters

RT: 24.84 - 37.27 SM: 7G

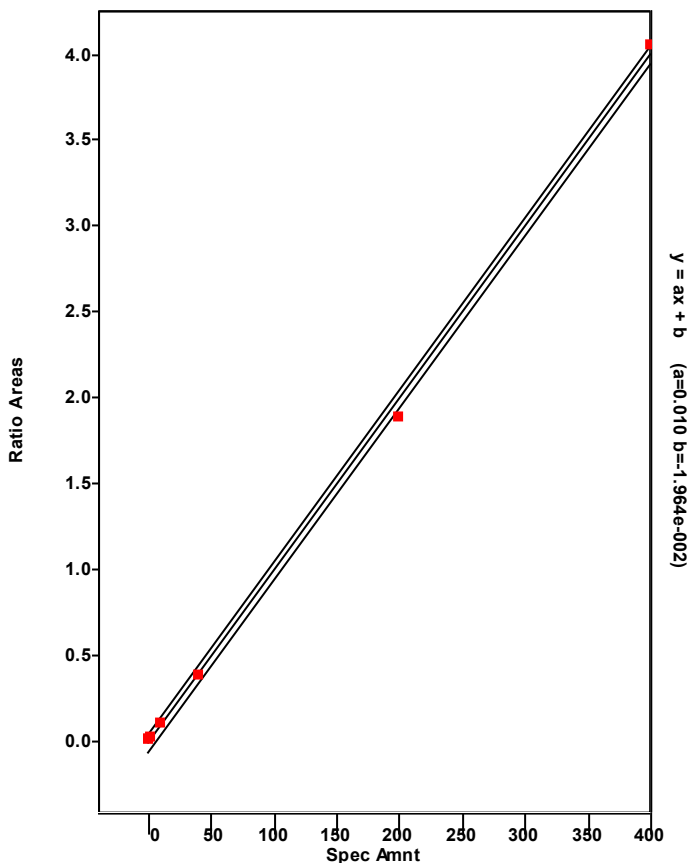


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	9795
RM1 Area	9995
RM1 Ratio (A)	1.0204
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

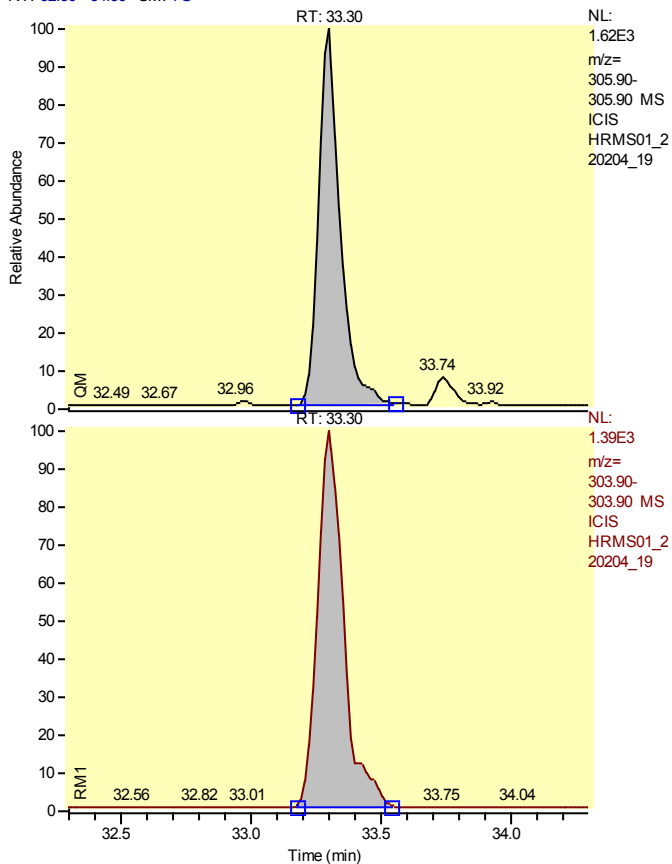
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G

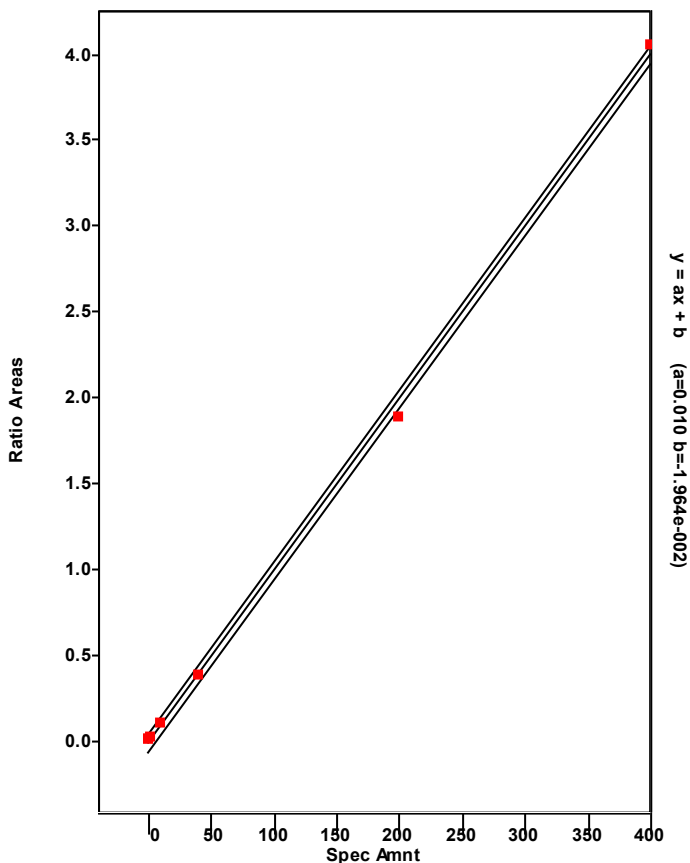


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9795
RM1 Area	9995
RM1 Ratio (A)	1.0204
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

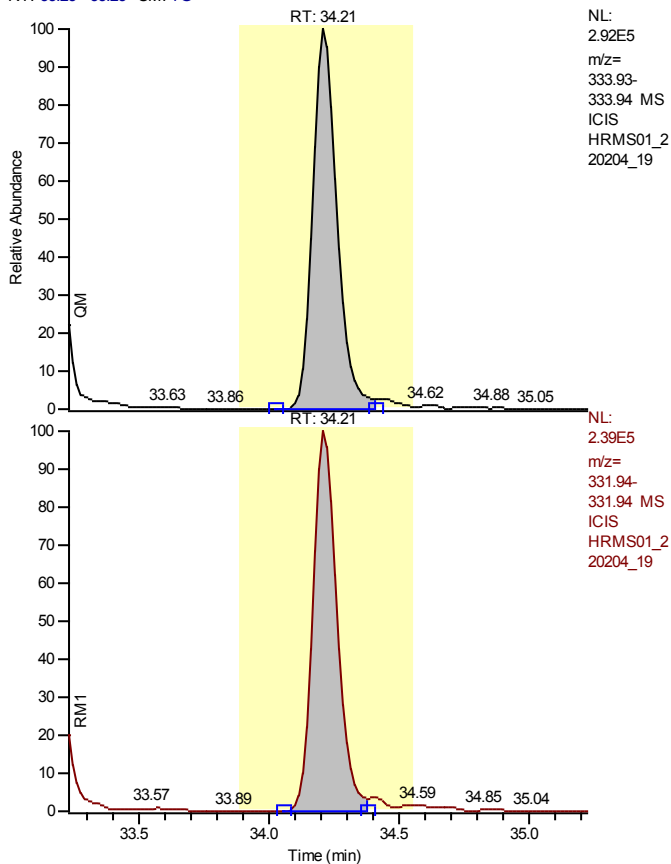
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G

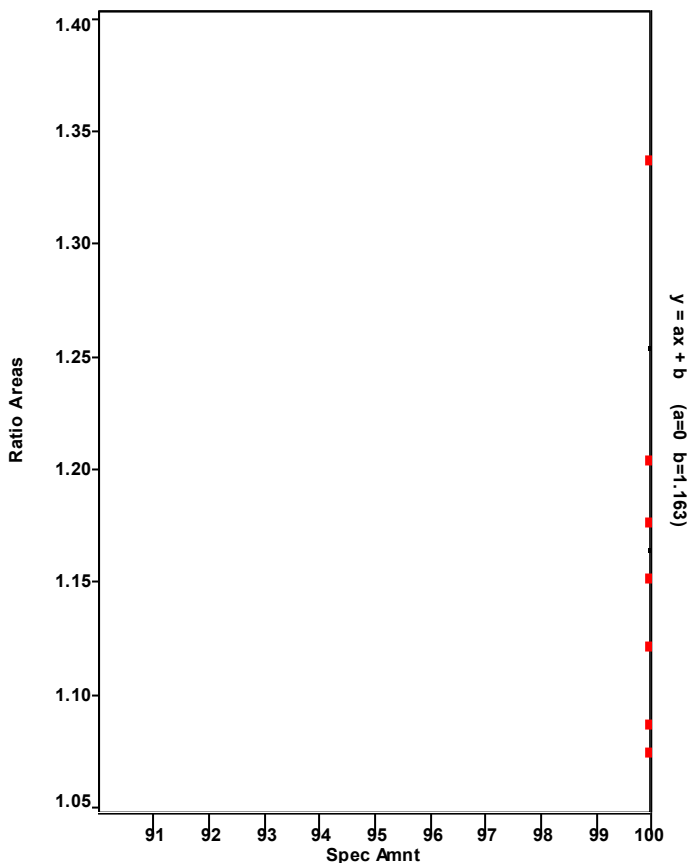


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1886408
RM1 Area	1529730
RM1 Ratio (A)	0.8109
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

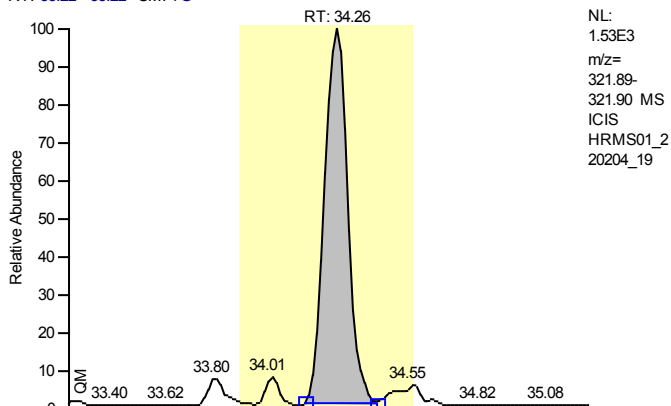
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

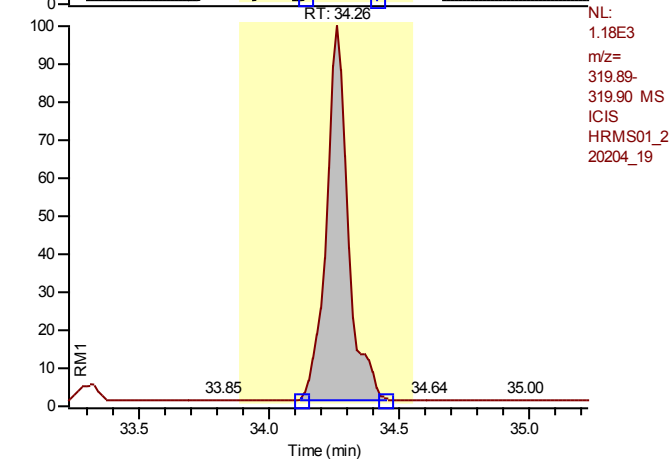
Entry Parameters

RT: 33.22 - 35.22 SM: 7G



NL:
 1.53E3
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	9318
RM1 Area	6642
RM1 Ratio (A)	0.7128
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	

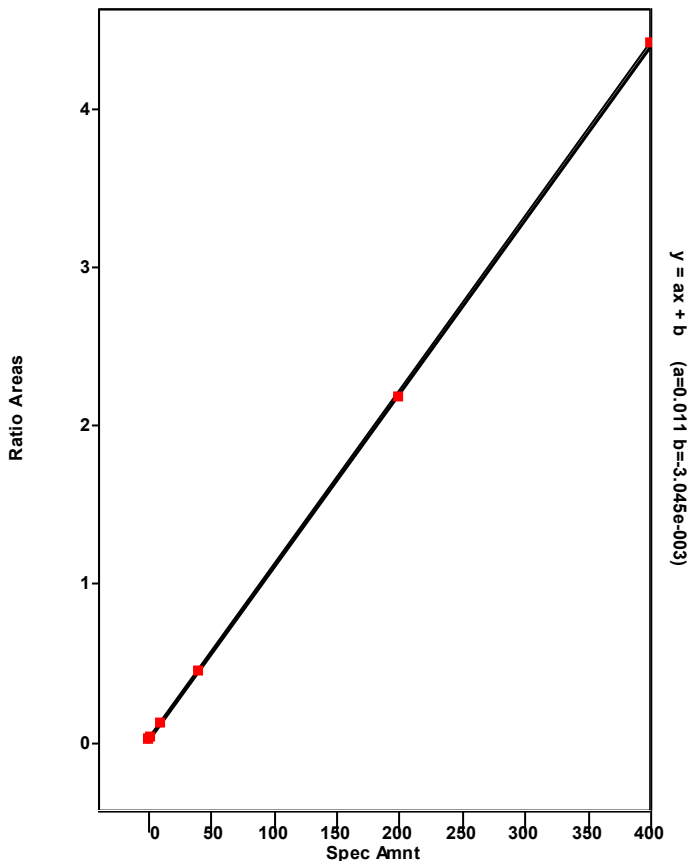


NL:
 1.18E3
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20204_19

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

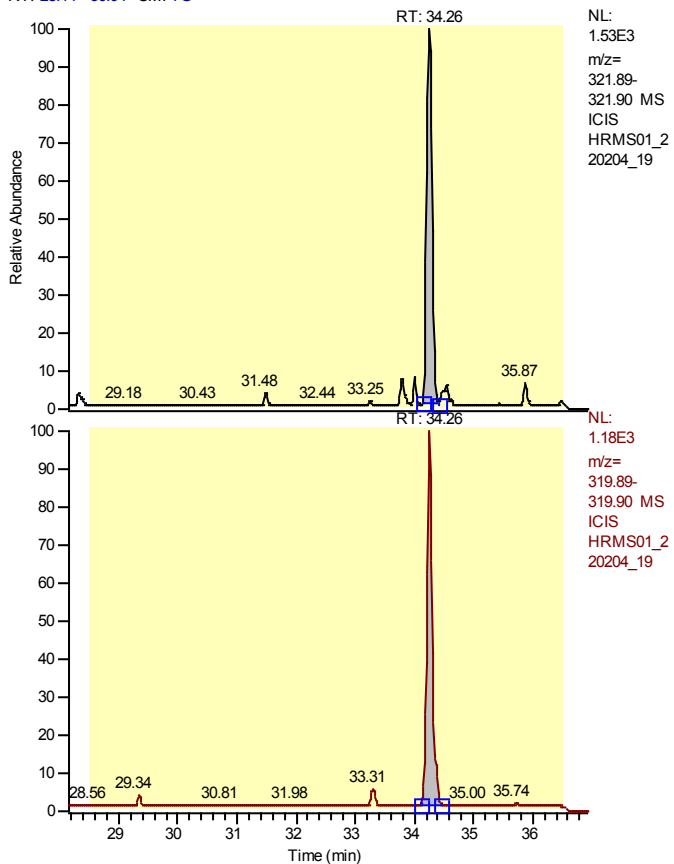
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.14 - 36.94 SM: 7G

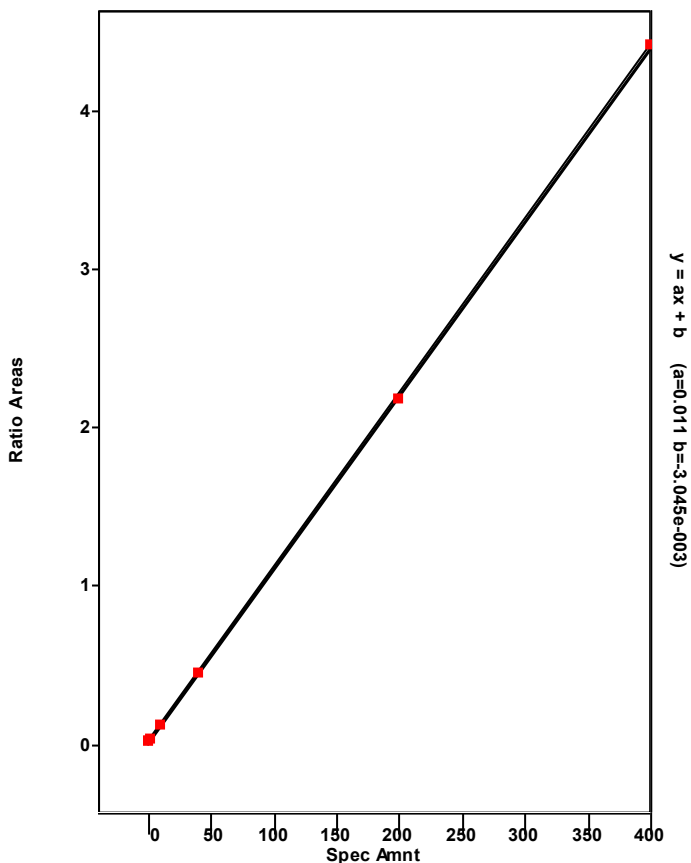


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	9318
RM1 Area	6642
RM1 Ratio (A)	0.7128
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

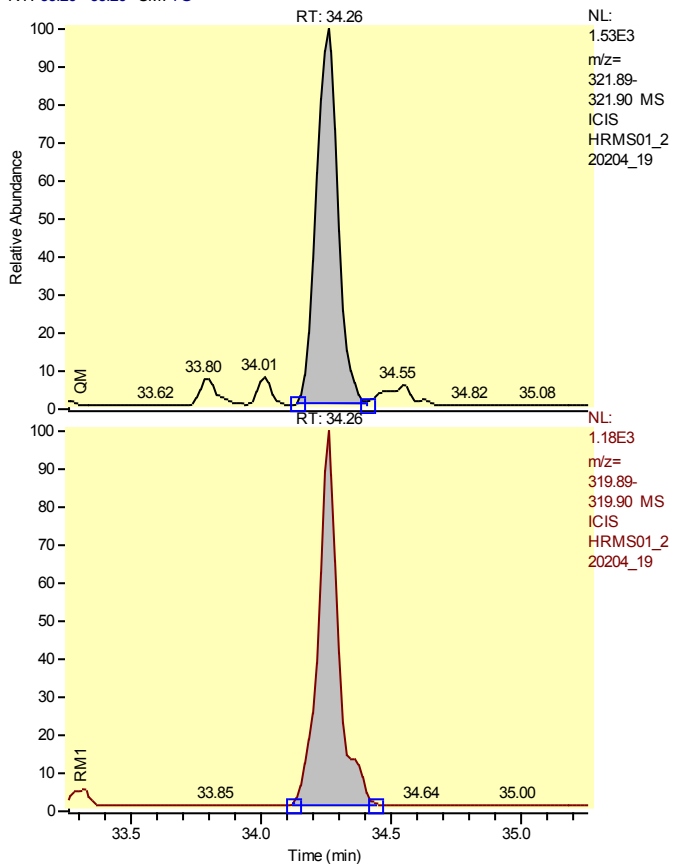
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.26 - 35.26 SM: 7G

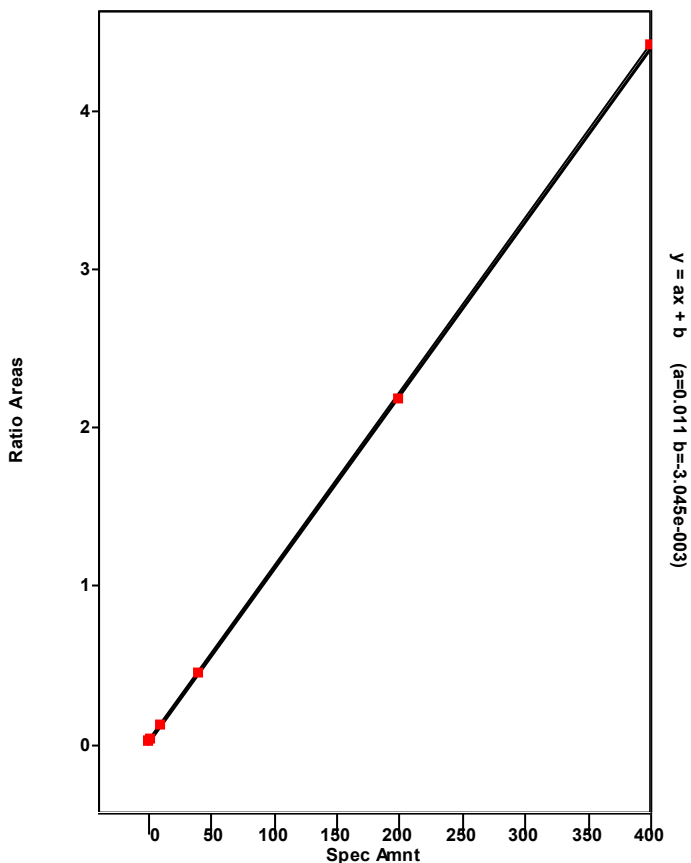


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	9318
RM1 Area	6642
RM1 Ratio (A)	0.7128
Ratio1 Limit	0.6500 - 1.0250
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

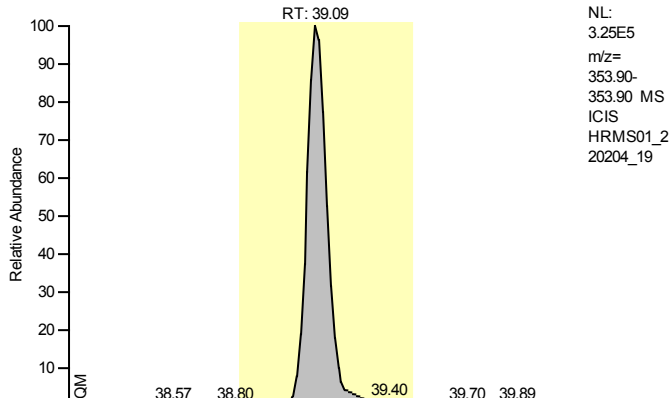
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



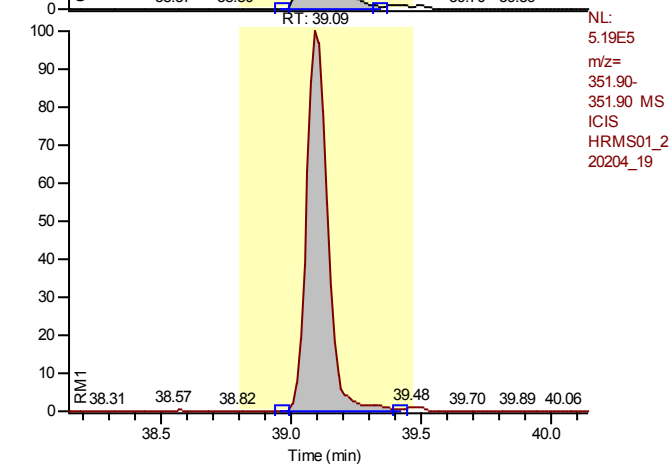
Chromatogram

Entry Parameters

RT: 38.14 - 40.14 SM: 7G



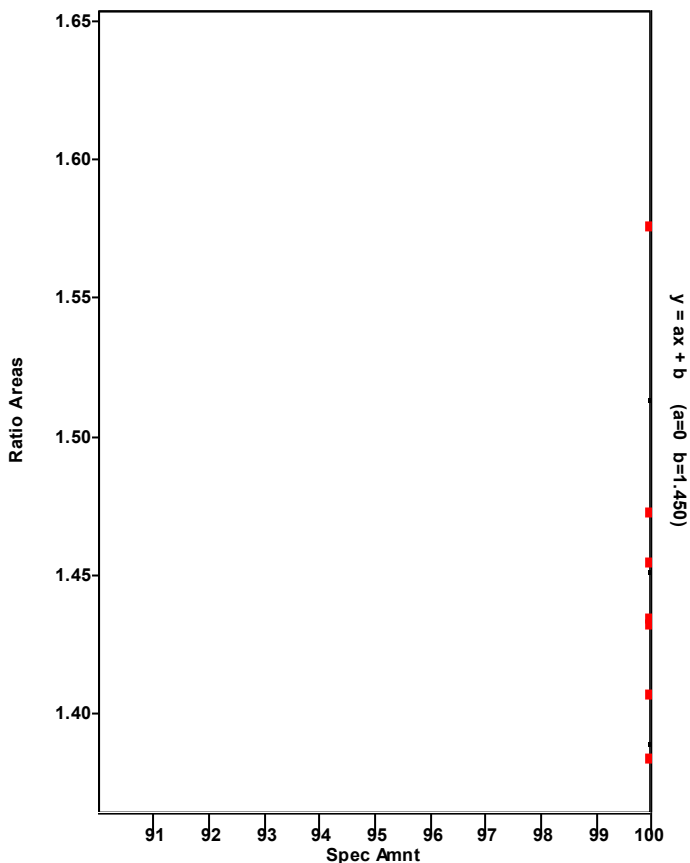
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1778439
RM1 Area	2905086
RM1 Ratio (A)	1.6335
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

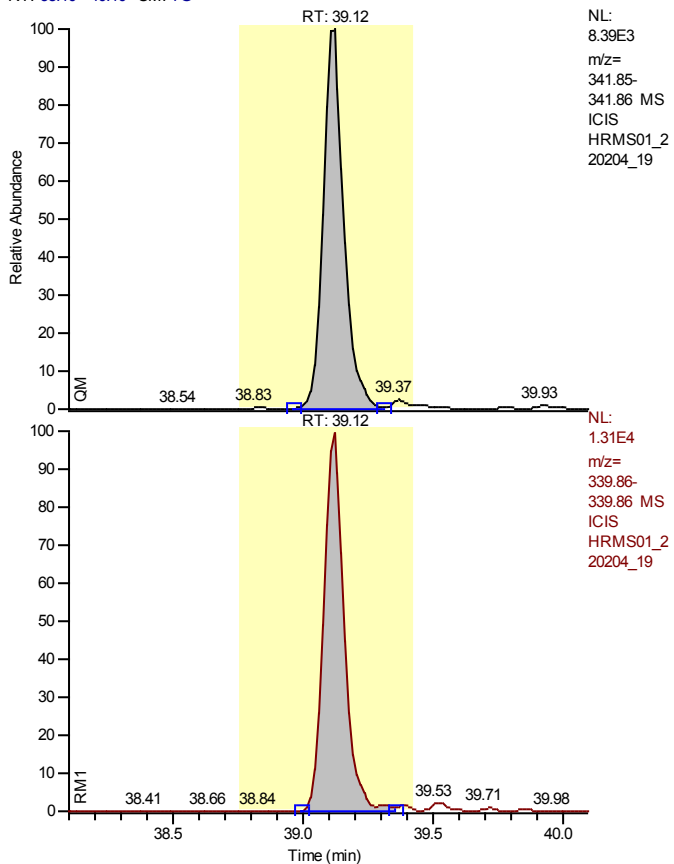
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G



NL:
 8.39E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_19

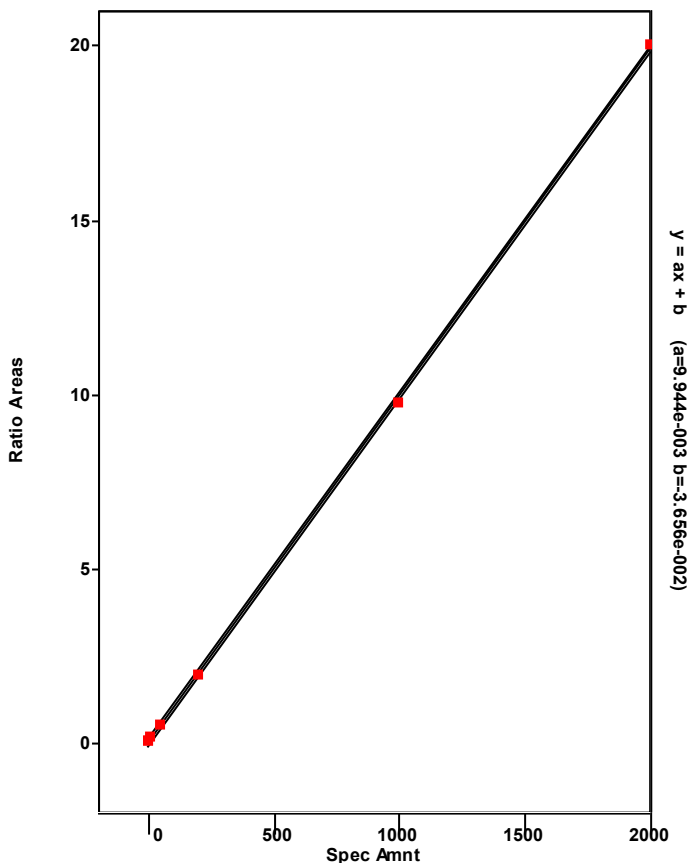
NL:
 1.31E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	46721
RM1 Area	72572
RM1 Ratio (A)	1.5533
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0750
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

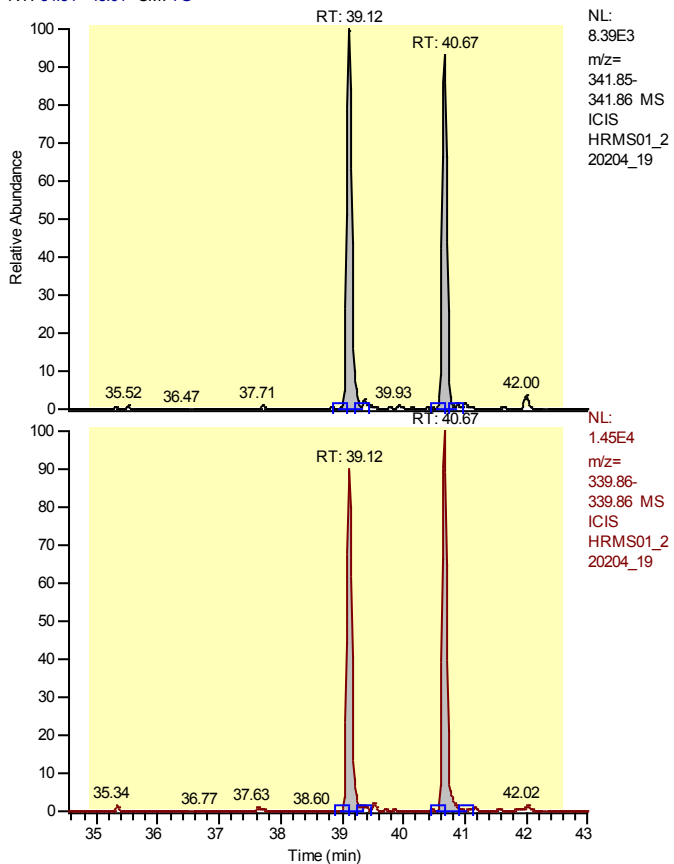
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.54 - 43.01 SM: 7G

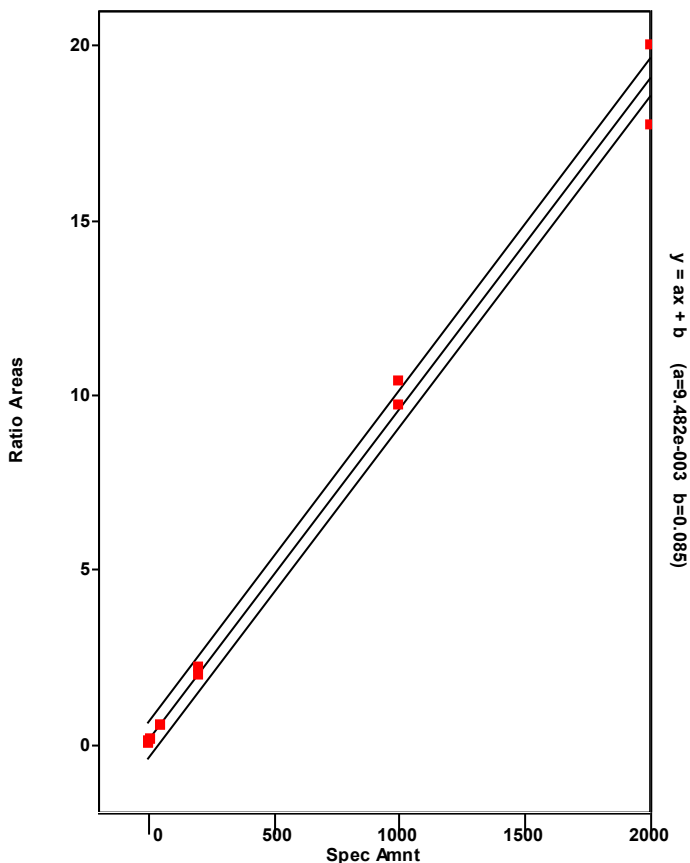


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	88352
RM1 Area	146033
RM1 Ratio (A)	1.6528
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	5.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

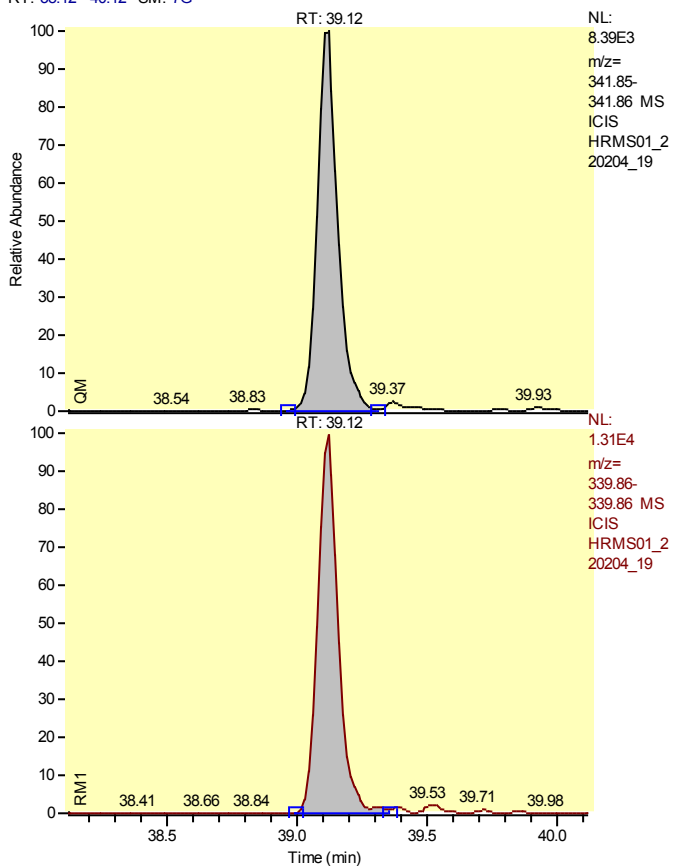
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.12 - 40.12 SM: 7G

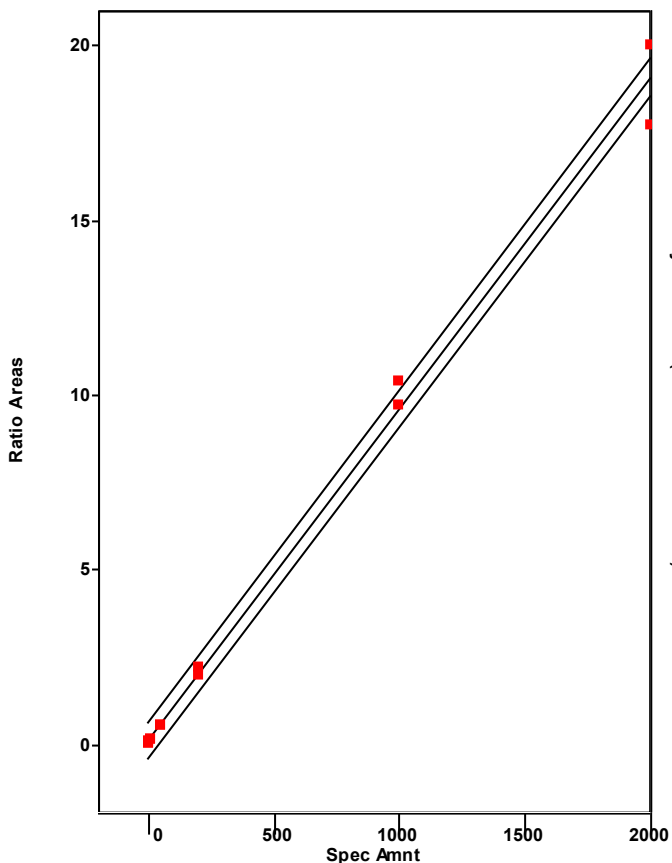


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	46721
RM1 Area	72572
RM1 Ratio (A)	1.5533
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

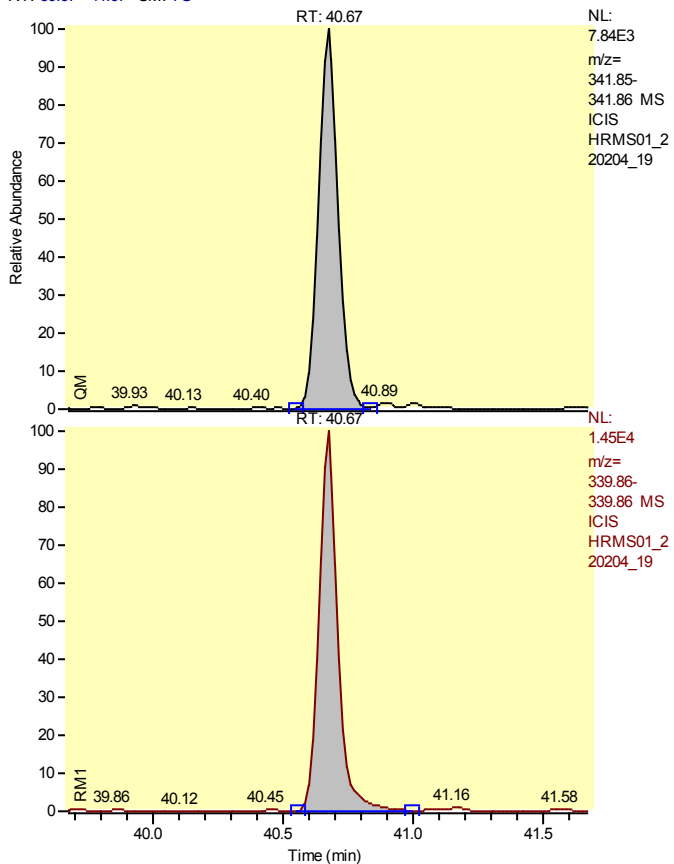
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.67 - 41.67 SM: 7G

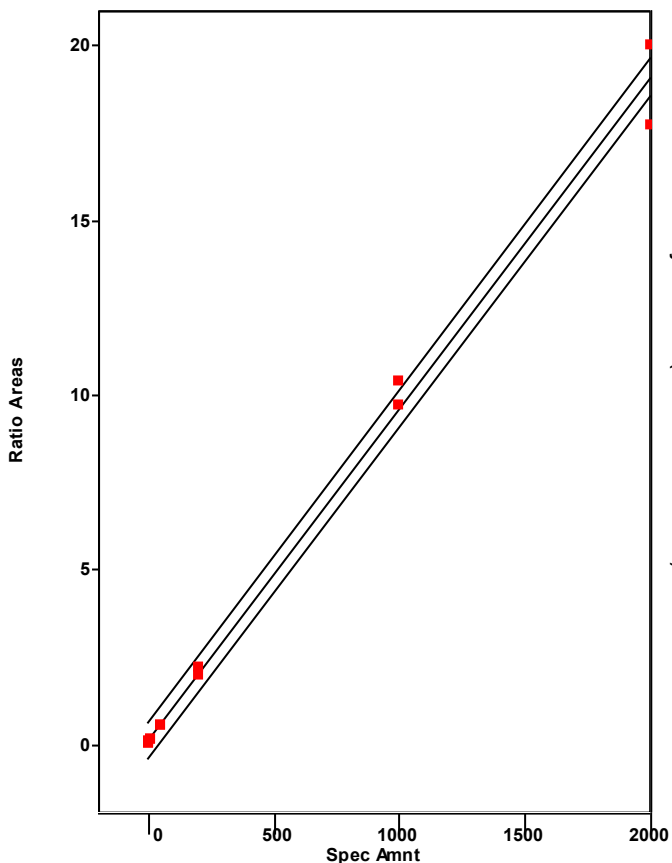


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	41632
RM1 Area	73461
RM1 Ratio (A)	1.7645
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

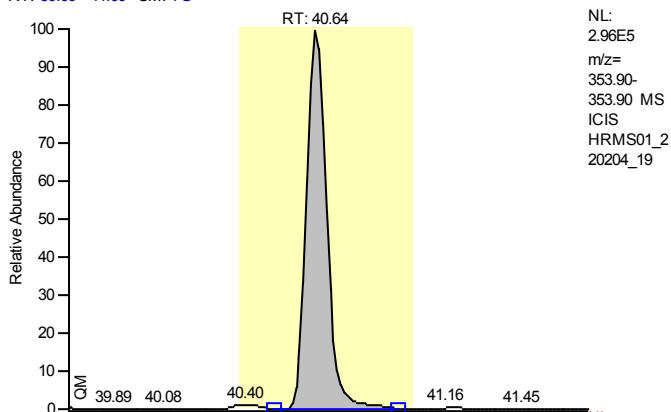
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



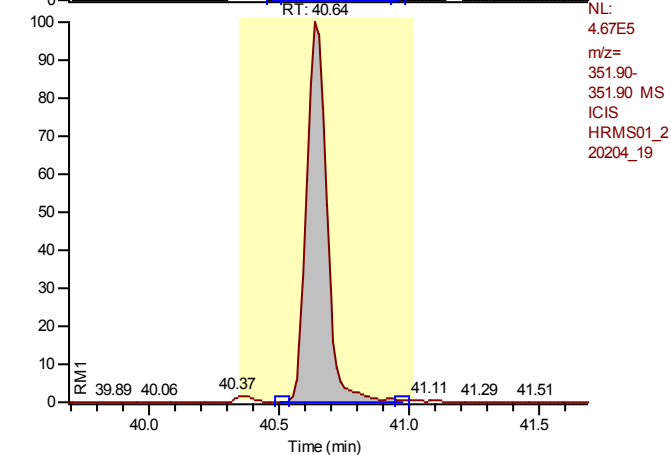
Chromatogram

Entry Parameters

RT: 39.69 - 41.69 SM: 7G



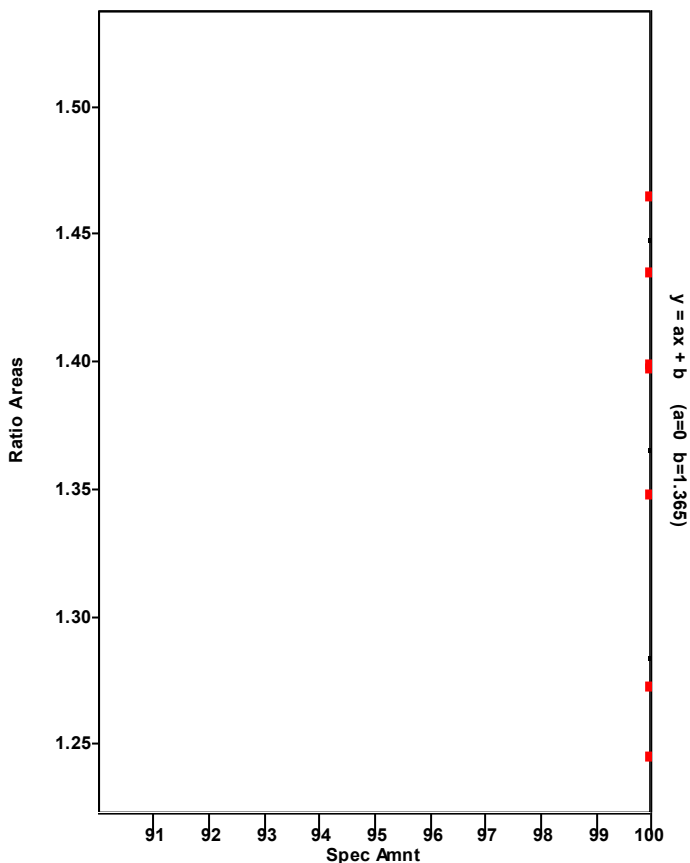
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1572829
RM1 Area	2474146
RM1 Ratio (A)	1.5731
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

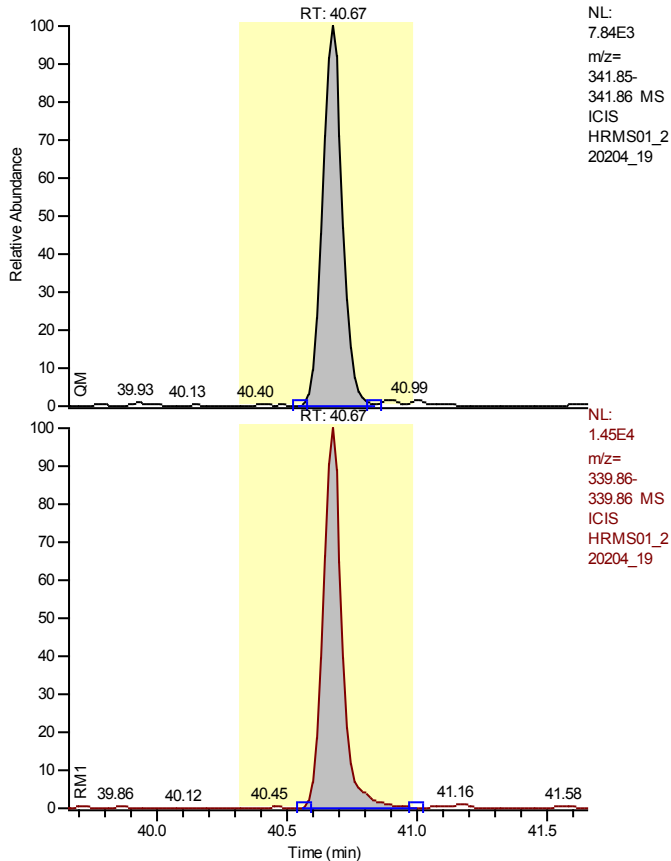
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G

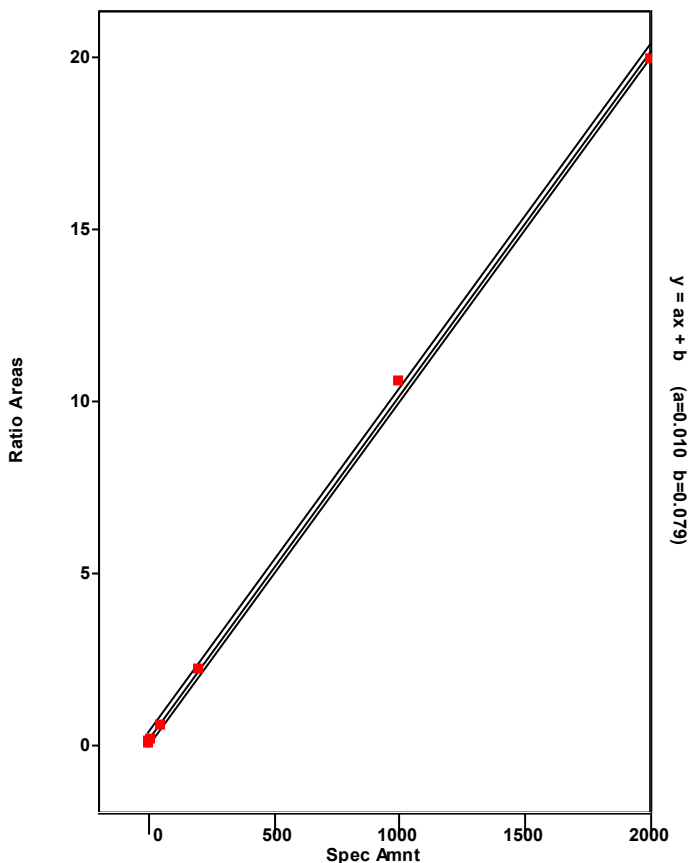


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	41632
RM1 Area	73461
RM1 Ratio (A)	1.7645
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.7500
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

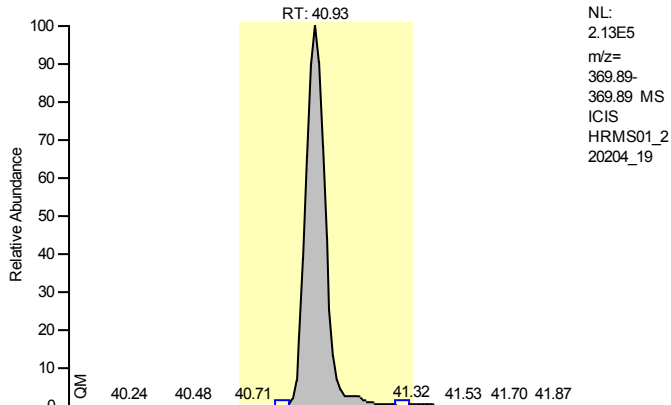
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



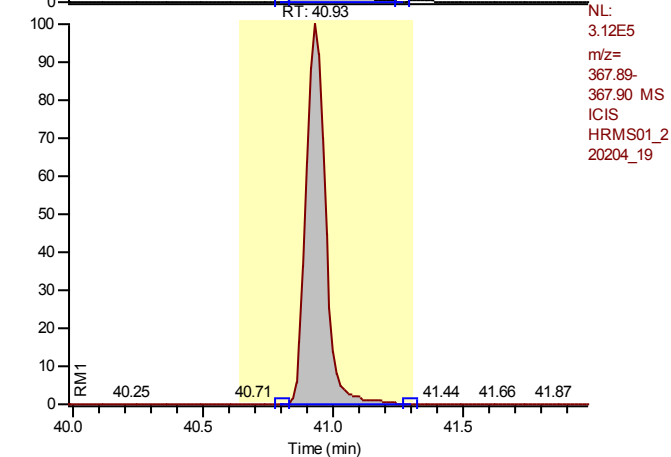
Chromatogram

Entry Parameters

RT: 39.98 - 41.98 SM: 7G



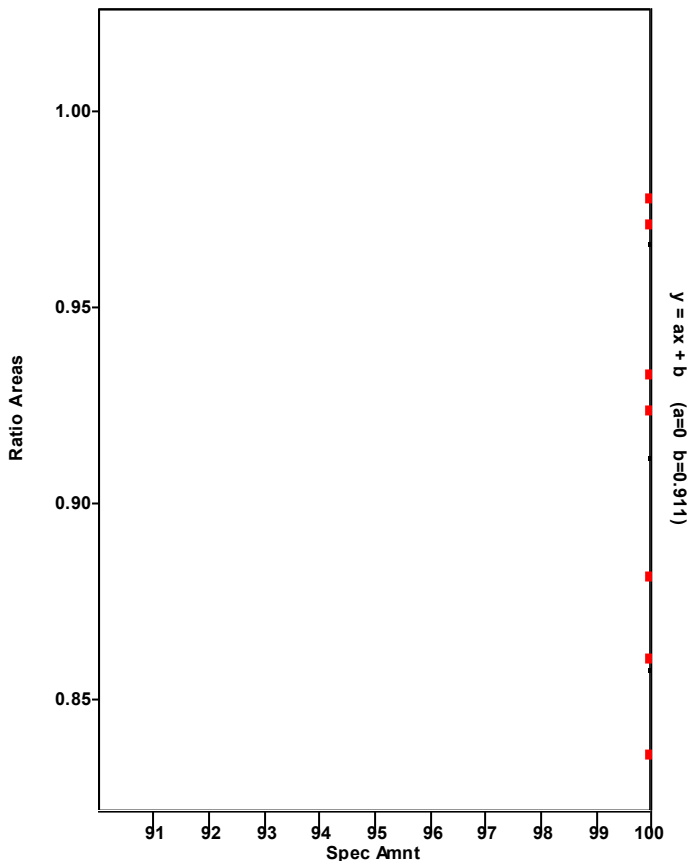
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1114157
RM1 Area	1622446
RM1 Ratio (A)	1.4562
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

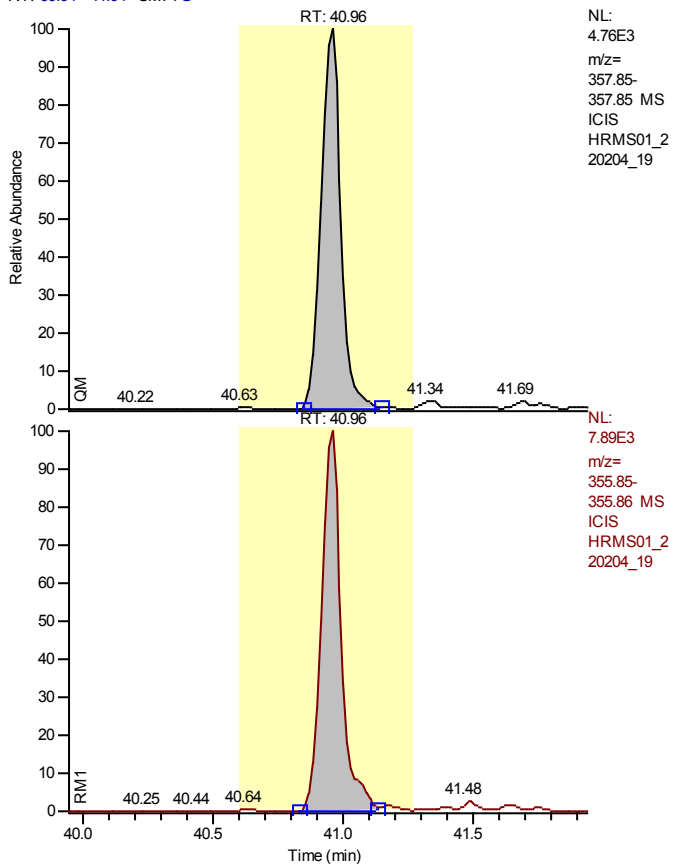
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G

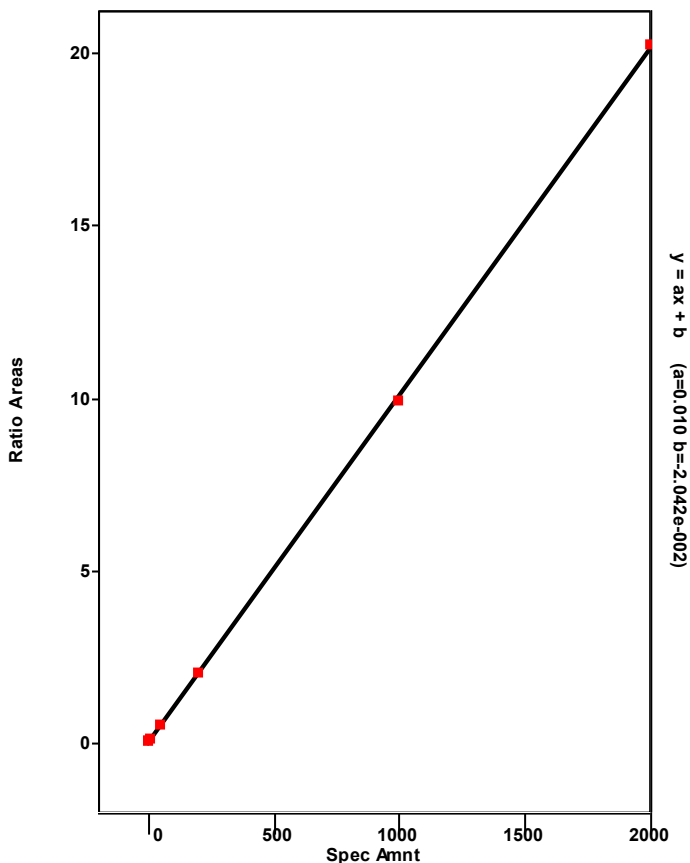


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	24911
RM1 Area	41362
RM1 Ratio (A)	1.6604
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	2.5000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

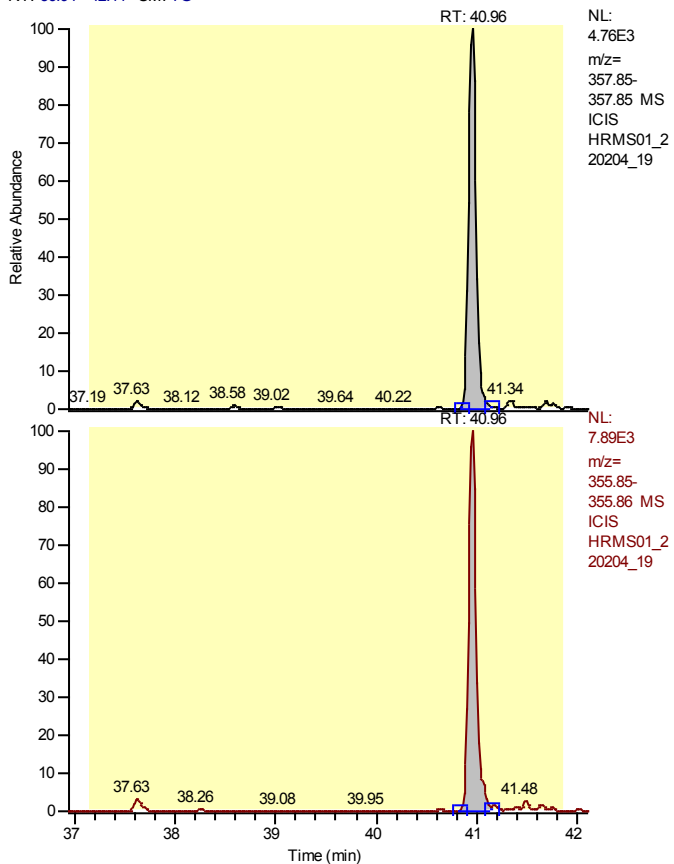
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.94 - 42.11 SM: 7G

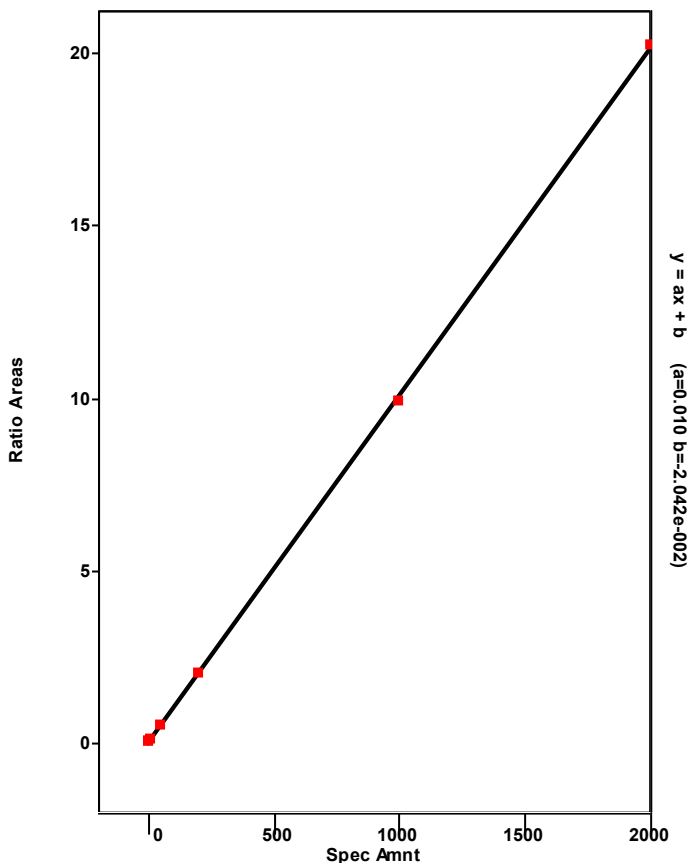


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	24911
RM1 Area	41362
RM1 Ratio (A)	1.6604
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

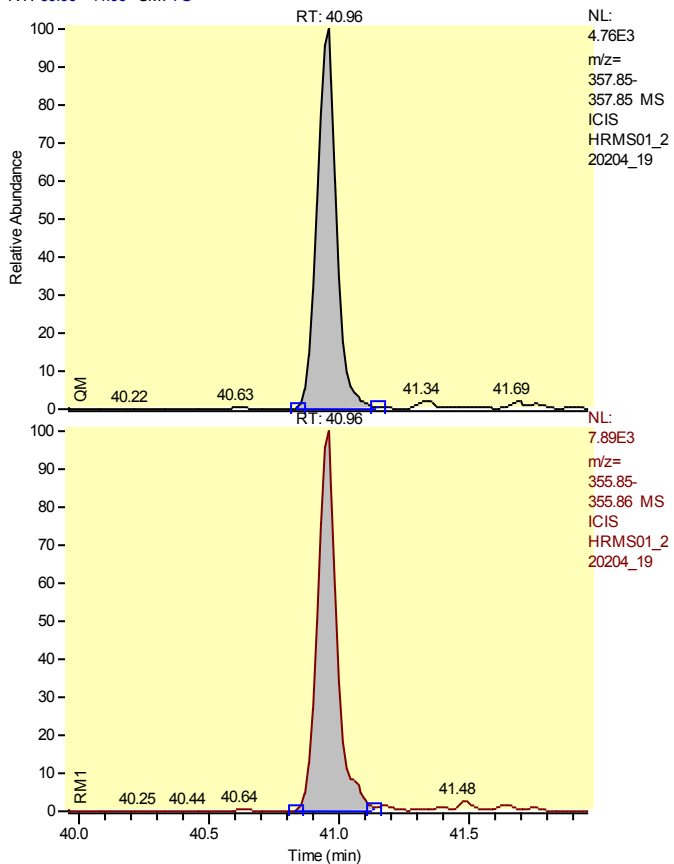
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G

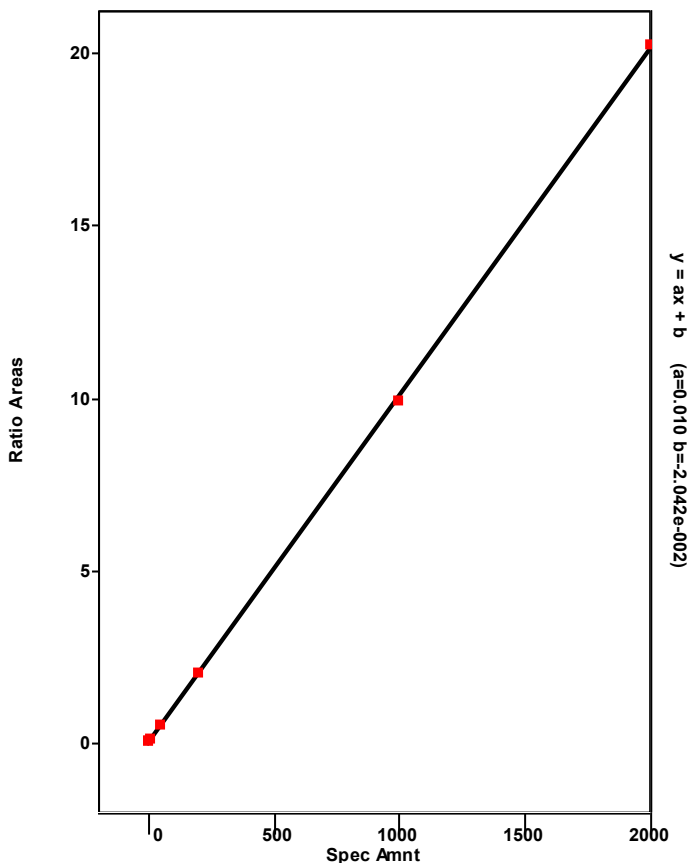


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	24911
RM1 Area	41362
RM1 Ratio (A)	1.6604
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

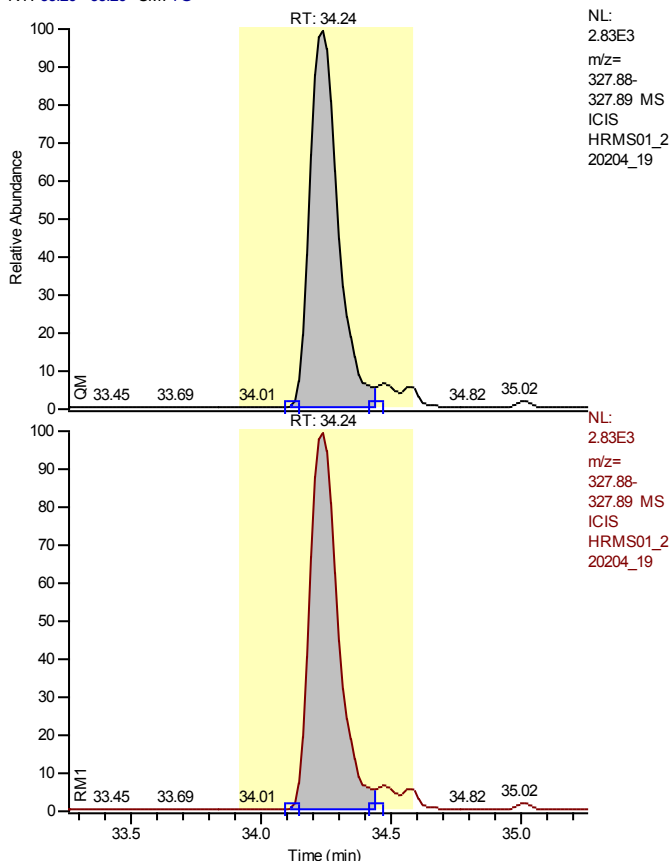
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.26 - 35.26 SM: 7G

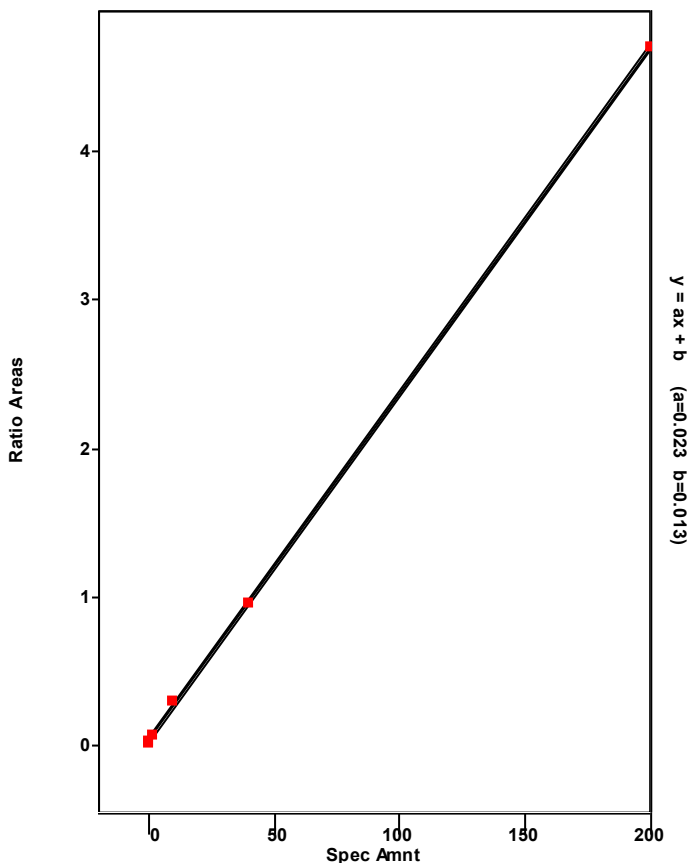


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	21031
RM1 Area	21031
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	0.50
Calculated Amount (A)	0.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

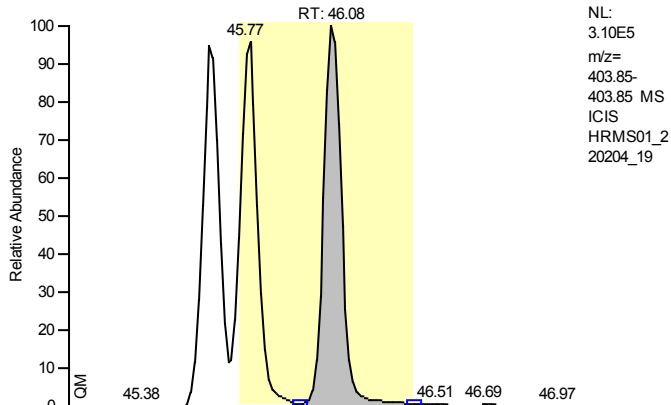
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

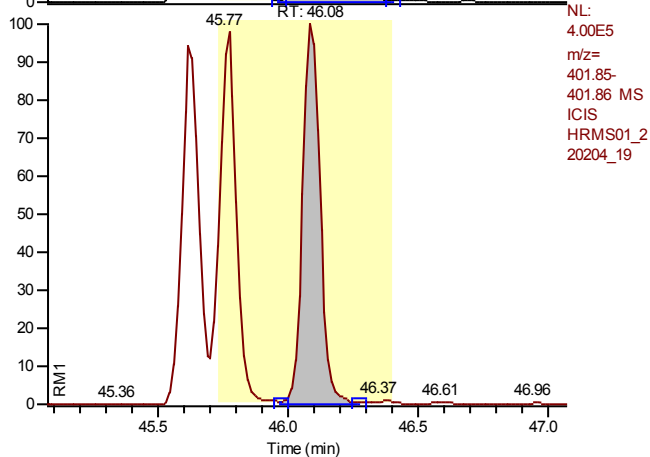
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 3.10E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1495673
RM1 Area	1876622
RM1 Ratio (A)	1.2547
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

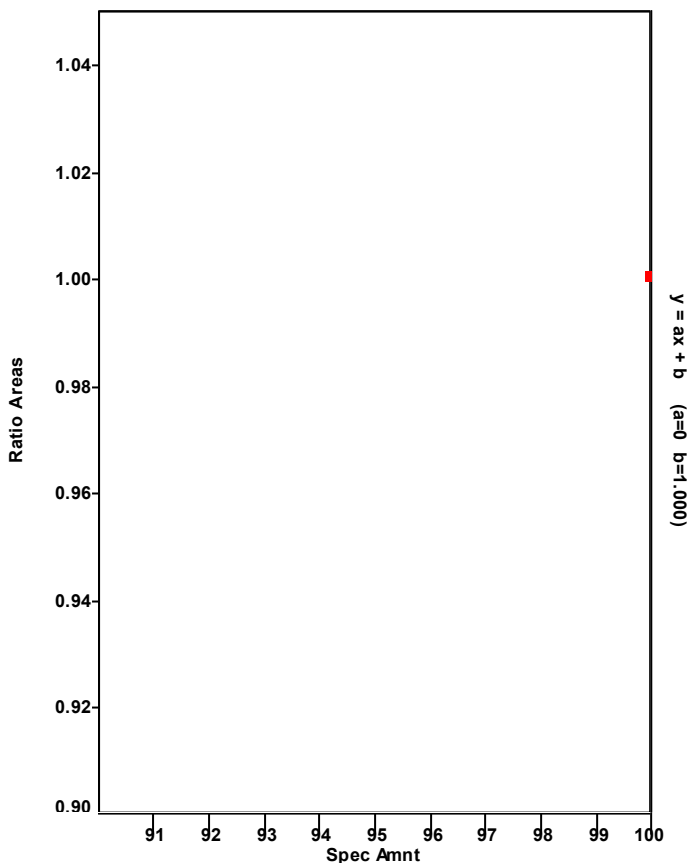


NL:
 4.00E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_19

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

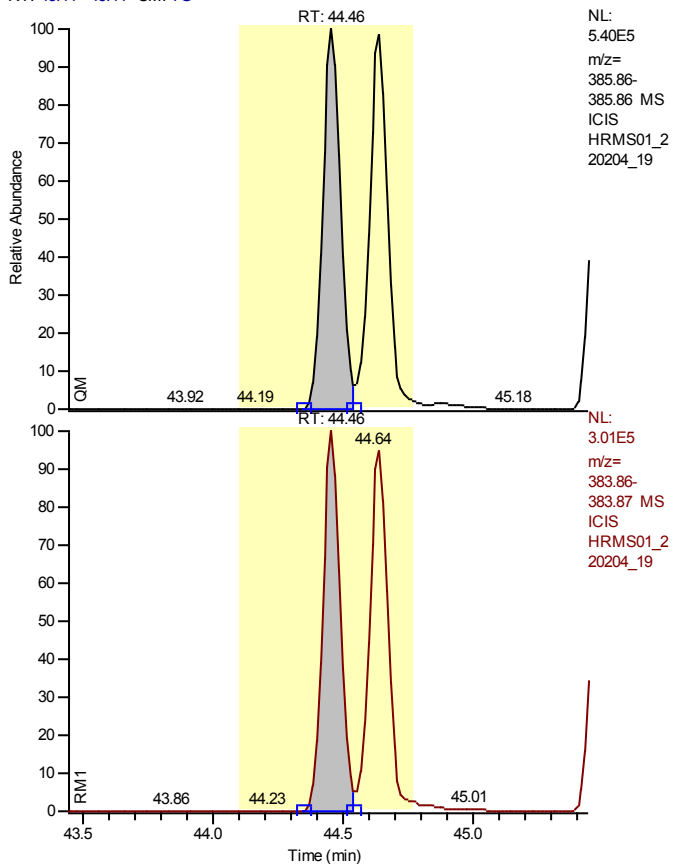
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G

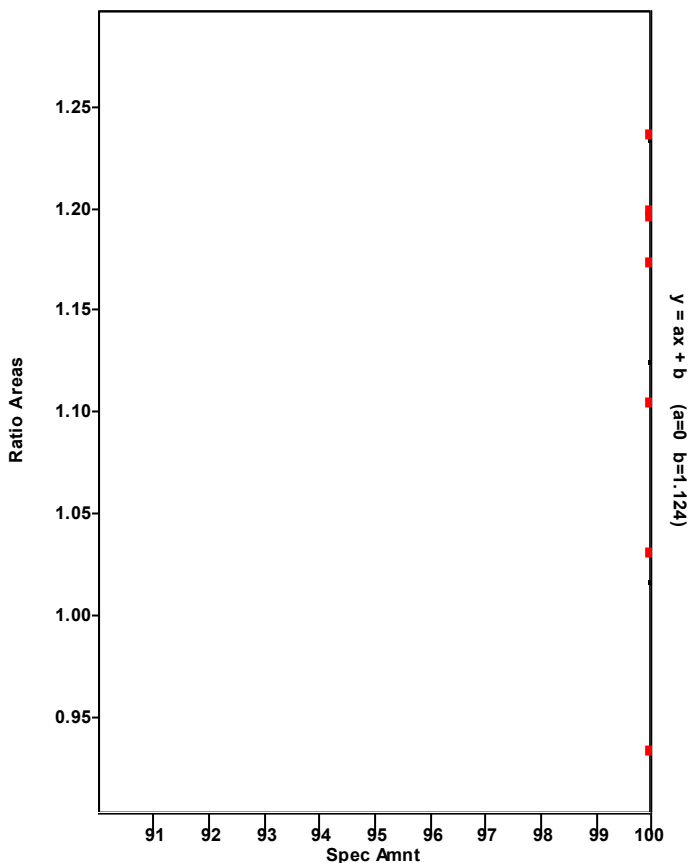


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2558088
RM1 Area	1393411
RM1 Ratio (A)	0.5447
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

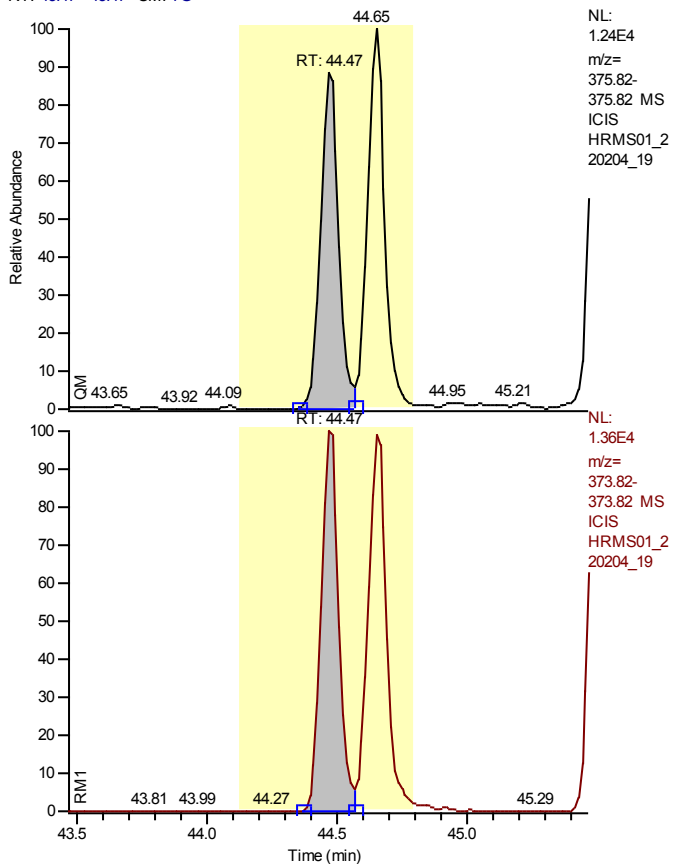
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.47 - 45.47 SM: 7G

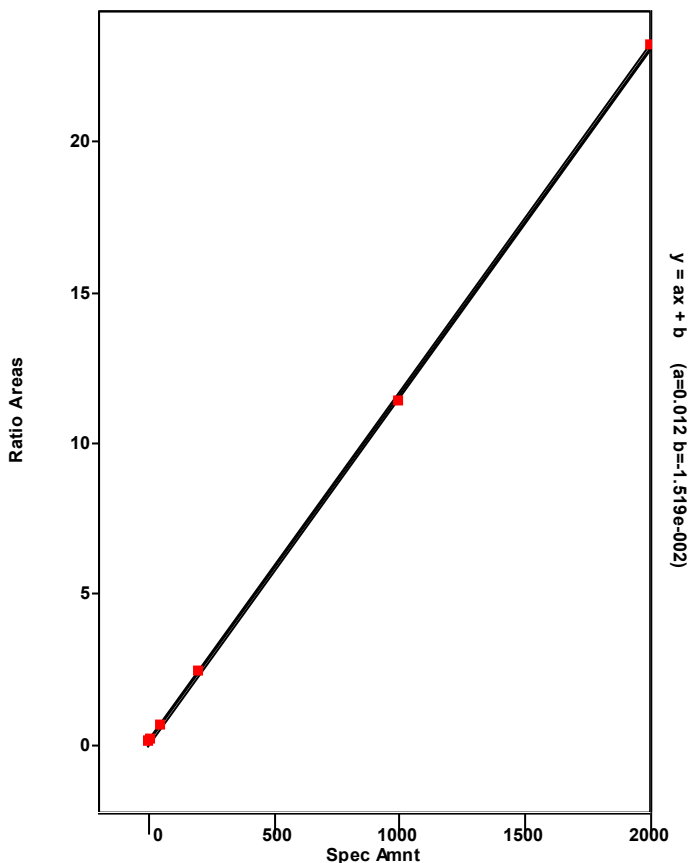


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	52217
RM1 Area	63577
RM1 Ratio (A)	1.2175
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

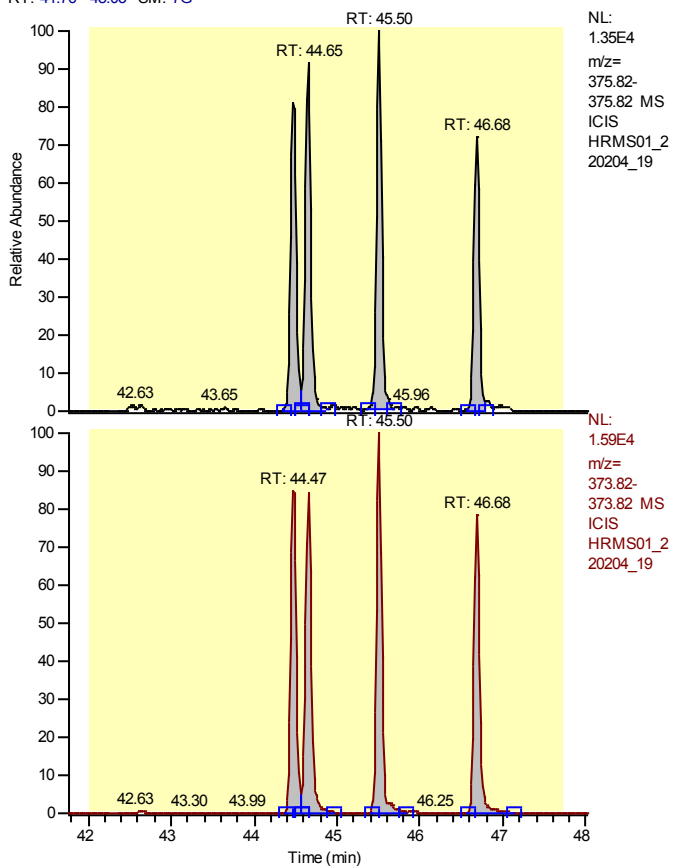
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.76 - 48.03 SM: 7G

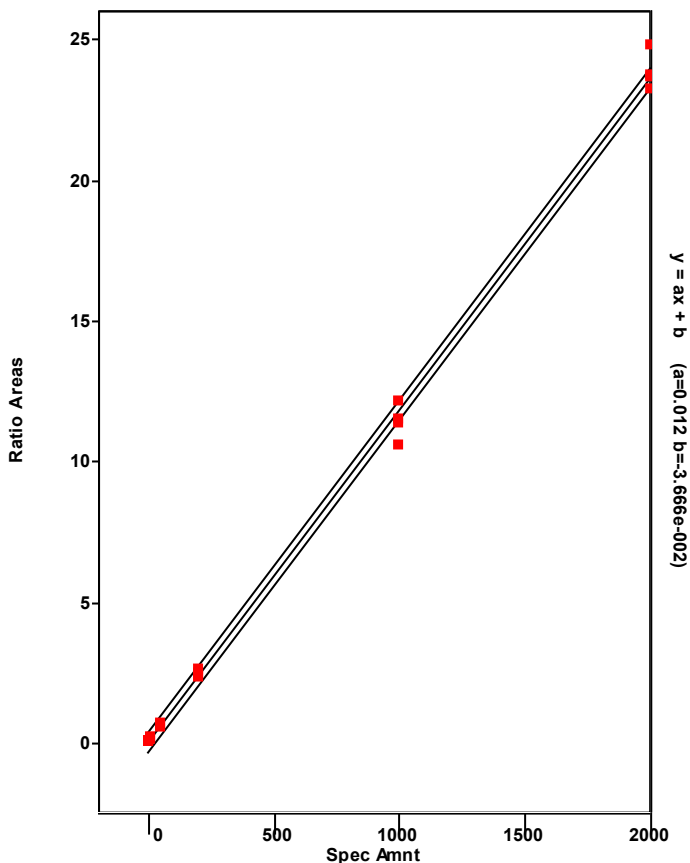


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	215616
RM1 Area	265603
RM1 Ratio (A)	1.2318
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	10.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

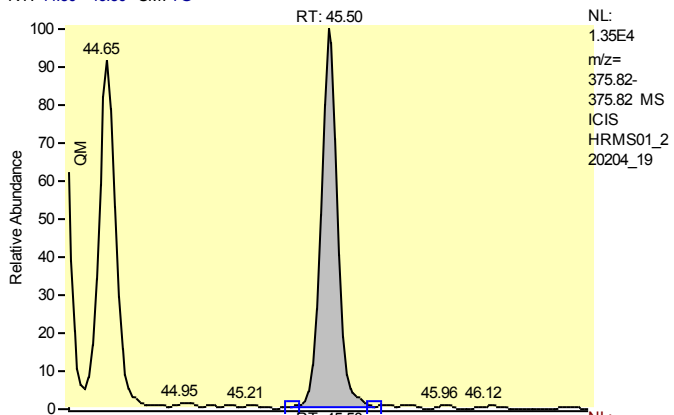
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



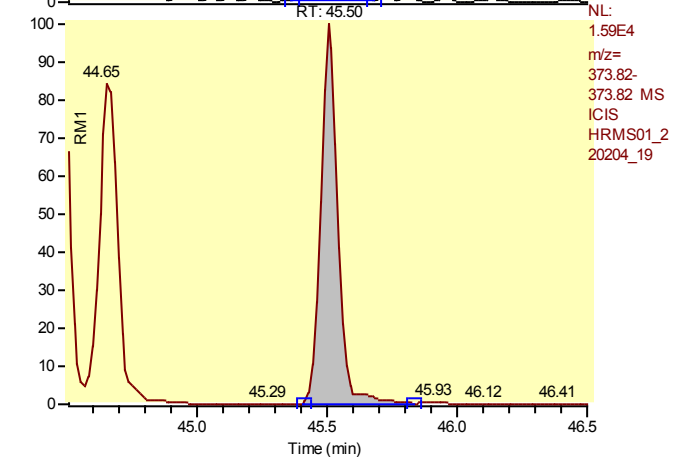
Chromatogram

Entry Parameters

RT: 44.50 - 46.50 SM: 7G



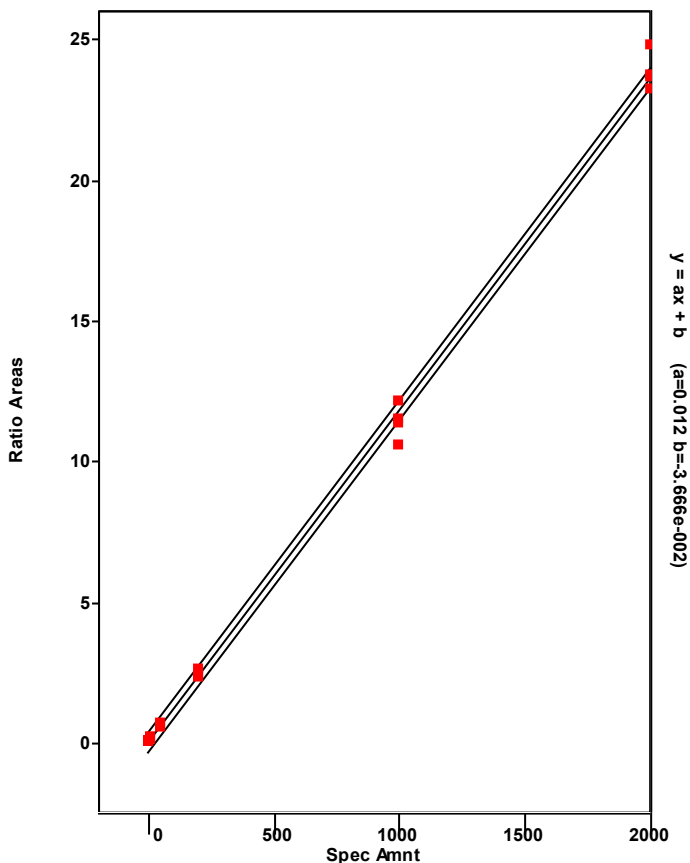
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	59632
RM1 Area	72245
RM1 Ratio (A)	1.2115
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

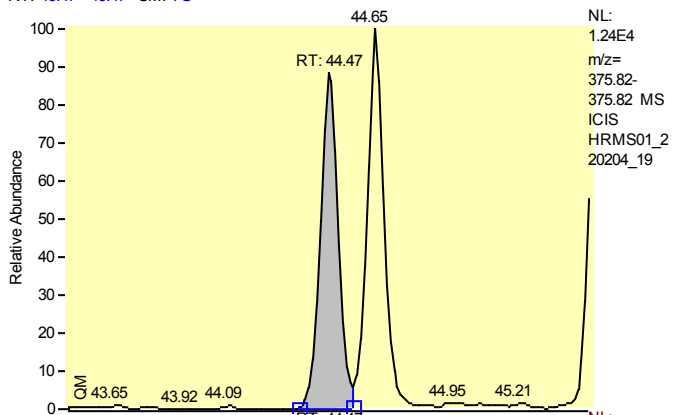
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



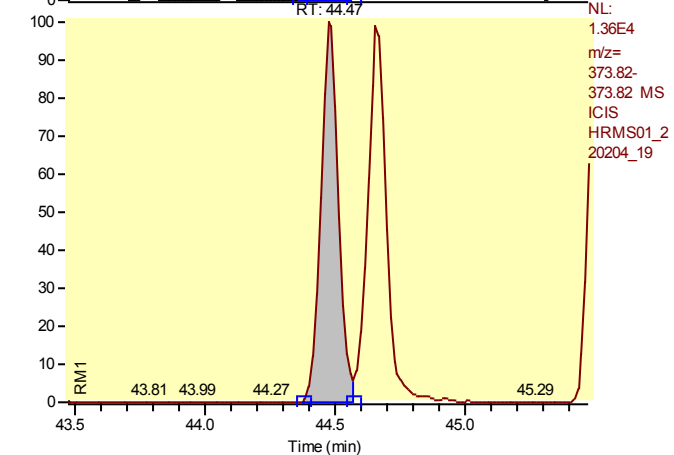
Chromatogram

Entry Parameters

RT: 43.47 - 45.47 SM: 7G



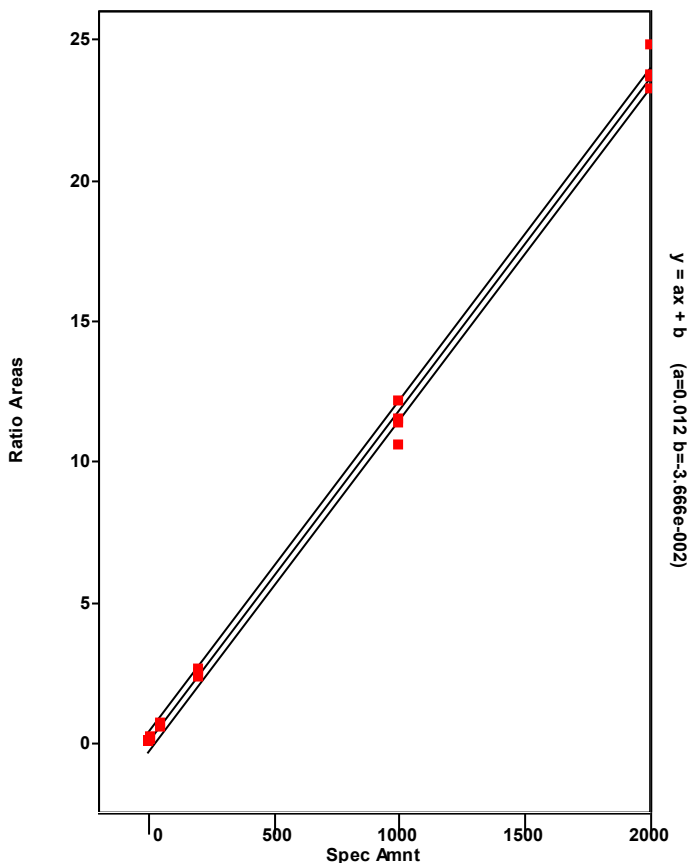
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	52217
RM1 Area	63577
RM1 Ratio (A)	1.2175
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

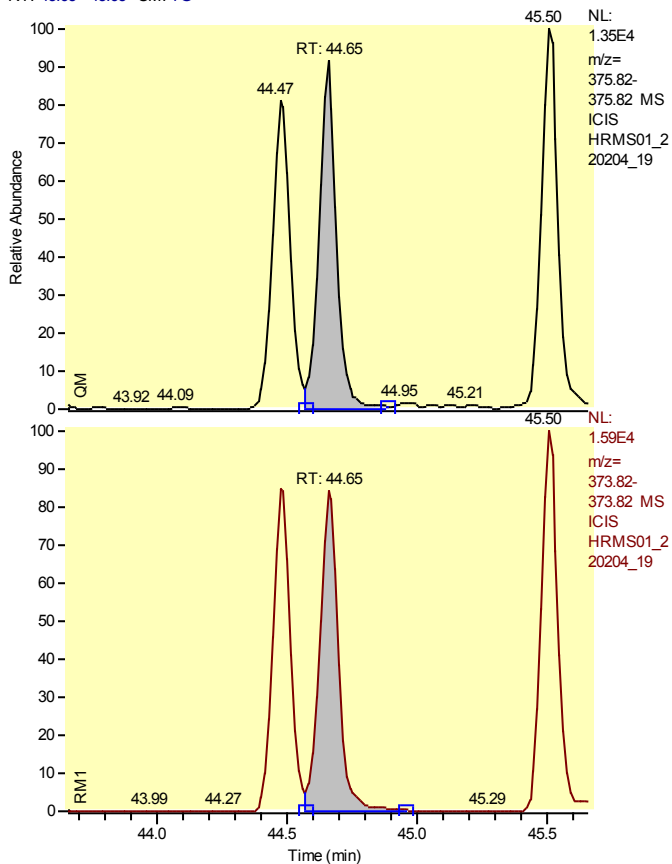
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

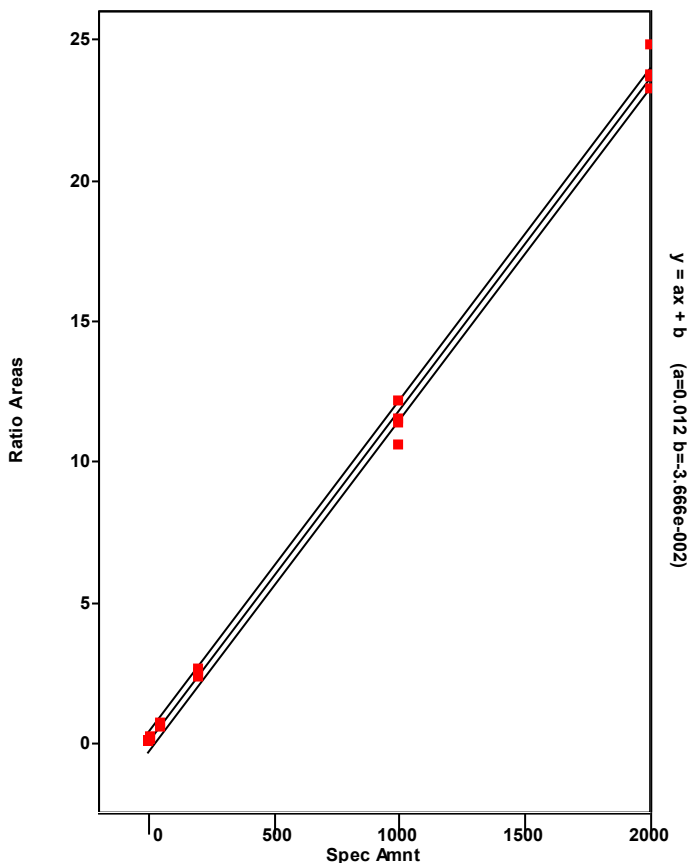


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	56350
RM1 Area	67100
RM1 Ratio (A)	1.1908
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

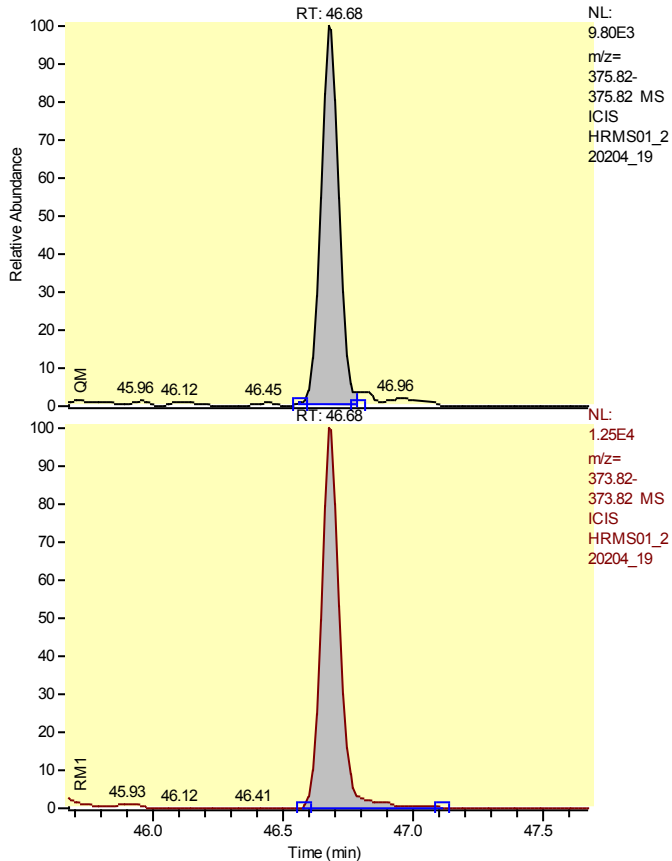
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G



NL:
 9.80E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_19

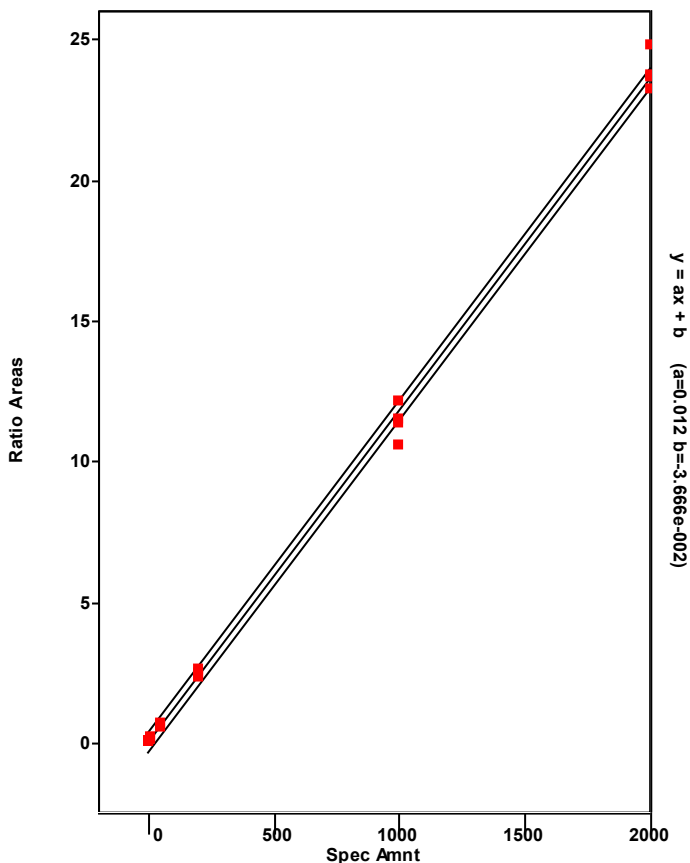
NL:
 1.25E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	47417
RM1 Area	62680
RM1 Ratio (A)	1.3219
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

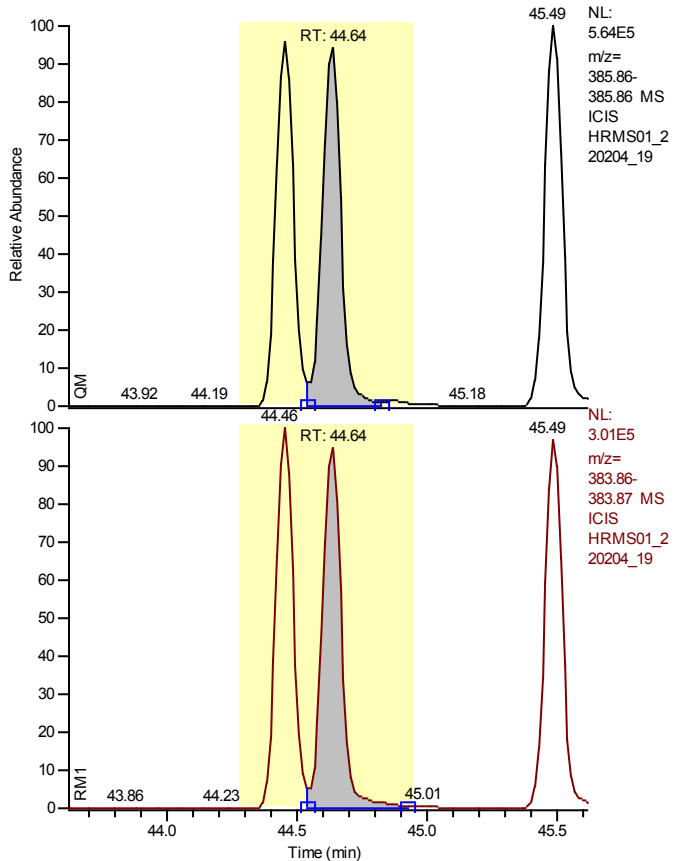
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

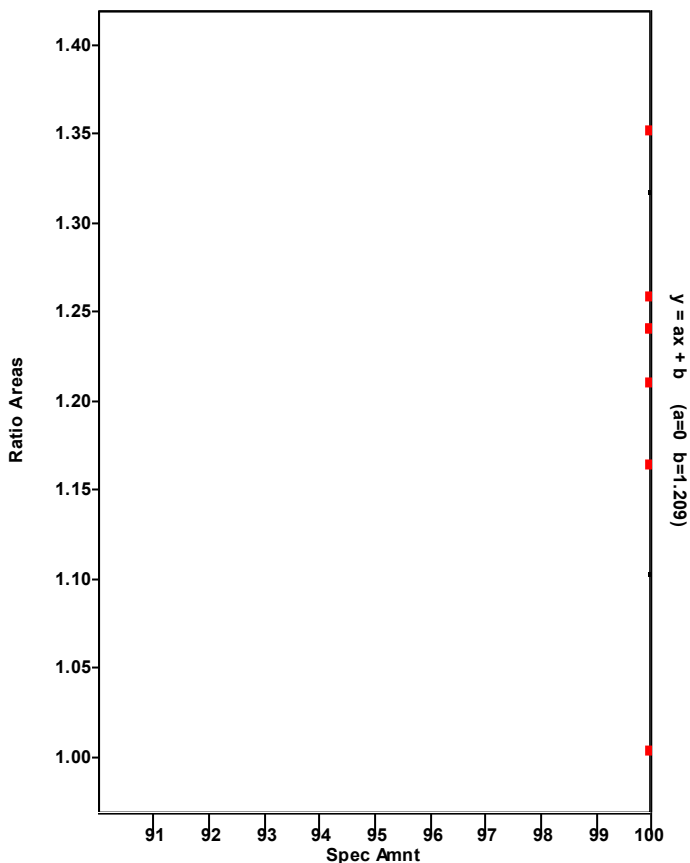


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	2628232
RM1 Area	1448178
RM1 Ratio (A)	0.5510
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

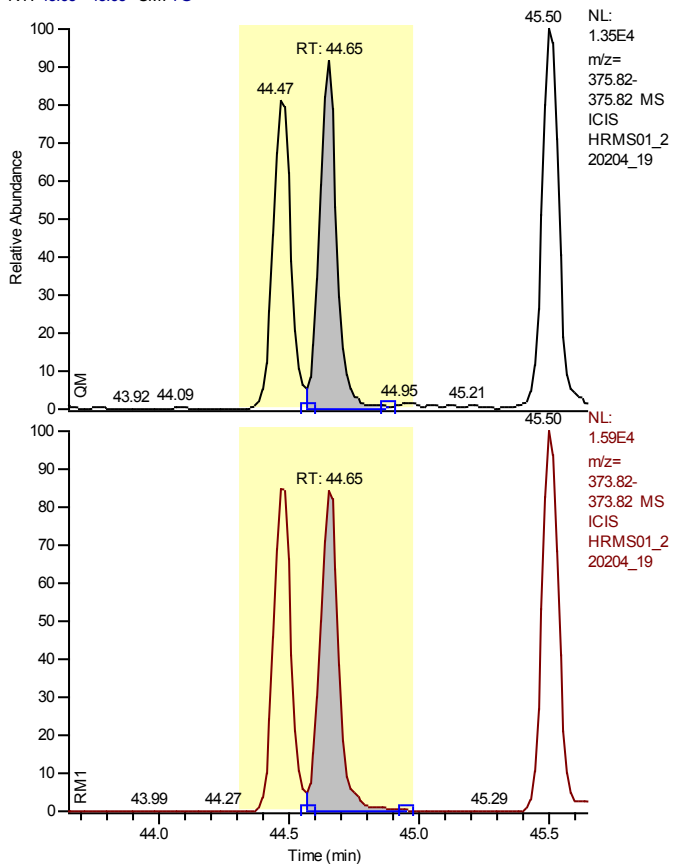
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

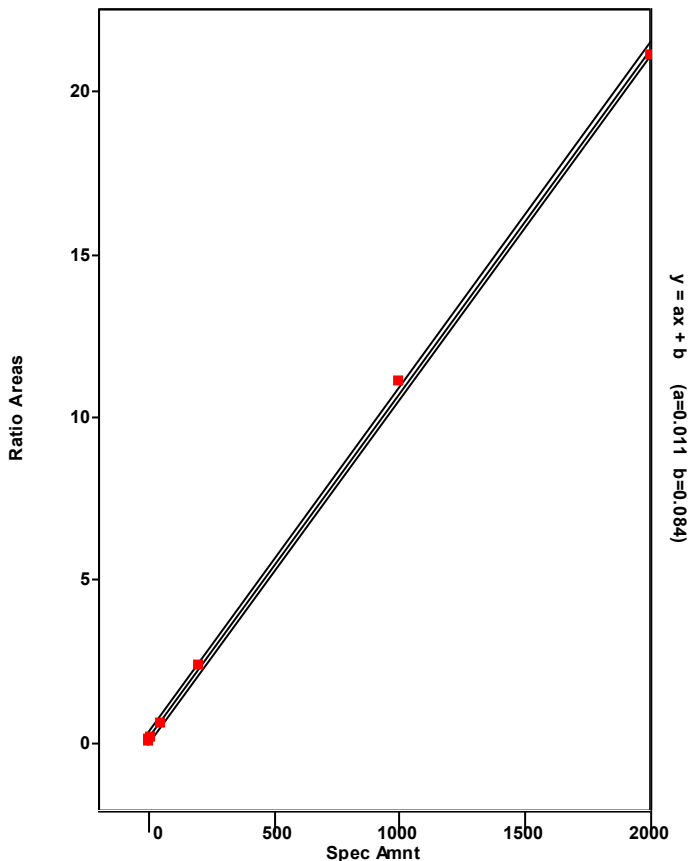


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	56350
RM1 Area	67100
RM1 Ratio (A)	1.1908
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

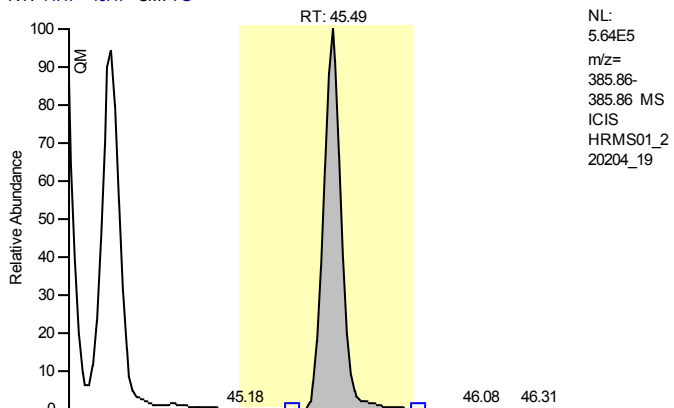
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

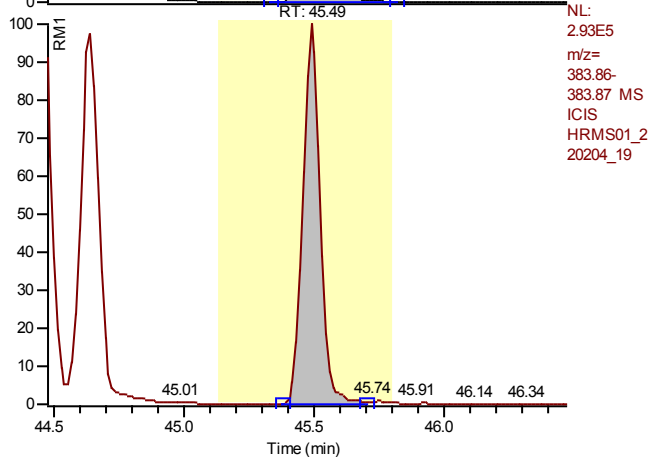
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
 5.64E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2703520
RM1 Area	1374672
RM1 Ratio (A)	0.5085
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

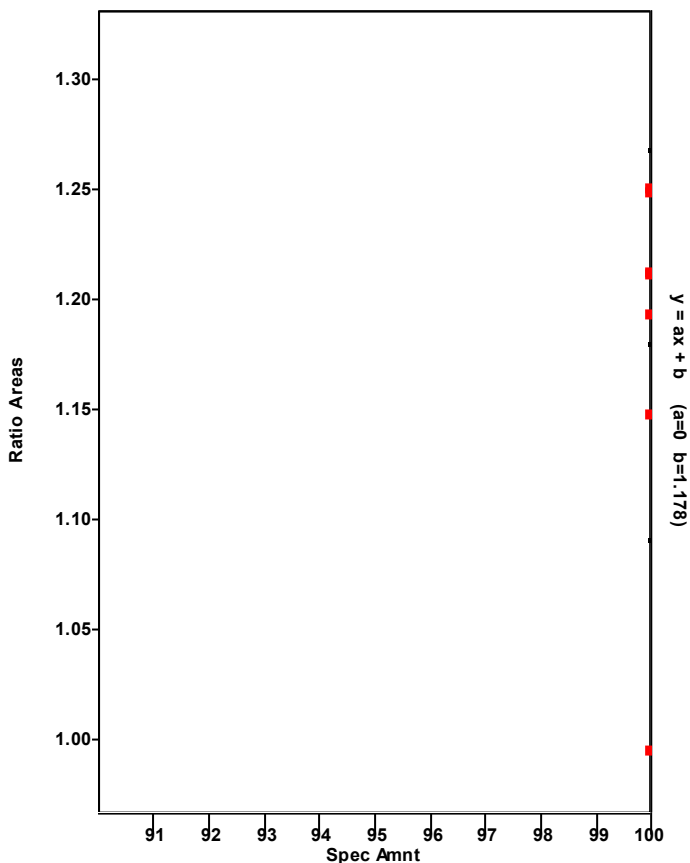


NL:
 2.93E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_19

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

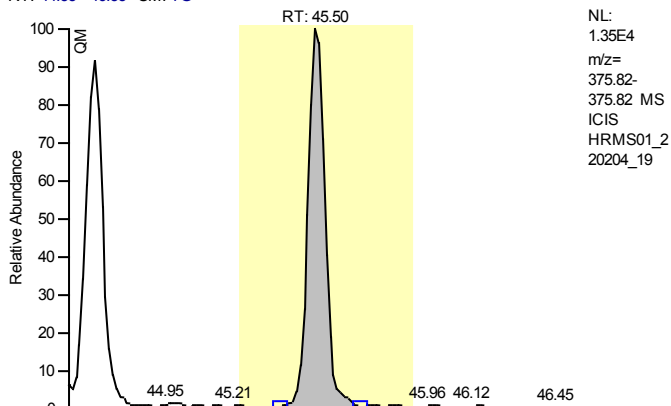
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

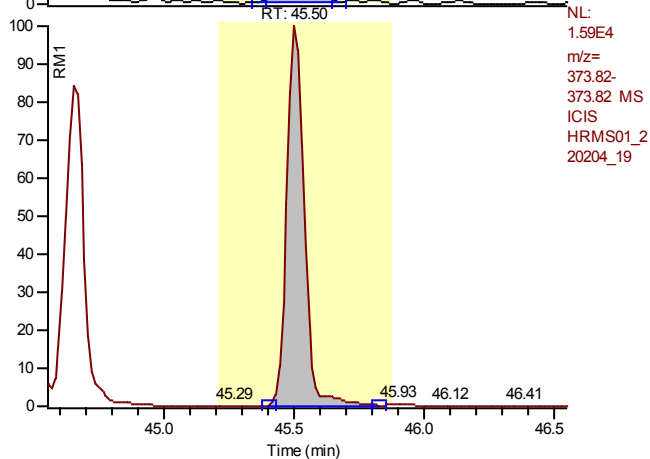
Entry Parameters

RT: 44.55 - 46.55 SM: 7G



NL:
 1.35E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	59632
RM1 Area	72245
RM1 Ratio (A)	1.2115
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

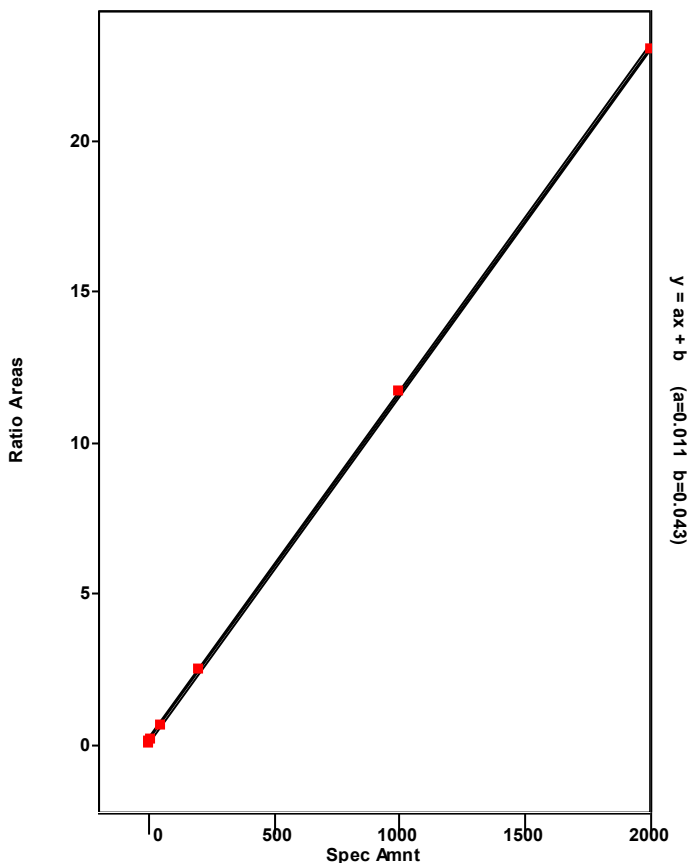


NL:
 1.59E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_19

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

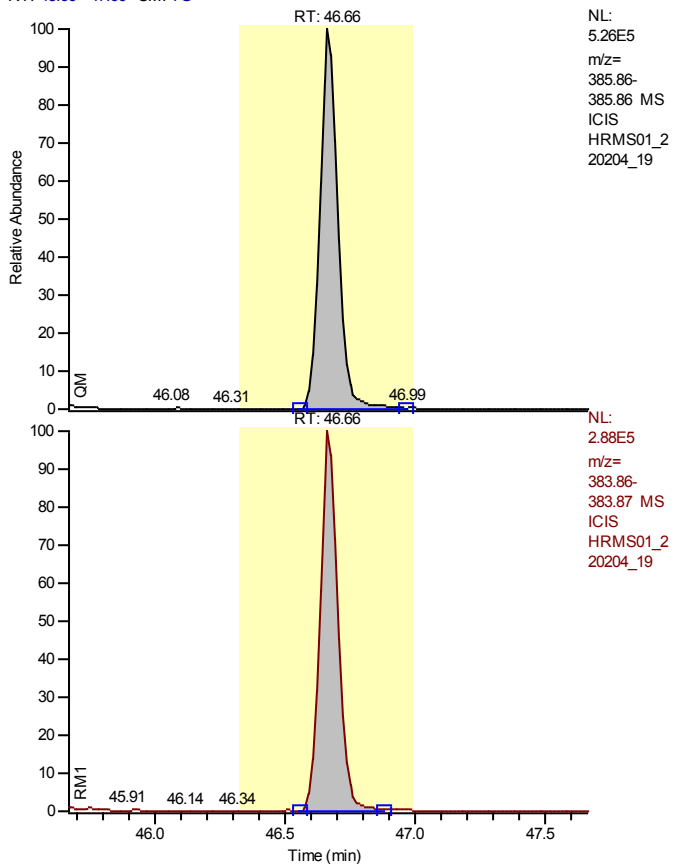
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



NL:
 5.26E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_19

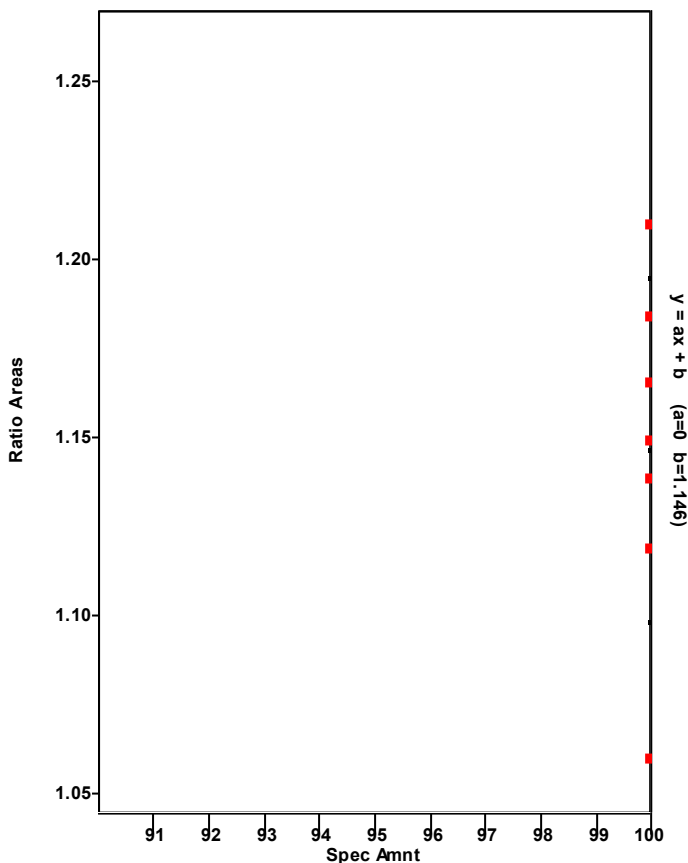
NL:
 2.88E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	2546679
RM1 Area	1381124
RM1 Ratio (A)	0.5423
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

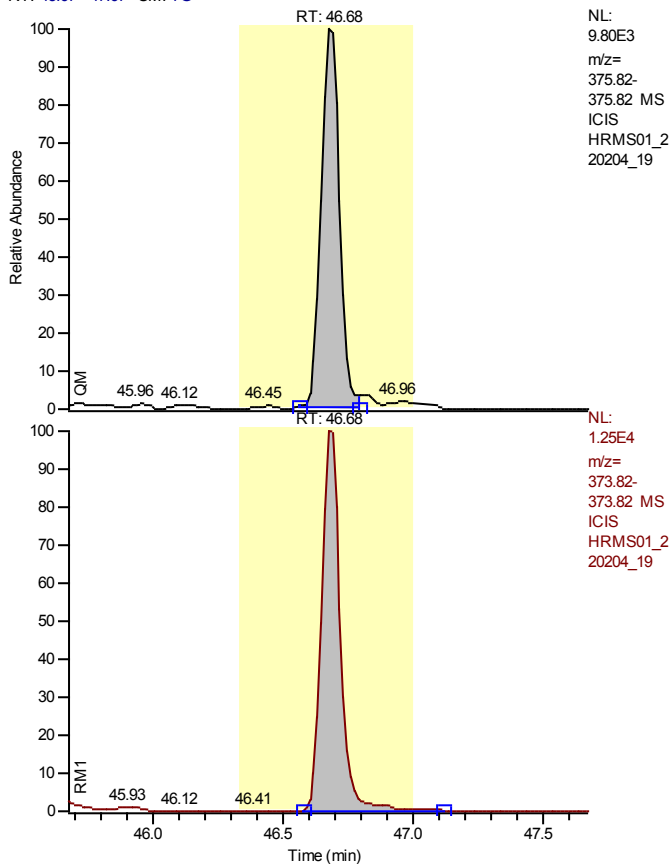
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G



NL:
 9.80E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_19

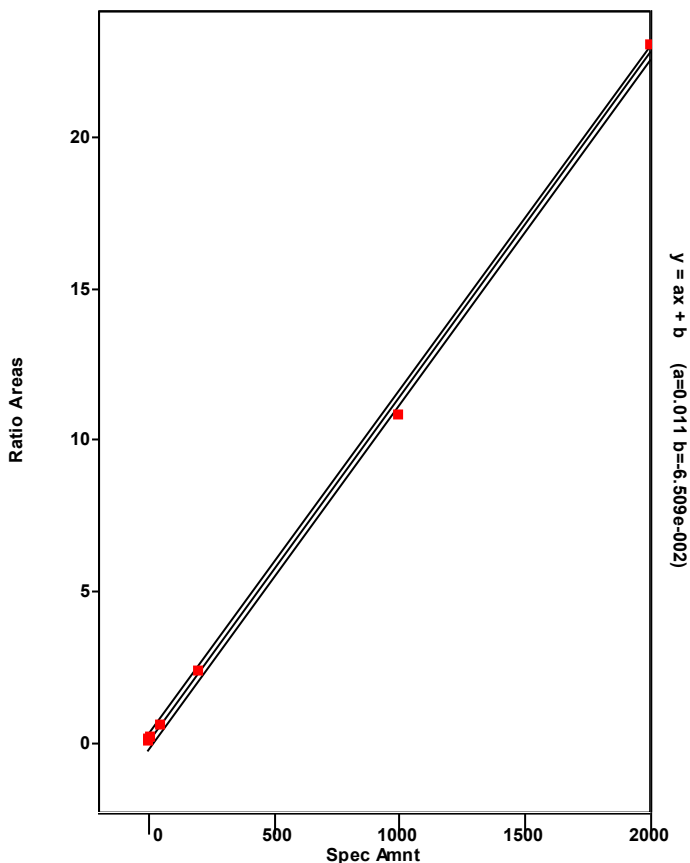
NL:
 1.25E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	47417
RM1 Area	62680
RM1 Ratio (A)	1.3219
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

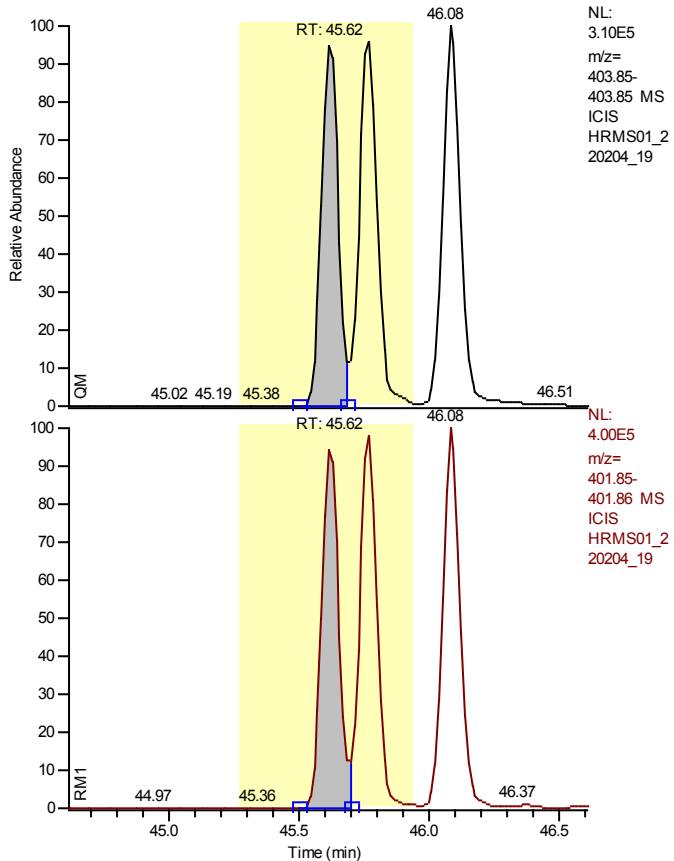
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

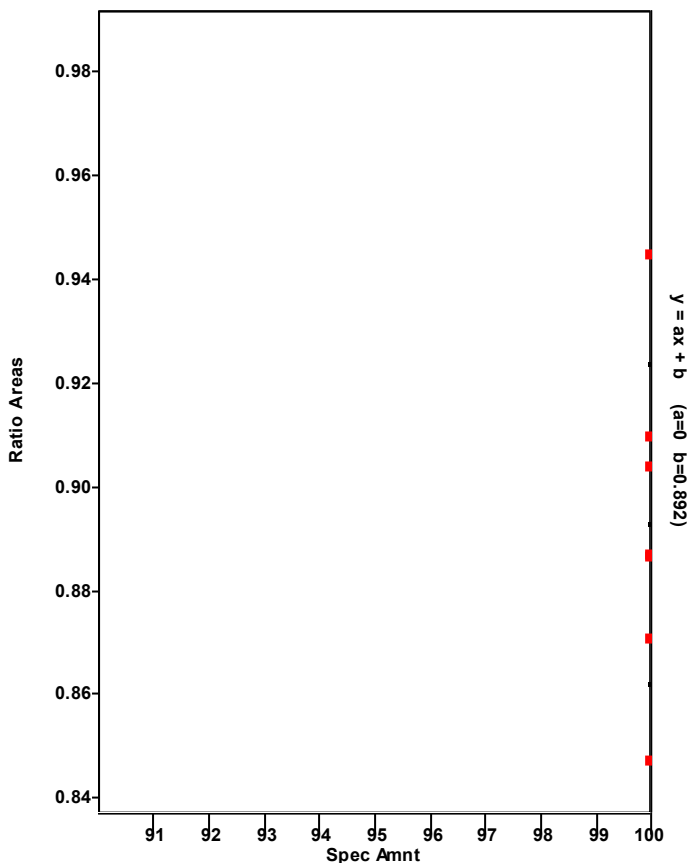
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1324679
RM1 Area	1741246
RM1 Ratio (A)	1.3145
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

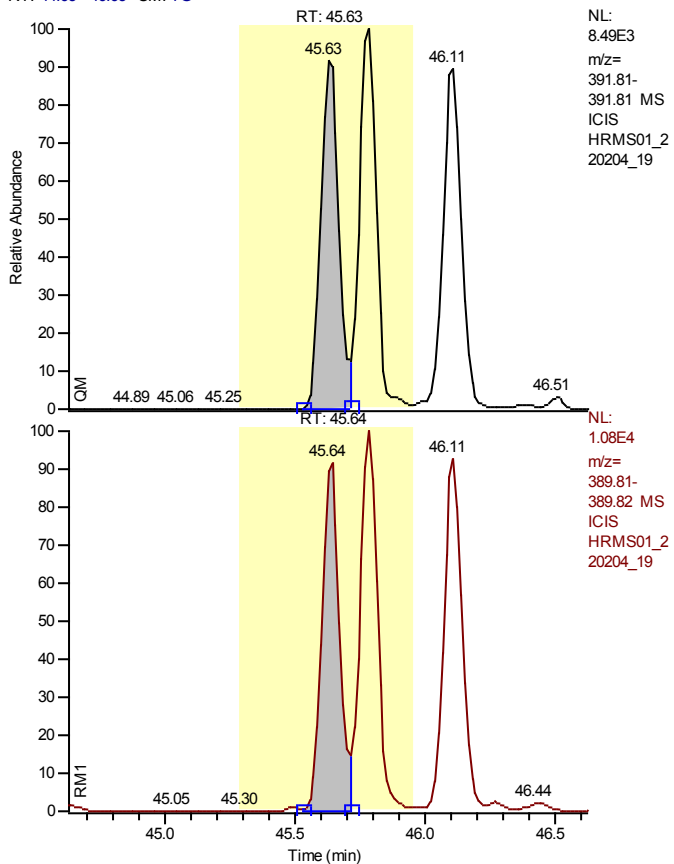
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G

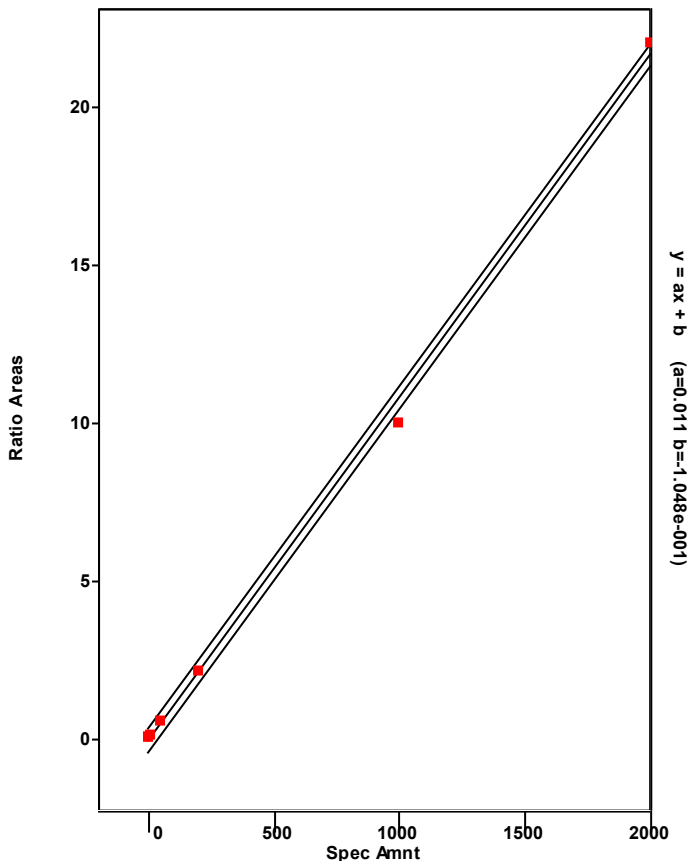


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	37284
RM1 Area	46302
RM1 Ratio (A)	1.2419
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

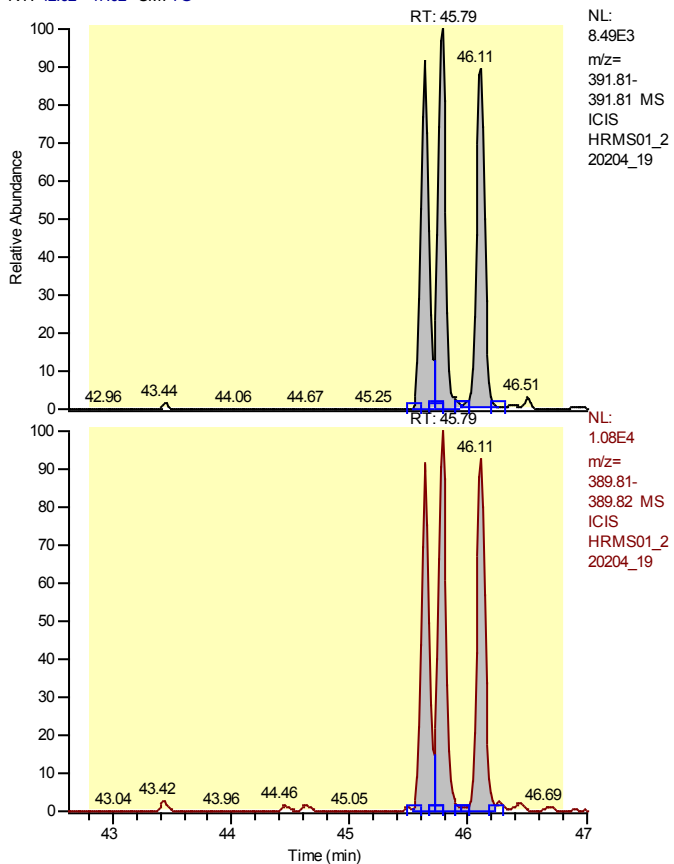
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.62 - 47.02 SM: 7G

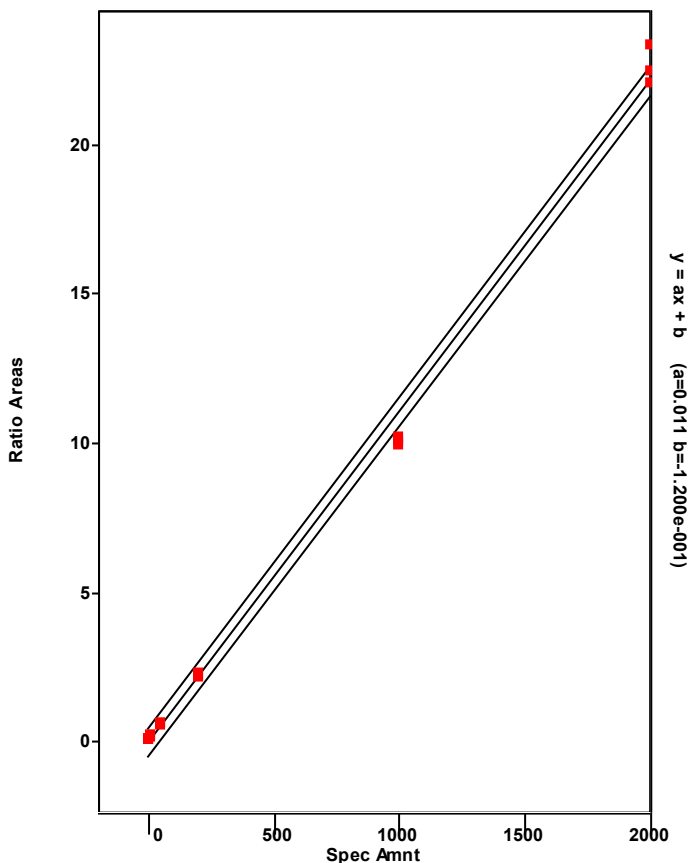


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	112129
RM1 Area	144661
RM1 Ratio (A)	1.2901
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	7.50
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

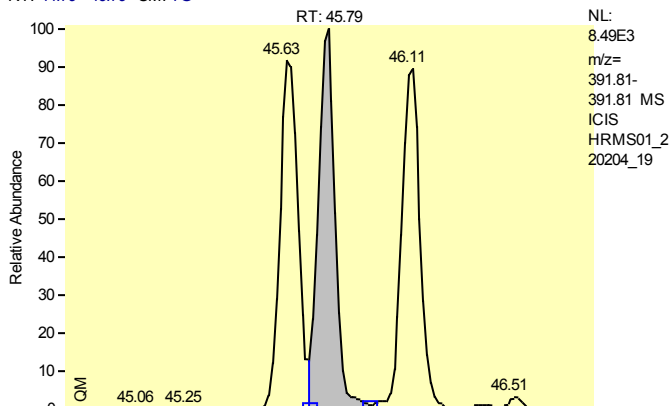
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



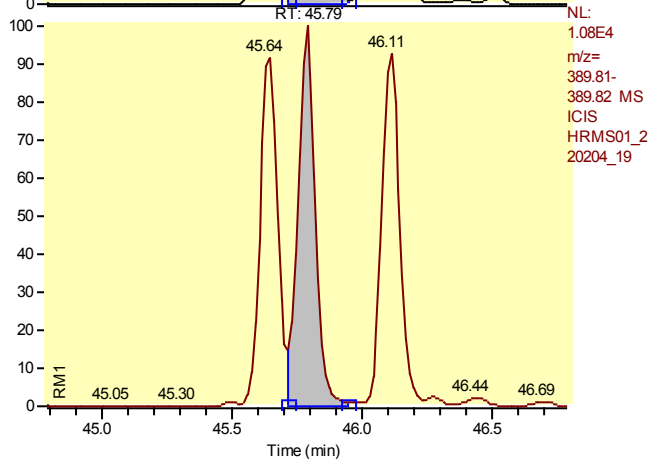
Chromatogram

Entry Parameters

RT: 44.79 - 46.79 SM: 7G



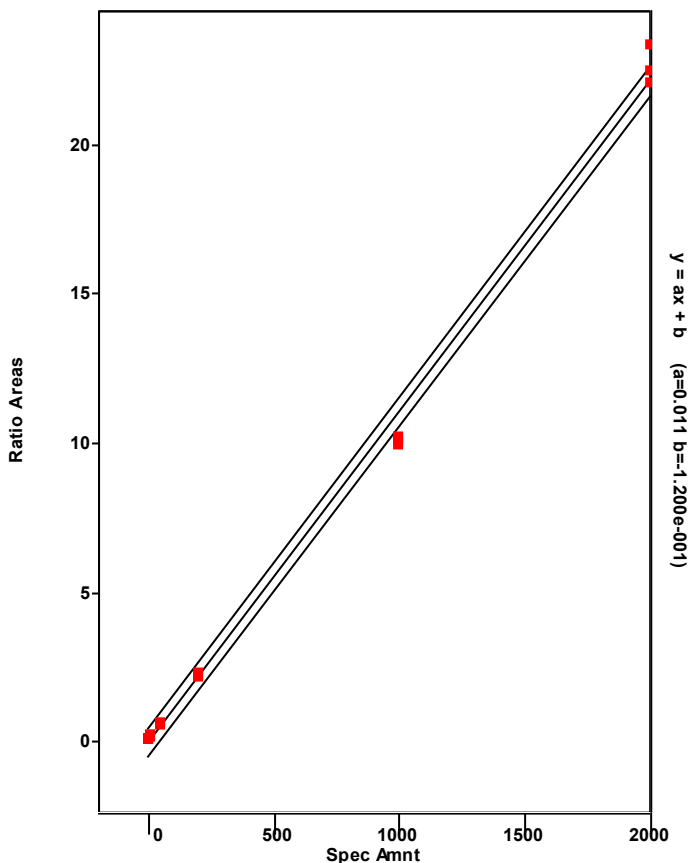
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	37909
RM1 Area	49836
RM1 Ratio (A)	1.3146
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

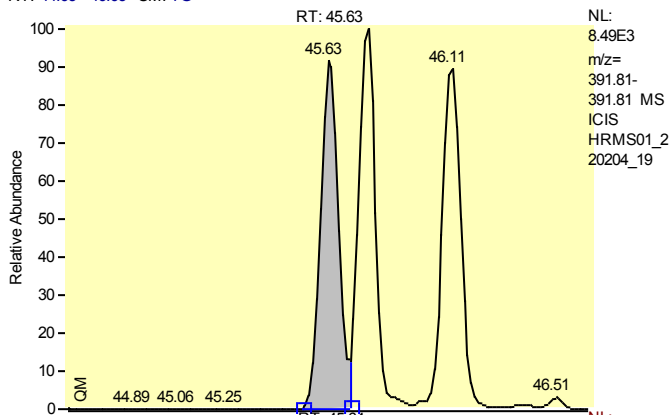
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



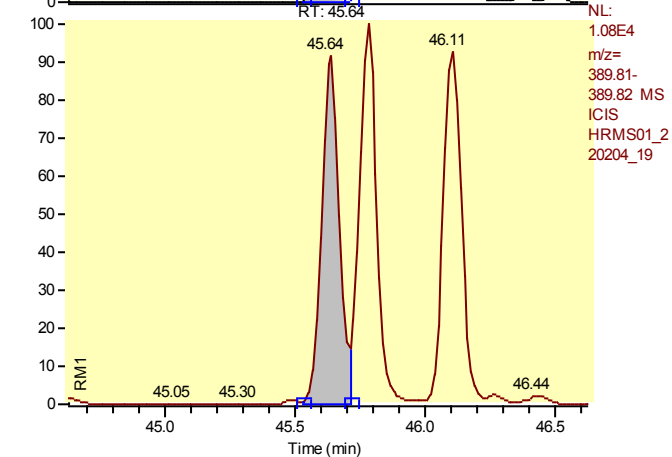
Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G



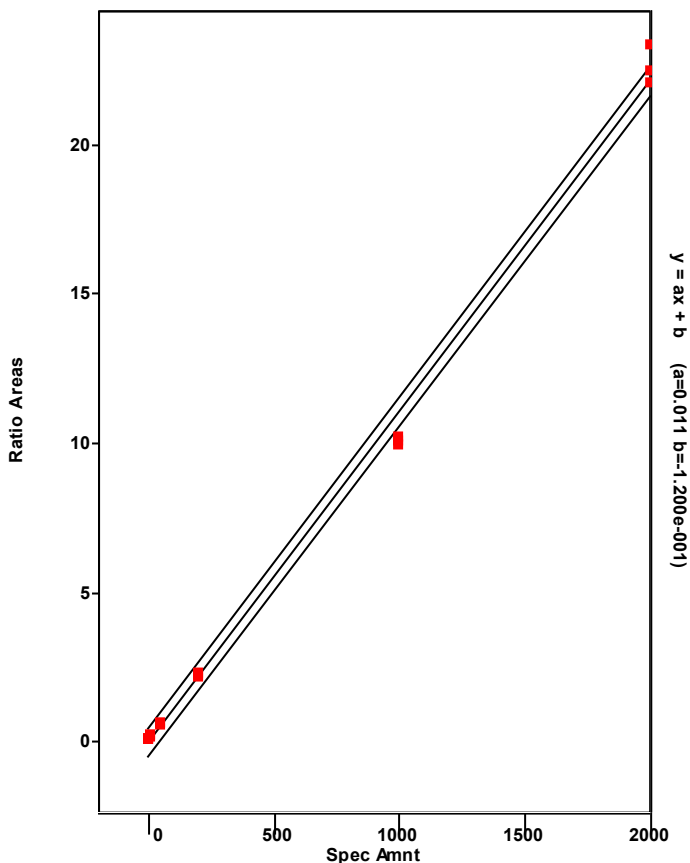
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	37284
RM1 Area	46302
RM1 Ratio (A)	1.2419
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

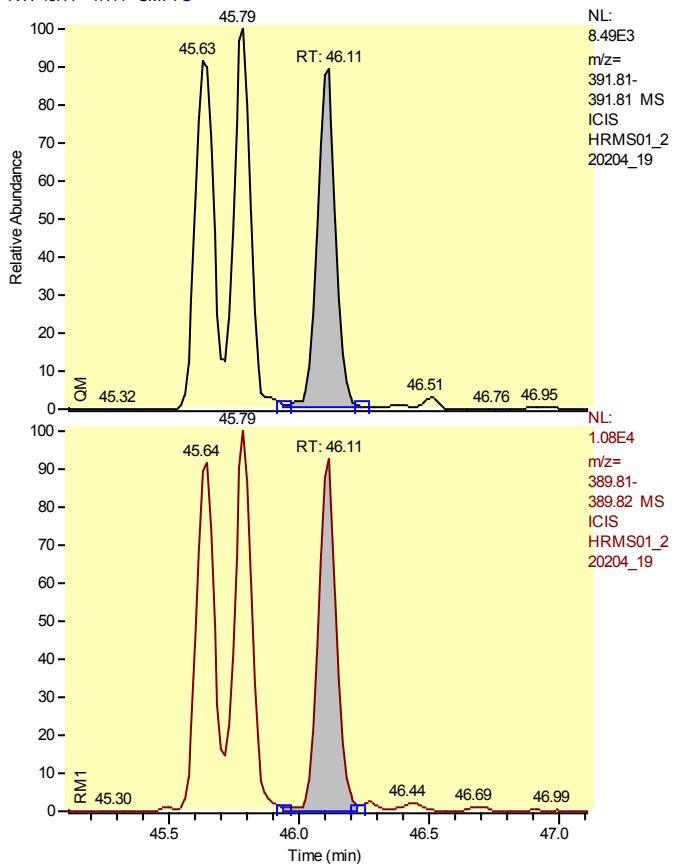
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.11 - 47.11 SM: 7G



NL:
8.49E3
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_19

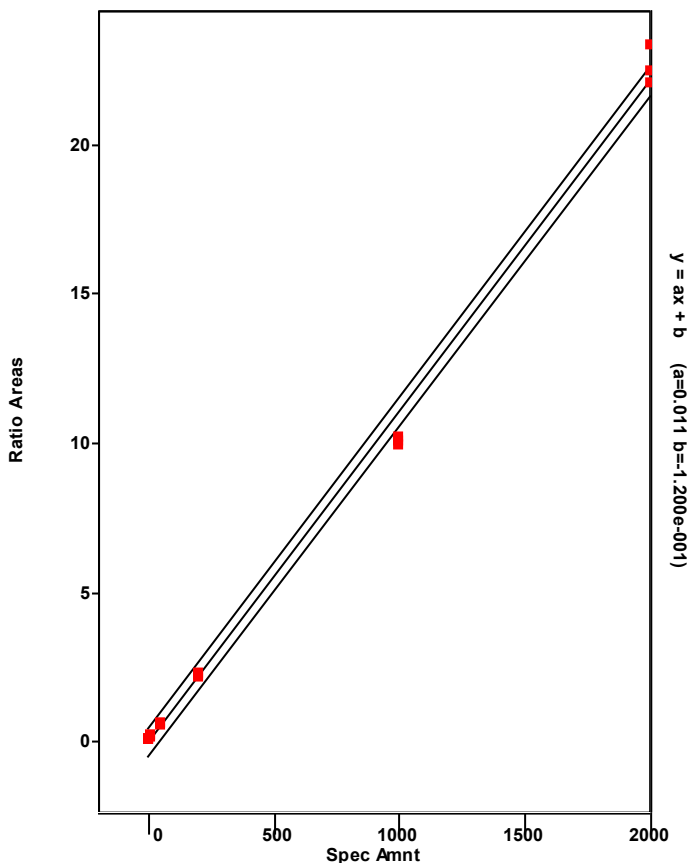
NL:
1.08E4
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_19

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	36936
RM1 Area	48523
RM1 Ratio (A)	1.3137
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

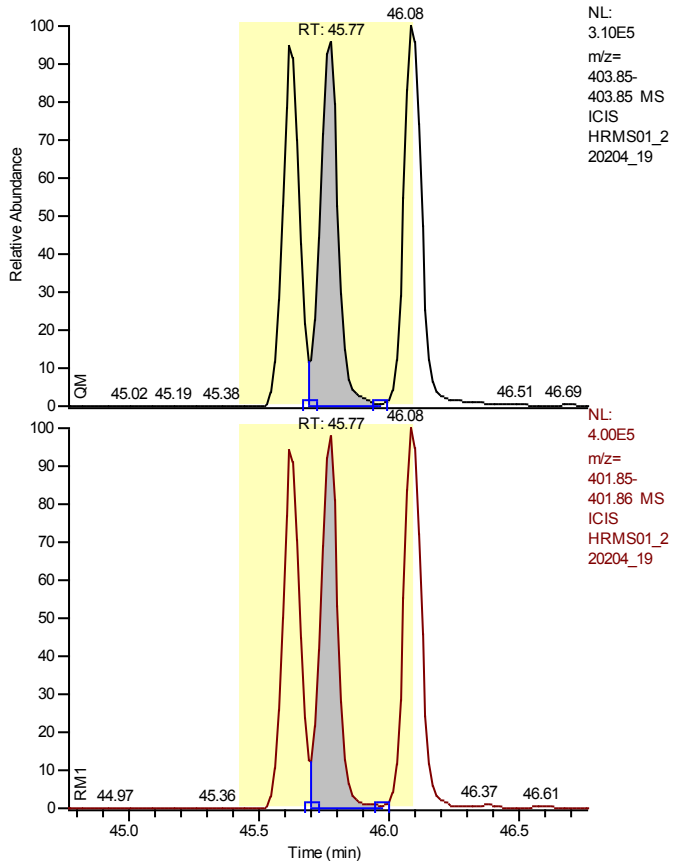
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G



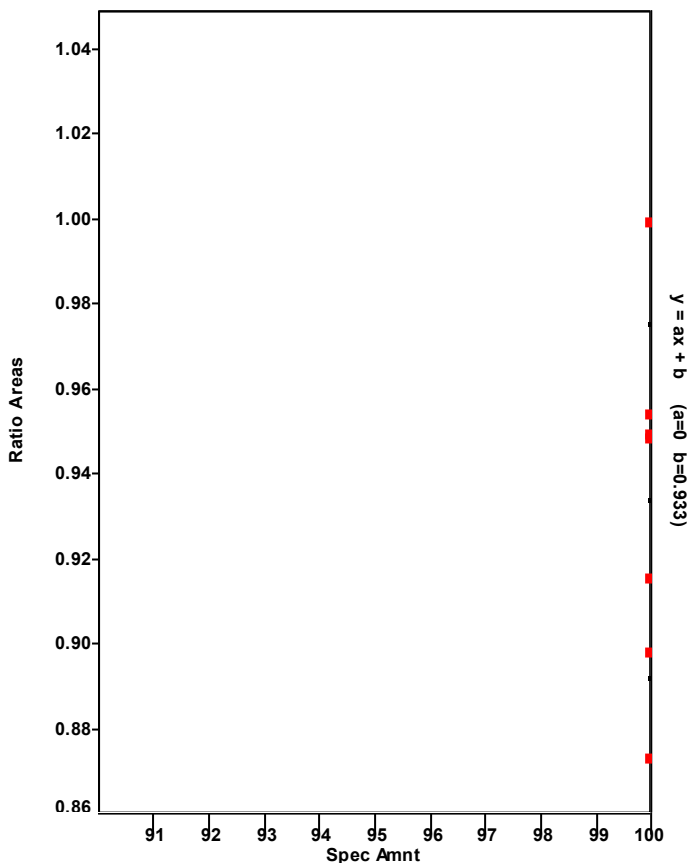
NL:
 3.10E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1433194
RM1 Area	1781263
RM1 Ratio (A)	1.2429
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 4.00E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_19

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

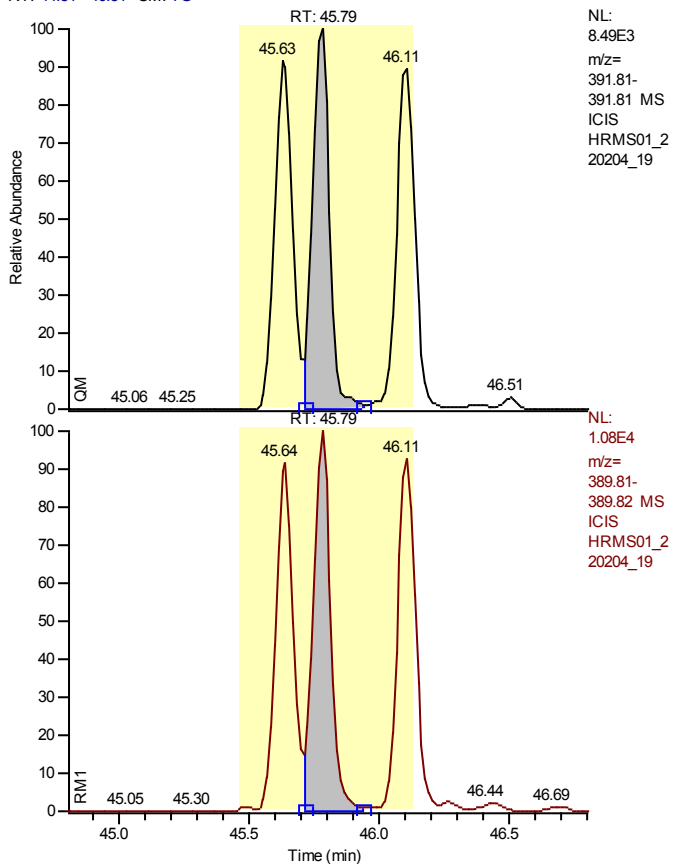
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.81 - 46.81 SM: 7G

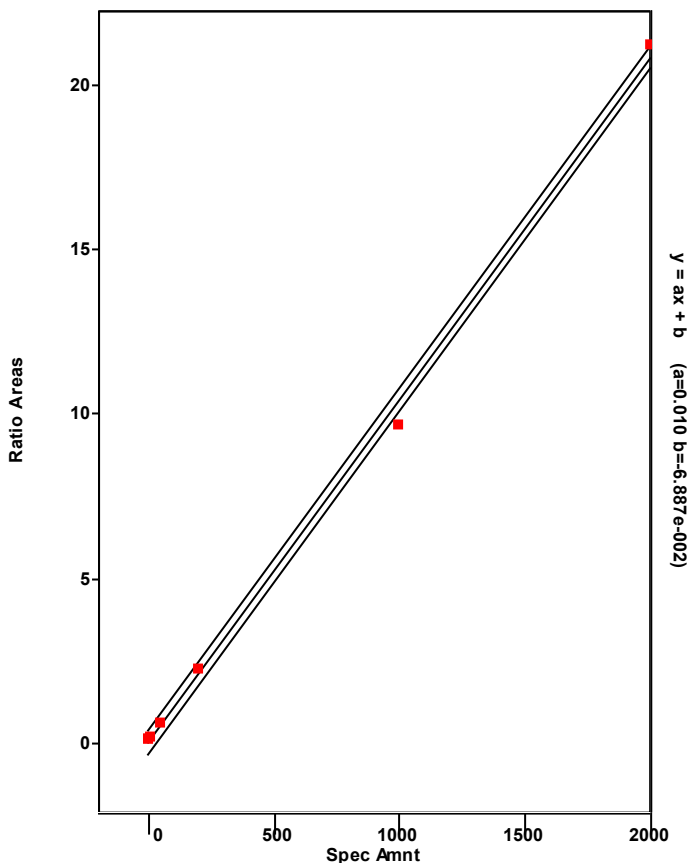


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	37909
RM1 Area	49836
RM1 Ratio (A)	1.3146
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

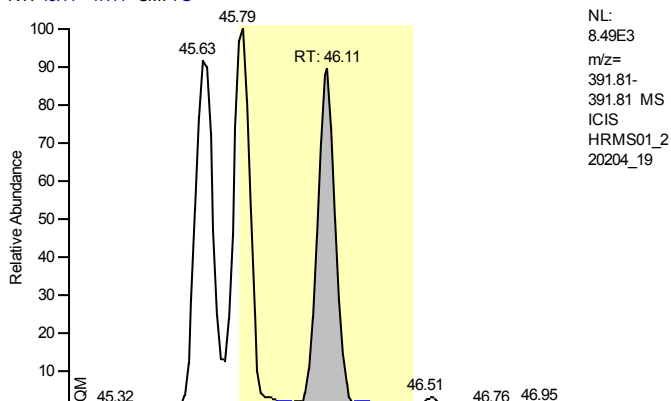
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



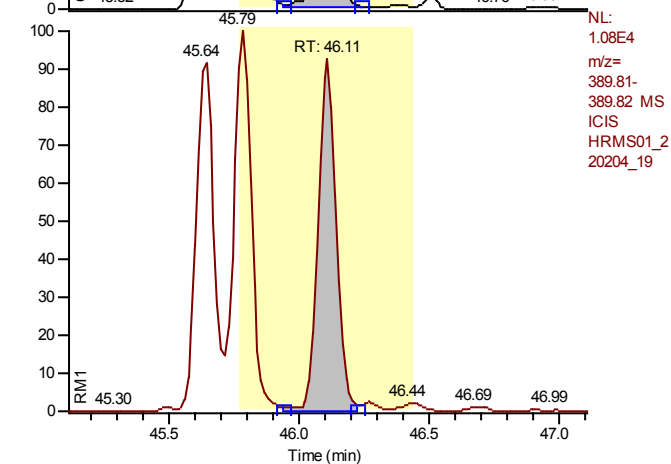
Chromatogram

Entry Parameters

RT: 45.11 - 47.11 SM: 7G



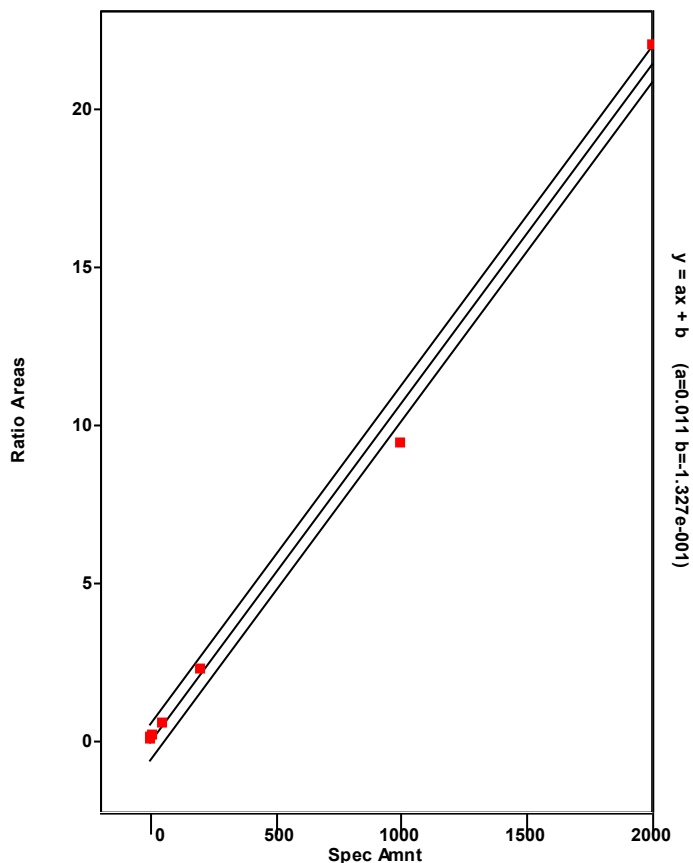
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	36936
RM1 Area	48523
RM1 Ratio (A)	1.3137
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.2500
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

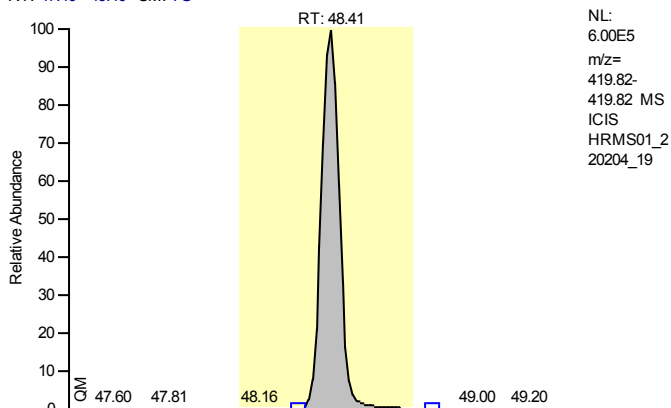
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



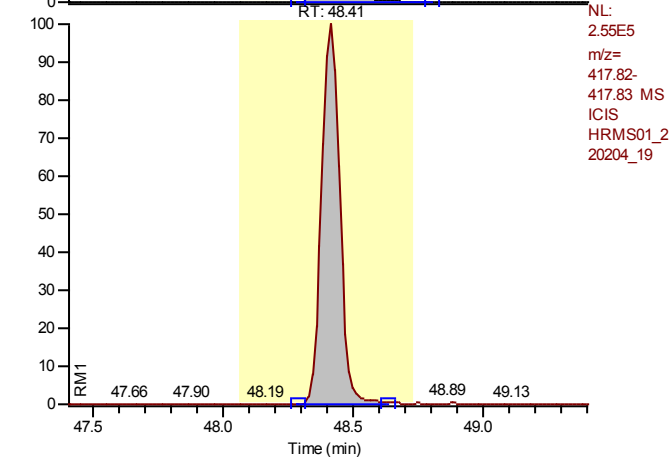
Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

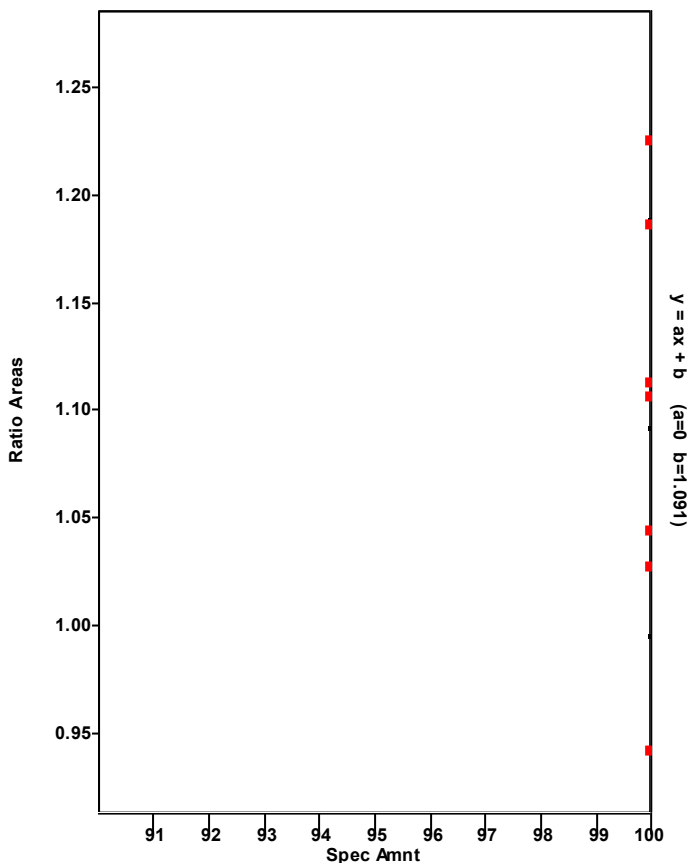


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2890160
RM1 Area	1236808
RM1 Ratio (A)	0.4279
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

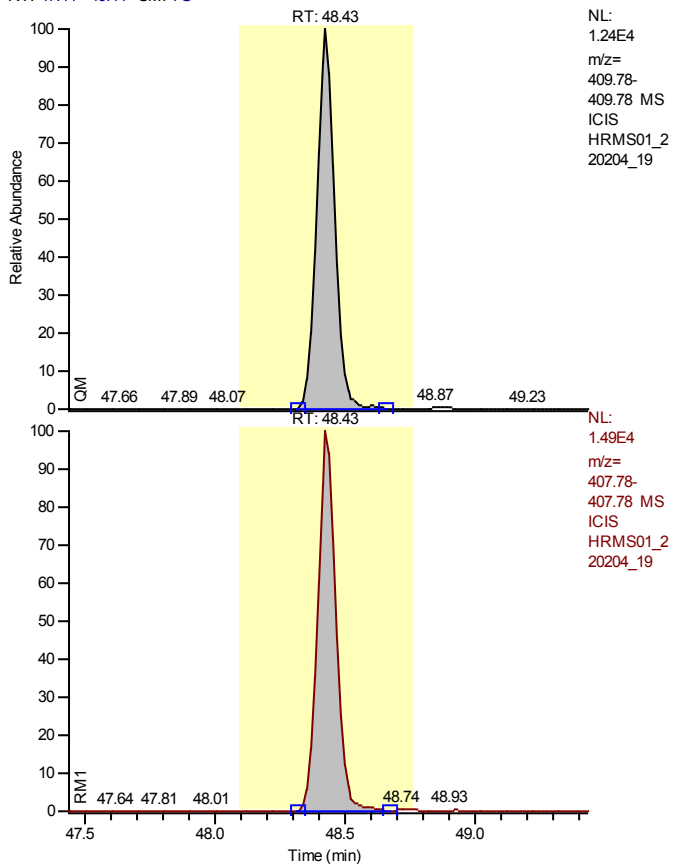
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.44 - 49.44 SM: 7G



NL:
 1.24E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20204_19

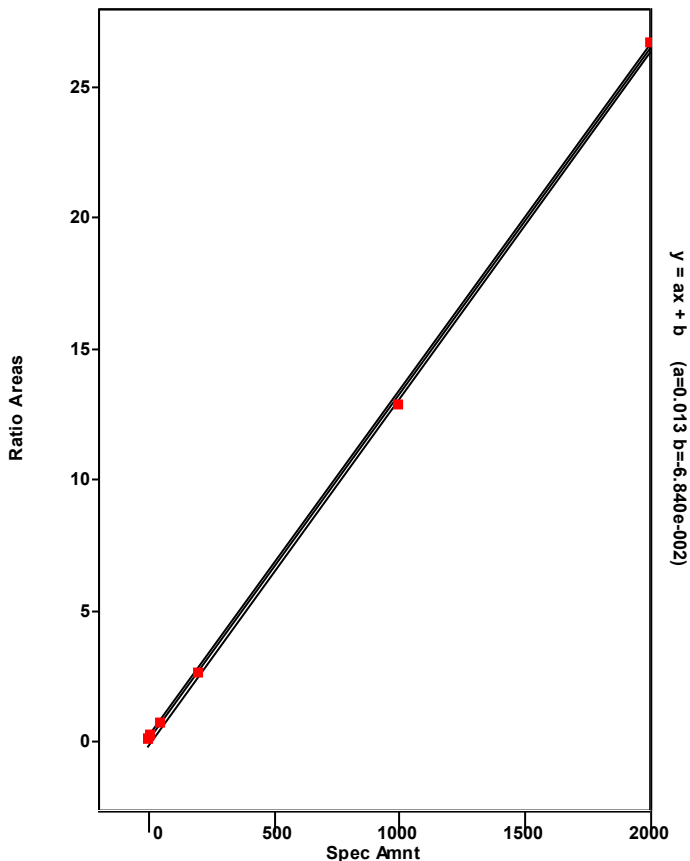
NL:
 1.49E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	60130
RM1 Area	73446
RM1 Ratio (A)	1.2214
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

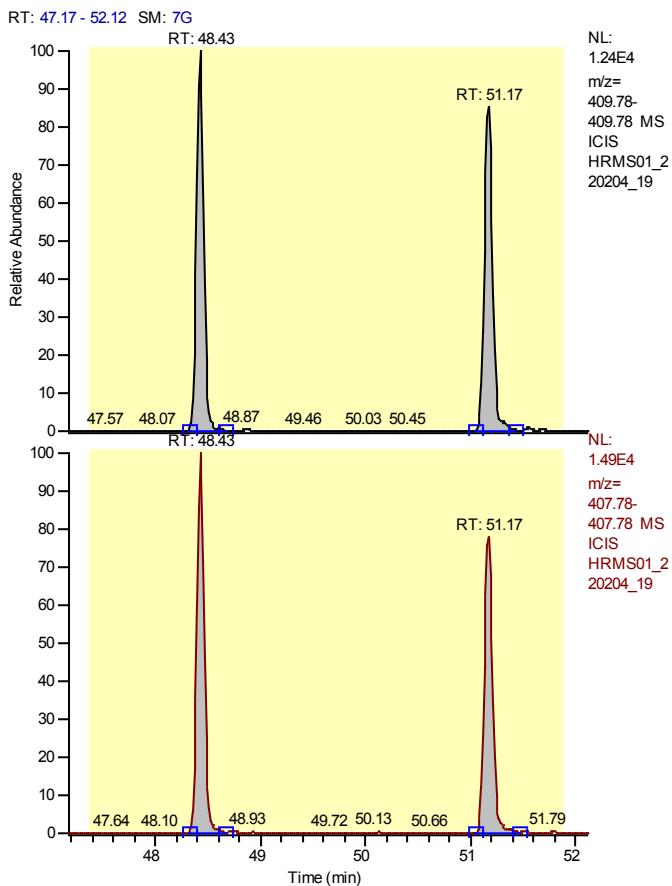
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

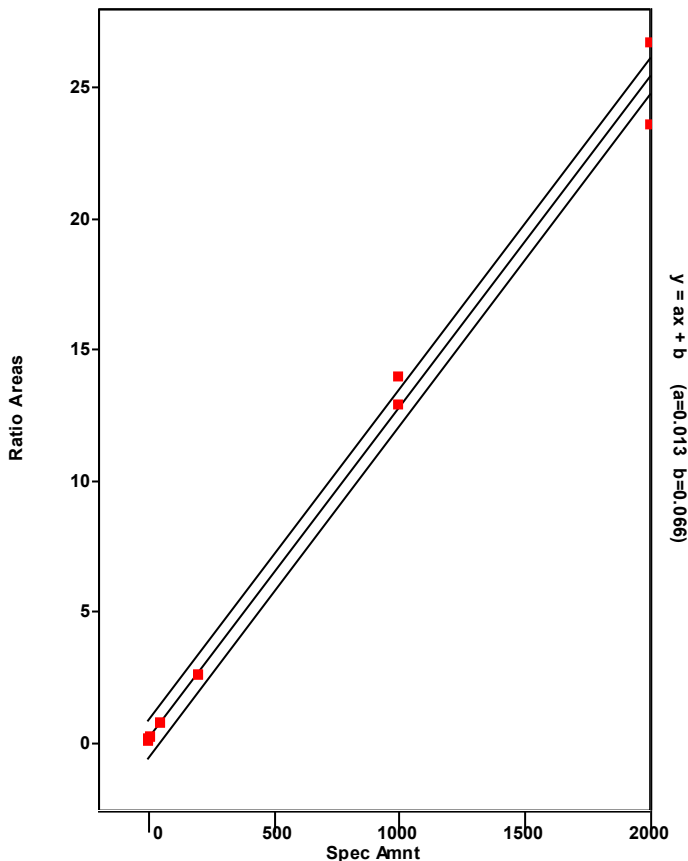


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	118511
RM1 Area	138849
RM1 Ratio (A)	1.1716
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	5.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

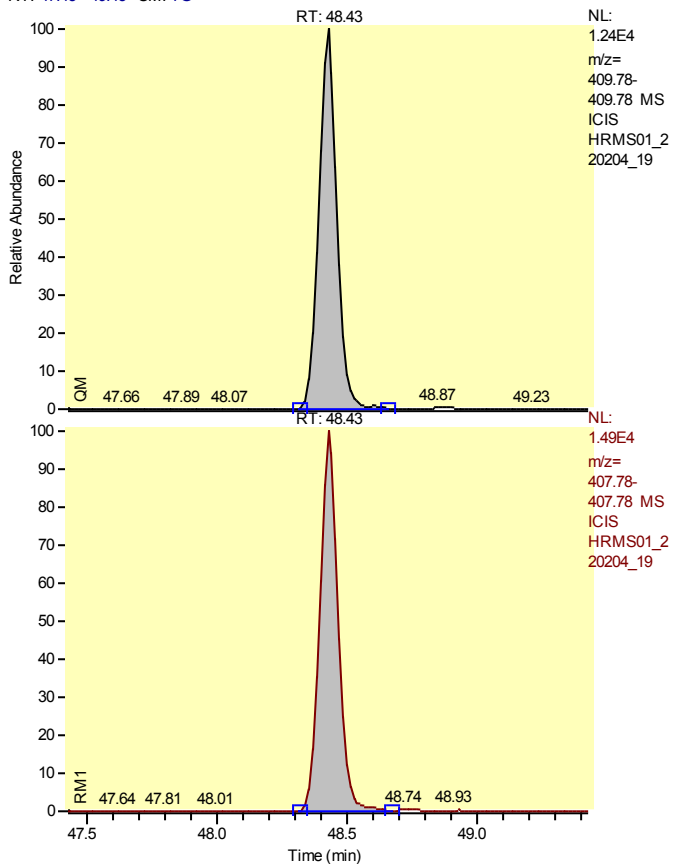
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.43 - 49.43 SM: 7G

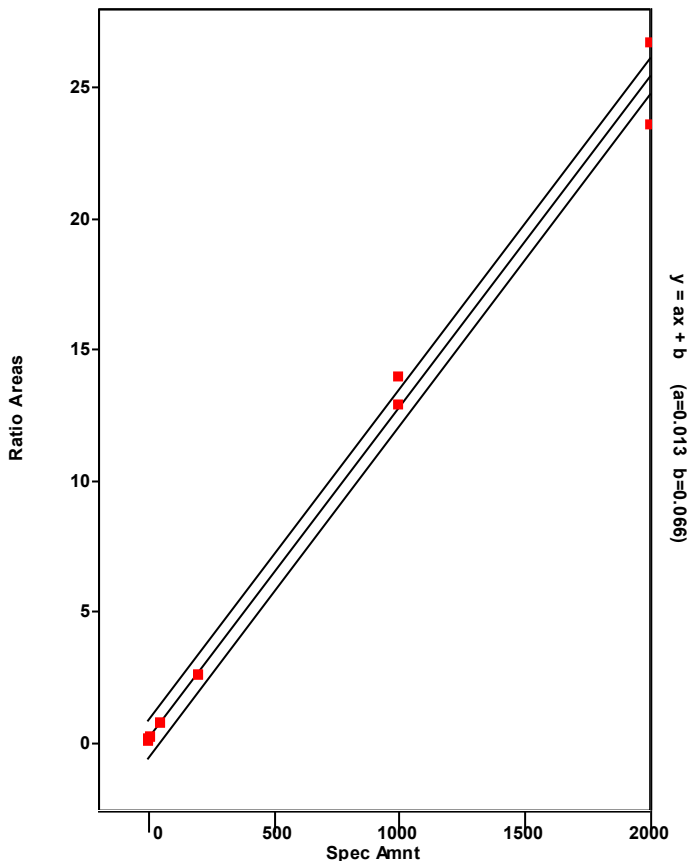


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	60130
RM1 Area	73446
RM1 Ratio (A)	1.2214
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

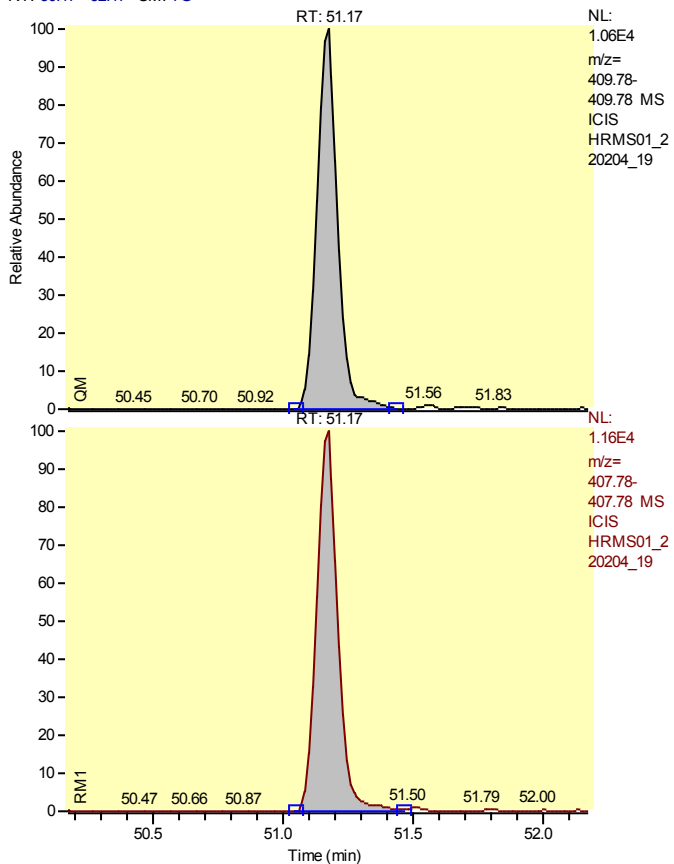
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G

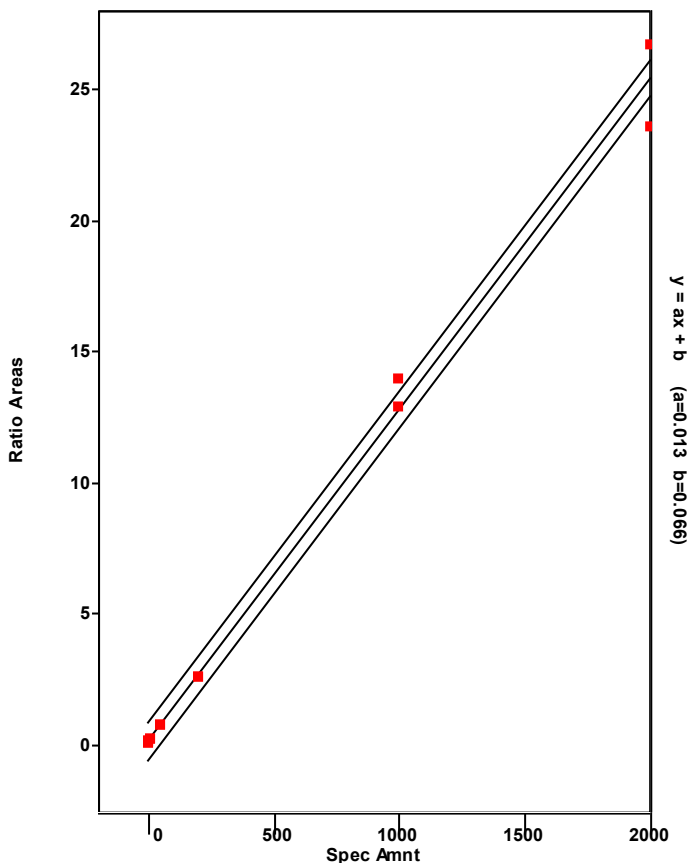


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	58381
RM1 Area	65403
RM1 Ratio (A)	1.1203
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

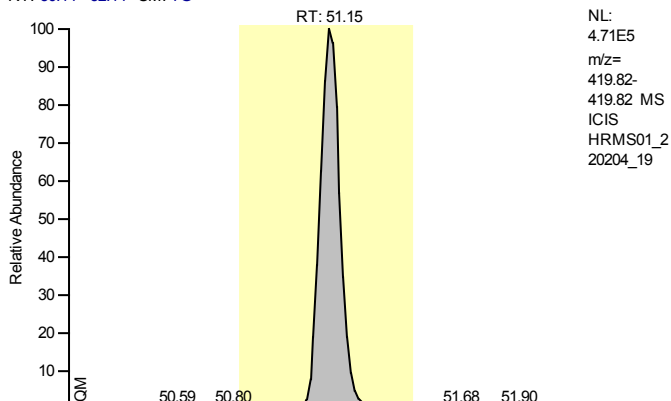
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



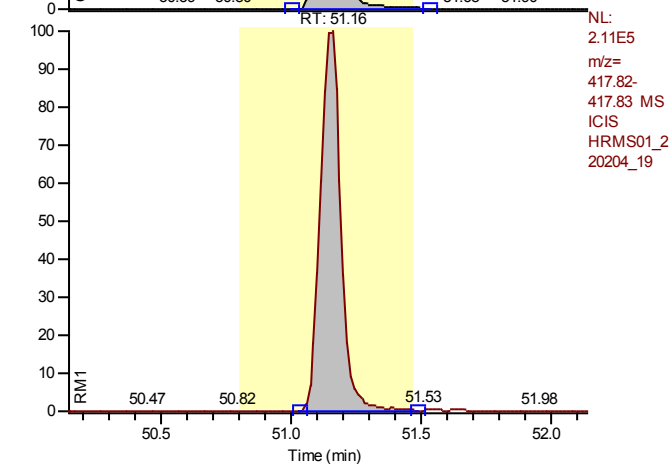
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

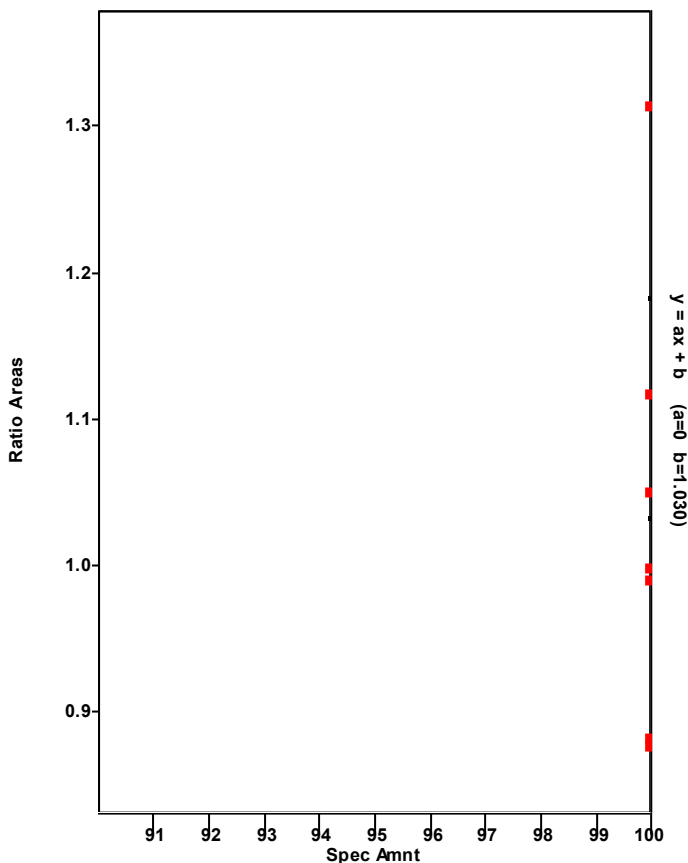


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	2589966
RM1 Area	1171261
RM1 Ratio (A)	0.4522
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

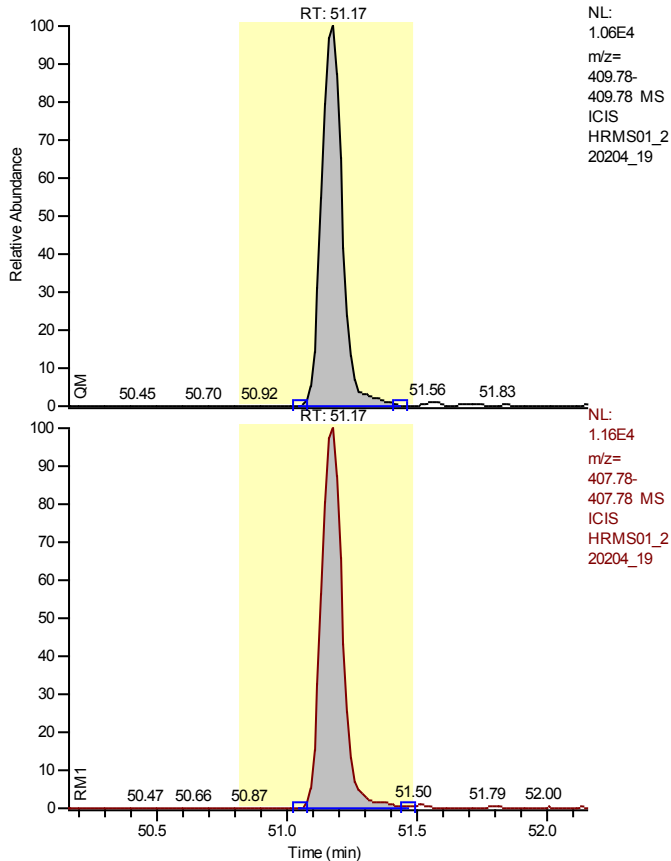
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.16 - 52.16 SM: 7G

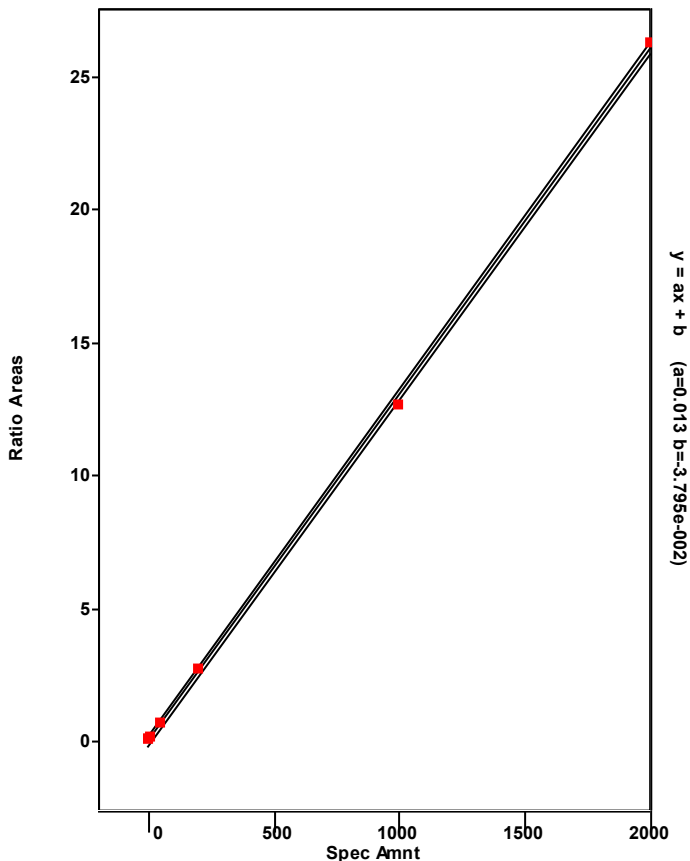


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	58381
RM1 Area	65403
RM1 Ratio (A)	1.1203
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

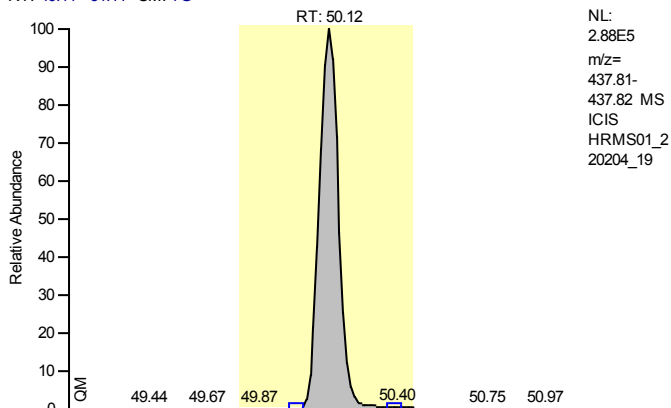
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



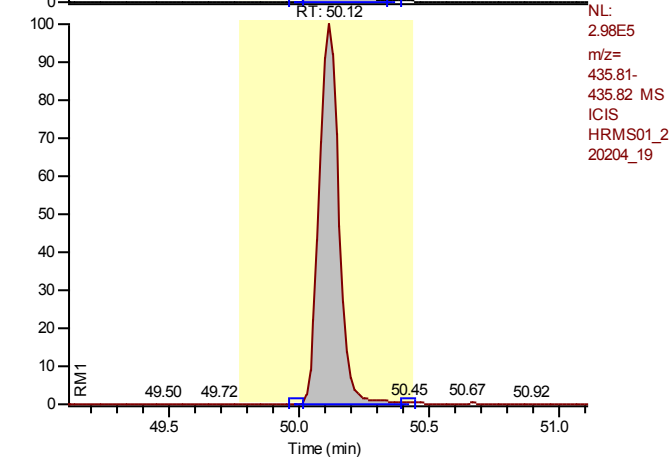
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

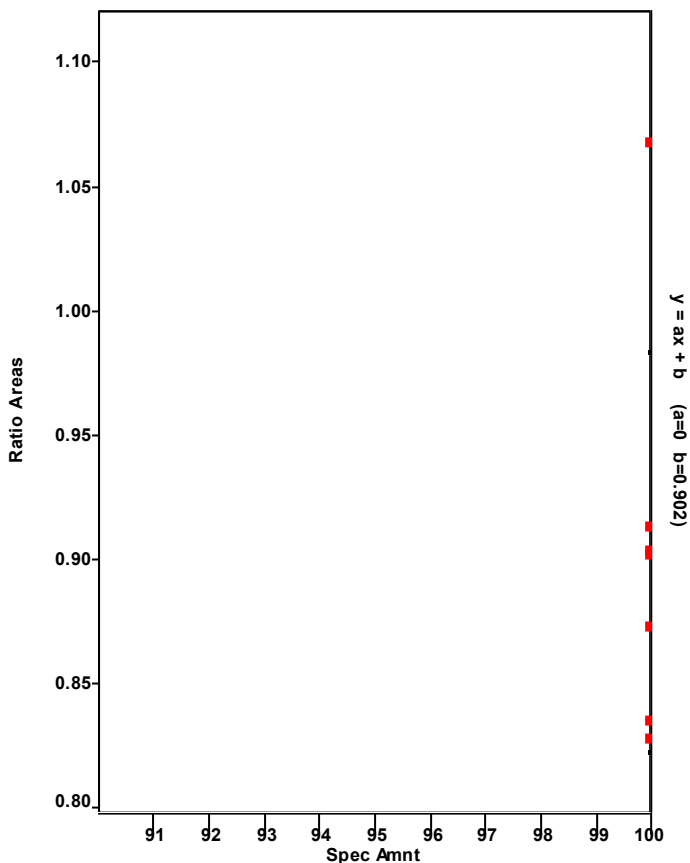


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1492683
RM1 Area	1582615
RM1 Ratio (A)	1.0602
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

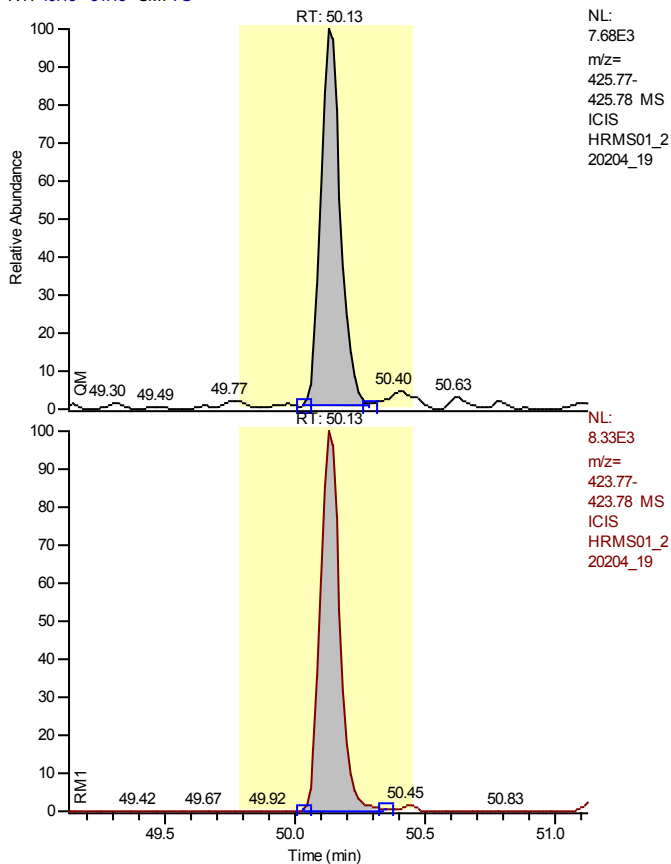
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G



NL:
 7.68E3
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20204_19

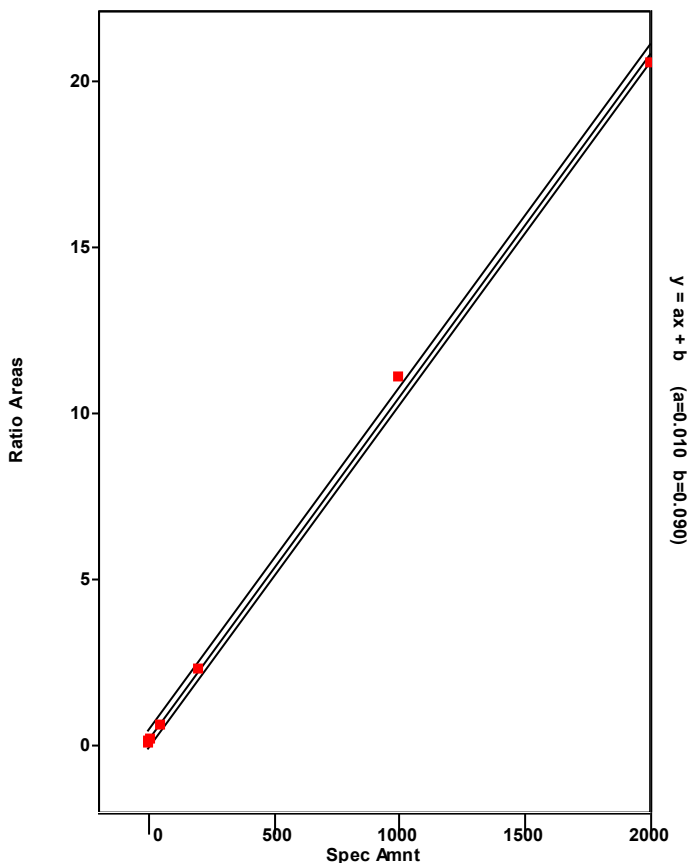
NL:
 8.33E3
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20204_19

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	40149
RM1 Area	43061
RM1 Ratio (A)	1.0725
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0250
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

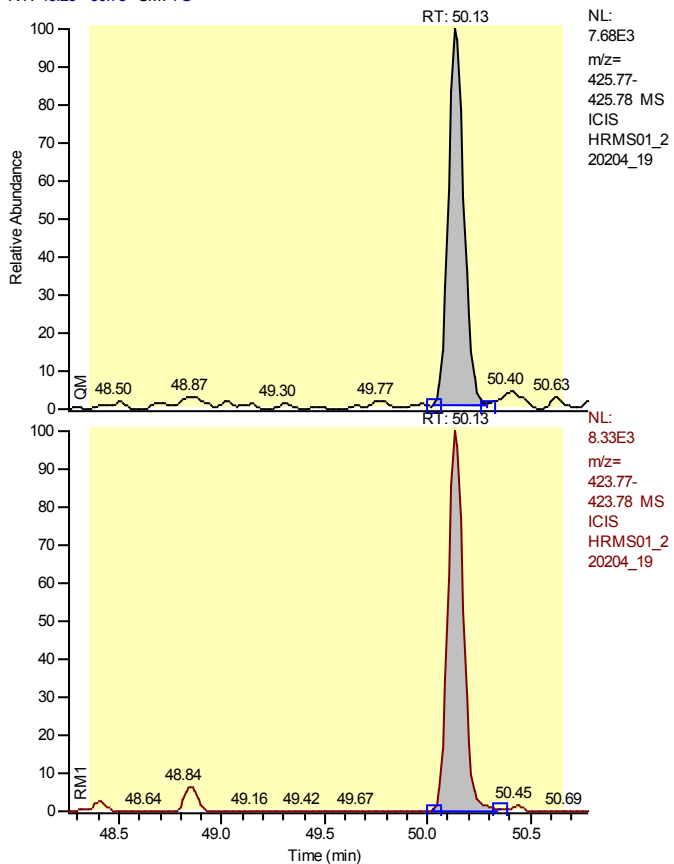
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.25 - 50.78 SM: 7G

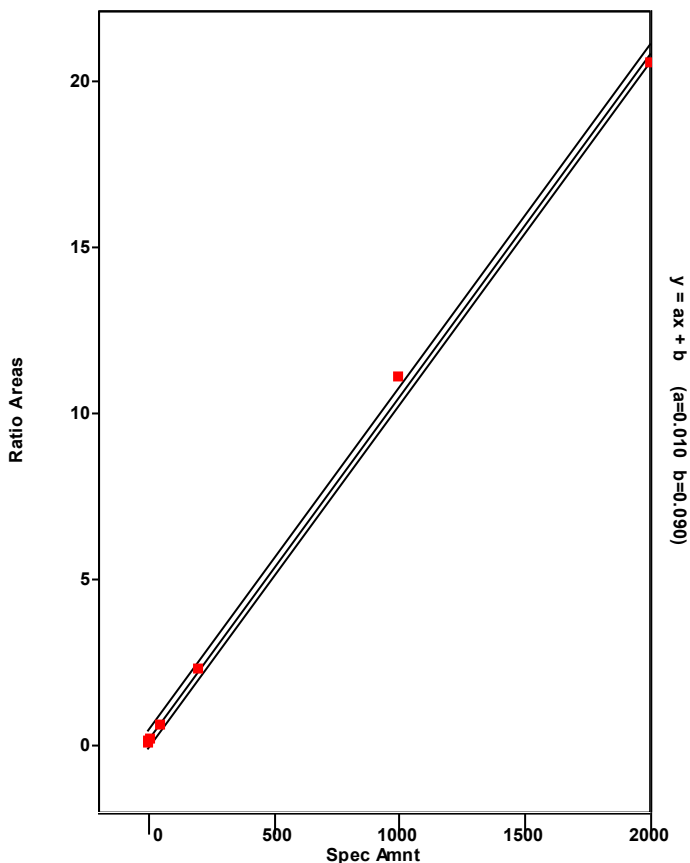


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	40149
RM1 Area	43061
RM1 Ratio (A)	1.0725
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

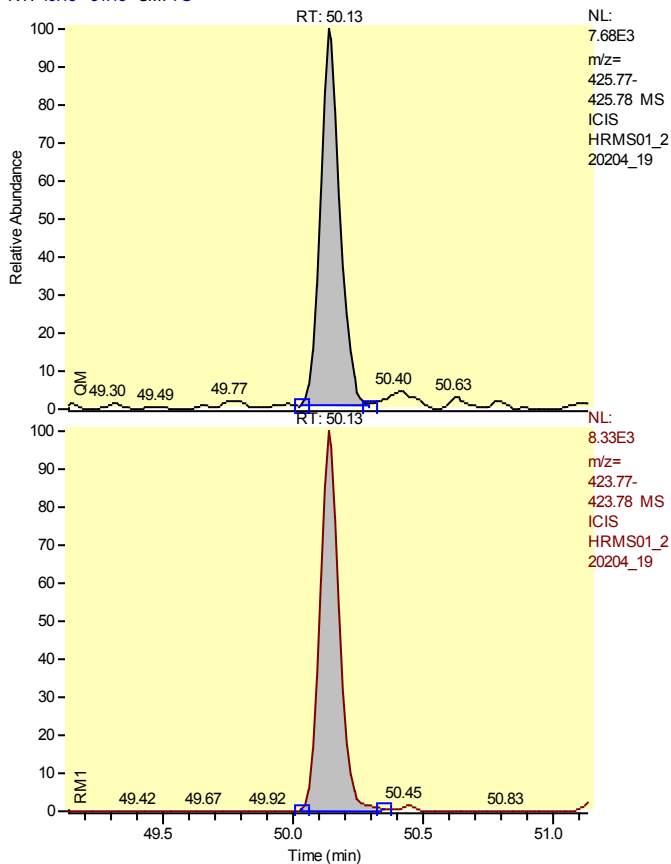
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G

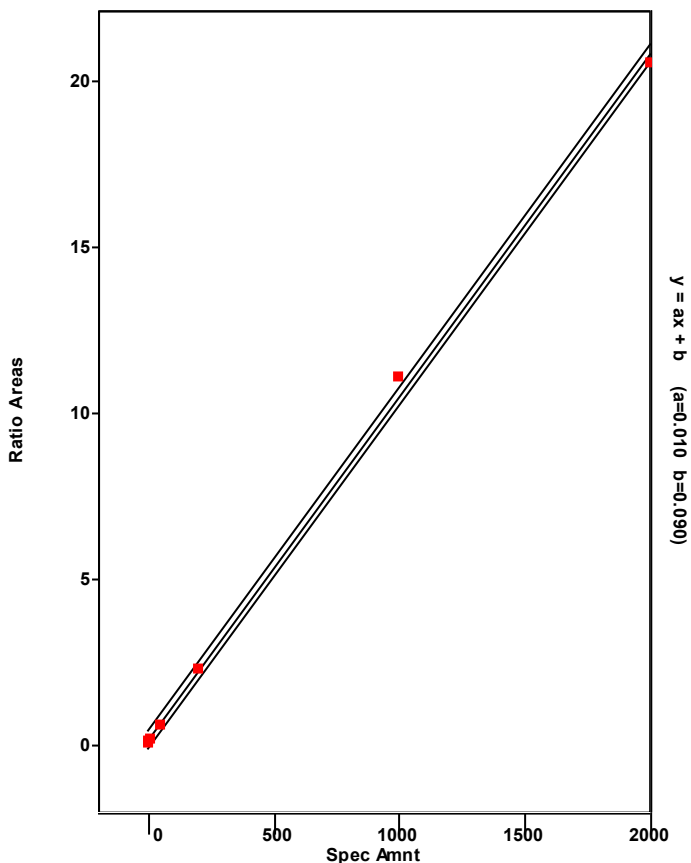


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	40149
RM1 Area	43061
RM1 Ratio (A)	1.0725
Ratio1 Limit	0.8800 - 1.2500
Specified Amount	2.50
Calculated Amount (A)	2.50
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

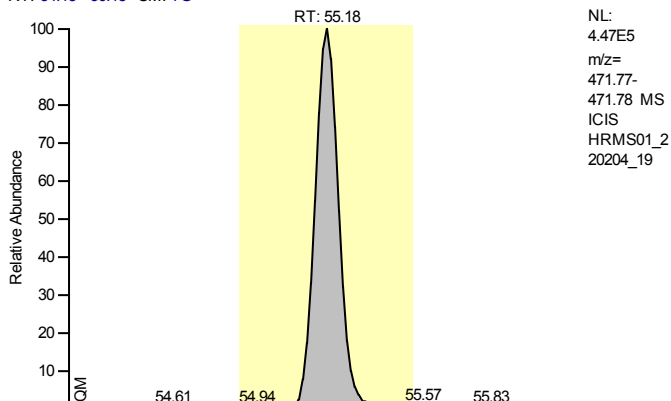
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



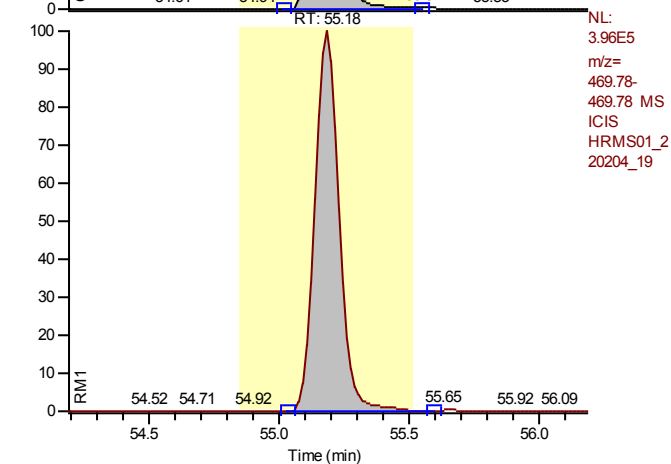
Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



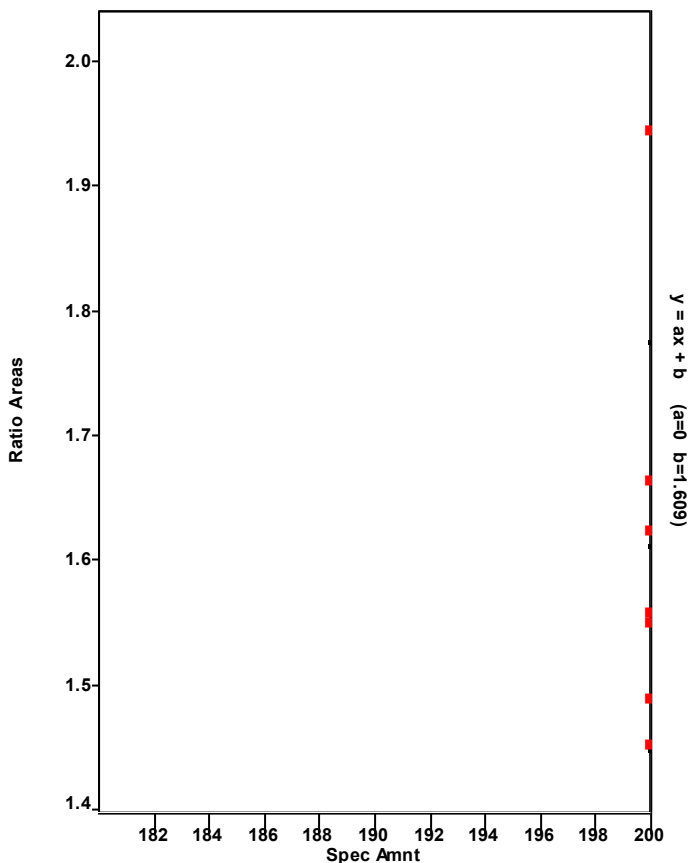
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2878539
RM1 Area	2590437
RM1 Ratio (A)	0.8999
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

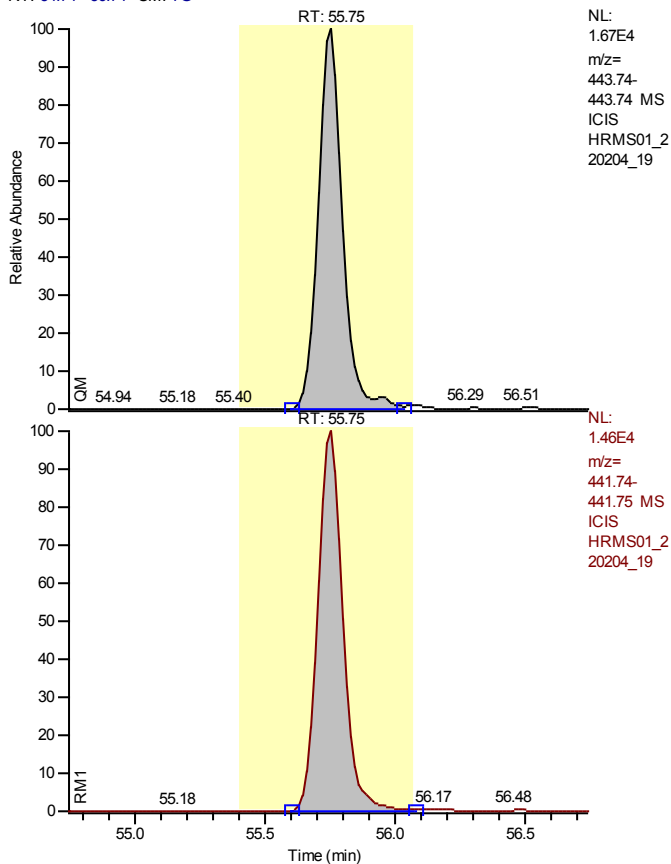
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.74 - 56.74 SM: 7G

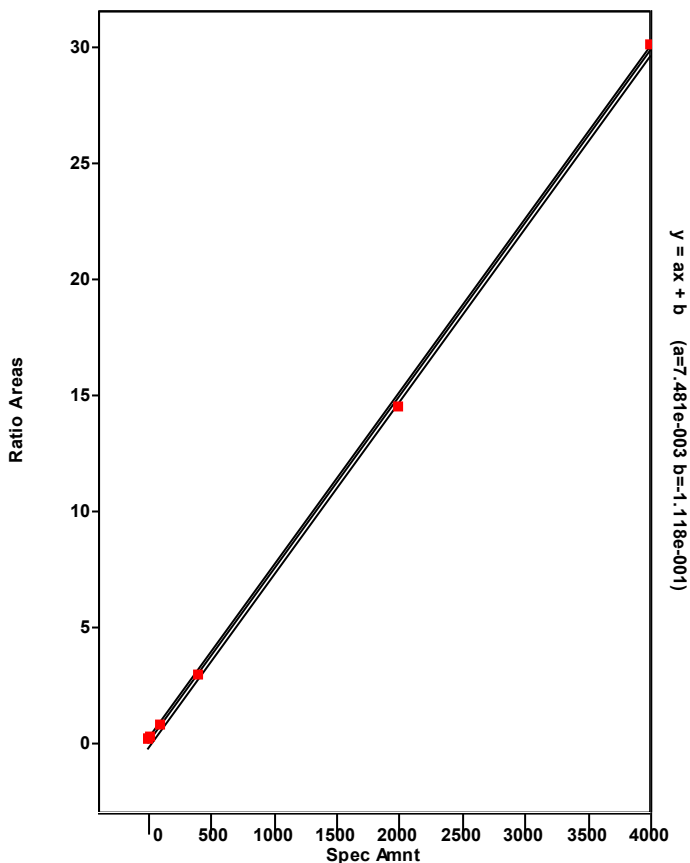


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	108006
RM1 Area	97428
RM1 Ratio (A)	0.9021
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	5.00
Calculated Amount (A)	5.00
Percent Recovery (A)	100
TEQ (A)	0.0015
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

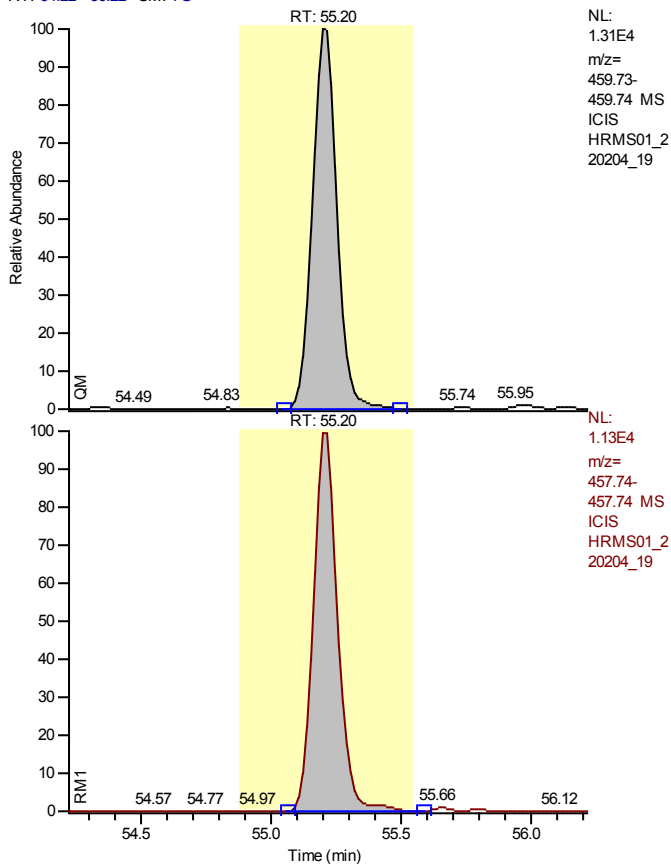
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.22 - 56.22 SM: 7G



NL:
 1.31E4
 m/z=
 459.73-
 459.74 MS
 ICIS
 HRMS01_2
 20204_19

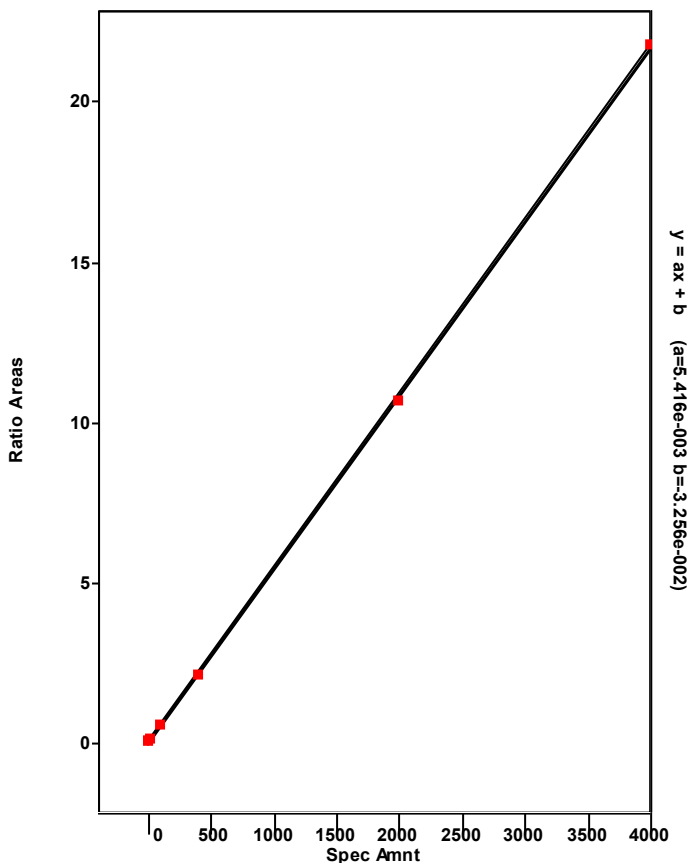
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	84877
RM1 Area	72798
RM1 Ratio (A)	0.8577
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	5.00
Calculated Amount (A)	5.00
Percent Recovery (A)	100
TEQ (A)	0.0015
Label2	

NL:
 1.13E4
 m/z=
 457.74-
 457.74 MS
 ICIS
 HRMS01_2
 20204_19

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

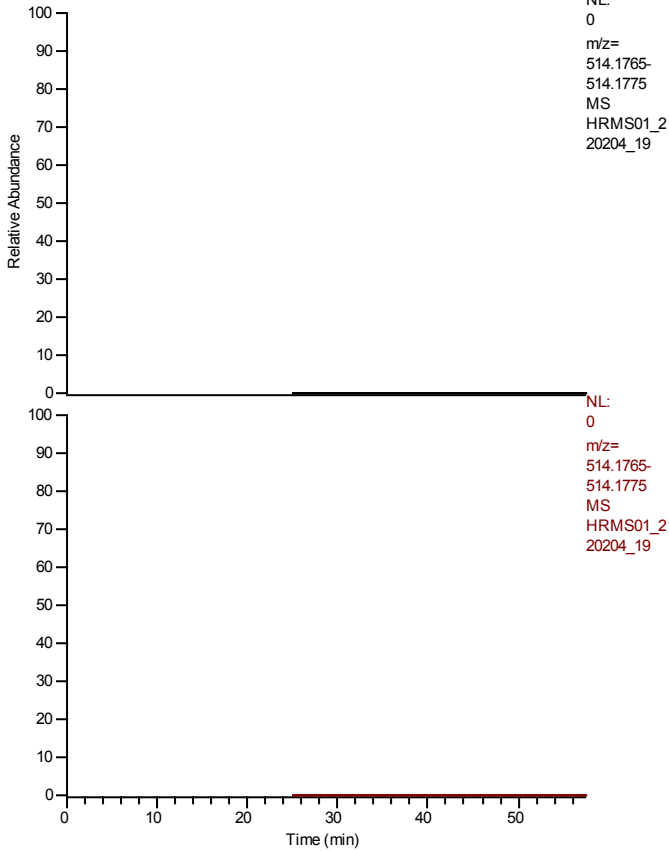
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

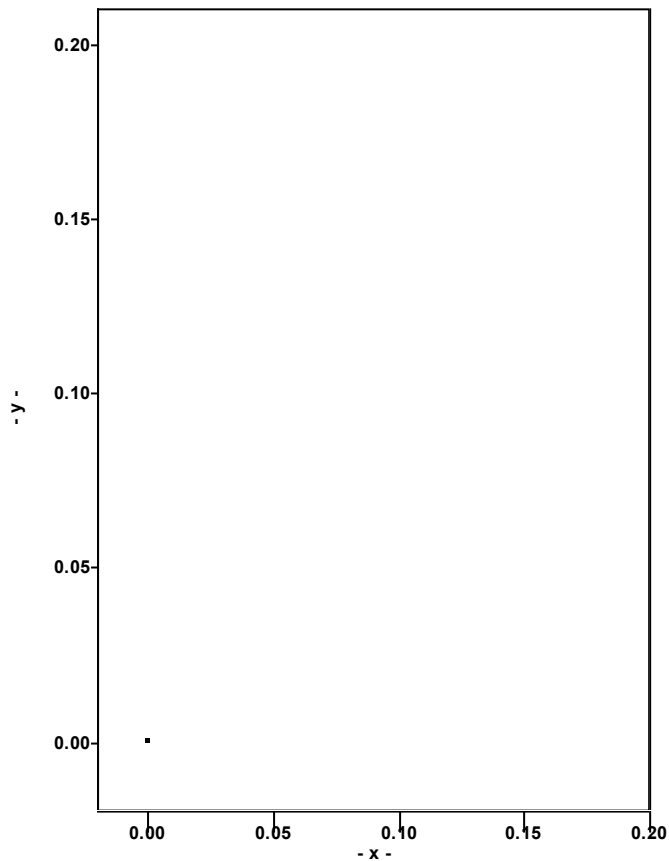
RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	811664
RM1 Area	966431
RM1 Ratio (A)	1.1907
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	43.50
Percent Recovery (A)	---
TEQ (A)	5.7030
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 04:40
Number of Entries	59
Comment	HRMS200402B
Vial	6
Sample Name	IA1613STD-2
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_21_seq
Data	hrms01_220204_21
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

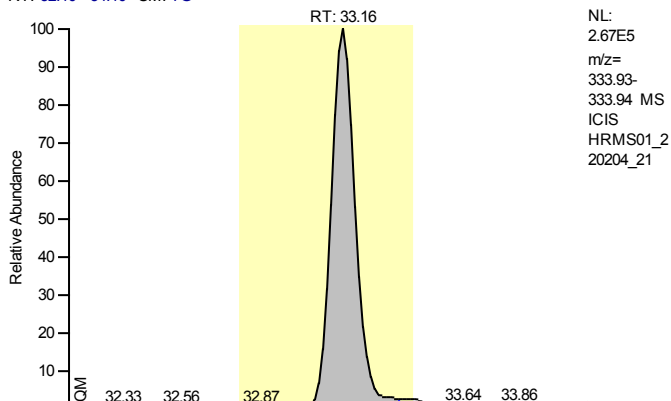
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1734474	1390767	0.8018	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		3041045	2417060	0.7948	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	57670	45377	0.7868	0.6500 - 0.8900	2.00	2.00	100	0.2000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	57670	45377	0.7868	0.6500 - 0.8900	2.00	2.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	57670	45377	0.7868	0.6500 - 0.8900	2.00	2.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1933871	1566334	0.8099	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	43845	36998	0.8438	0.6500 - 0.8900	2.00	2.00	100	2.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	43845	36998	0.8438	0.6500 - 0.8900	2.00	2.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	43845	36998	0.8438	0.6500 - 0.8900	2.00	2.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1685073	2635344	1.5639	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	162045	271882	1.6778	1.3200 - 1.7800	10.00	10.00	100	0.3000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	329500	535068	1.6239	1.3200 - 1.7800	10.00	20.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	167454	263186	1.5717	1.3200 - 1.7800	10.00	10.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	162045	271882	1.6778	1.3200 - 1.7800	10.00	10.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1453755	2434950	1.6749	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	167454	263186	1.5717	1.3200 - 1.7800	10.00	10.00	100	3.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1040324	1570590	1.5097	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	95945	150561	1.5692	1.3200 - 1.7800	10.00	10.00	100	10.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	95945	150561	1.5692	1.3200 - 1.7800	10.00	10.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	95945	150561	1.5692	1.3200 - 1.7800	10.00	10.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		79402	79402	1.0000	0.8500 - 1.1500	2.00	2.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1531191	1878879	1.2271	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2041722	1138754	0.5577	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	156367	197523	1.2632	1.0500 - 1.4300	10.00	10.00	100	1.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	711324	864794	1.2158	1.0500 - 1.4300	10.00	40.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	193510	232821	1.2031	1.0500 - 1.4300	10.00	10.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	156367	197523	1.2632	1.0500 - 1.4300	10.00	10.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	174539	208397	1.1940	1.0500 - 1.4300	10.00	10.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	186908	226054	1.2094	1.0500 - 1.4300	10.00	10.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		2217272	1200540	0.5414	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	174539	208397	1.1940	1.0500 - 1.4300	10.00	10.00	100	1.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2225750	1160192	0.5213	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	193510	232821	1.2031	1.0500 - 1.4300	10.00	10.00	100	1.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		2514181	1298648	0.5165	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	186908	226054	1.2094	1.0500 - 1.4300	10.00	10.00	100	1.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1355280	1667247	1.2302	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	136717	173183	1.2667	1.0500 - 1.4300	10.00	10.00	100	1.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	421416	538311	1.2774	1.0500 - 1.4300	10.00	30.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	142083	175735	1.2369	1.0500 - 1.4300	10.00	10.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	136717	173183	1.2667	1.0500 - 1.4300	10.00	10.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	142617	189393	1.3280	1.0500 - 1.4300	10.00	10.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1315210	1660184	1.2623	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	142083	175735	1.2369	1.0500 - 1.4300	10.00	10.00	100	1.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	142617	189393	1.3280	1.0500 - 1.4300	10.00	10.00	100	1.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2416427	1080859	0.4473	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	219700	231691	1.0546	0.8800 - 1.2000	10.00	10.00	100	0.1000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	412780	423012	1.0248	0.8800 - 1.2000	10.00	20.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	219700	231691	1.0546	0.8800 - 1.2000	10.00	10.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	193081	191321	0.9909	0.8800 - 1.2000	10.00	10.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		2081347	898197	0.4315	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	193081	191321	0.9909	0.8800 - 1.2000	10.00	10.00	100	0.1000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1344936	1472735	1.0950	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	150681	158674	1.0530	0.8800 - 1.2000	10.00	10.00	100	0.1000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	150681	158674	1.0530	0.8800 - 1.2000	10.00	10.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	150681	158674	1.0530	0.8800 - 1.2000	10.00	10.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2783608	2494200	0.8960	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	368977	332443	0.9010	0.7600 - 1.0200	20.00	20.00	100	0.0060
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	287557	260623	0.9063	0.7600 - 1.0200	20.00	20.00	100	0.0060
59	overall TEQ	overall TEQ test		2879695	3345861	1.1619	0.0000 - 0.0000	0.00	174.00	---	22.8120

Chromatogram

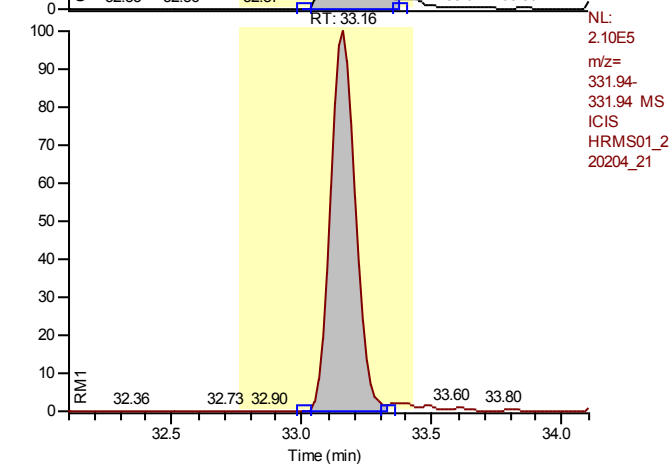
Entry Parameters

RT: 32.10 - 34.10 SM: 7G



NL:
 2.67E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1734474
RM1 Area	1390767
RM1 Ratio (A)	0.8018
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

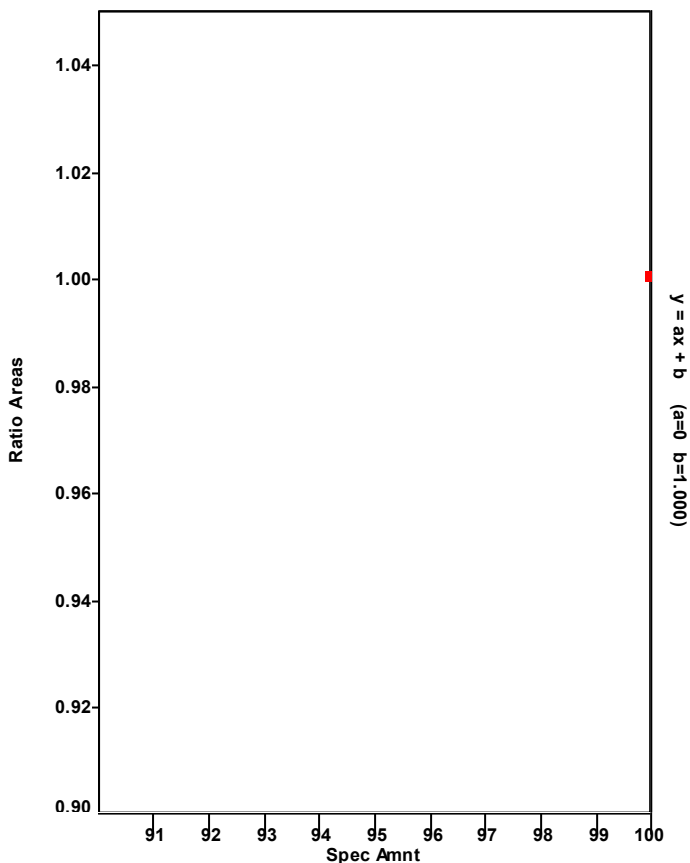


NL:
 2.10E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

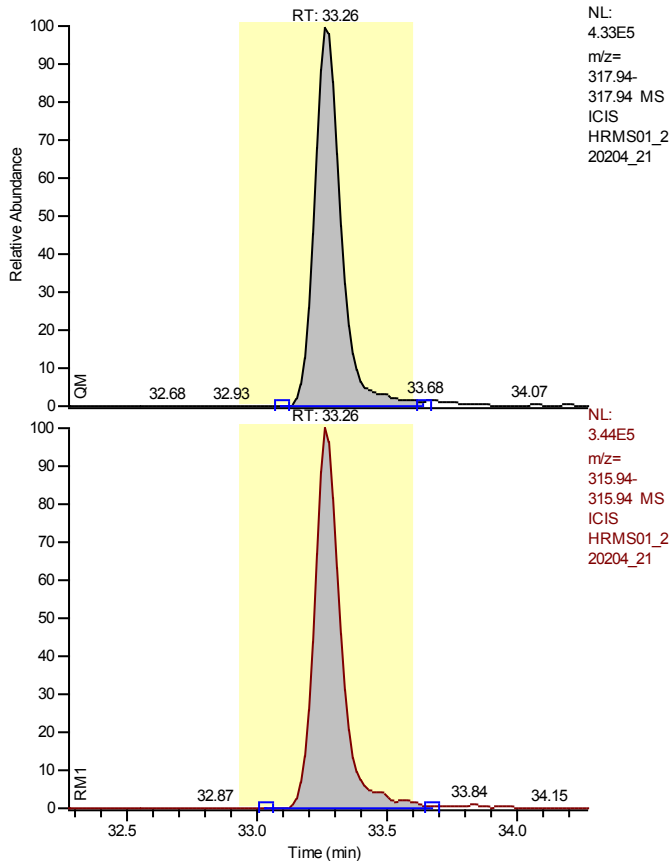
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G



NL:
 4.33E5
 m/z=
 317.94
 MS
 ICIS
 HRMS01_2
 20204_21

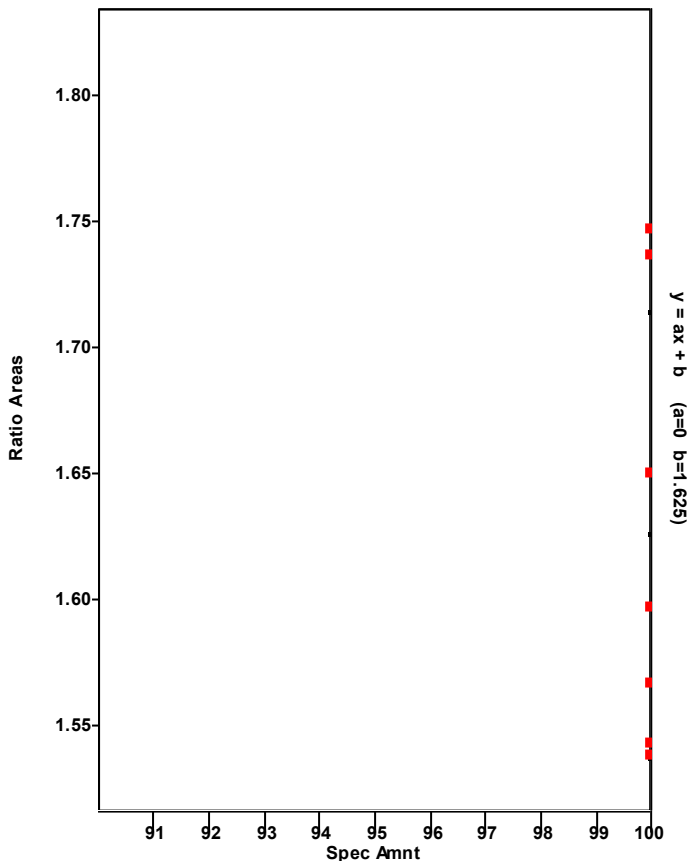
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	3041045
RM1 Area	2417060
RM1 Ratio (A)	0.7948
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 3.44E5
 m/z=
 315.94
 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

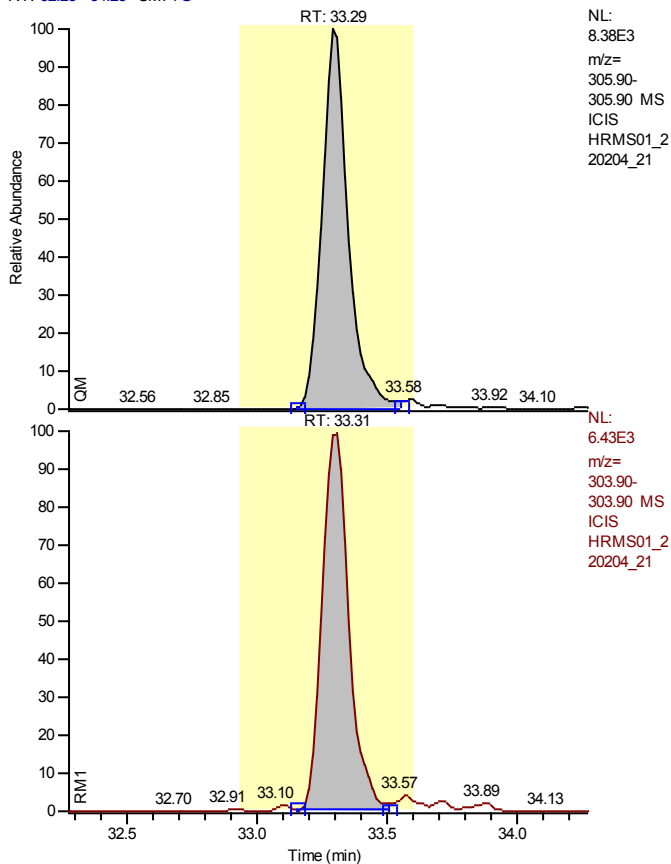
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G



NL: 8.38E3
 m/z= 305.90-305.90 MS
 ICIS HRMS01_2 20204_21

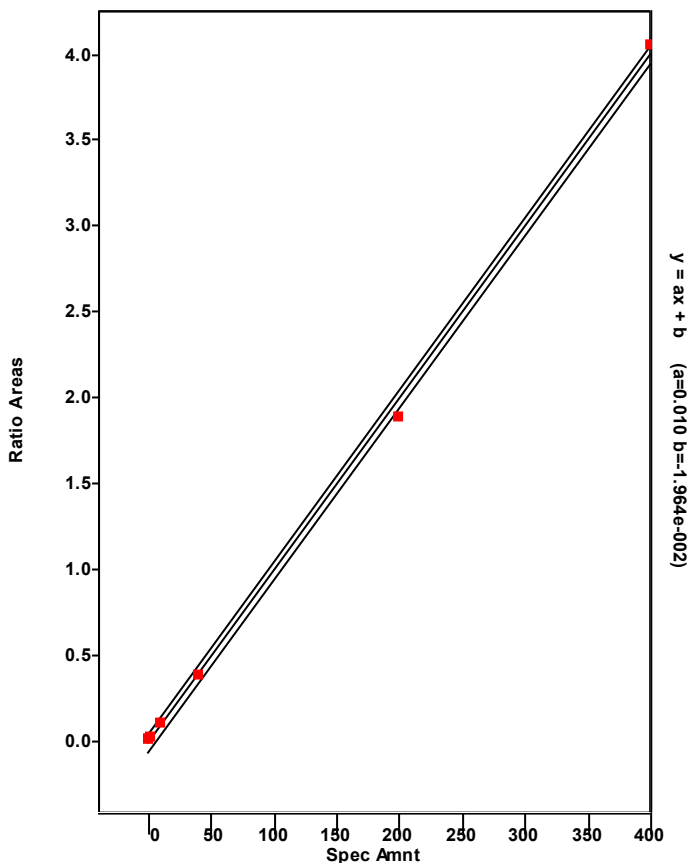
NL: 6.43E3
 m/z= 303.90-303.90 MS
 ICIS HRMS01_2 20204_21

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	57670
RM1 Area	45377
RM1 Ratio (A)	0.7868
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.2000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

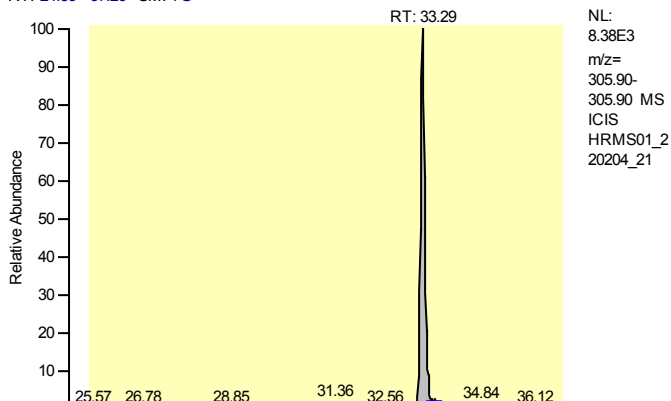
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



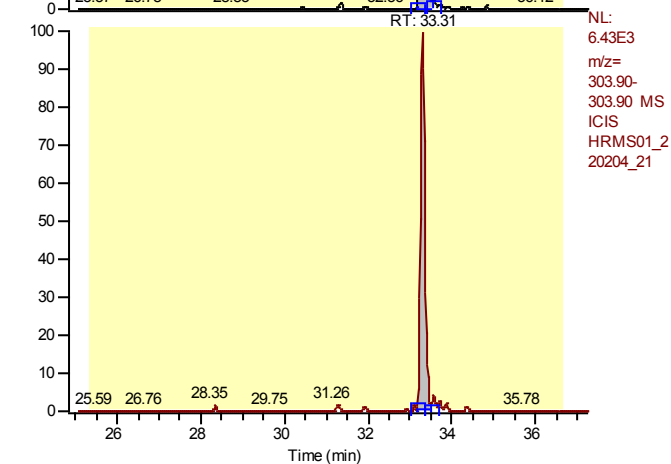
Chromatogram

Entry Parameters

RT: 24.83 - 37.26 SM: 7G



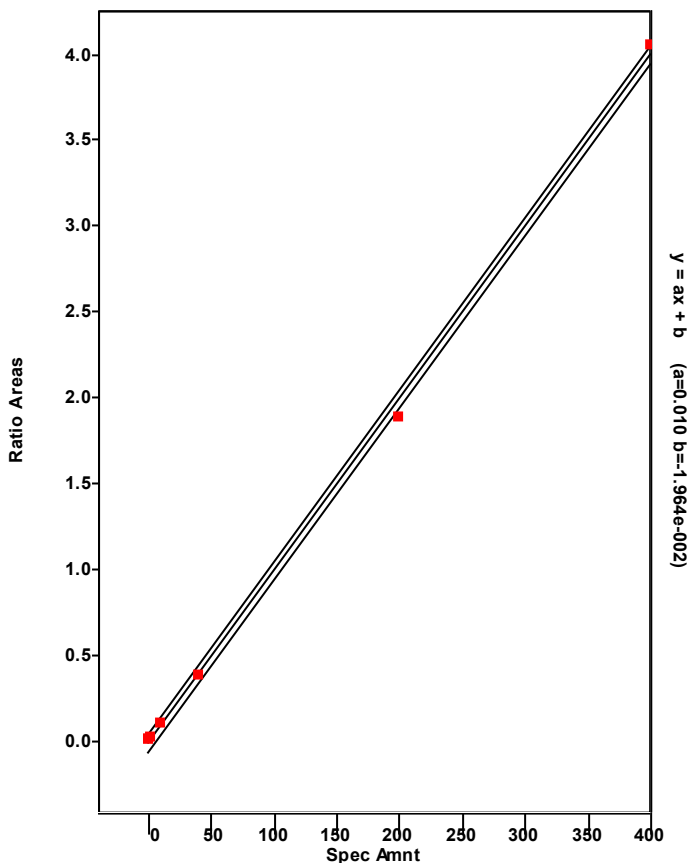
Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	57670
RM1 Area	45377
RM1 Ratio (A)	0.7868
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

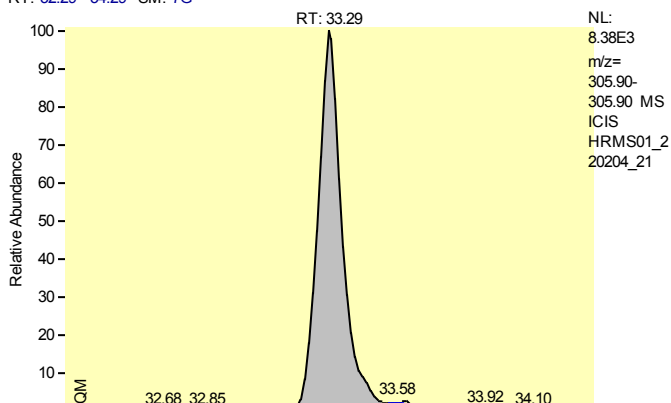
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



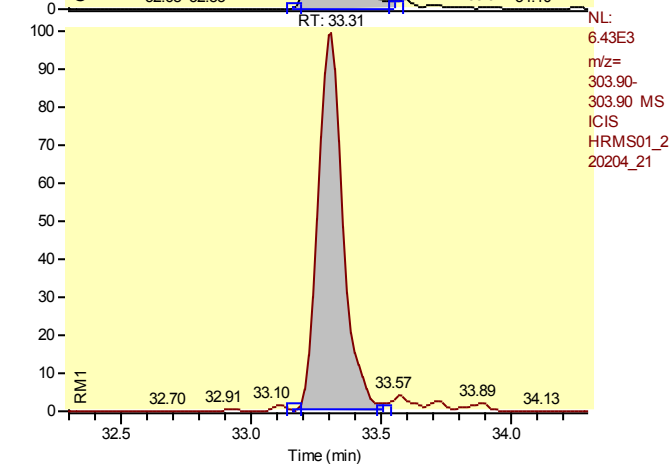
Chromatogram

Entry Parameters

RT: 32.29 - 34.29 SM: 7G



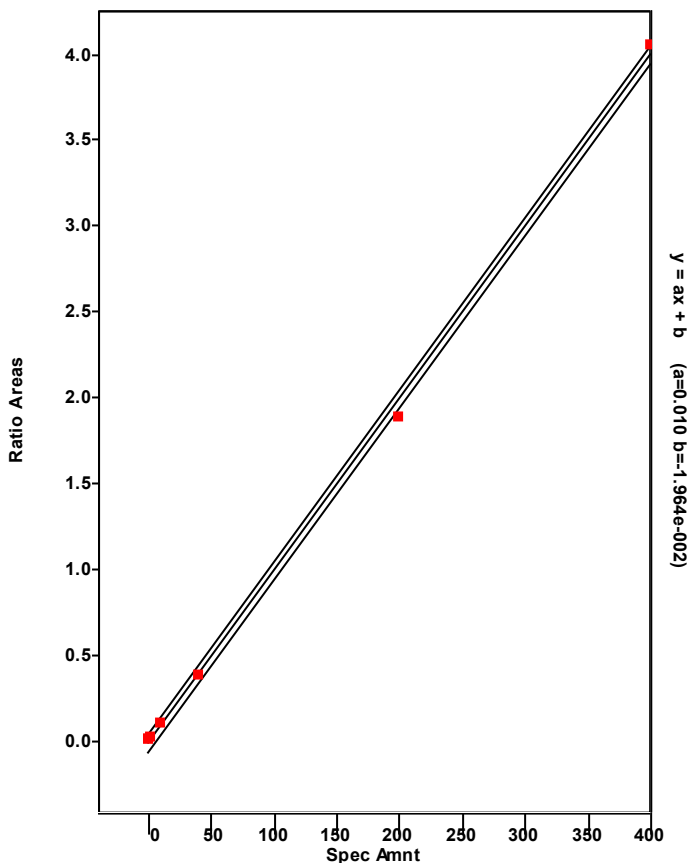
Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	57670
RM1 Area	45377
RM1 Ratio (A)	0.7868
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

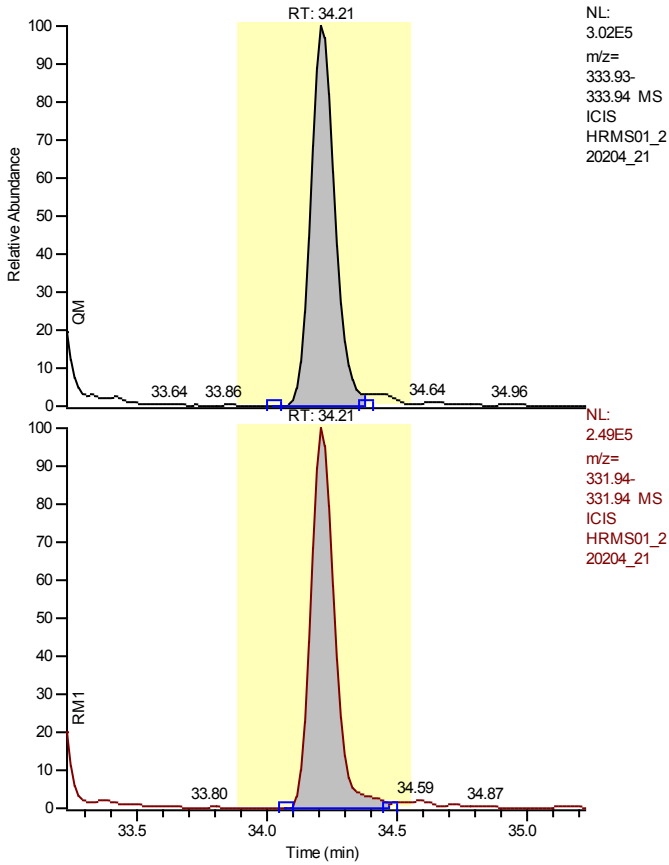
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G



NL:
 3.02E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_21

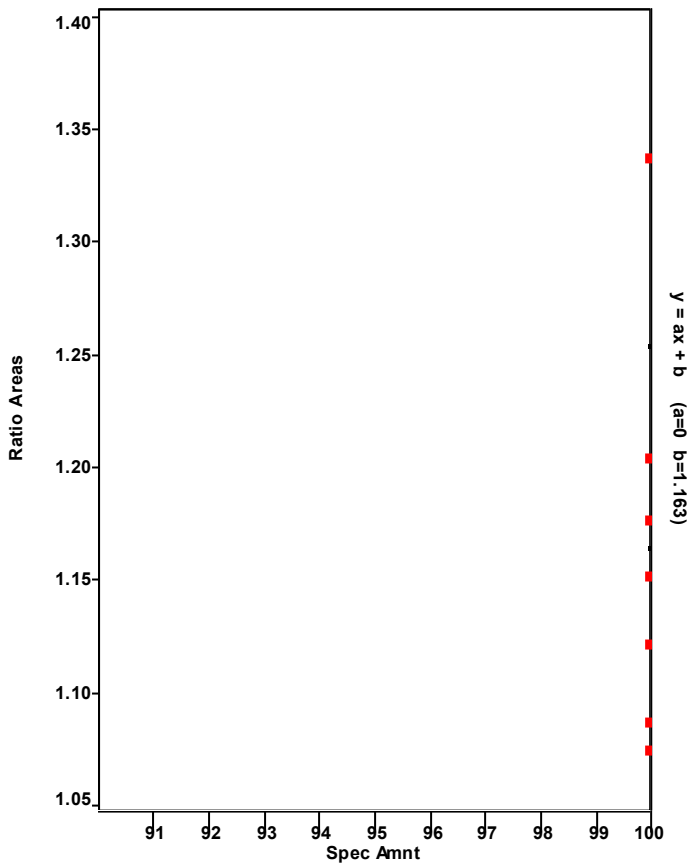
NL:
 2.49E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1933871
RM1 Area	1566334
RM1 Ratio (A)	0.8099
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

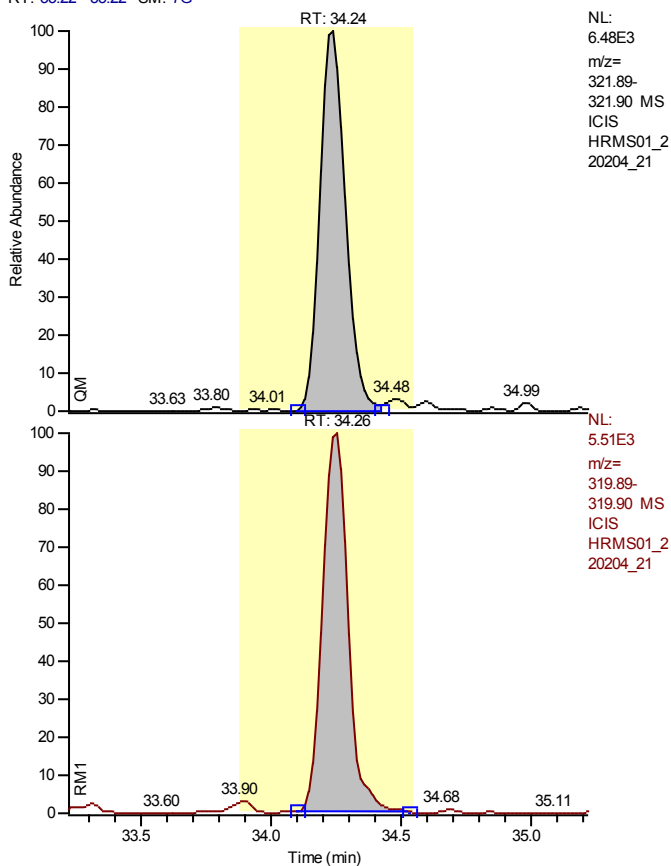
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

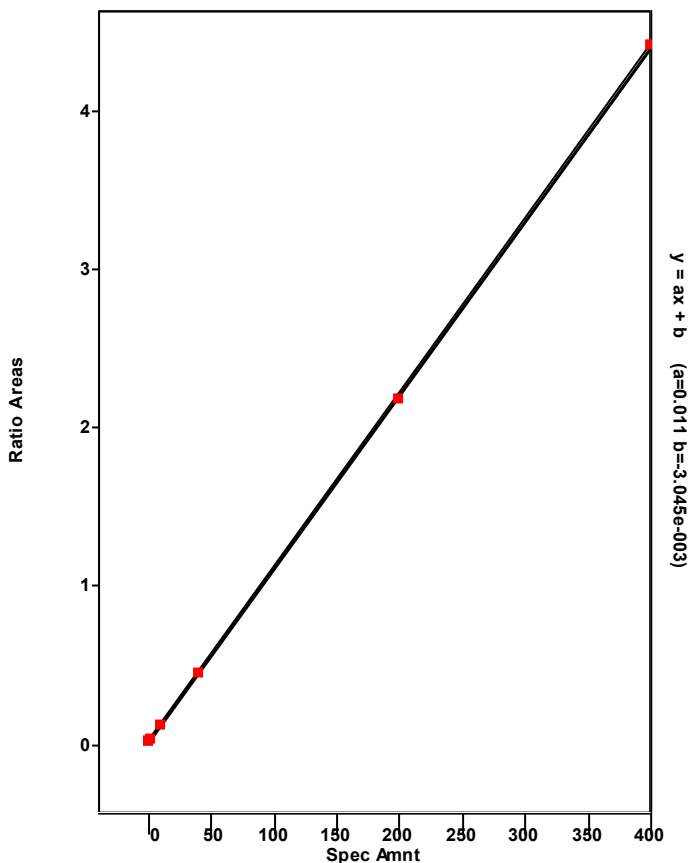


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	43845
RM1 Area	36998
RM1 Ratio (A)	0.8438
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

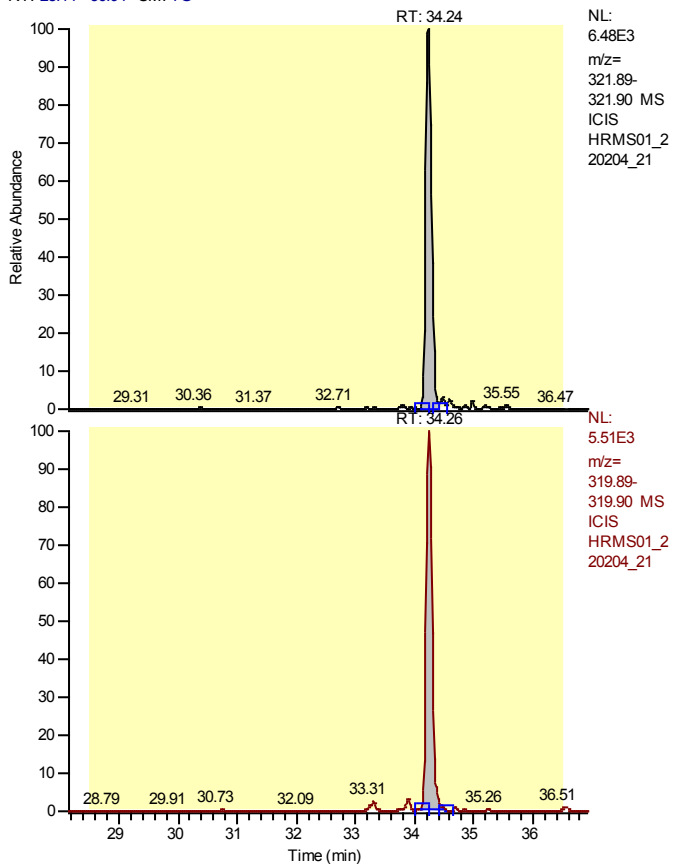
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.14 - 36.94 SM: 7G

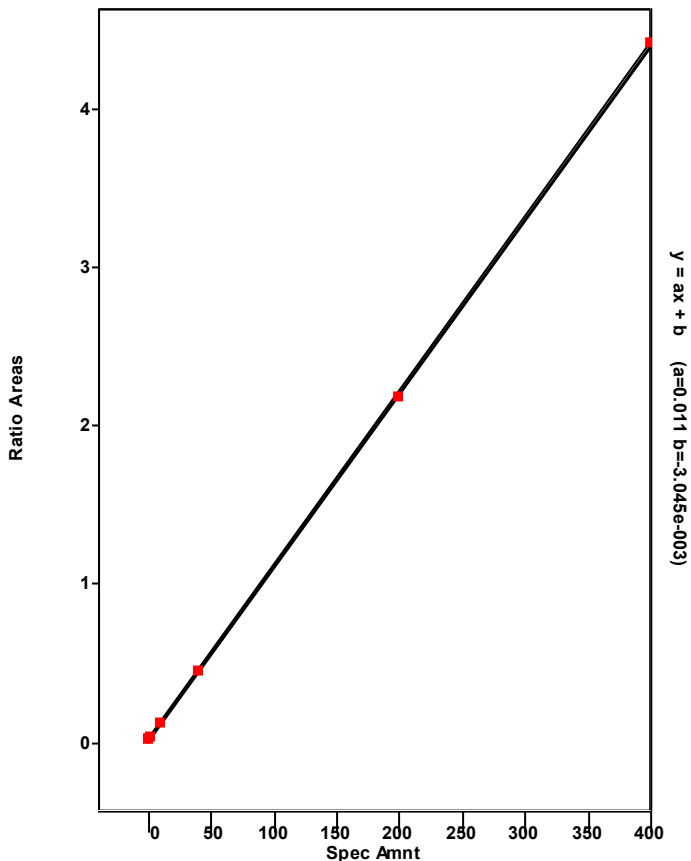


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	43845
RM1 Area	36998
RM1 Ratio (A)	0.8438
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

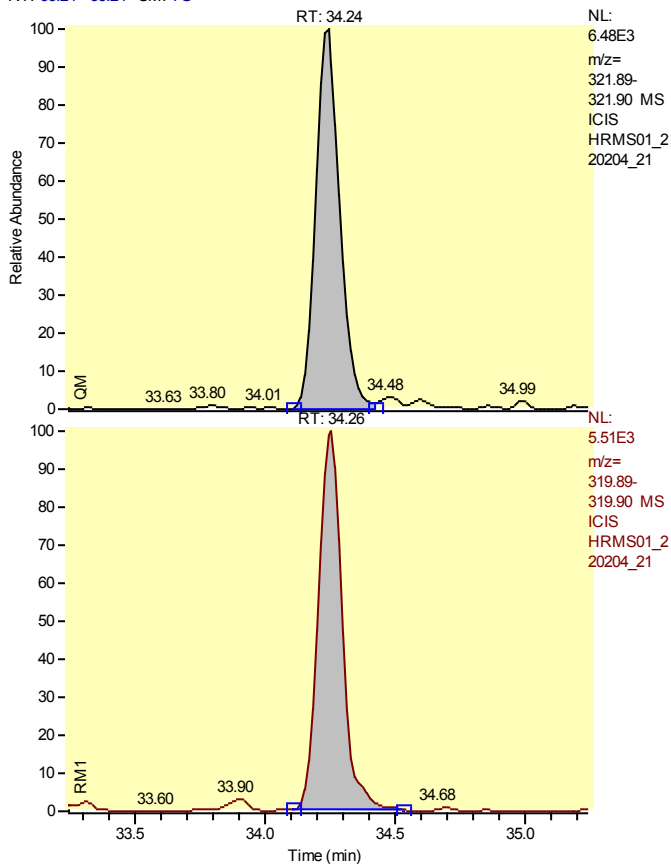
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G

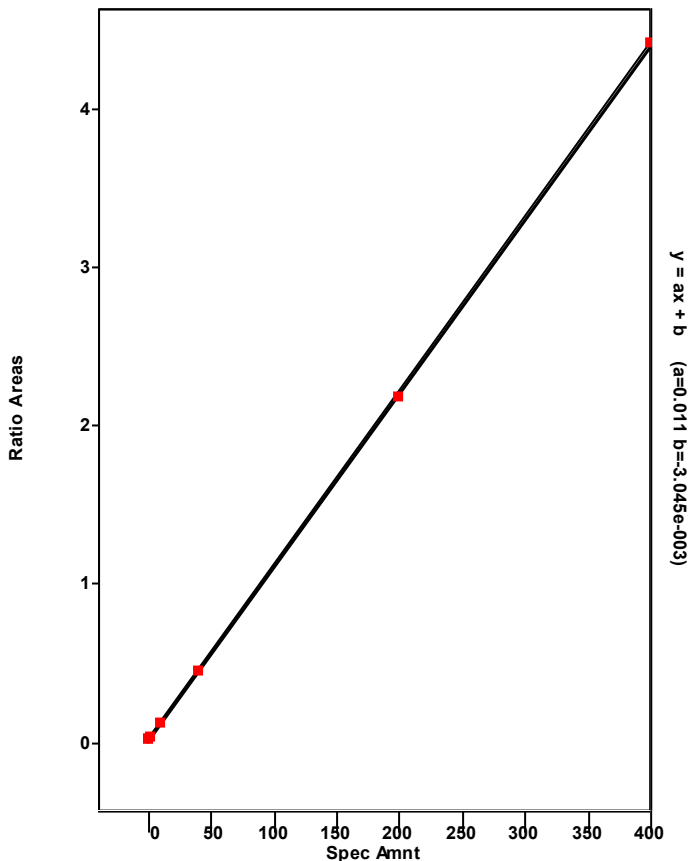


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	43845
RM1 Area	36998
RM1 Ratio (A)	0.8438
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

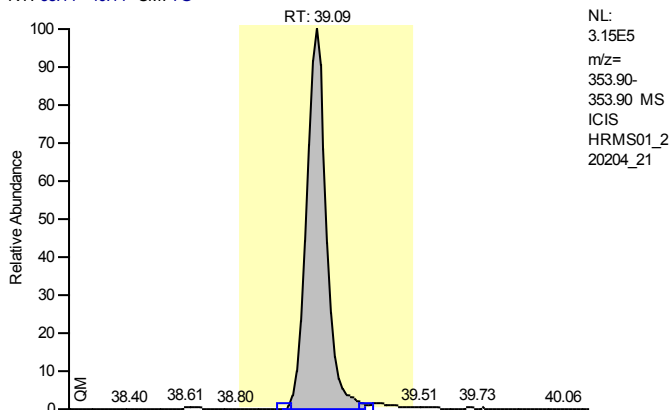
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



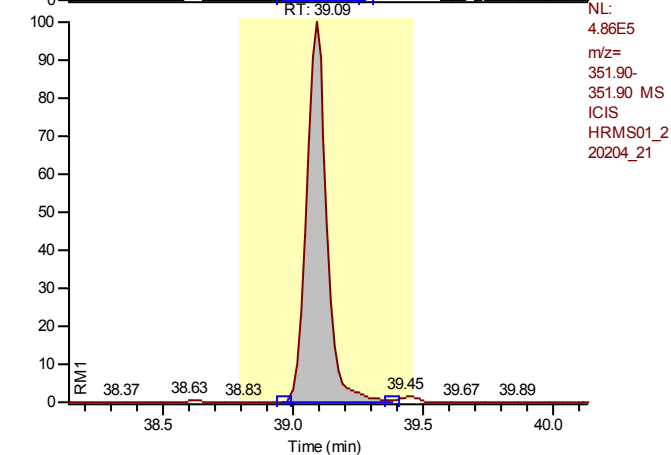
Chromatogram

Entry Parameters

RT: 38.14 - 40.14 SM: 7G



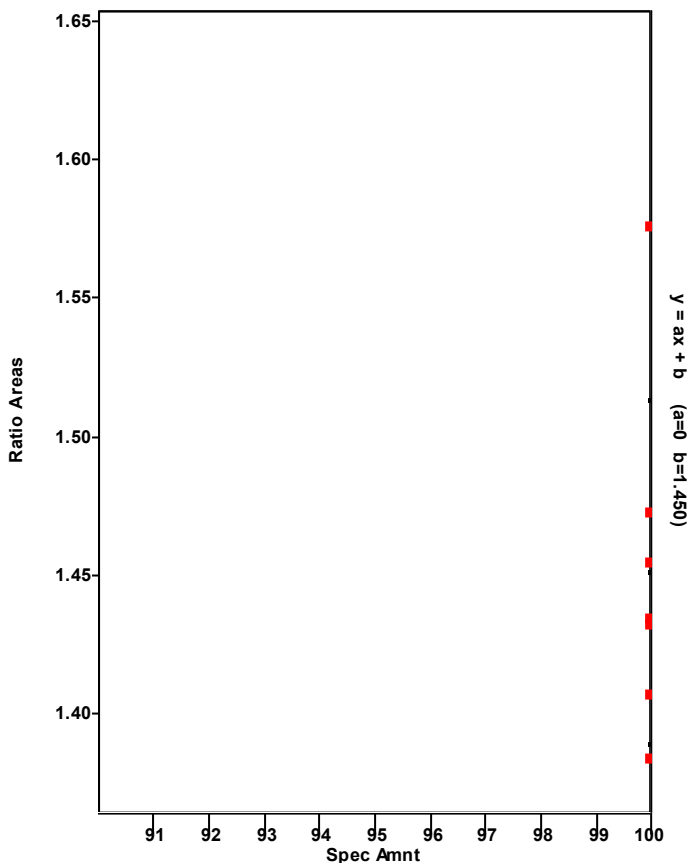
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1685073
RM1 Area	2635344
RM1 Ratio (A)	1.5639
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

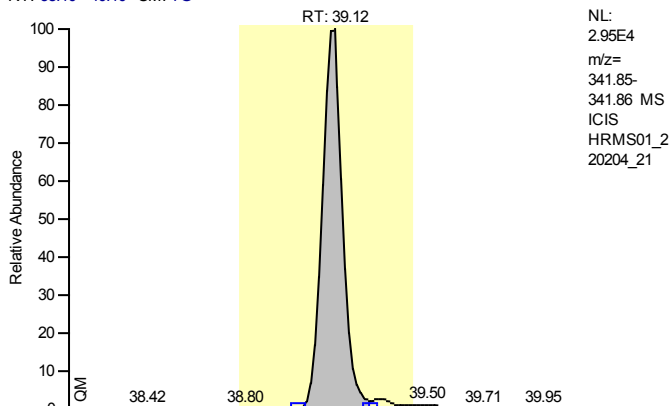
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



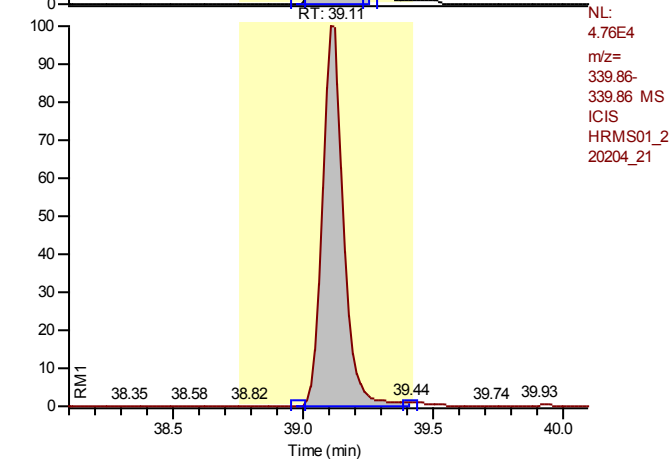
Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G



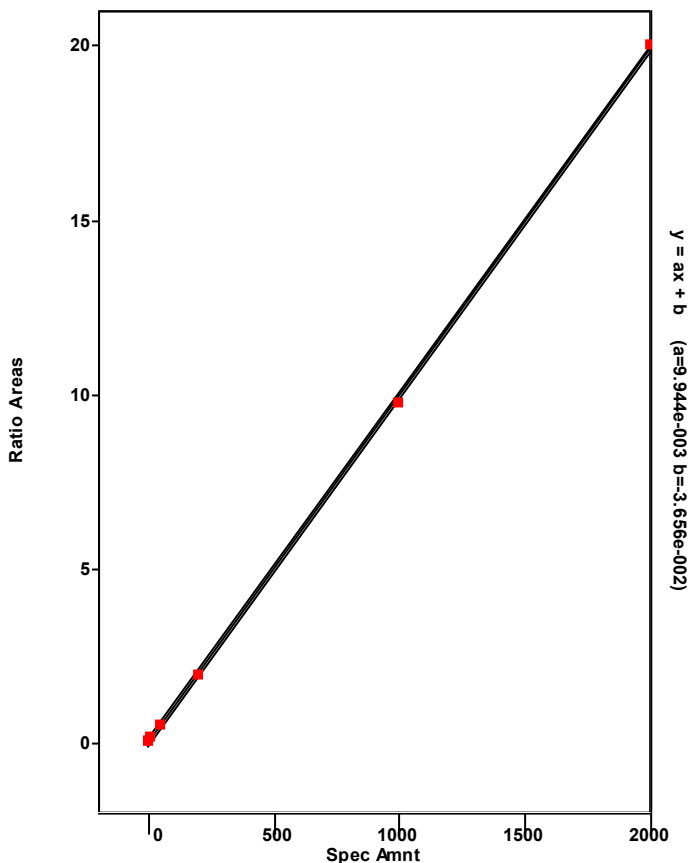
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	162045
RM1 Area	271882
RM1 Ratio (A)	1.6778
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.3000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

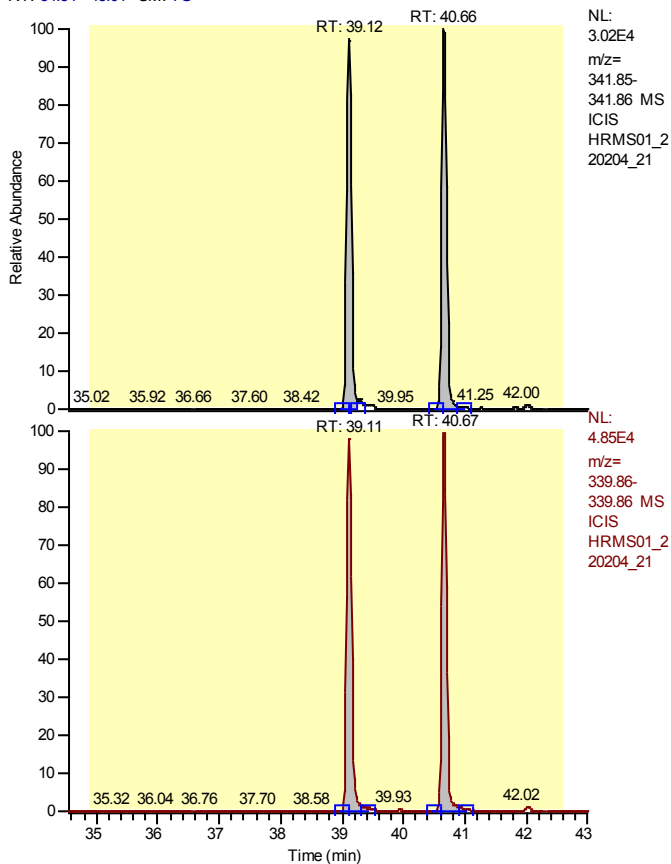
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.54 - 43.01 SM: 7G

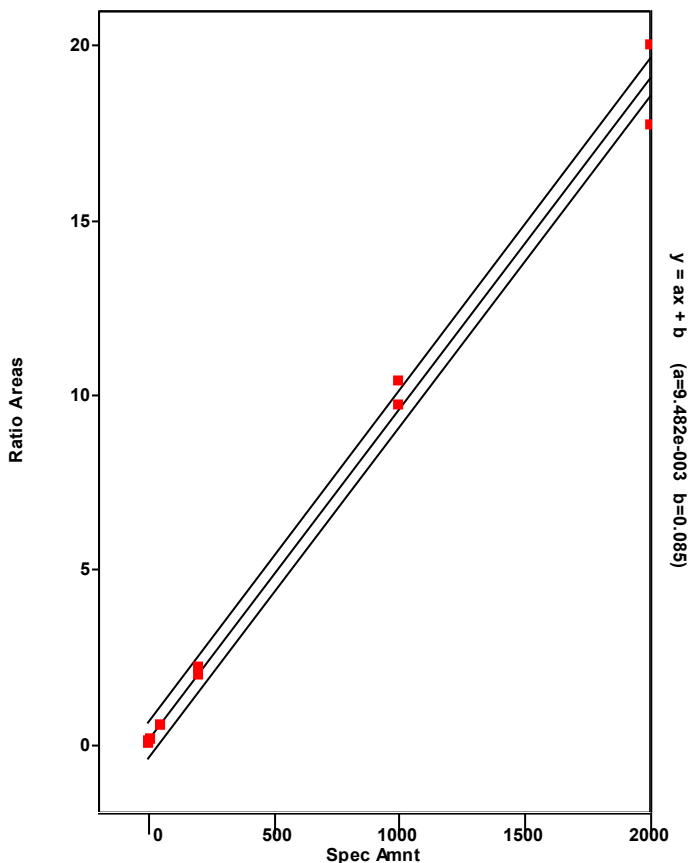


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	329500
RM1 Area	535068
RM1 Ratio (A)	1.6239
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	20.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

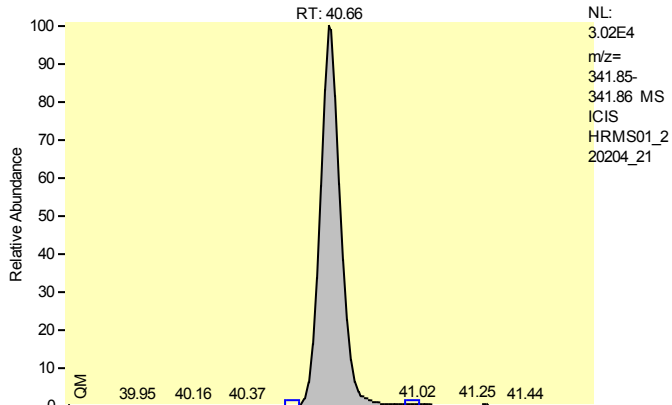
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



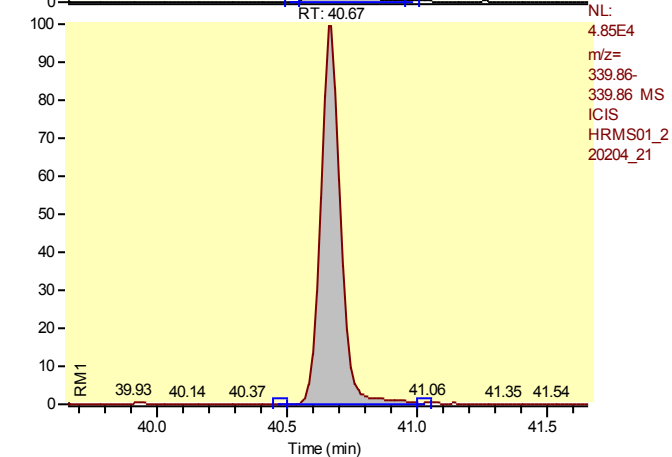
Chromatogram

Entry Parameters

RT: 39.66 - 41.66 SM: 7G



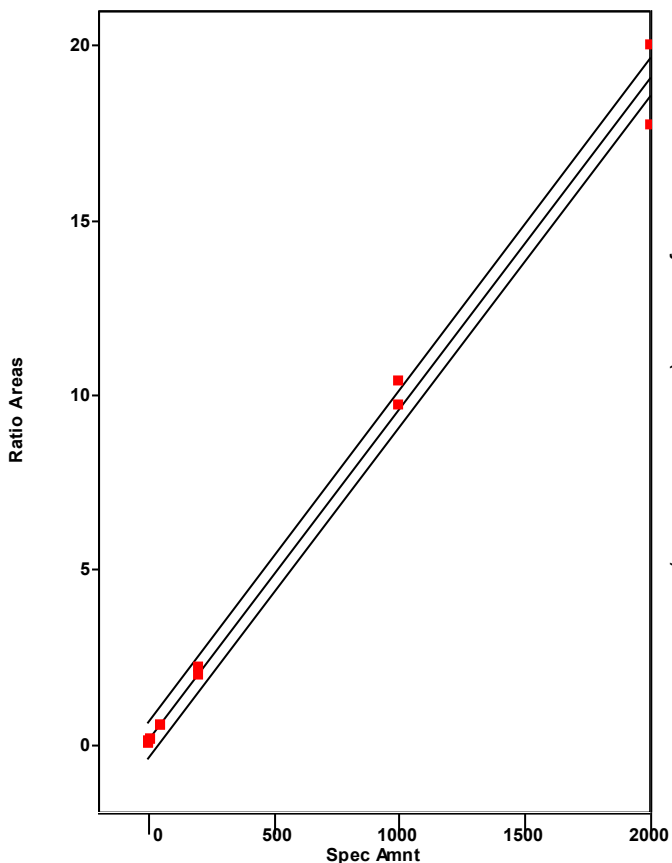
Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	167454
RM1 Area	263186
RM1 Ratio (A)	1.5717
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

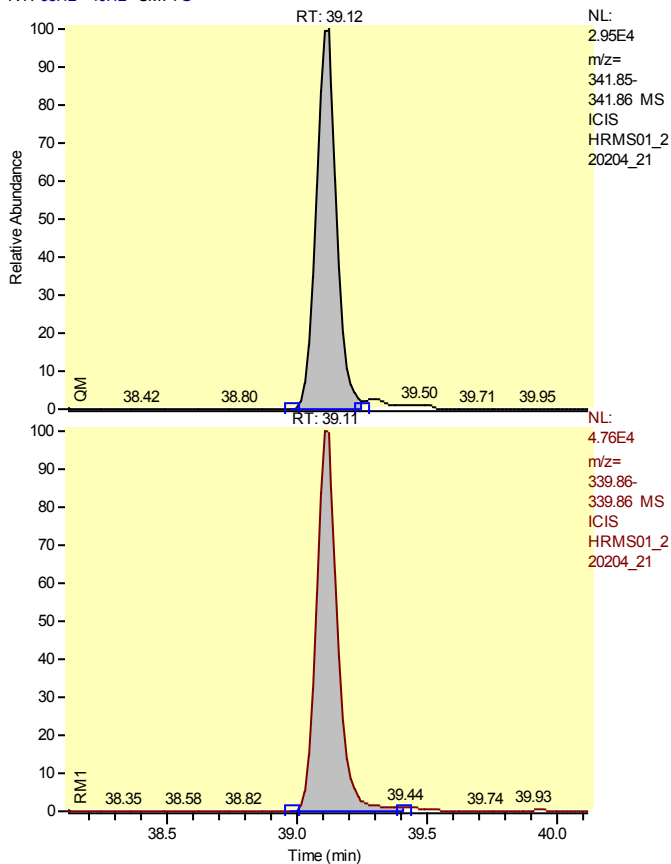
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.12 - 40.12 SM: 7G

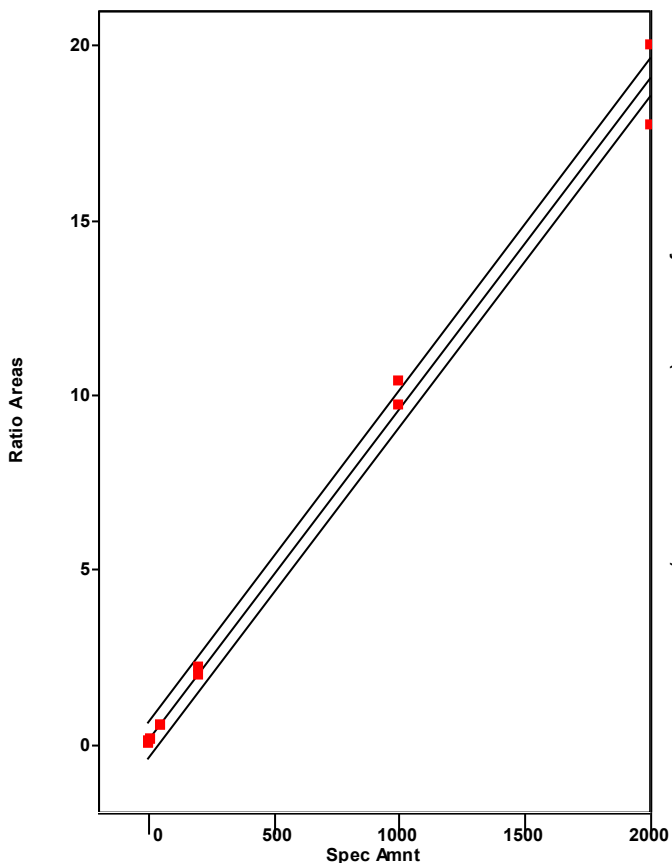


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	162045
RM1 Area	271882
RM1 Ratio (A)	1.6778
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

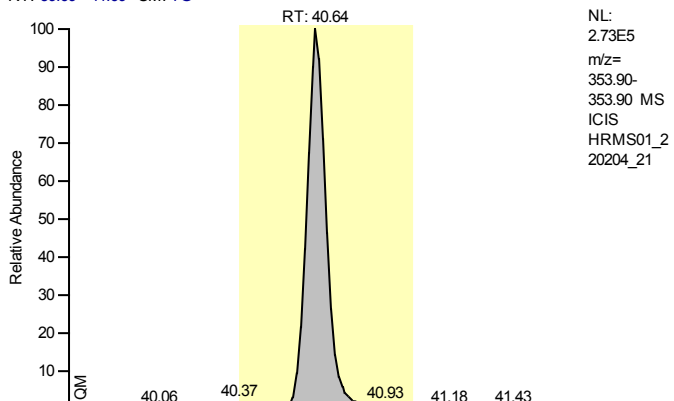
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

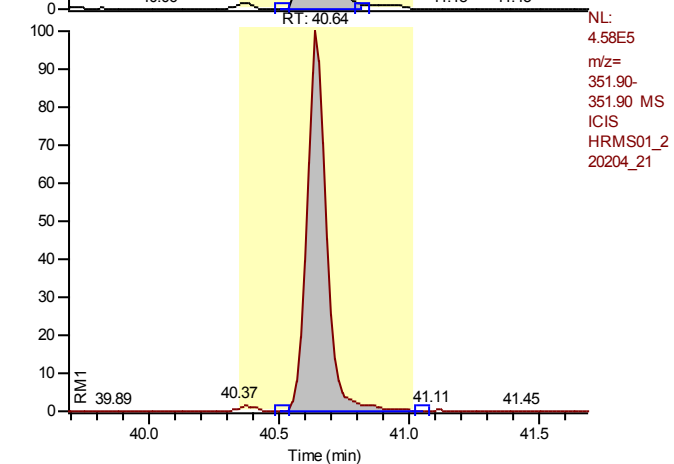
Entry Parameters

RT: 39.69 - 41.69 SM: 7G



NL:
2.73E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20204_21

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1453755
RM1 Area	2434950
RM1 Ratio (A)	1.6749
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

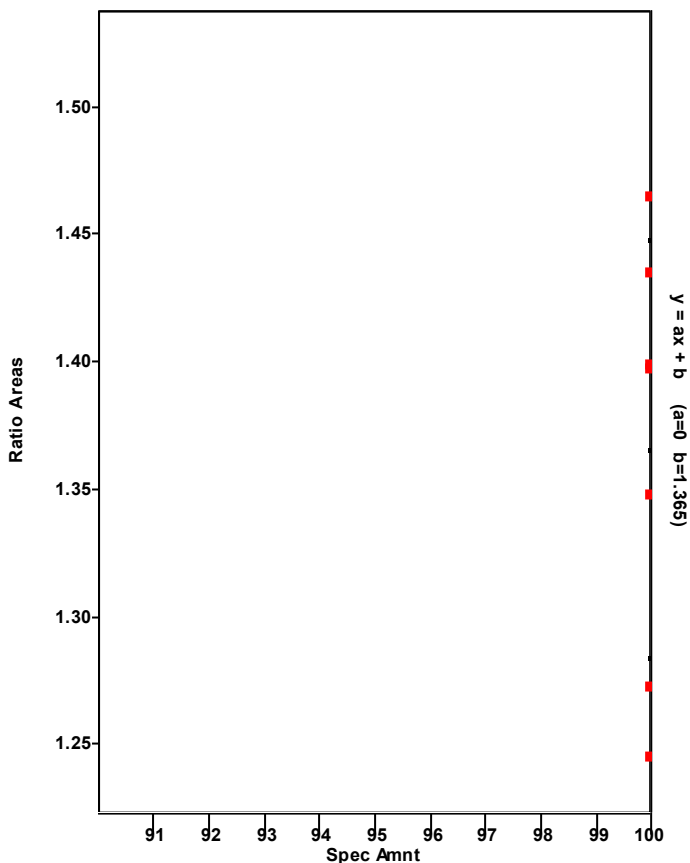


NL:
4.58E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20204_21

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

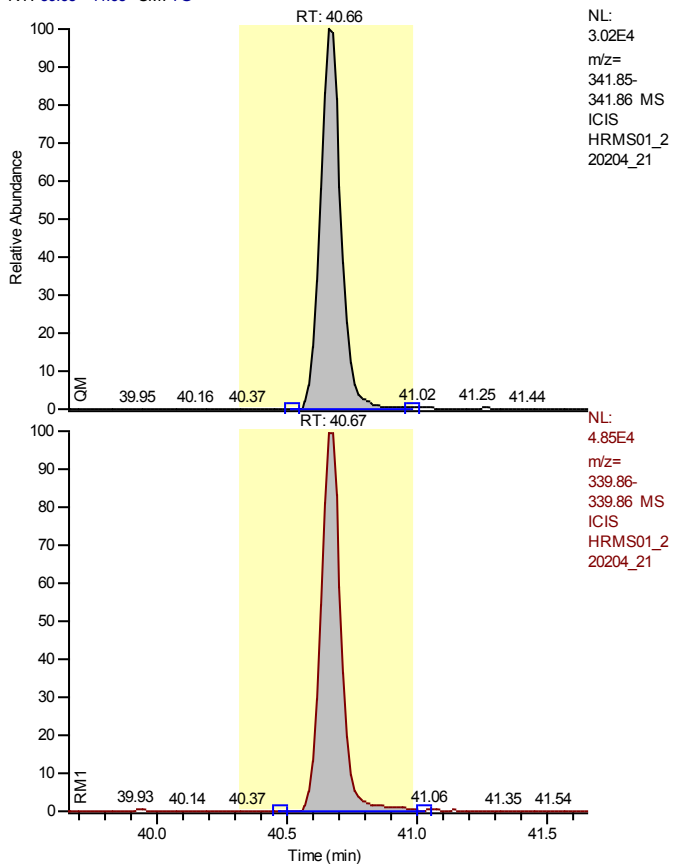
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G



NL:
3.02E4
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20204_21

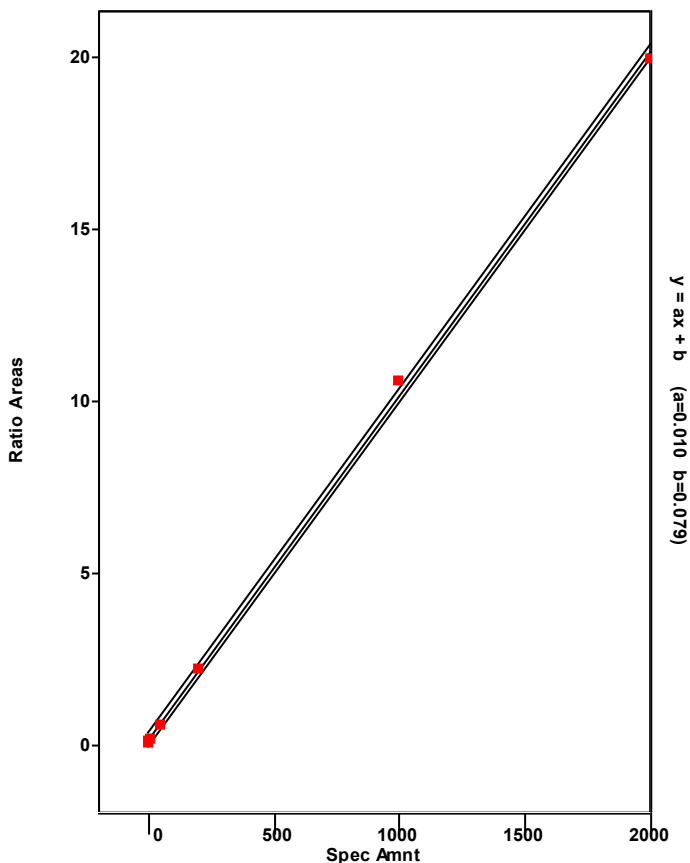
NL:
4.85E4
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20204_21

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	167454
RM1 Area	263186
RM1 Ratio (A)	1.5717
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	3.0000
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

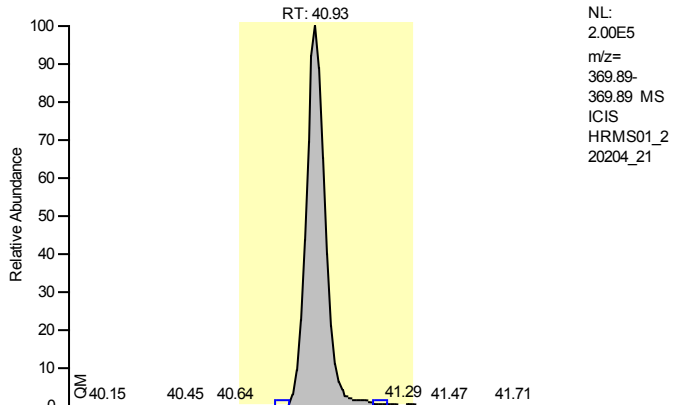
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

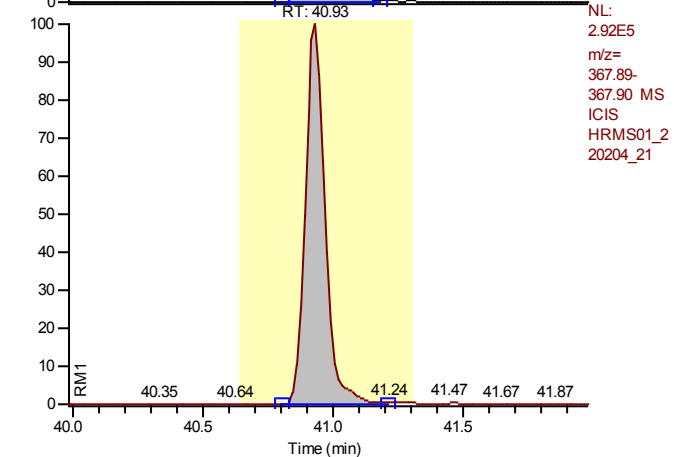
Entry Parameters

RT: 39.98 - 41.98 SM: 7G



NL:
 2.00E5
 m/z=
 369.89-
 369.89 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1040324
RM1 Area	1570590
RM1 Ratio (A)	1.5097
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

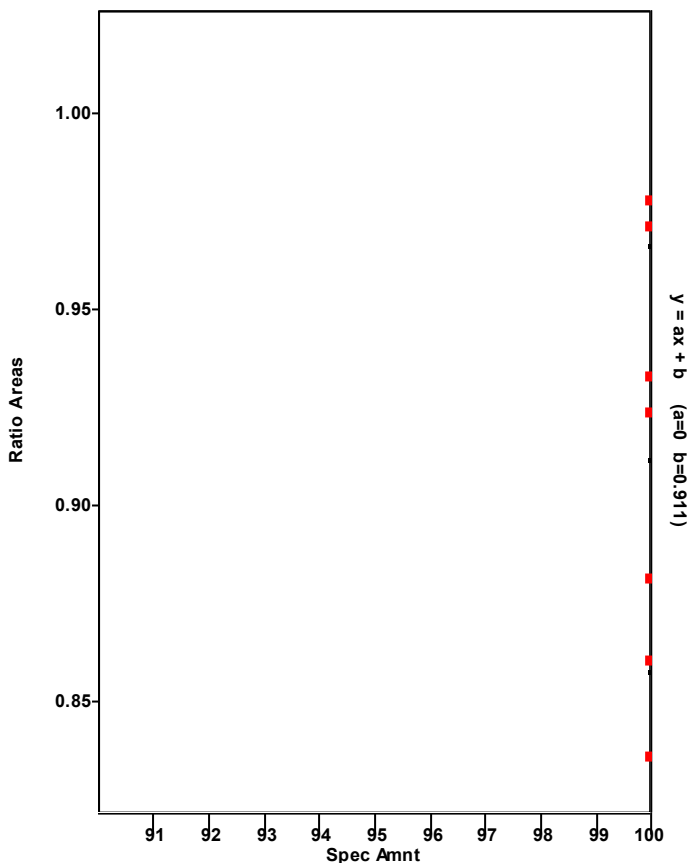


NL:
 2.92E5
 m/z=
 367.89-
 367.90 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

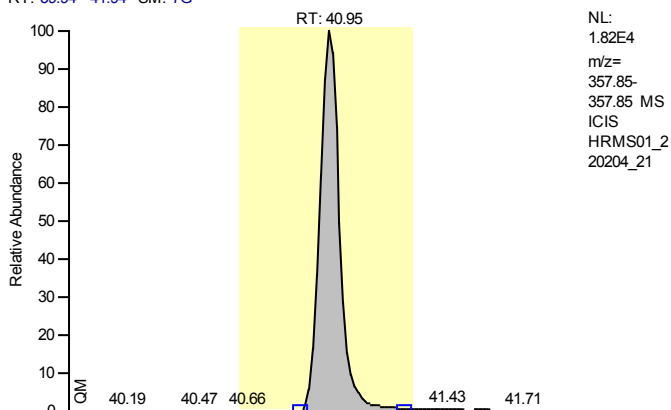
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



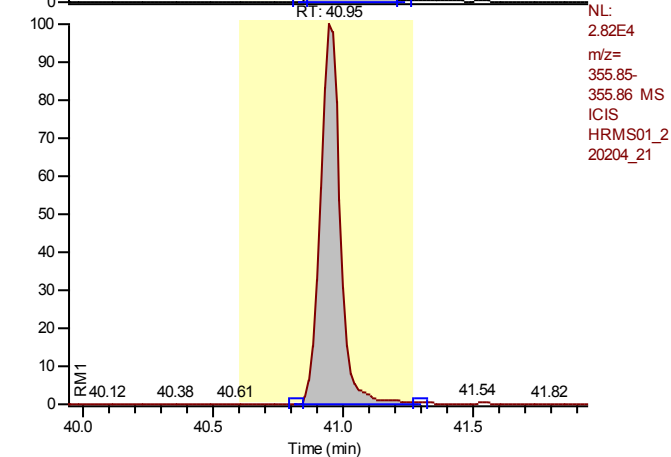
Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G



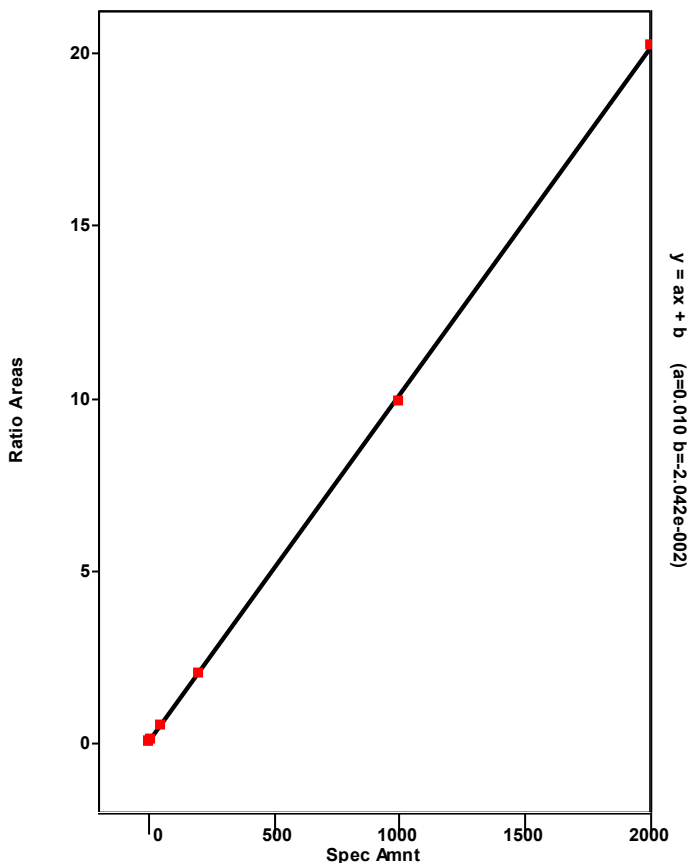
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	95945
RM1 Area	150561
RM1 Ratio (A)	1.5692
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

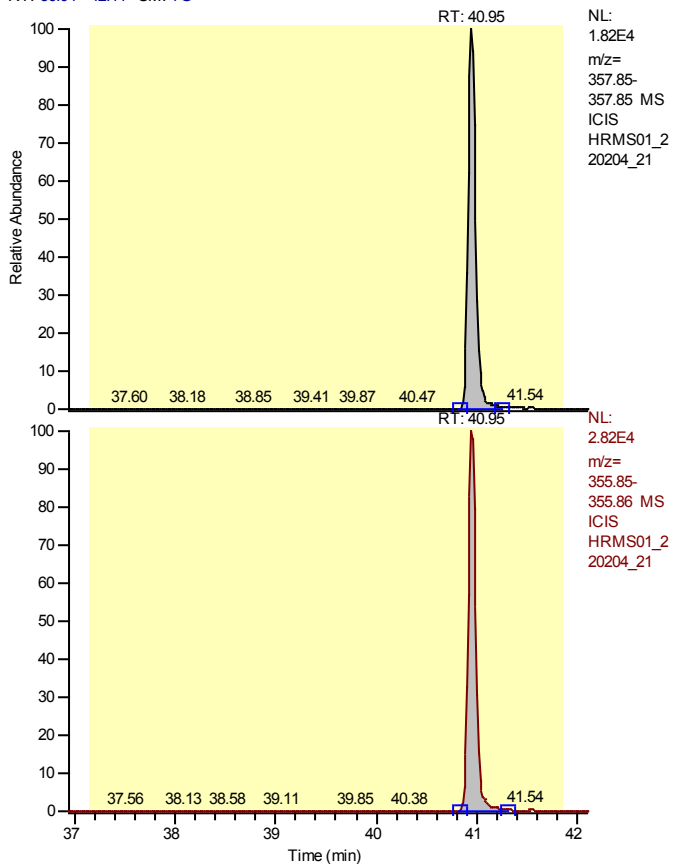
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.94 - 42.11 SM: 7G

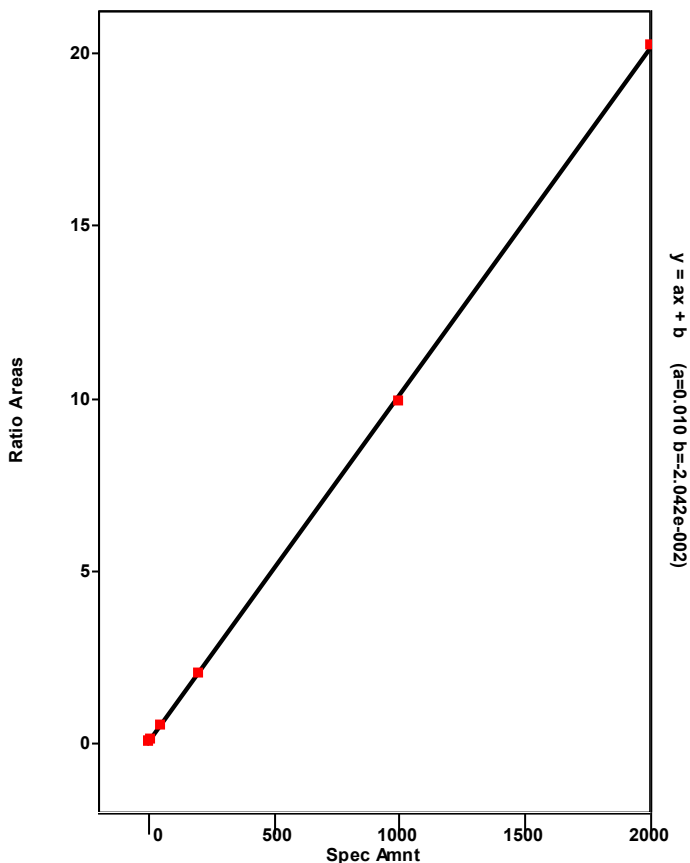


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	95945
RM1 Area	150561
RM1 Ratio (A)	1.5692
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

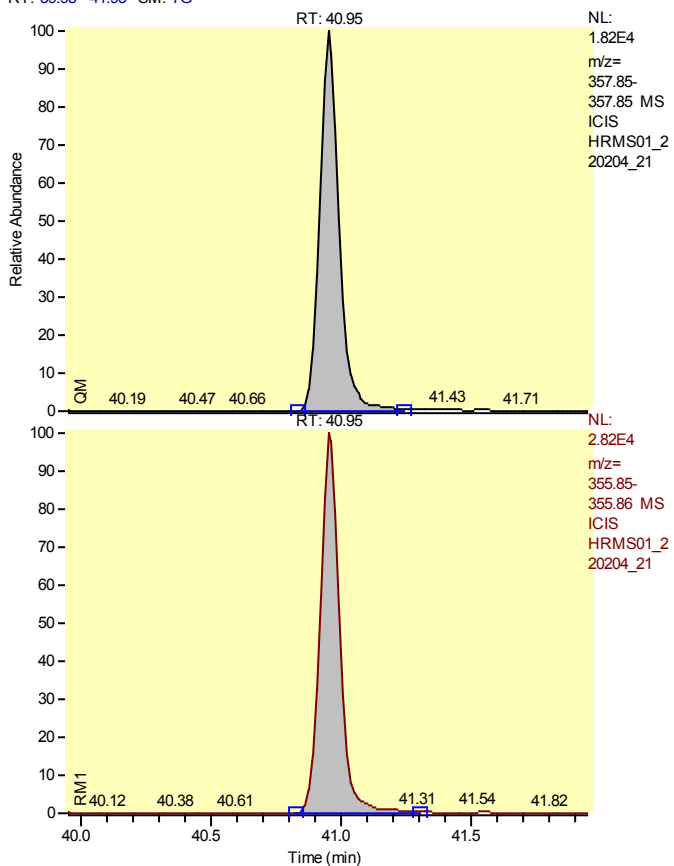
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.95 - 41.95 SM: 7G

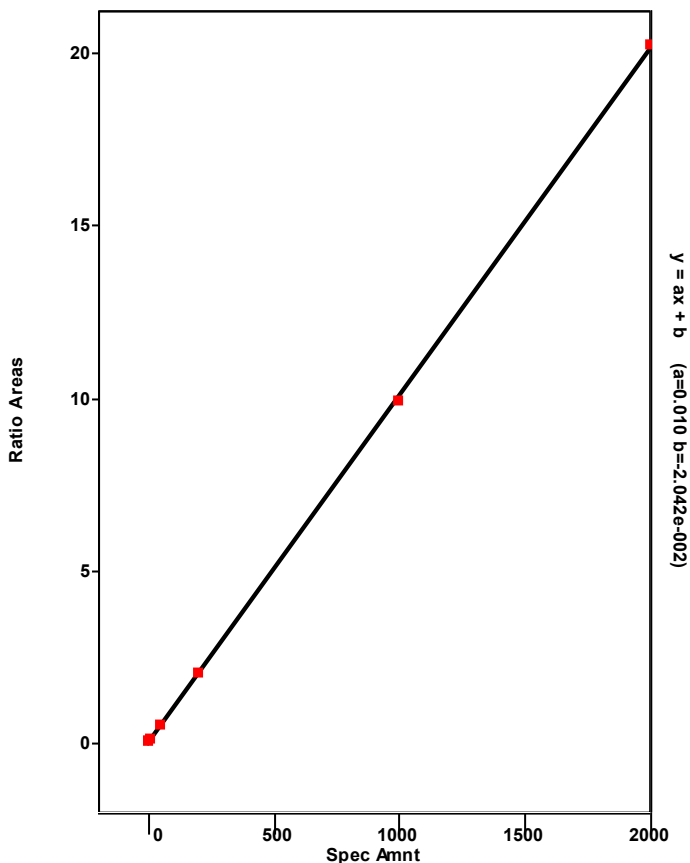


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	95945
RM1 Area	150561
RM1 Ratio (A)	1.5692
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

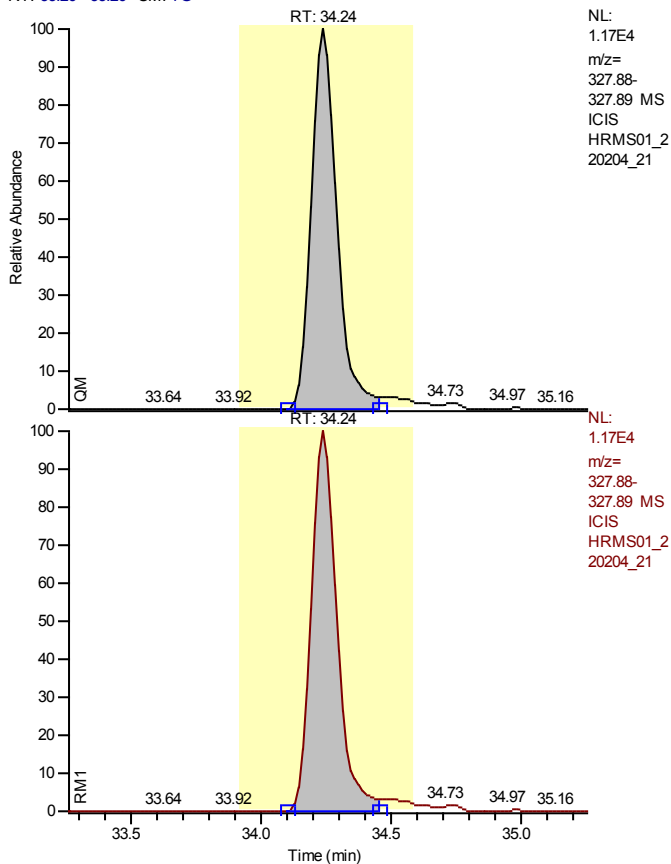
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.26 - 35.26 SM: 7G



NL:
 1.17E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_21

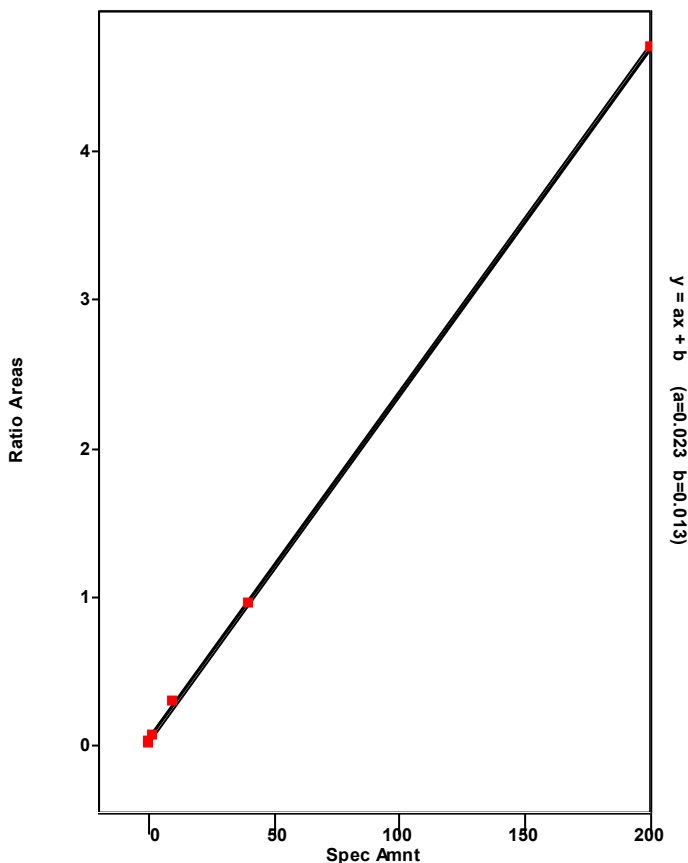
NL:
 1.17E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	79402
RM1 Area	79402
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	2.00
Calculated Amount (A)	2.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

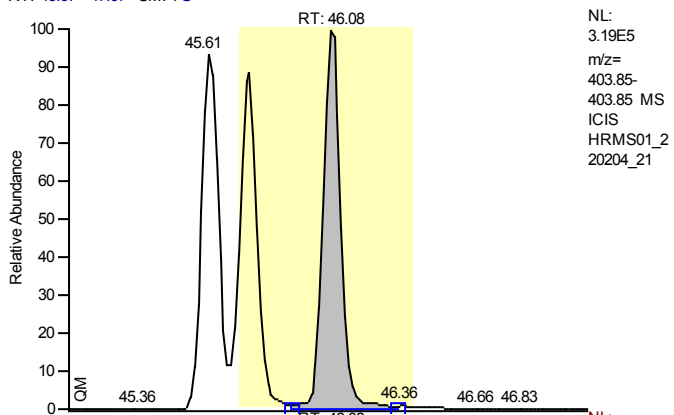
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

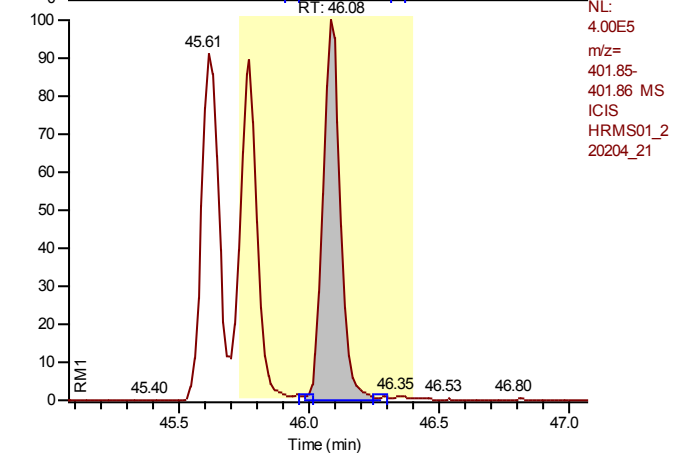
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 3.19E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1531191
RM1 Area	1878879
RM1 Ratio (A)	1.2271
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

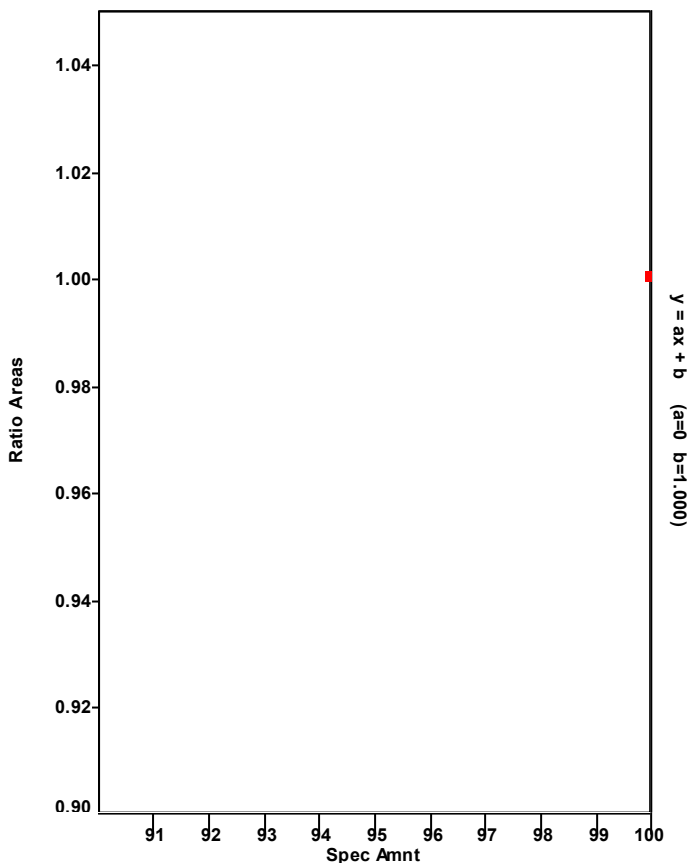


NL:
 4.00E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

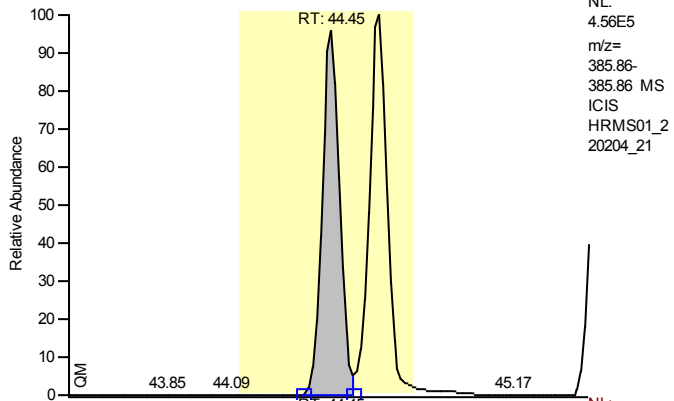
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

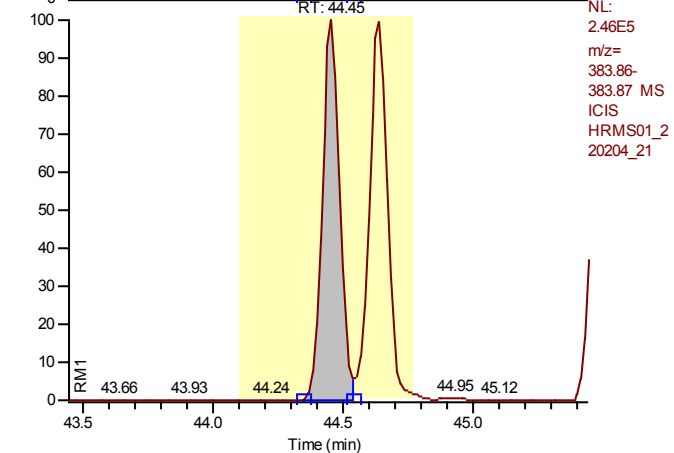
Entry Parameters

RT: 43.44 - 45.44 SM: 7G



NL:
 4.56E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2041722
RM1 Area	1138754
RM1 Ratio (A)	0.5577
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

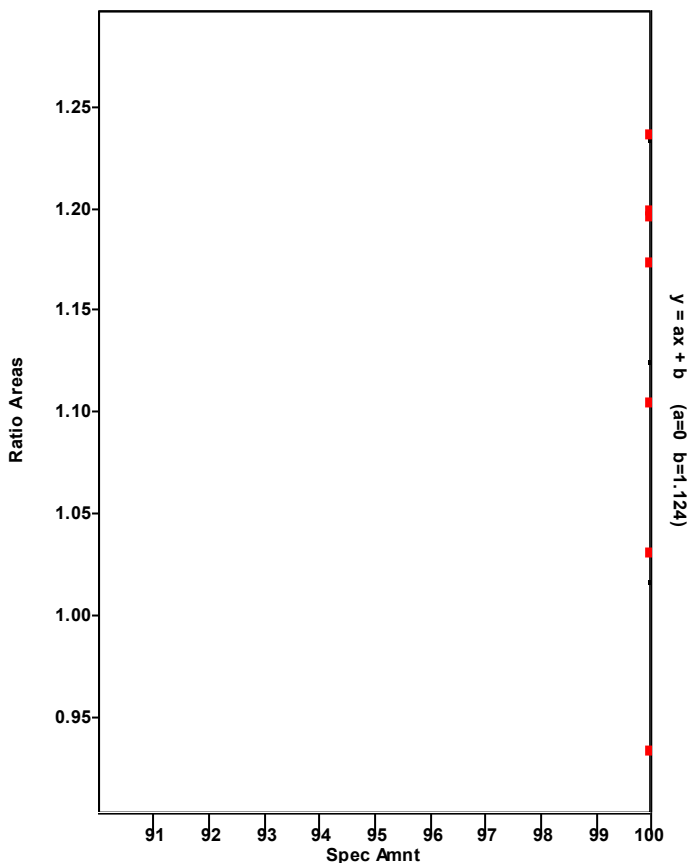


NL:
 2.46E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

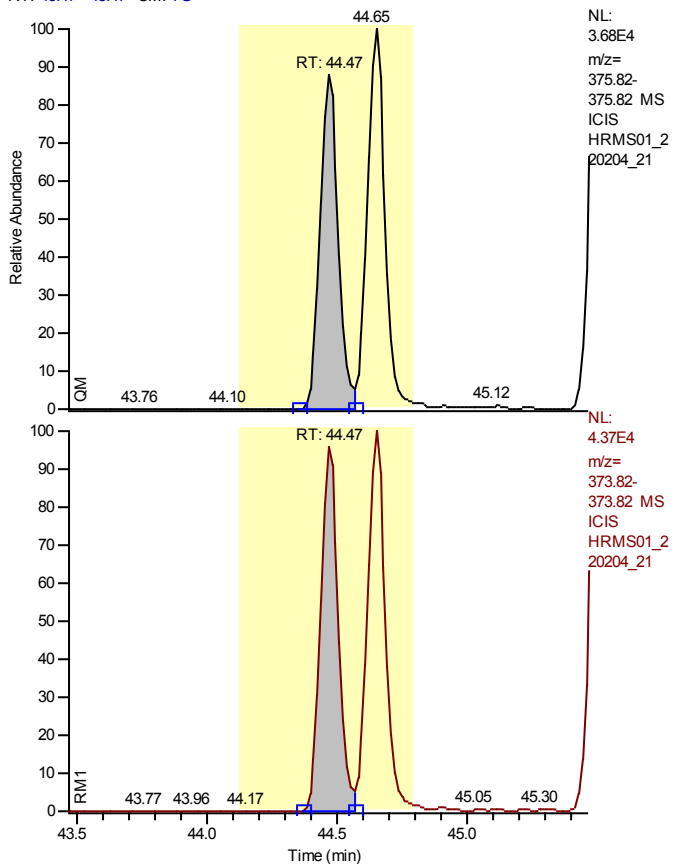
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.47 - 45.47 SM: 7G

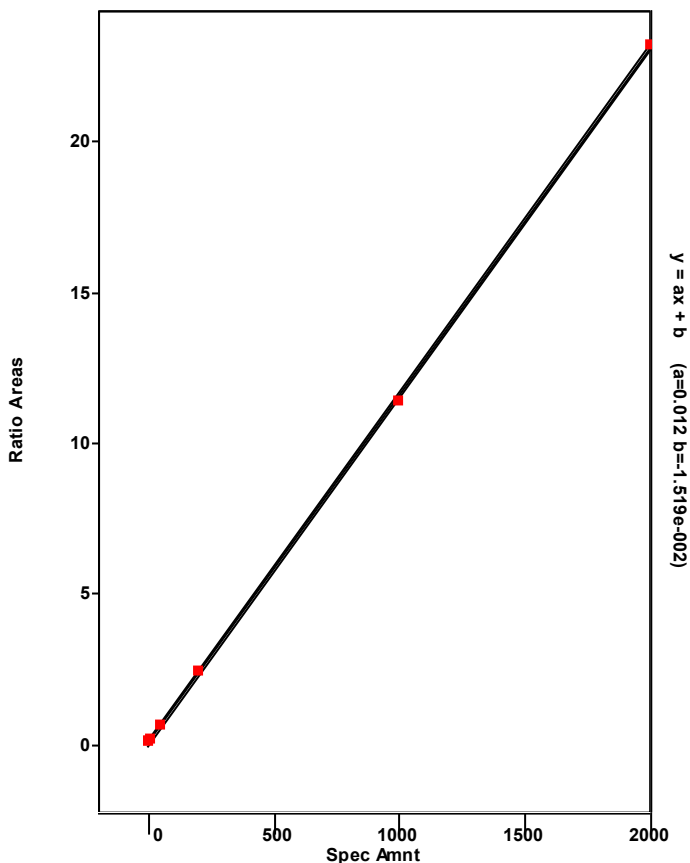


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	156367
RM1 Area	197523
RM1 Ratio (A)	1.2632
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

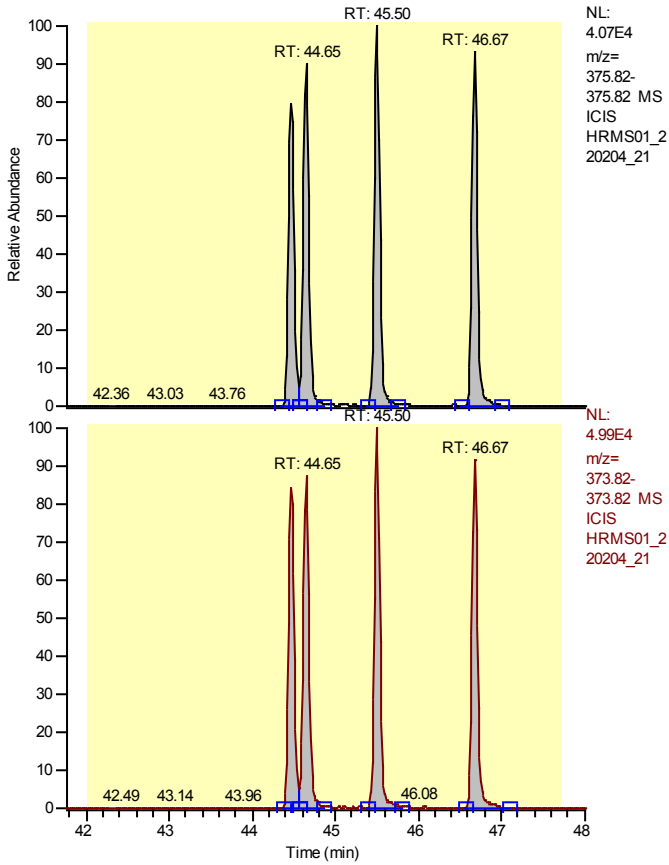
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.75- 48.02 SM: 7G

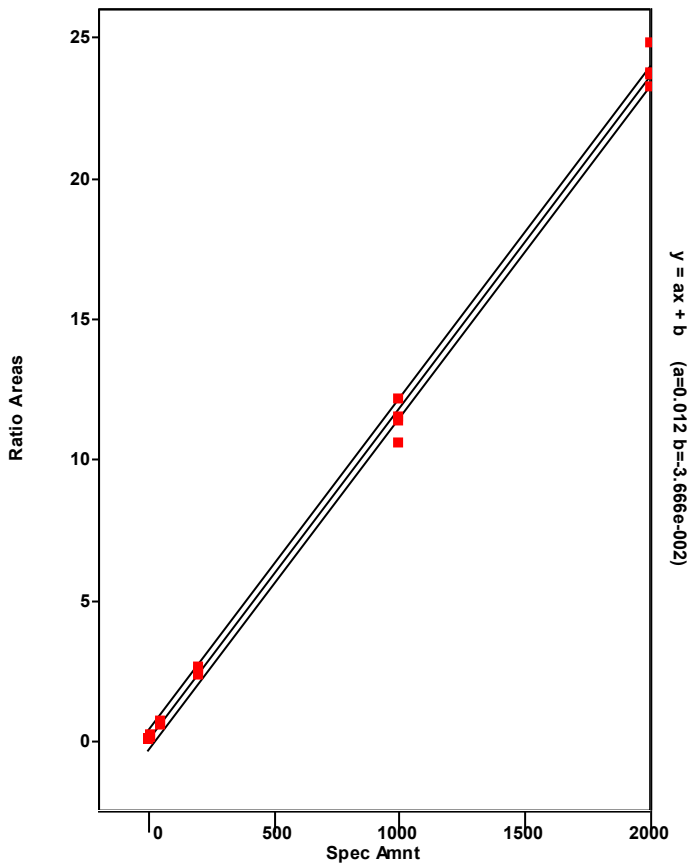


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	711324
RM1 Area	864794
RM1 Ratio (A)	1.2158
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	40.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

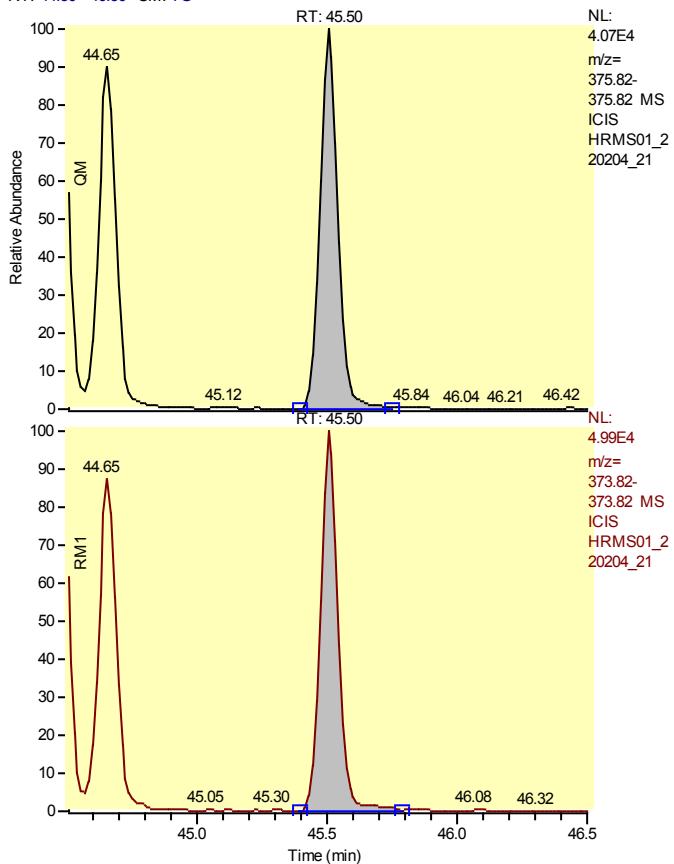
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 44.50 - 46.50 SM: 7G

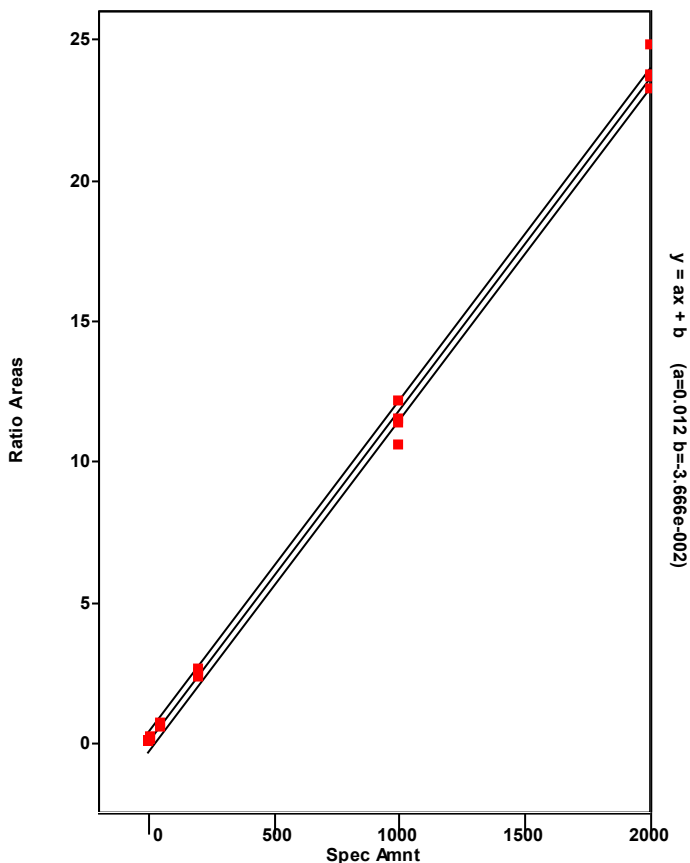


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	193510
RM1 Area	232821
RM1 Ratio (A)	1.2031
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

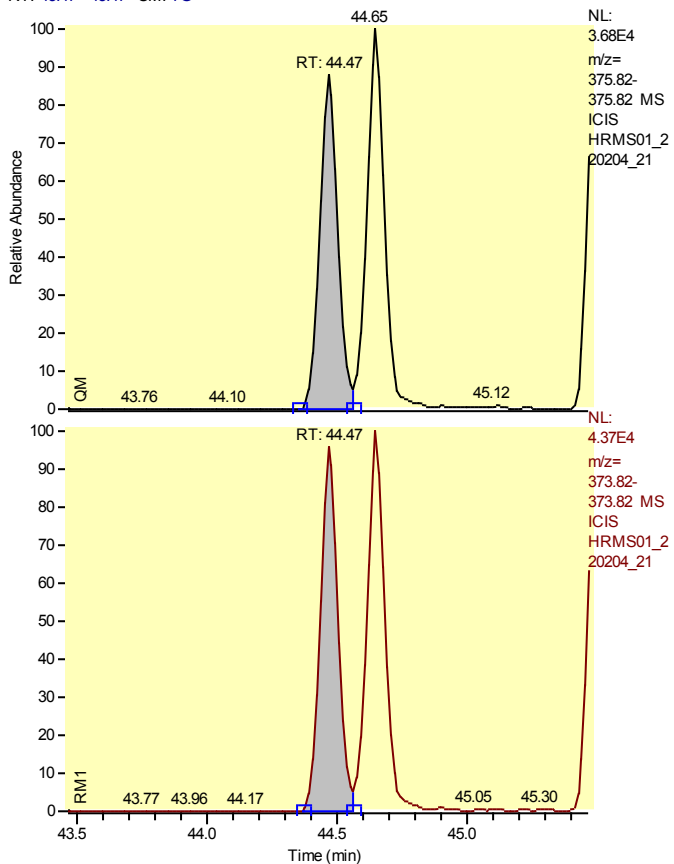
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.47 - 45.47 SM: 7G

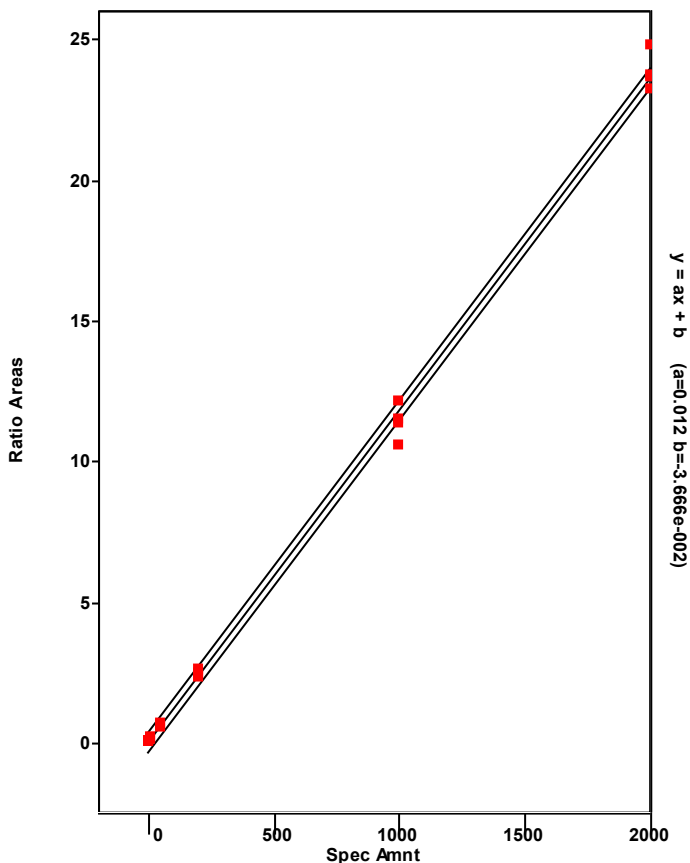


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	156367
RM1 Area	197523
RM1 Ratio (A)	1.2632
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

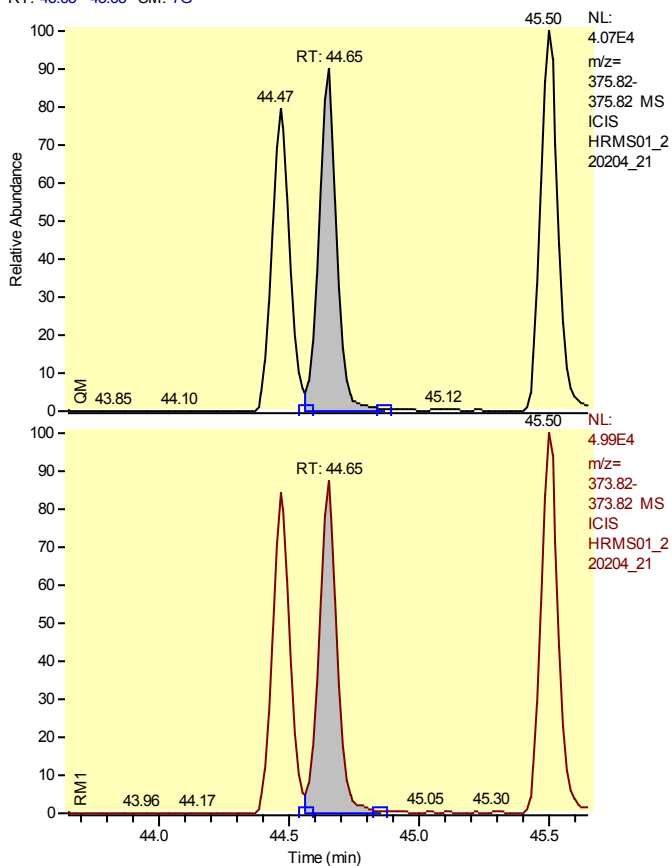
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

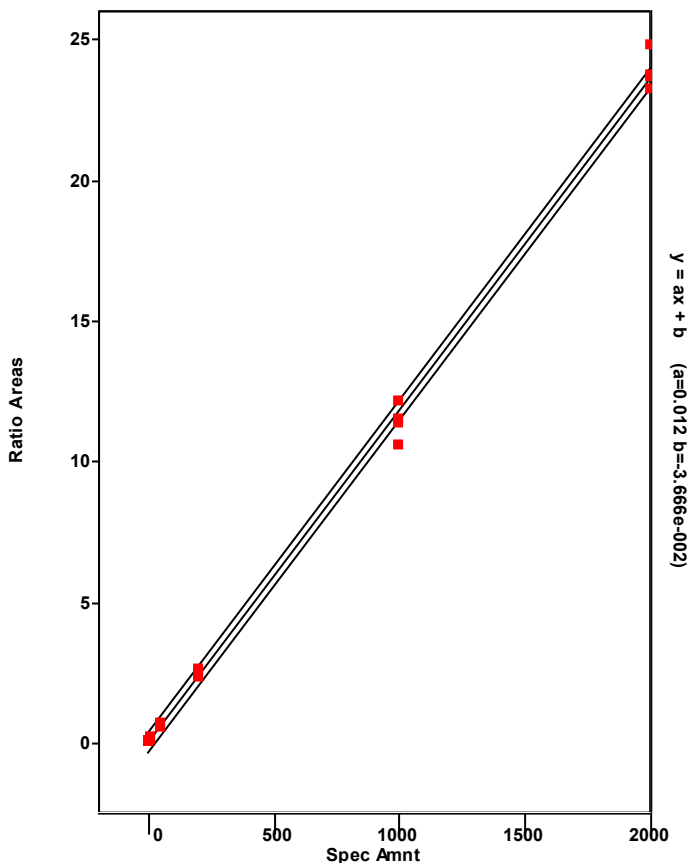


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	174539
RM1 Area	208397
RM1 Ratio (A)	1.1940
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

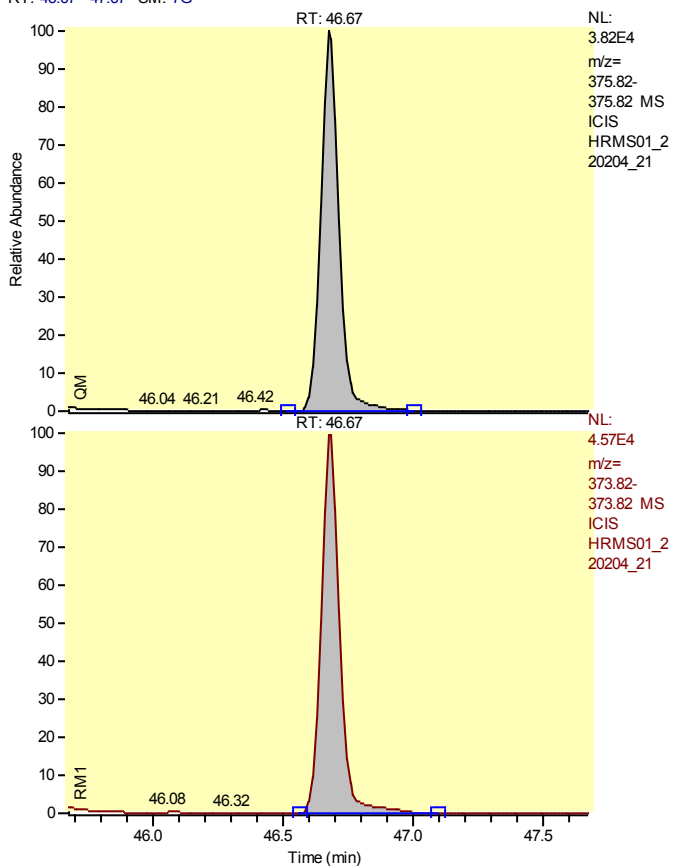
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

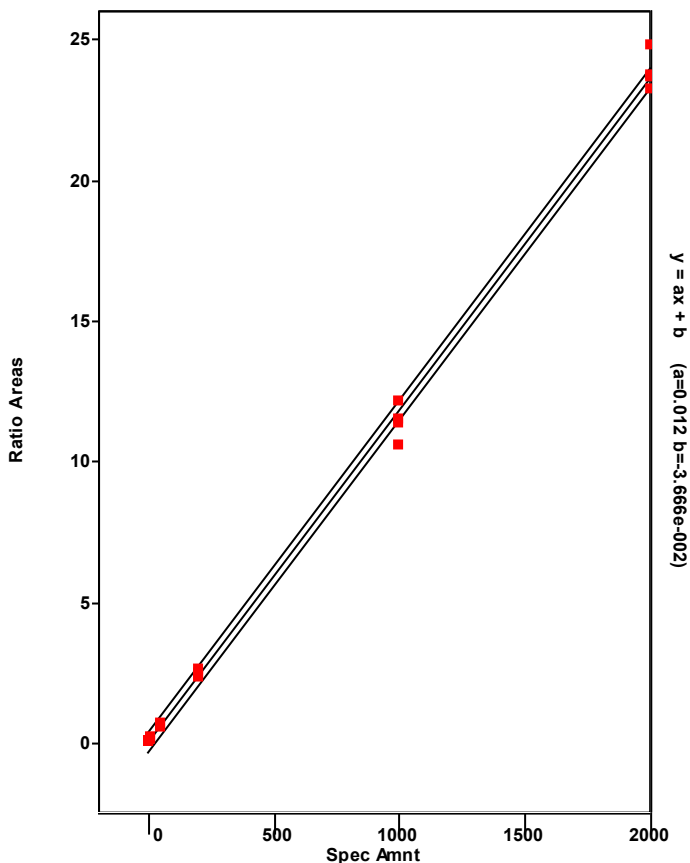


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	186908
RM1 Area	226054
RM1 Ratio (A)	1.2094
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

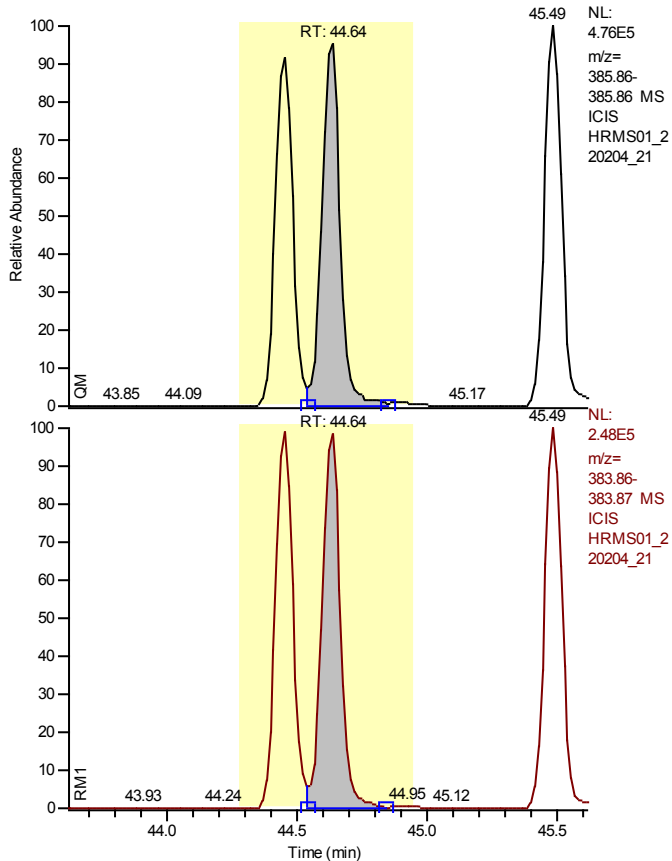
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

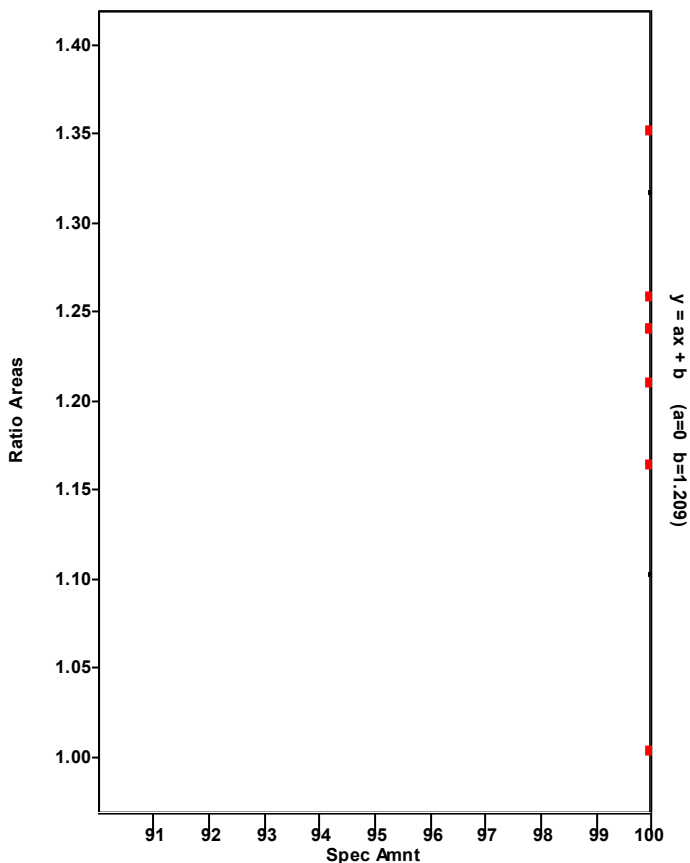


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	2217272
RM1 Area	1200540
RM1 Ratio (A)	0.5414
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

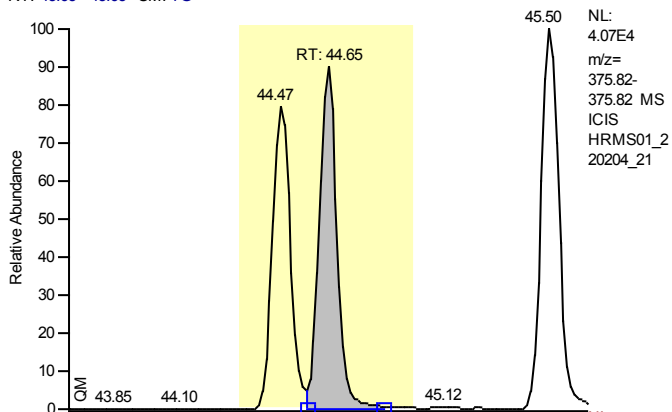
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



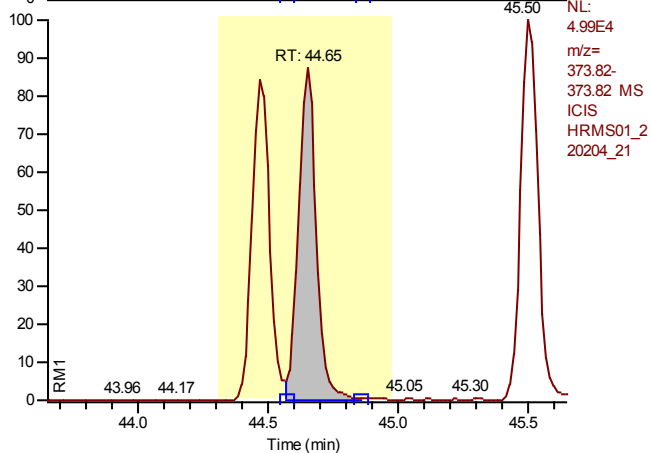
Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G



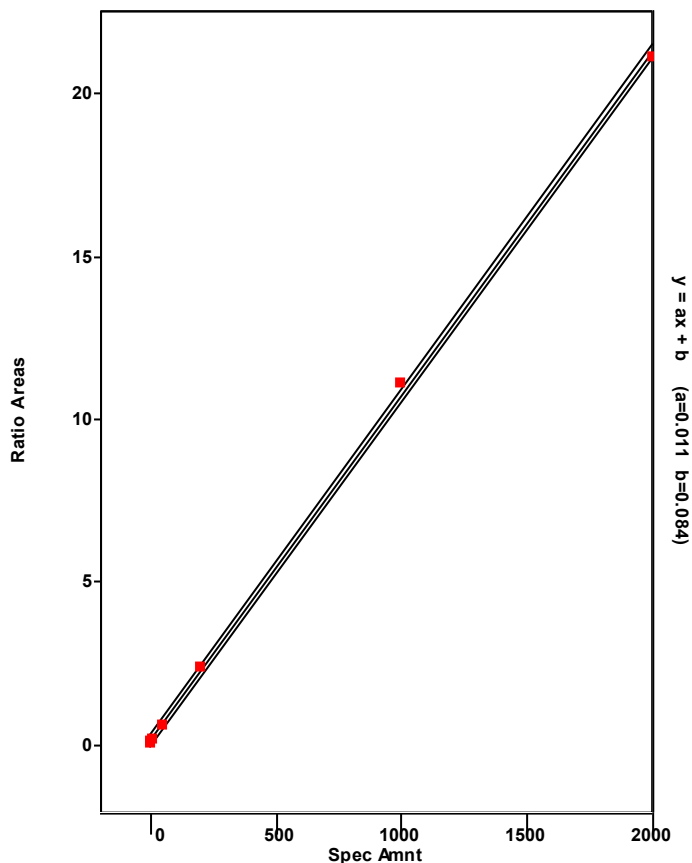
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	174539
RM1 Area	208397
RM1 Ratio (A)	1.1940
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

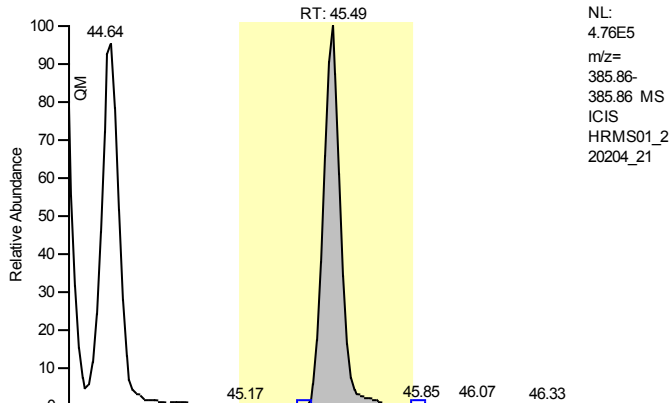
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

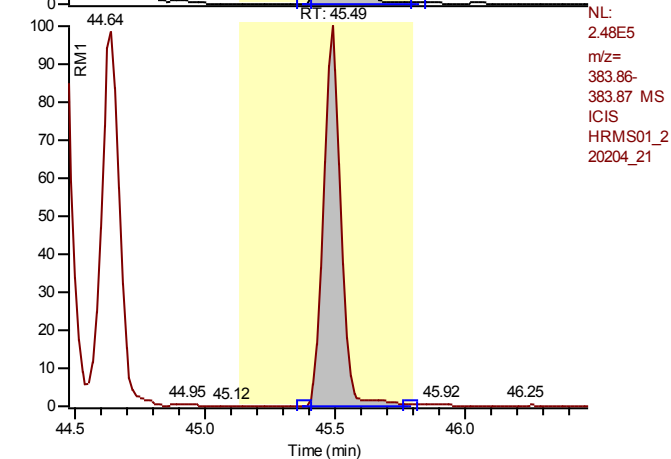
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
 4.76E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2225750
RM1 Area	1160192
RM1 Ratio (A)	0.5213
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

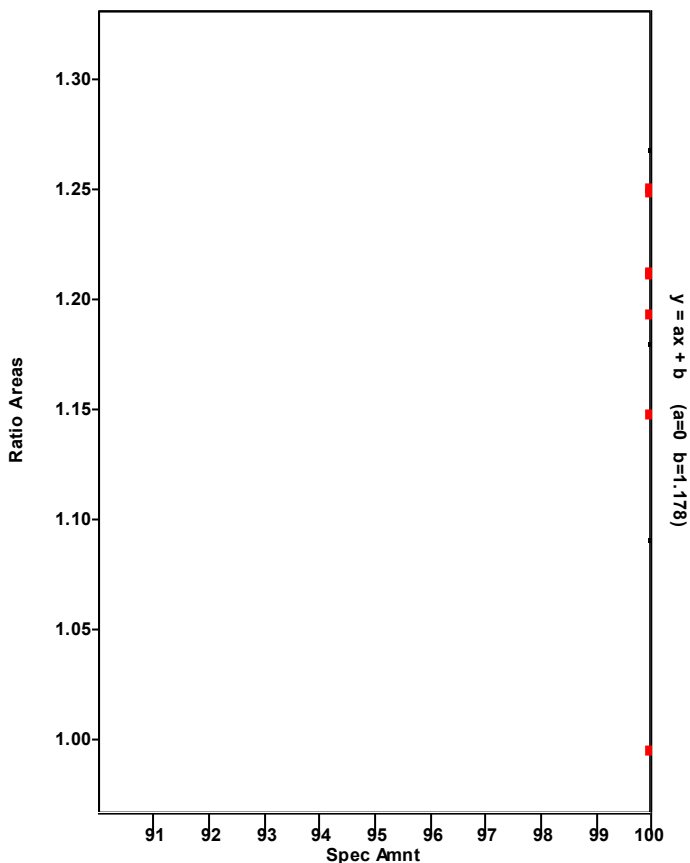


NL:
 2.48E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

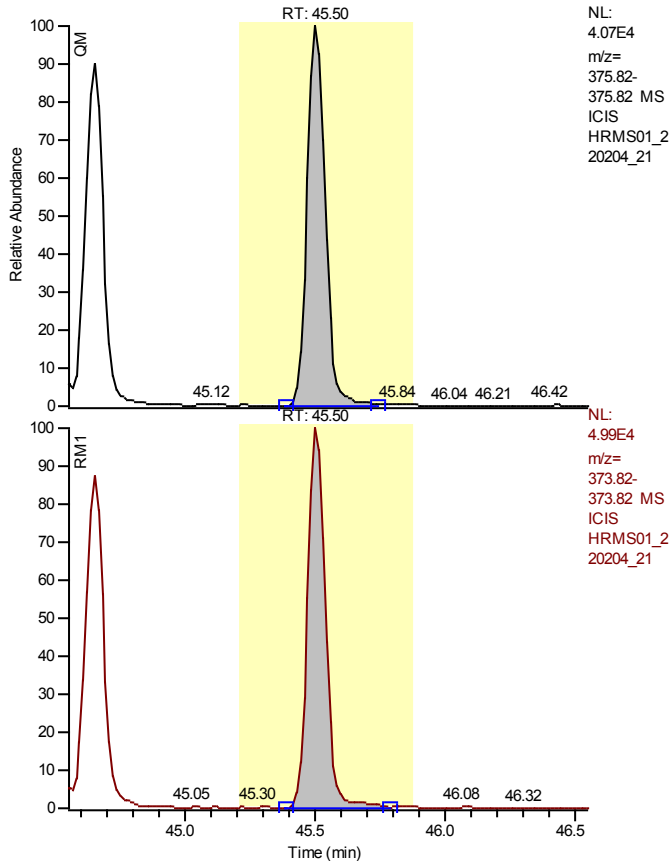
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.55 - 46.55 SM: 7G

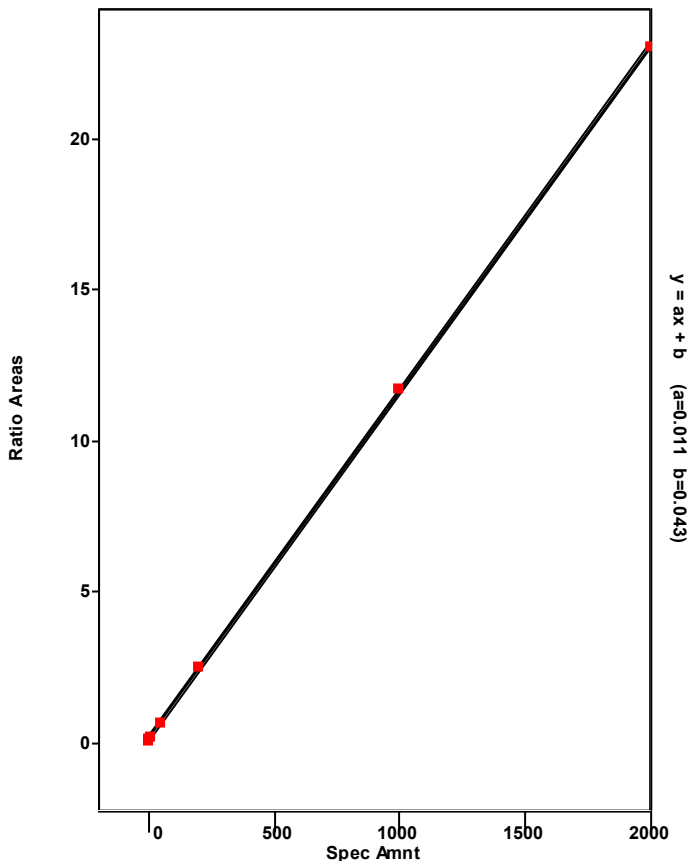


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	193510
RM1 Area	232821
RM1 Ratio (A)	1.2031
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

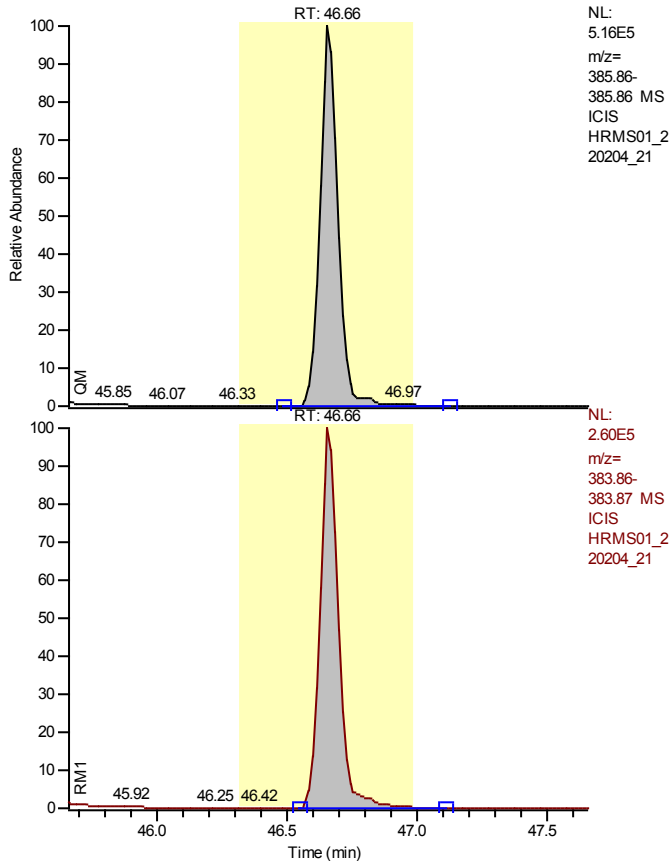
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



NL:
 5.16E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_21

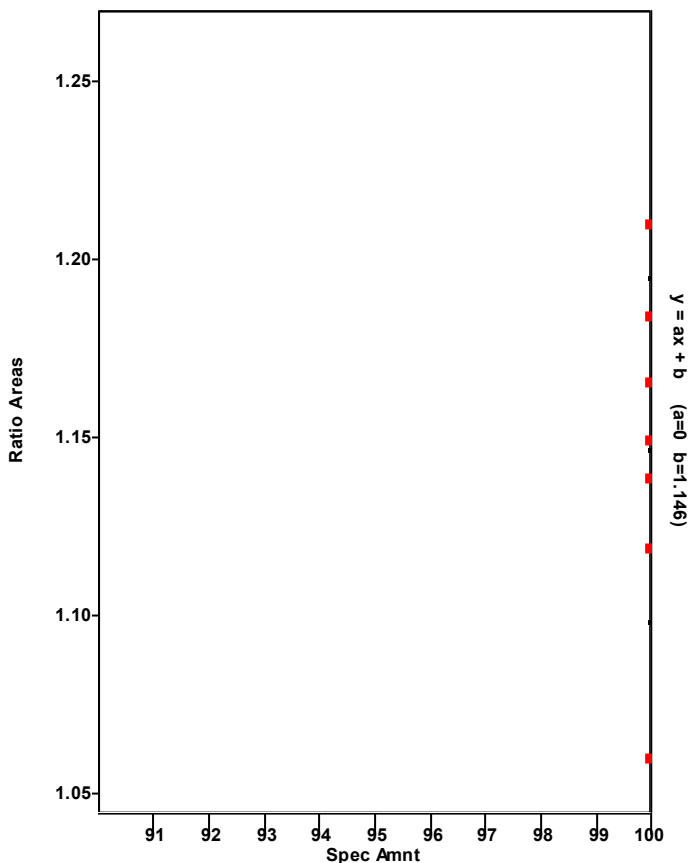
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	2514181
RM1 Area	1298648
RM1 Ratio (A)	0.5165
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 2.60E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

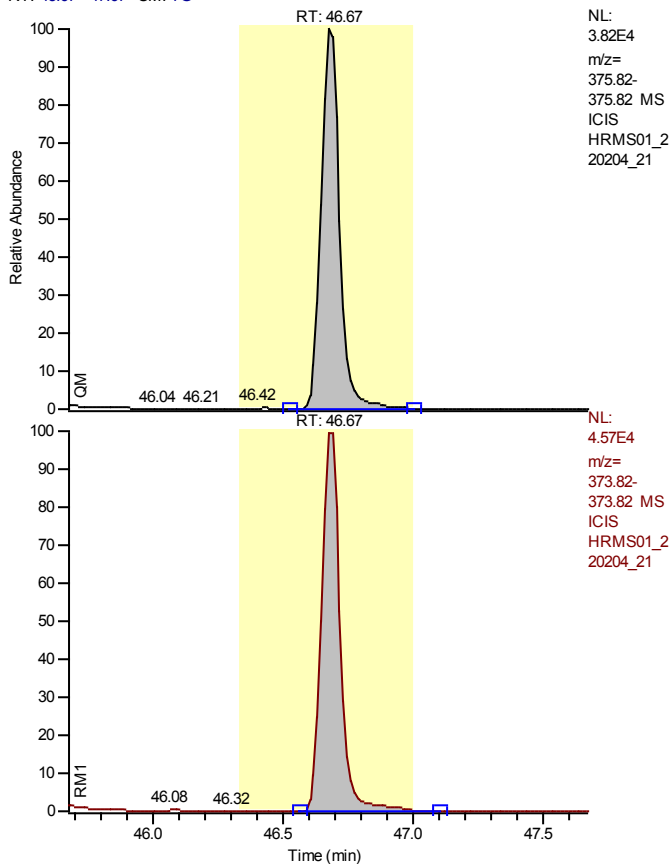
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G



NL:
 3.82E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_21

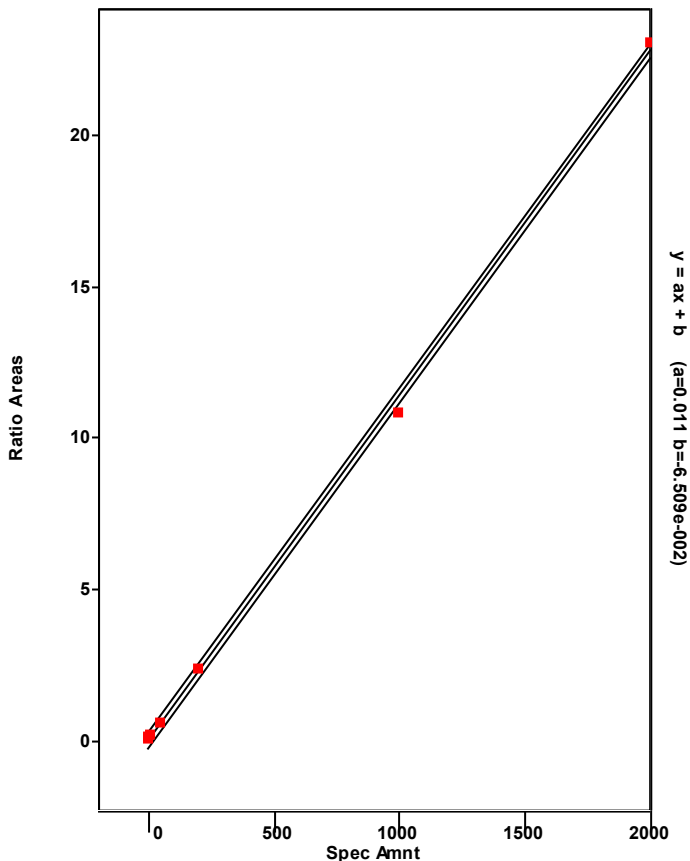
NL:
 4.57E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	186908
RM1 Area	226054
RM1 Ratio (A)	1.2094
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

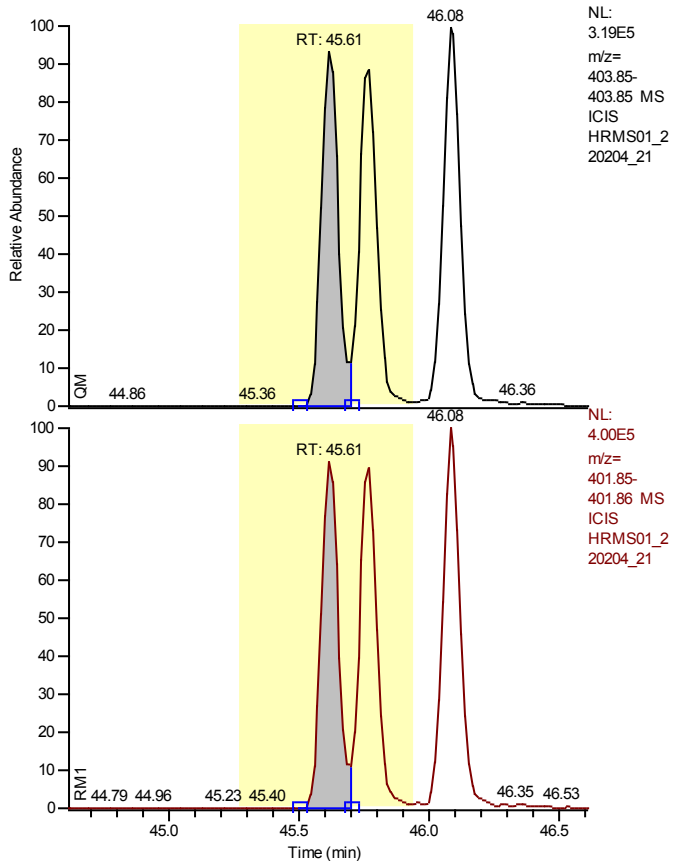
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

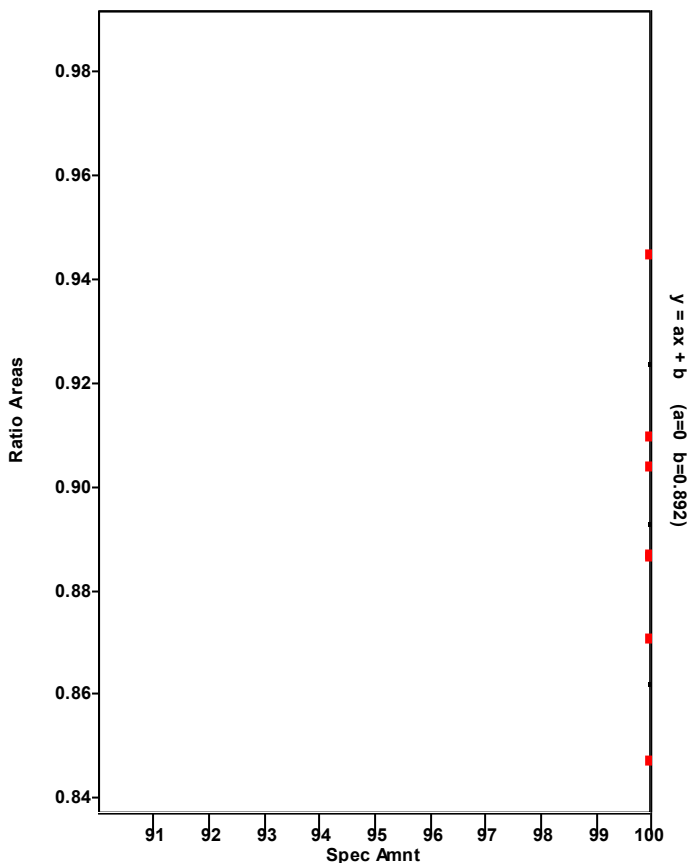
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1355280
RM1 Area	1667247
RM1 Ratio (A)	1.2302
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

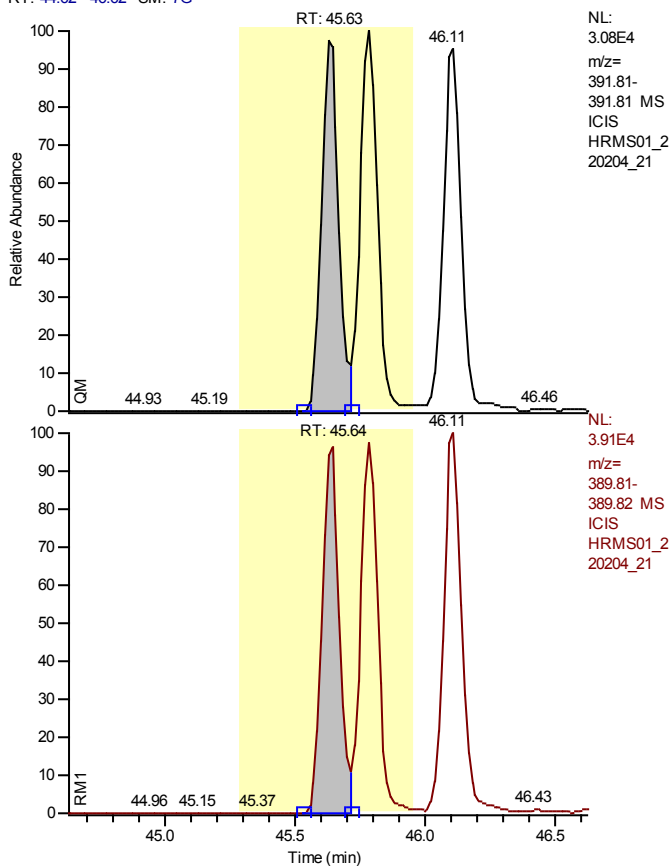
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G

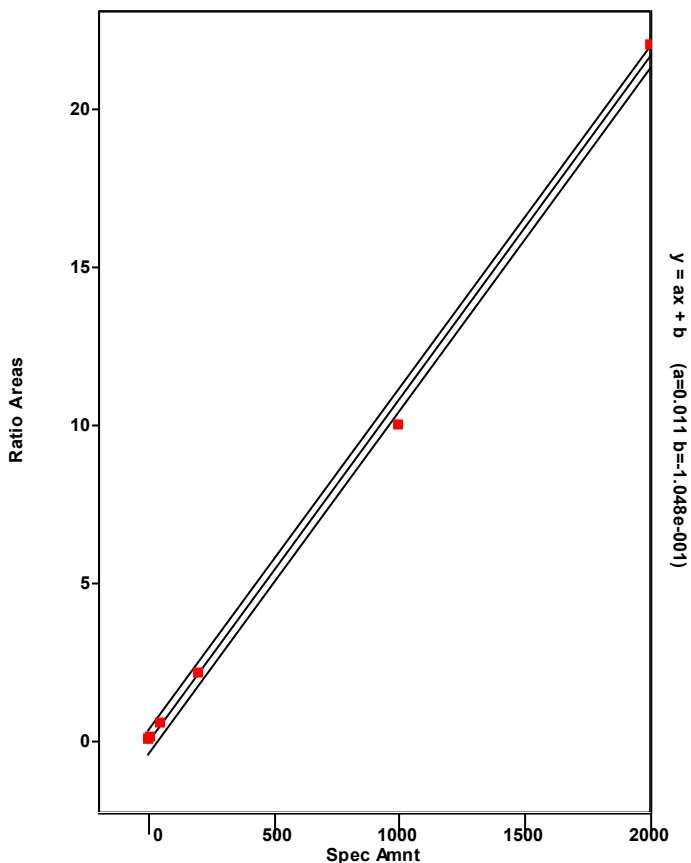


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	136717
RM1 Area	173183
RM1 Ratio (A)	1.2667
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

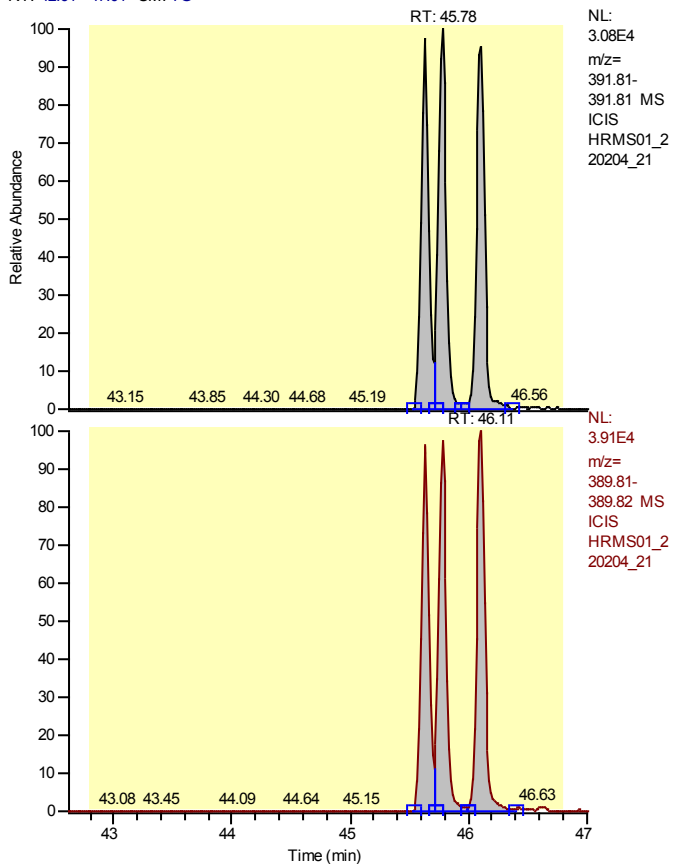
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.61 - 47.01 SM: 7G

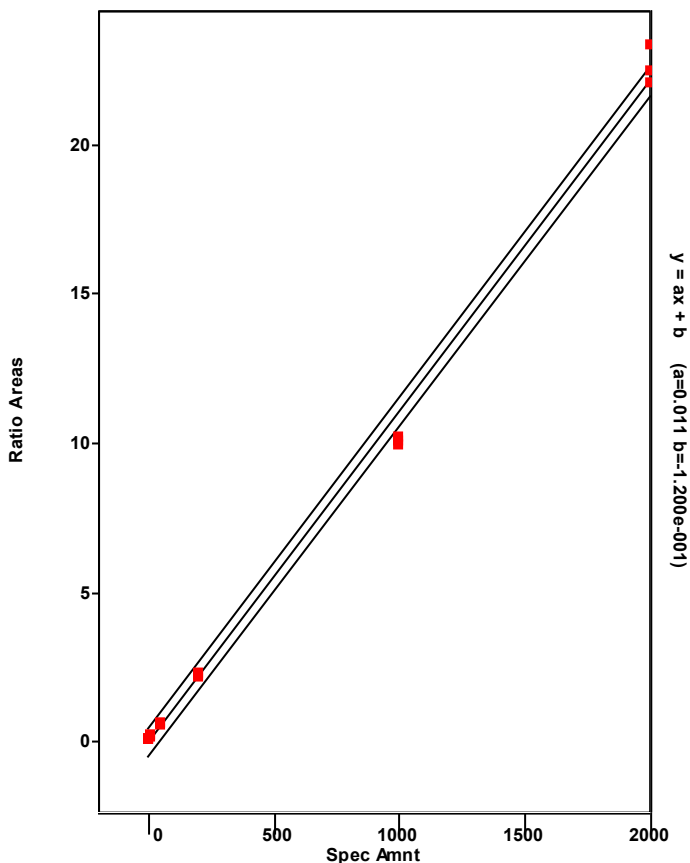


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	421416
RM1 Area	538311
RM1 Ratio (A)	1.2774
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	30.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

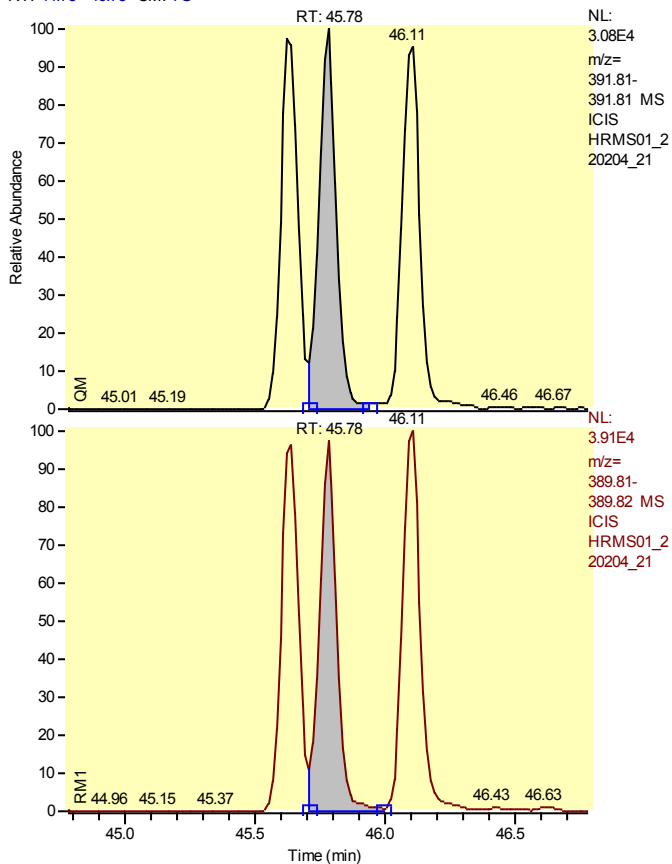
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.78 - 46.78 SM: 7G

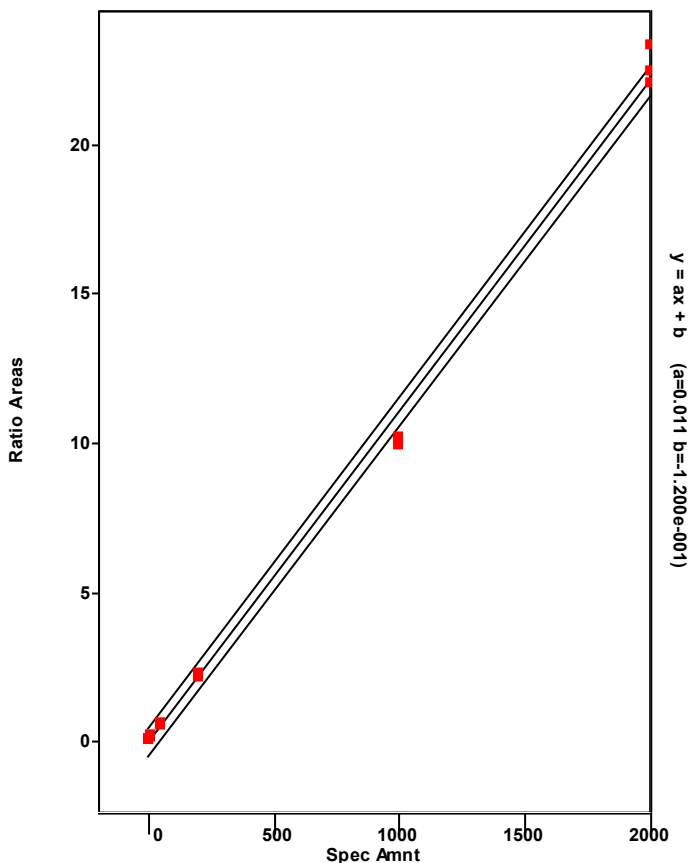


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	142083
RM1 Area	175735
RM1 Ratio (A)	1.2369
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

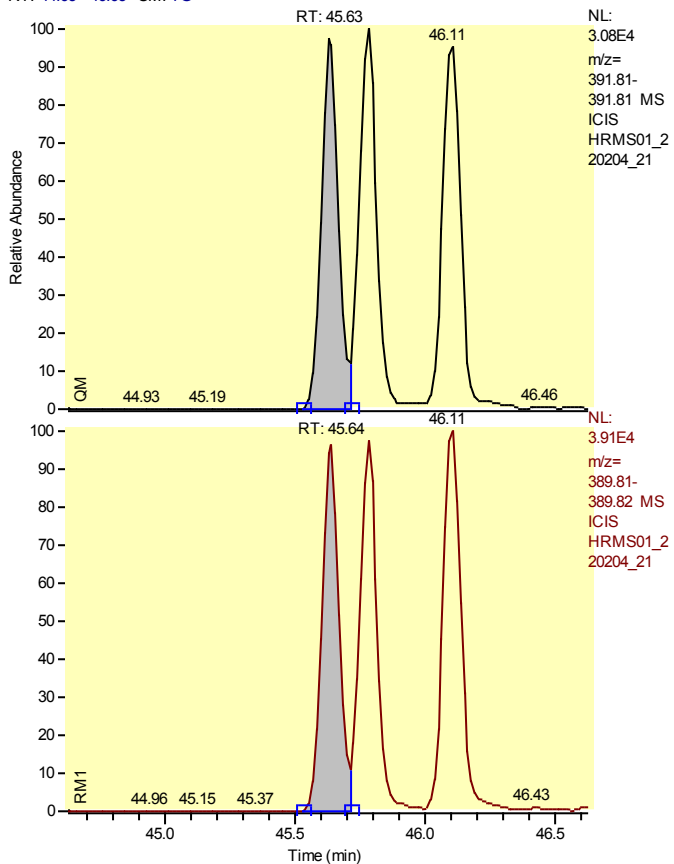
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G

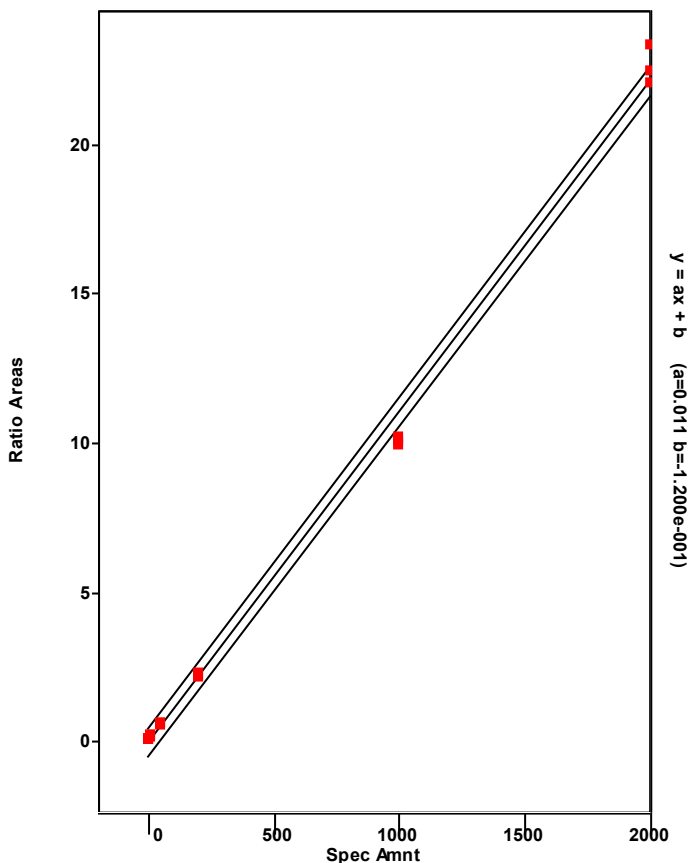


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	136717
RM1 Area	173183
RM1 Ratio (A)	1.2667
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

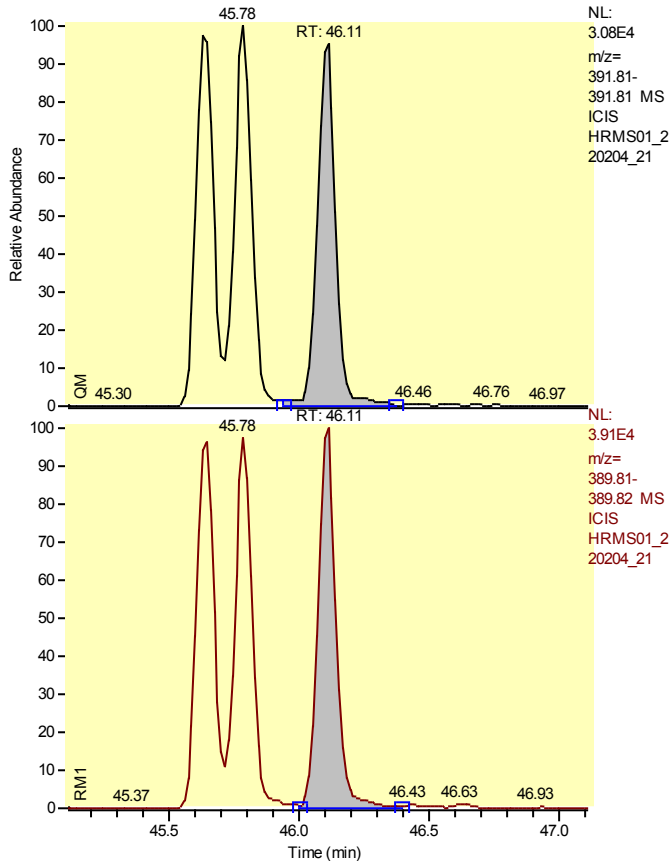
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.11 - 47.11 SM: 7G

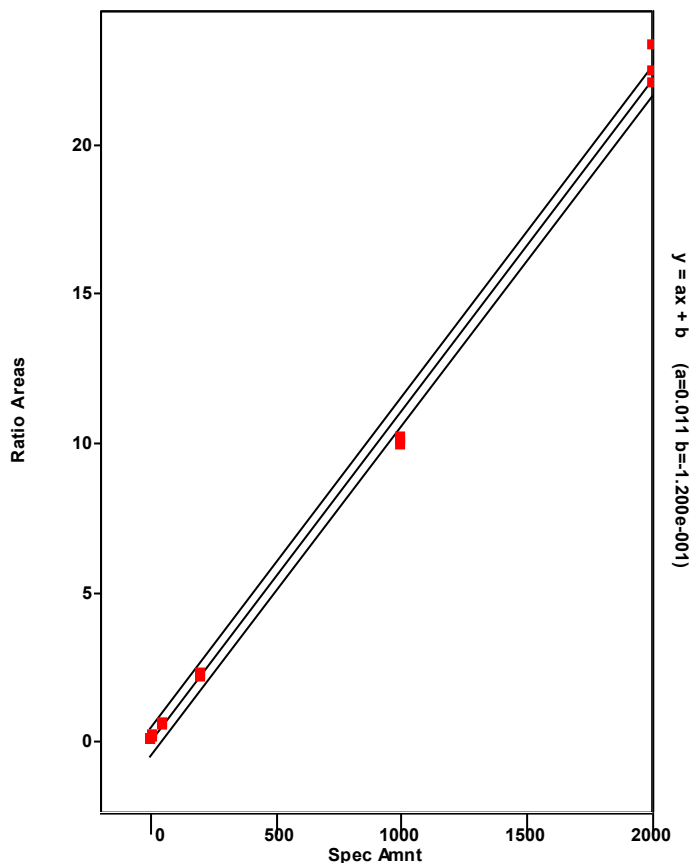


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	142617
RM1 Area	189393
RM1 Ratio (A)	1.3280
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

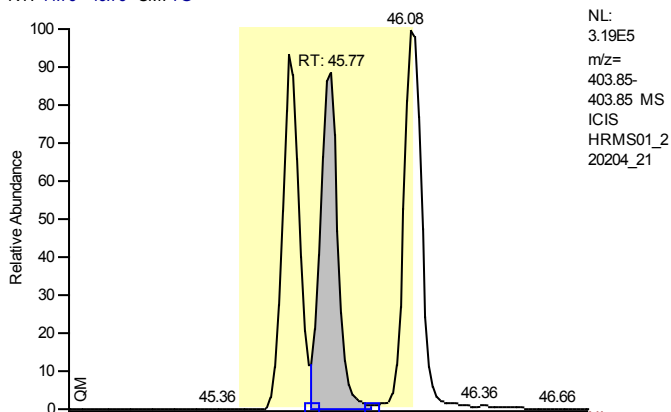
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

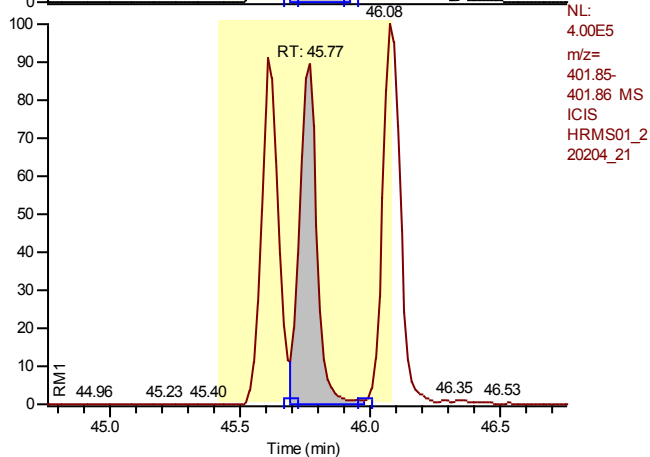
Entry Parameters

RT: 44.76 - 46.76 SM: 7G



NL: 3.19E5
 m/z= 403.85-403.85 MS
 ICIS HRMS01_2 20204_21

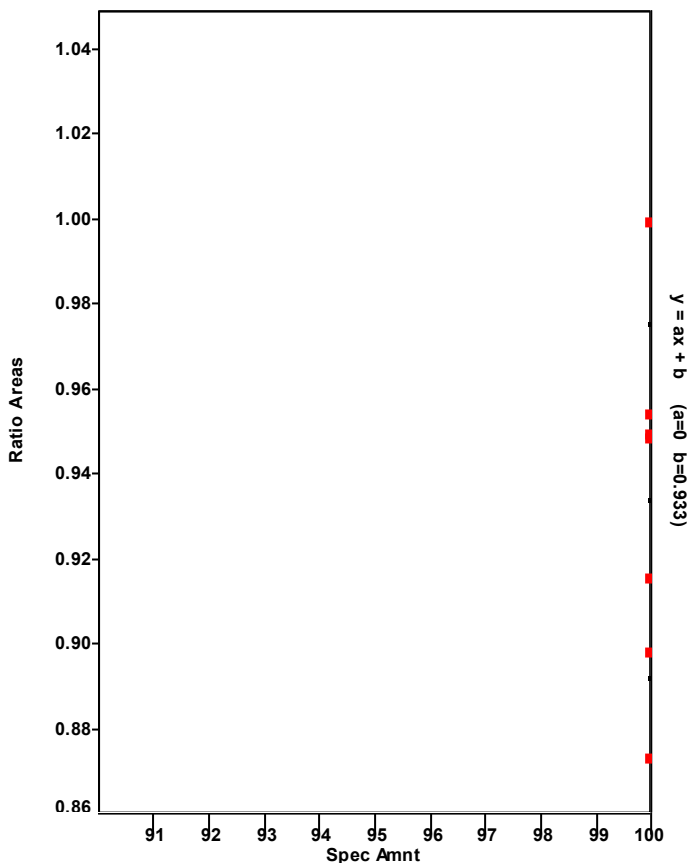
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1315210
RM1 Area	1660184
RM1 Ratio (A)	1.2623
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL: 4.00E5
 m/z= 401.85-401.86 MS
 ICIS HRMS01_2 20204_21

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

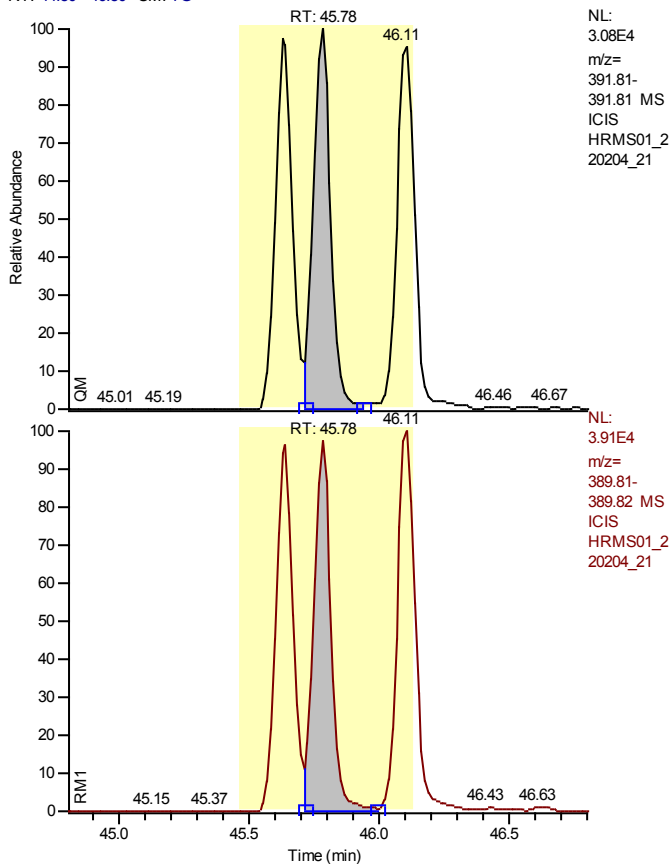
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.80 - 46.80 SM: 7G



NL:
3.08E4
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_21

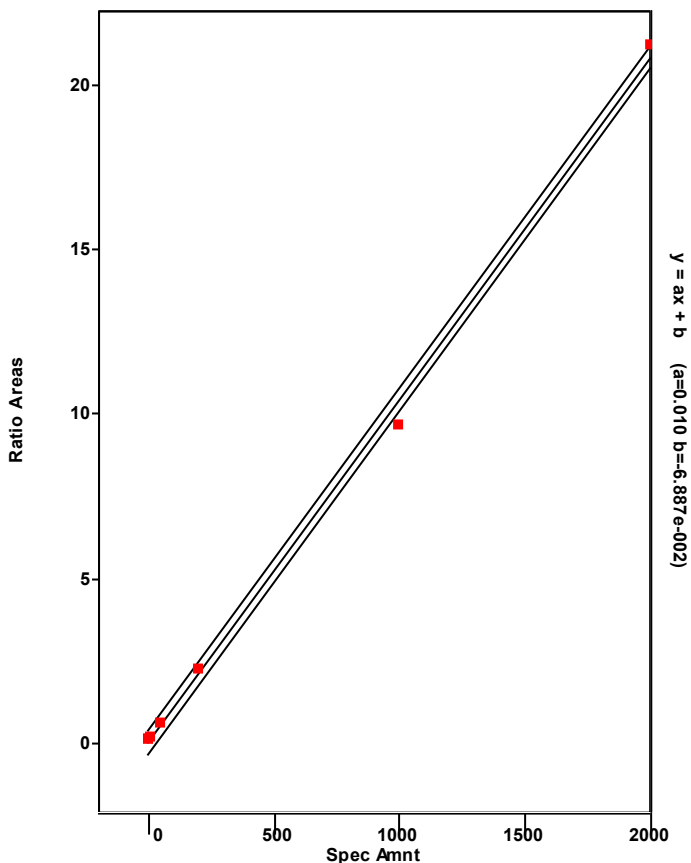
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	142083
RM1 Area	175735
RM1 Ratio (A)	1.2369
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

NL:
3.91E4
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_21

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

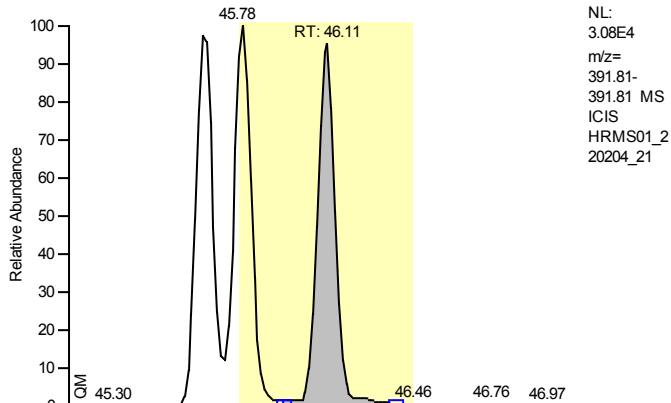
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

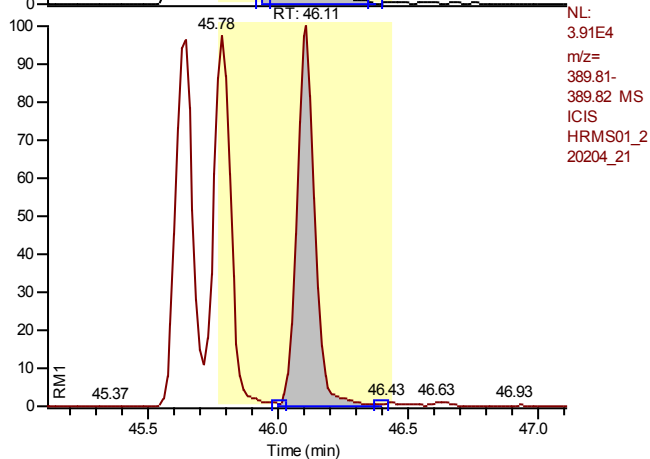
Entry Parameters

RT: 45.11 - 47.11 SM: 7G



NL:
 3.08E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	142617
RM1 Area	189393
RM1 Ratio (A)	1.3280
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

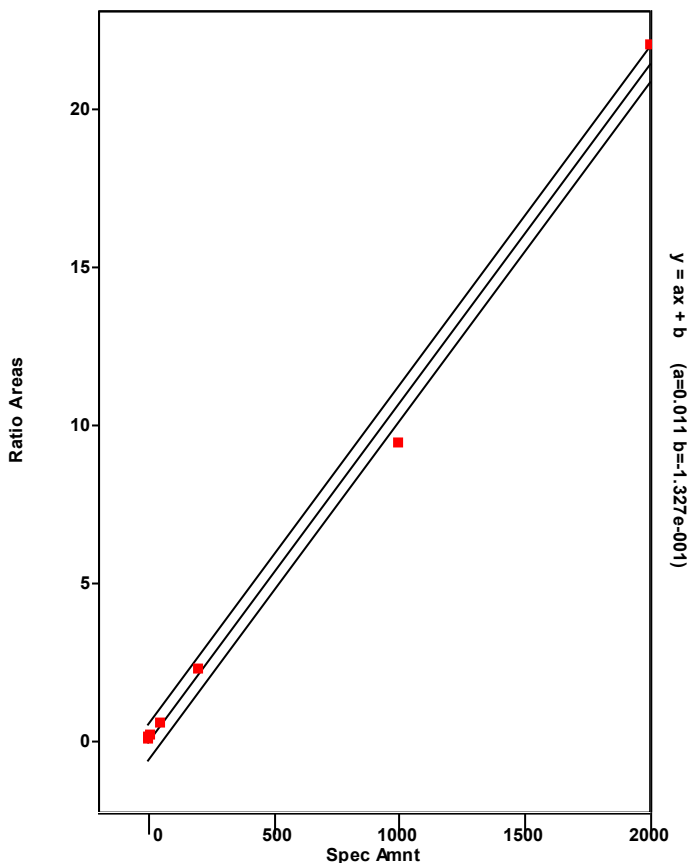


NL:
 3.91E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

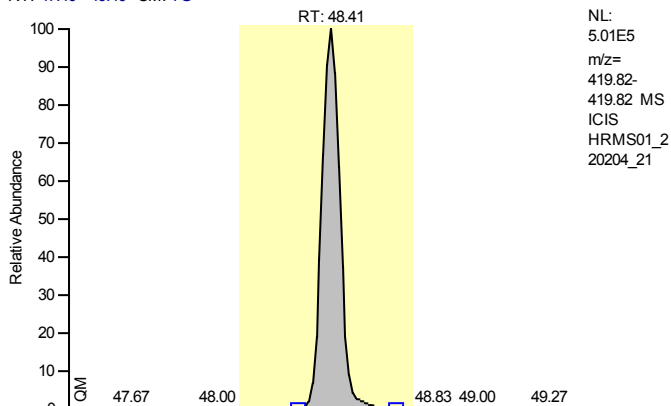
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



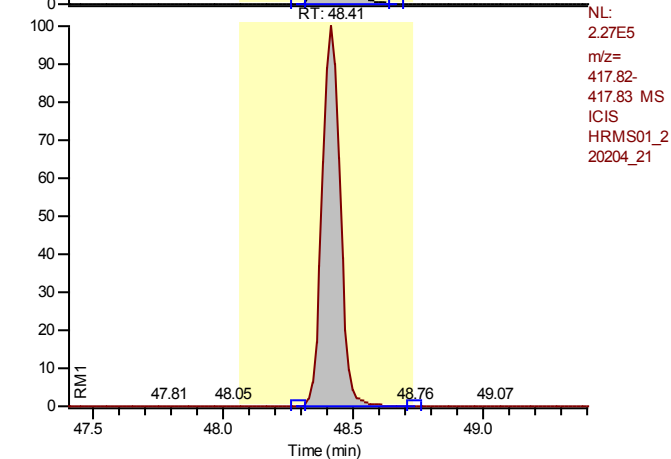
Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

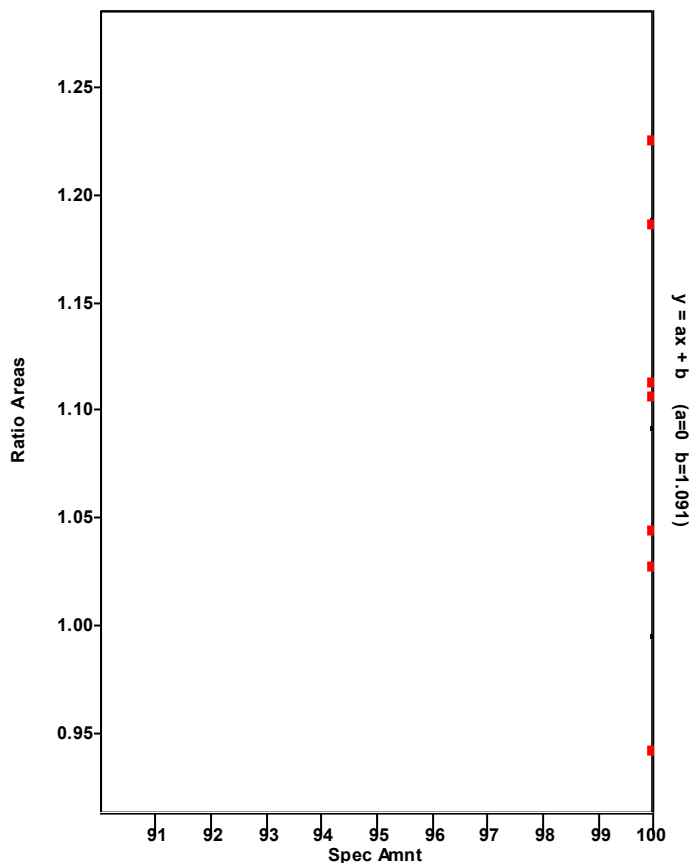


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2416427
RM1 Area	1080859
RM1 Ratio (A)	0.4473
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

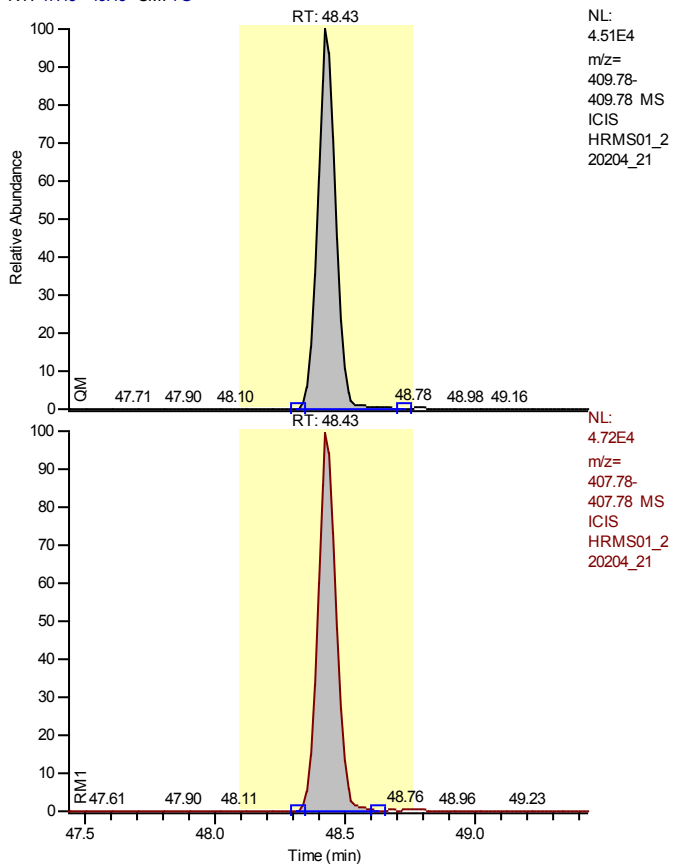
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.43 - 49.43 SM: 7G

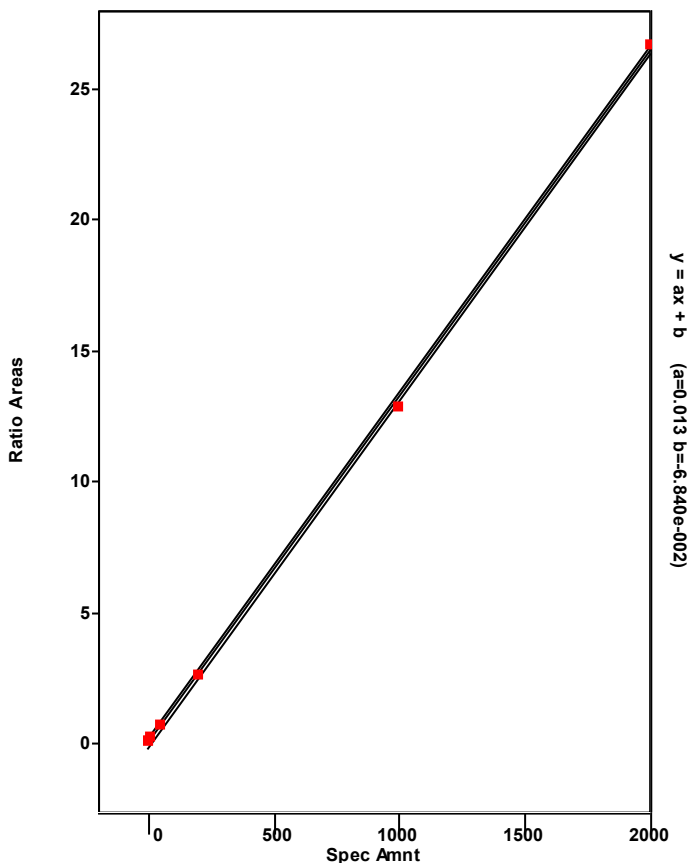


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	219700
RM1 Area	231691
RM1 Ratio (A)	1.0546
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

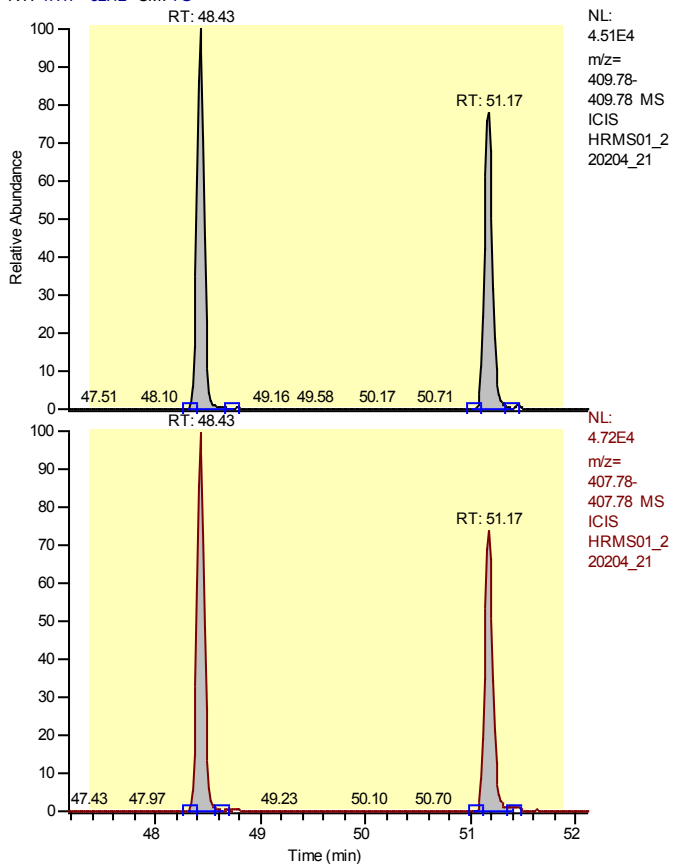
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

RT: 47.17 - 52.12 SM: 7G



NL:
 4.51E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20204_21

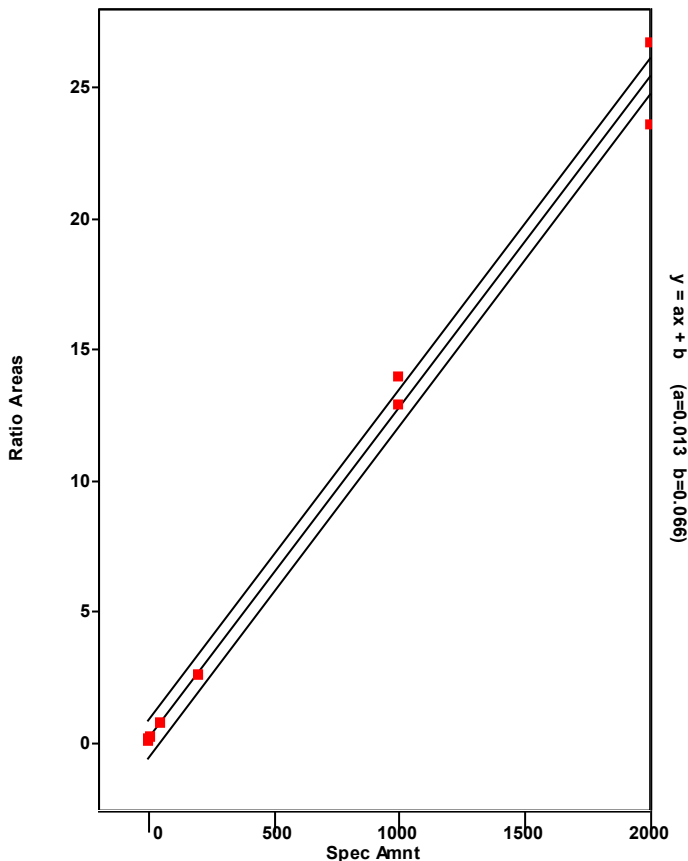
NL:
 4.72E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	412780
RM1 Area	423012
RM1 Ratio (A)	1.0248
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	20.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

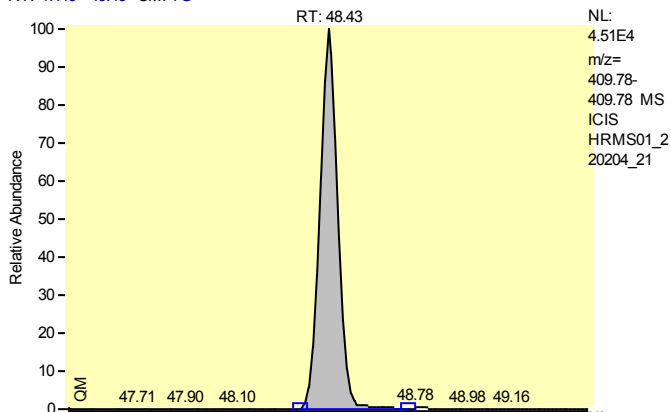
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



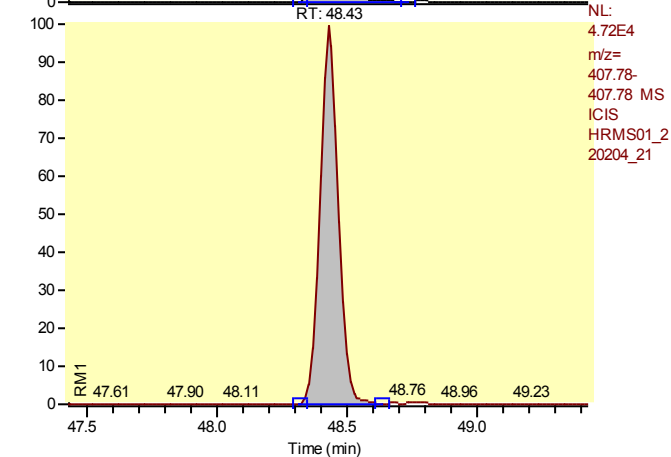
Chromatogram

Entry Parameters

RT: 47.43 - 49.43 SM: 7G



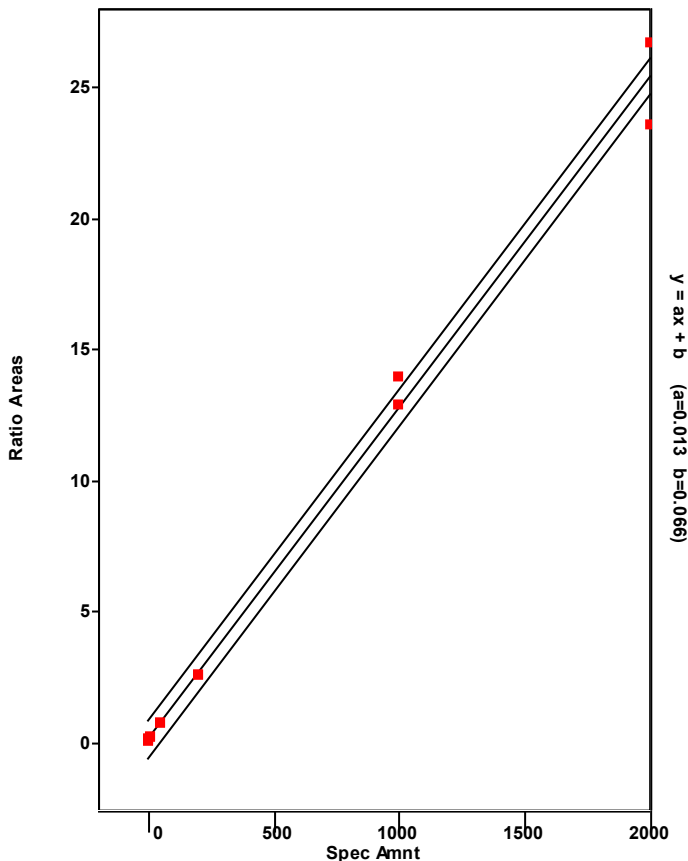
Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	219700
RM1 Area	231691
RM1 Ratio (A)	1.0546
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

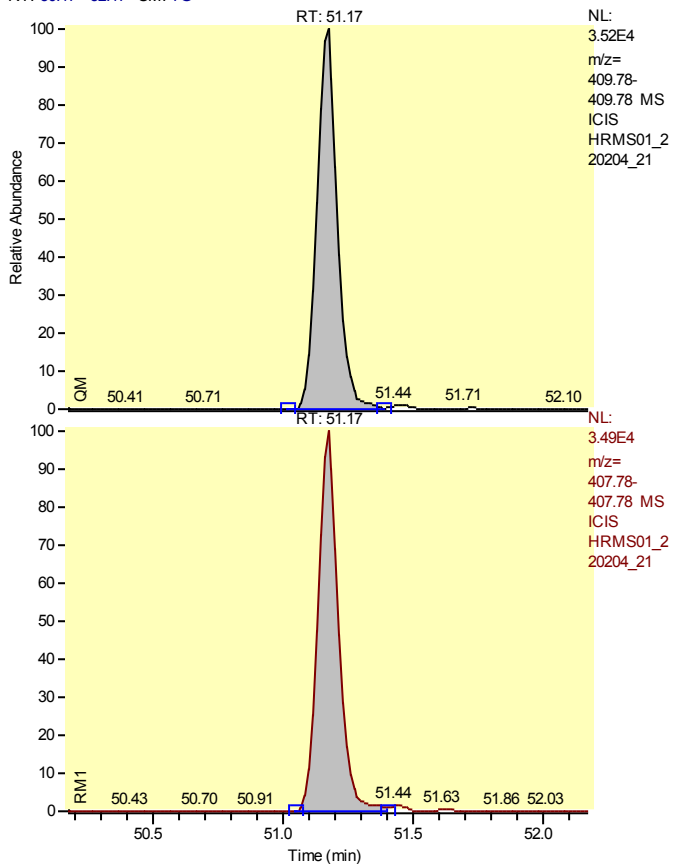
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G

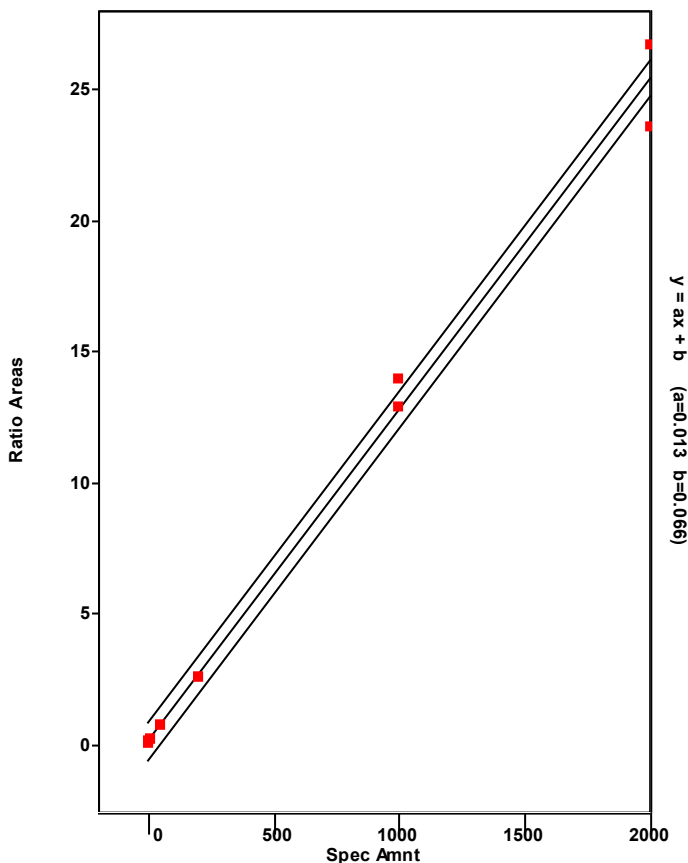


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	193081
RM1 Area	191321
RM1 Ratio (A)	0.9909
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

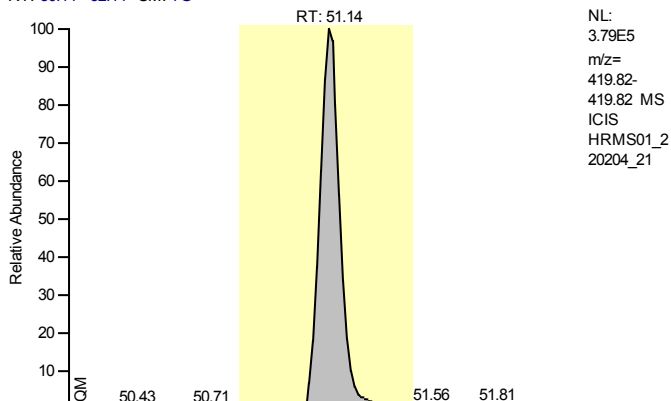
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



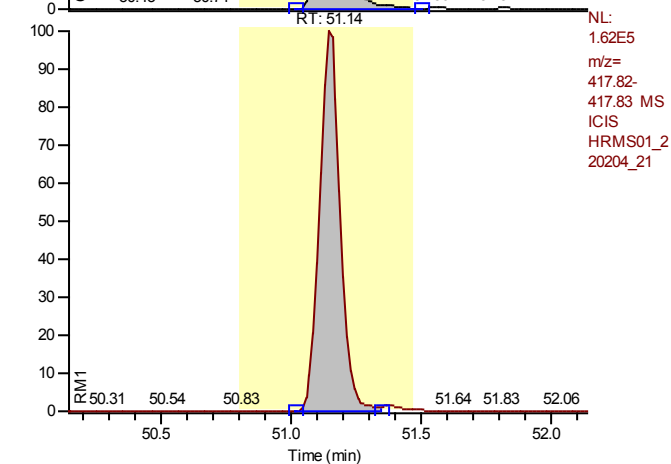
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

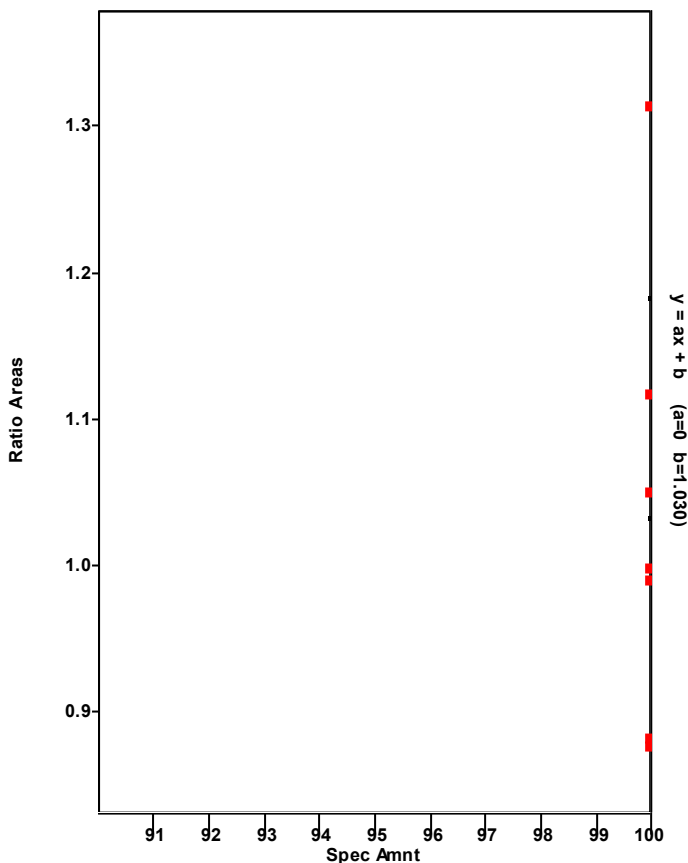


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	2081347
RM1 Area	898197
RM1 Ratio (A)	0.4315
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

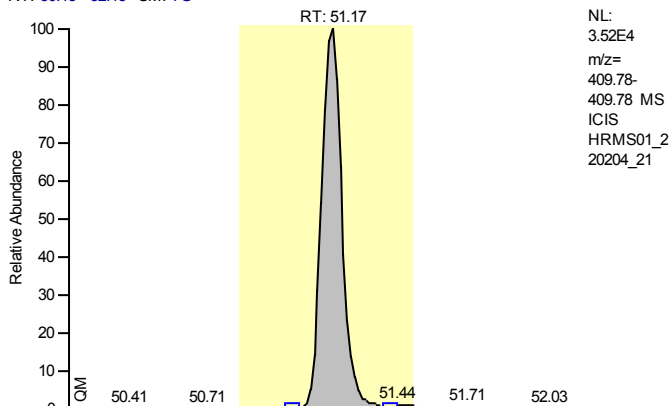
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

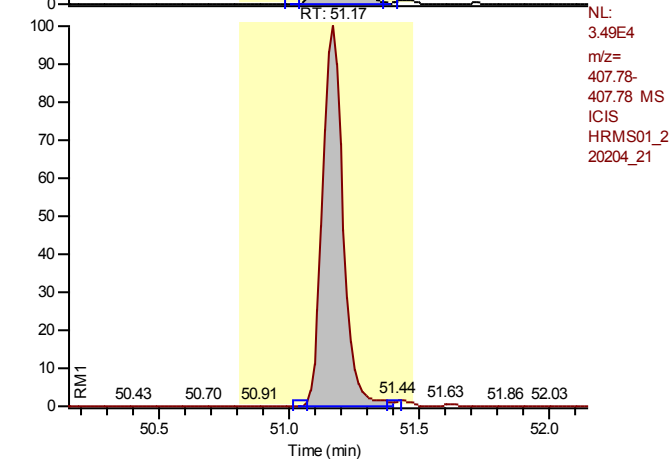
Entry Parameters

RT: 50.15 - 52.15 SM: 7G



NL:
 3.52E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20204_21

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	193081
RM1 Area	191321
RM1 Ratio (A)	0.9909
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	

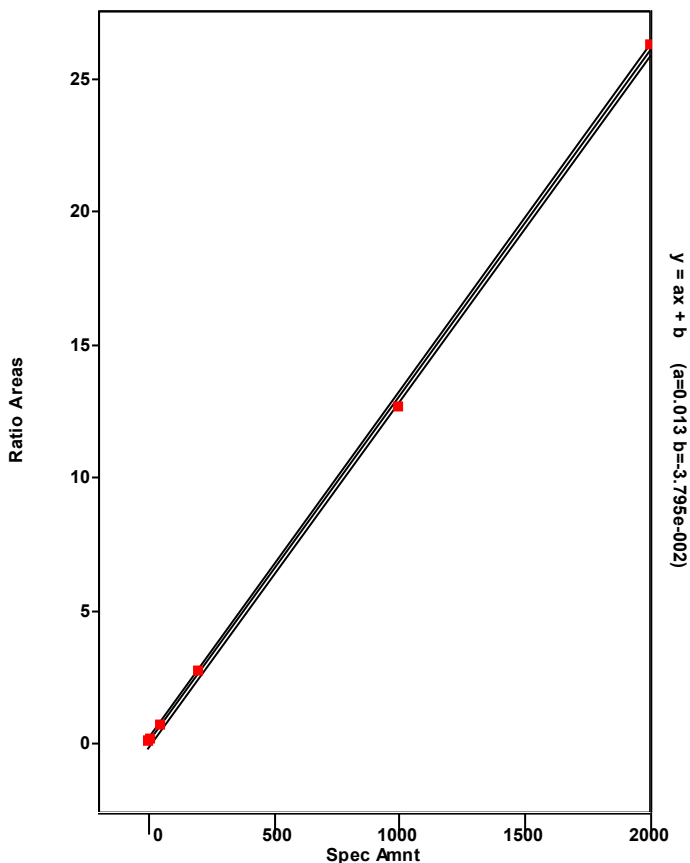


NL:
 3.49E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20204_21

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

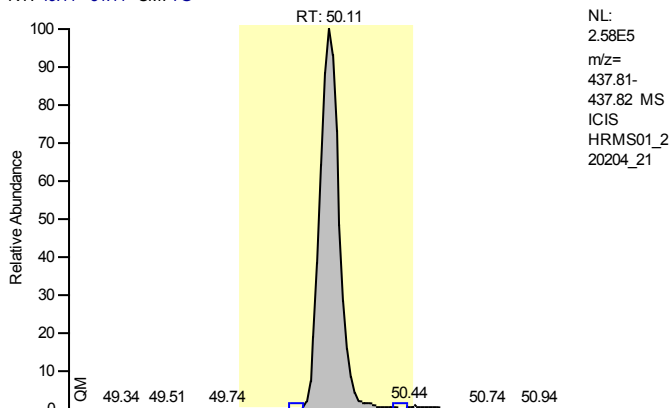
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



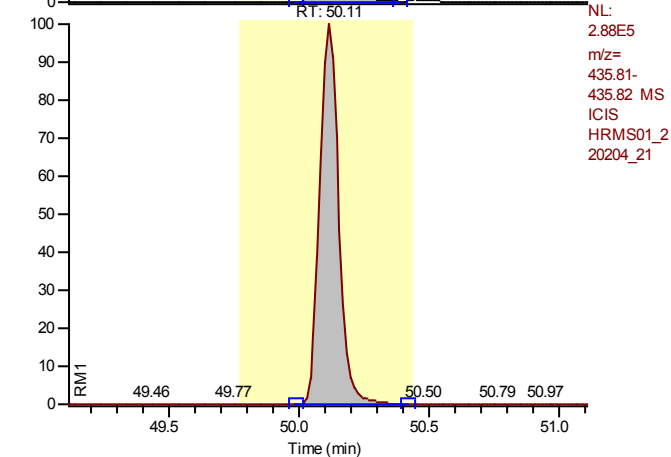
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

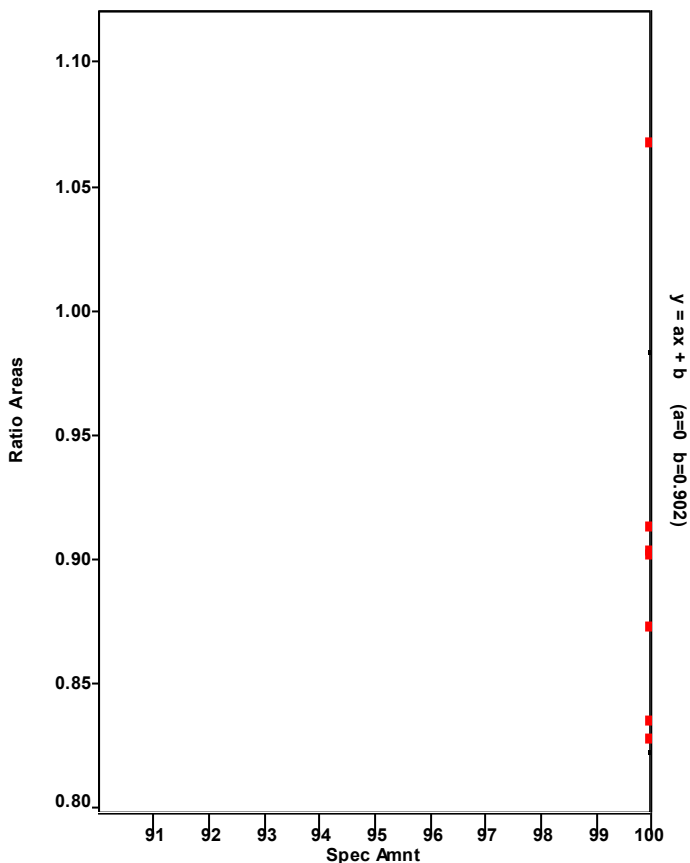


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1344936
RM1 Area	1472735
RM1 Ratio (A)	1.0950
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

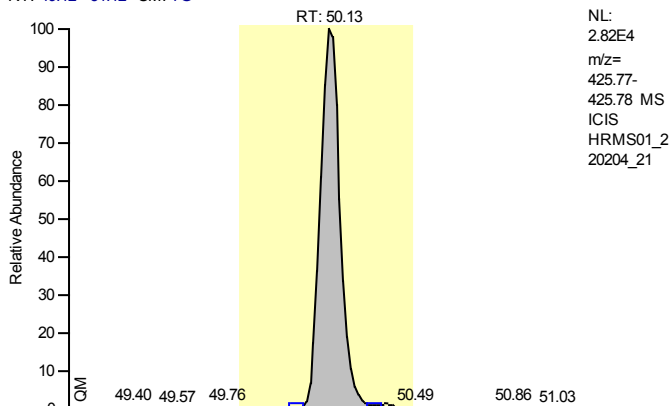
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



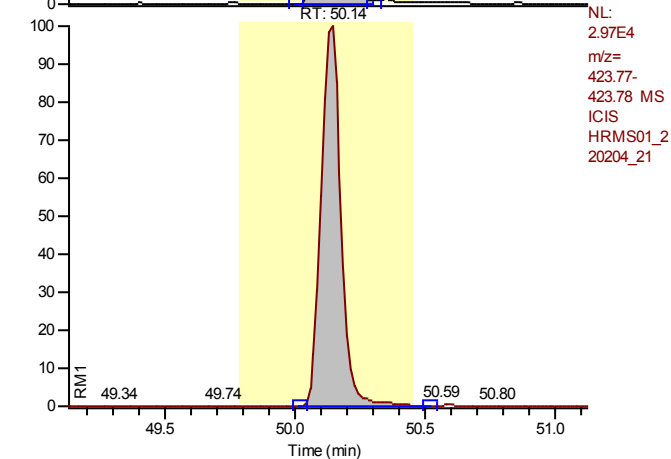
Chromatogram

Entry Parameters

RT: 49.12 - 51.12 SM: 7G



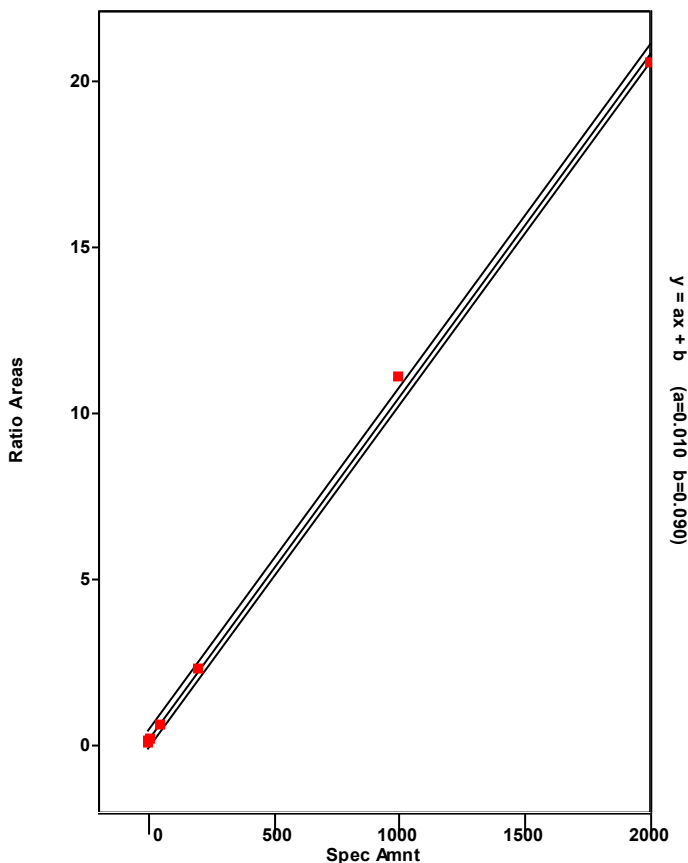
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	150681
RM1 Area	158674
RM1 Ratio (A)	1.0530
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.1000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

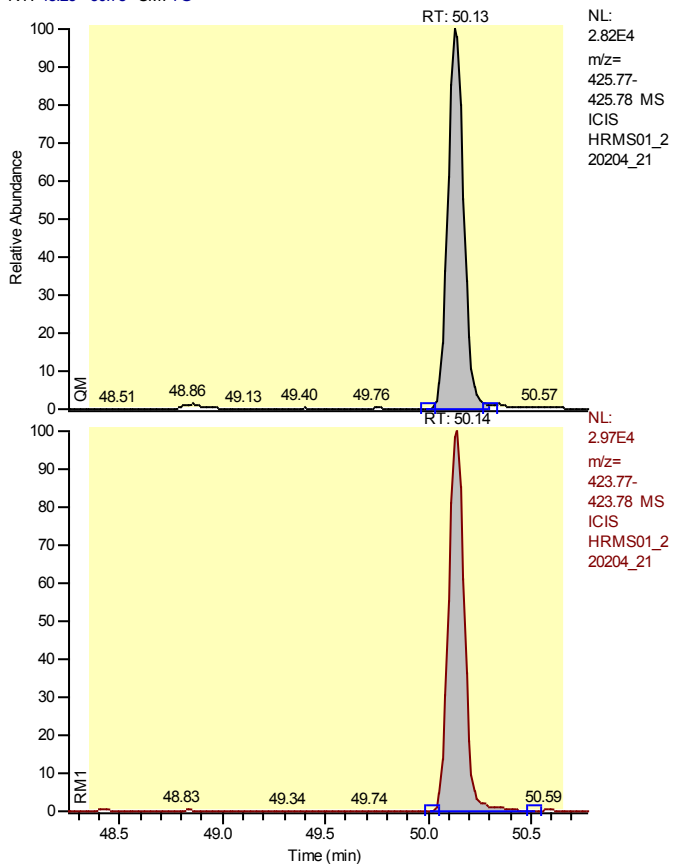
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.25 - 50.78 SM: 7G

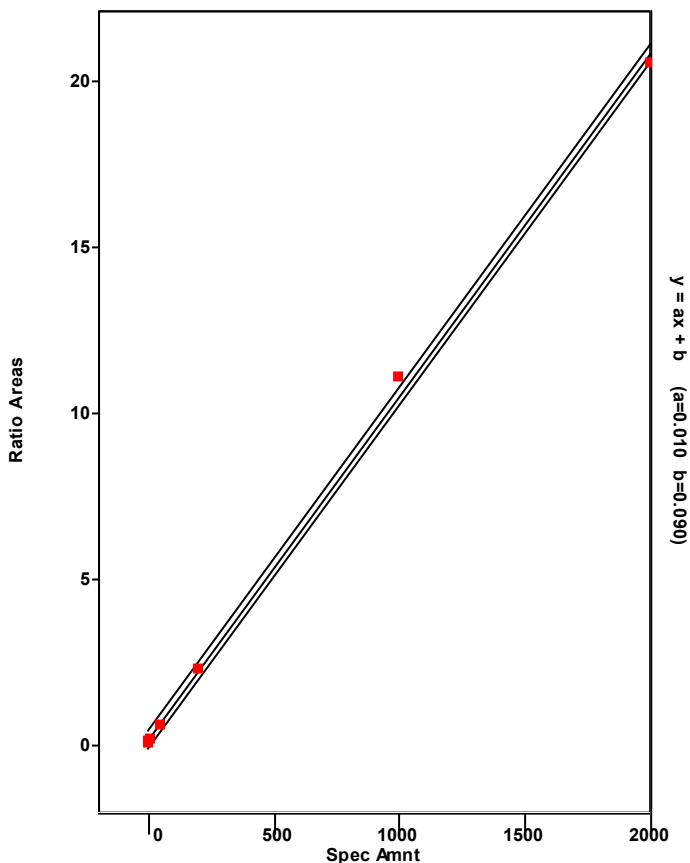


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	150681
RM1 Area	158674
RM1 Ratio (A)	1.0530
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

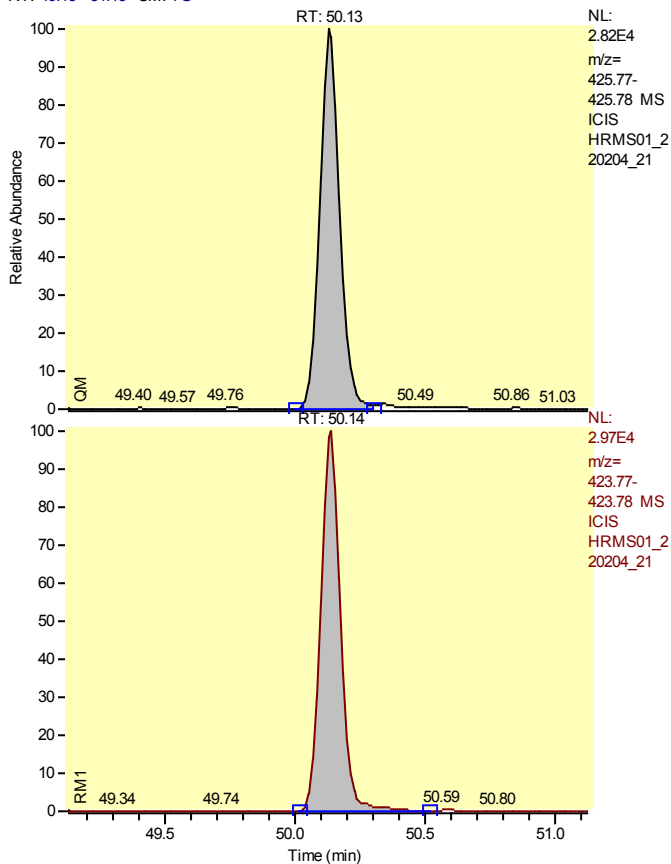
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G

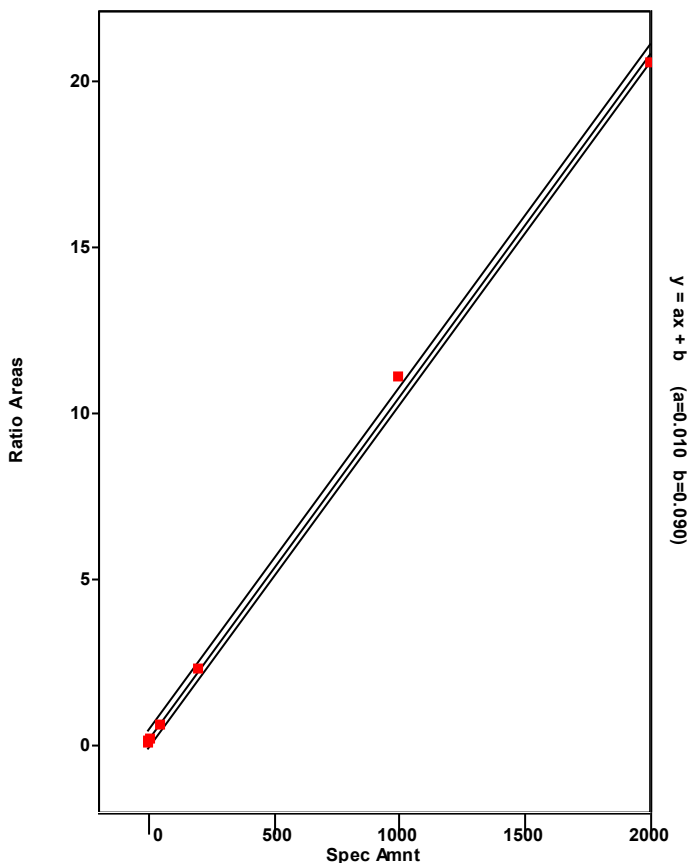


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	150681
RM1 Area	158674
RM1 Ratio (A)	1.0530
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

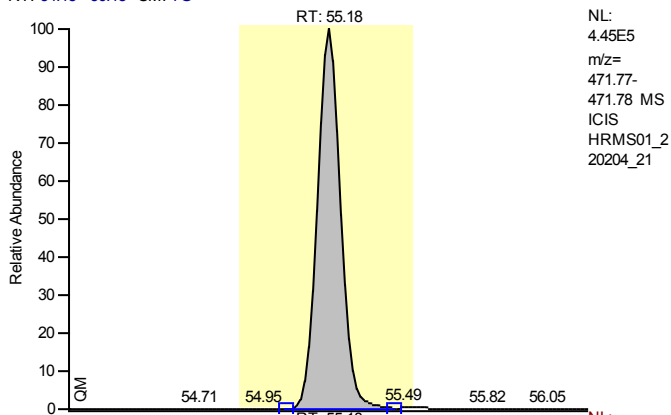
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



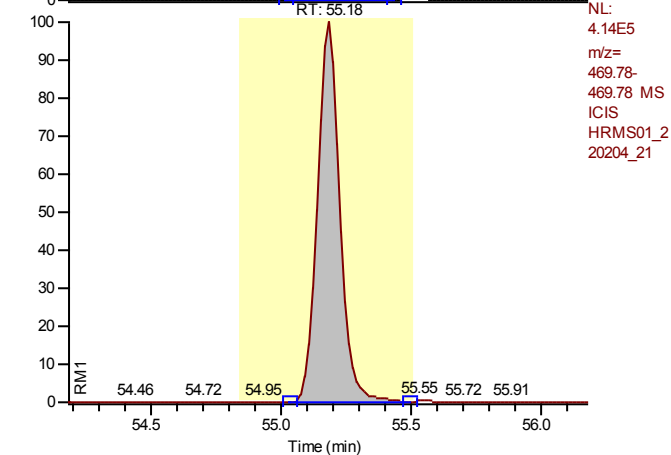
Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



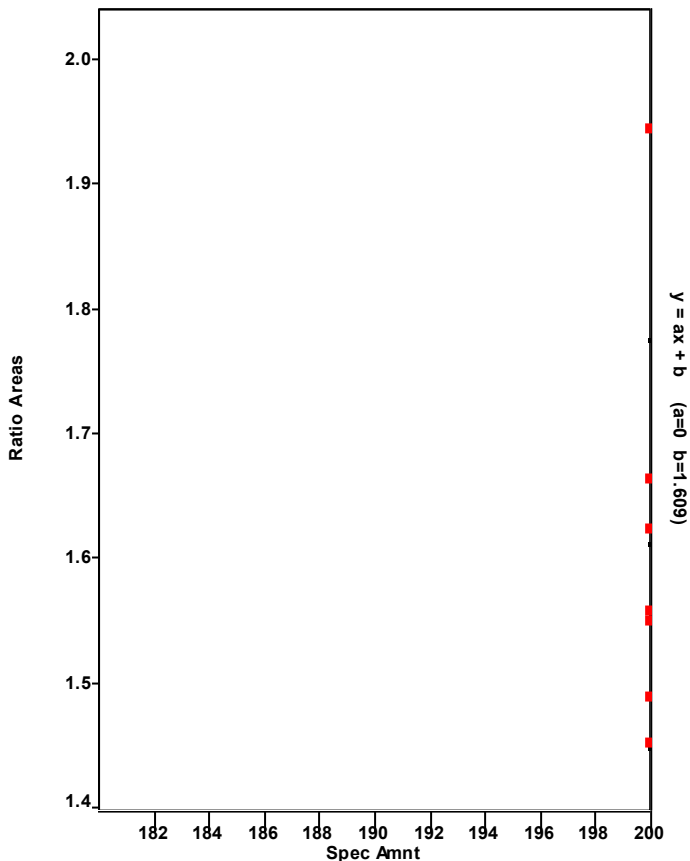
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2783608
RM1 Area	2494200
RM1 Ratio (A)	0.8960
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

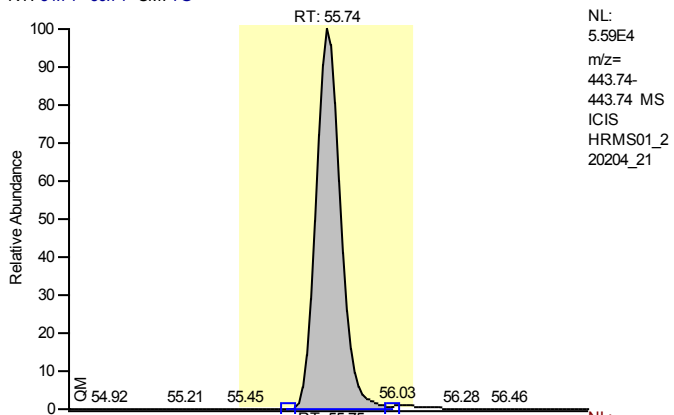
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



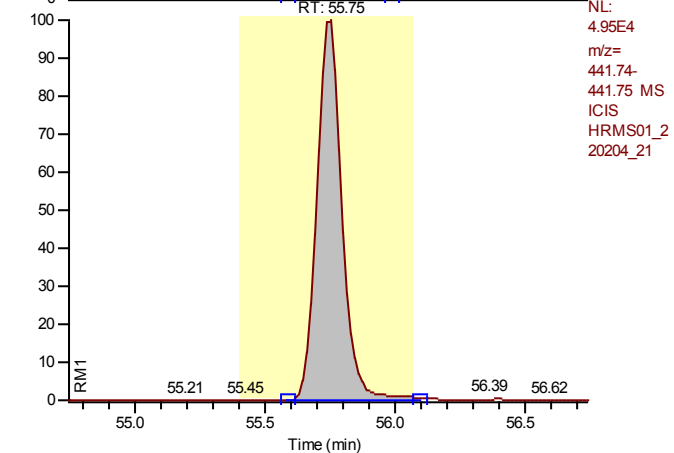
Chromatogram

Entry Parameters

RT: 54.74 - 56.74 SM: 7G



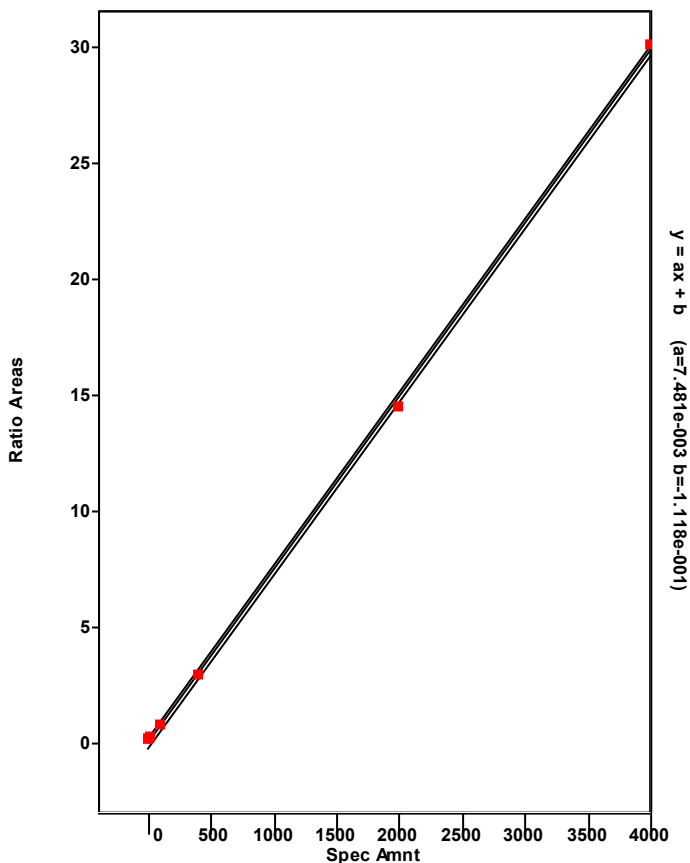
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	368977
RM1 Area	332443
RM1 Ratio (A)	0.9010
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	20.00
Calculated Amount (A)	20.00
Percent Recovery (A)	100
TEQ (A)	0.0060
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

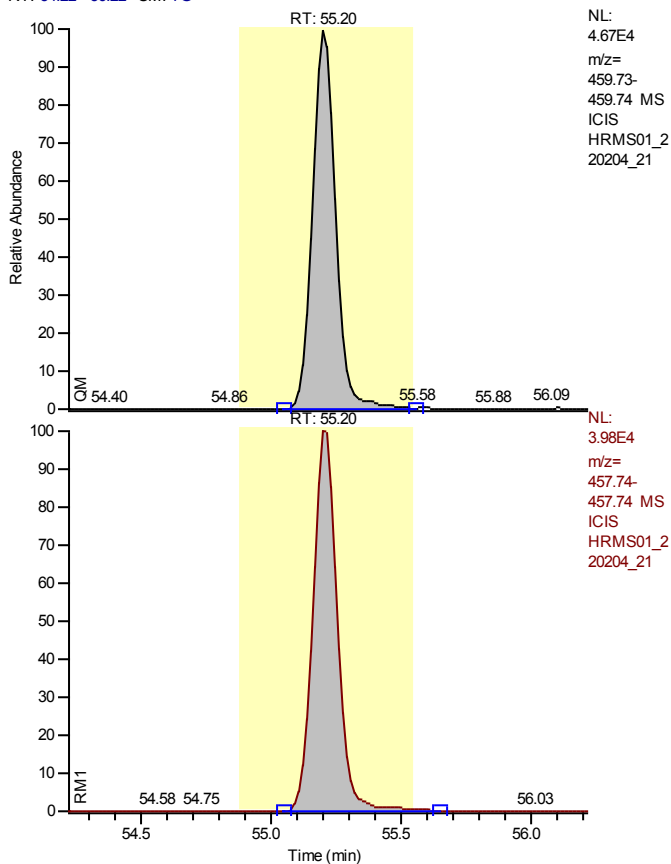
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.22 - 56.22 SM: 7G

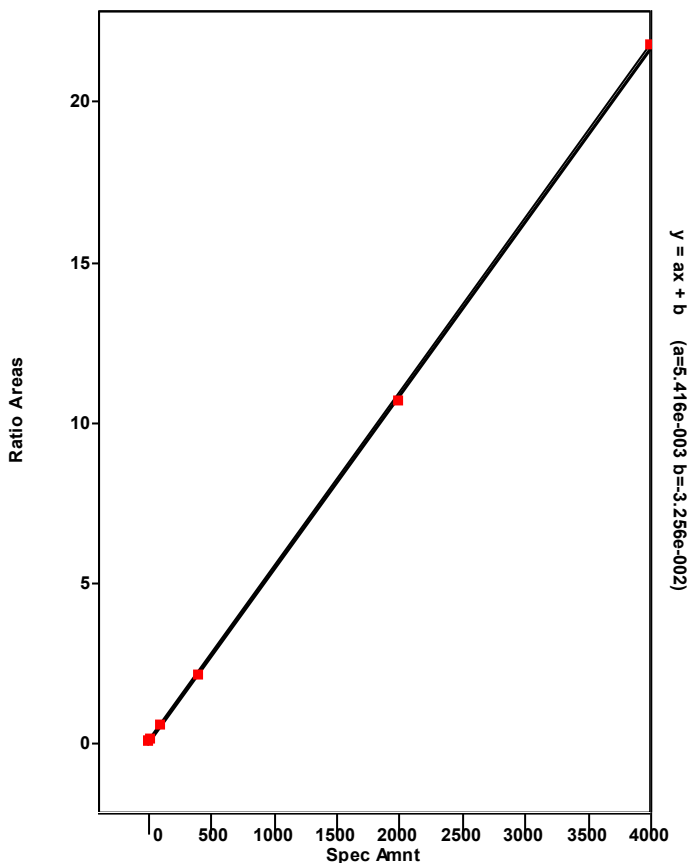


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	287557
RM1 Area	260623
RM1 Ratio (A)	0.9063
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	20.00
Calculated Amount (A)	20.00
Percent Recovery (A)	100
TEQ (A)	0.0060
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

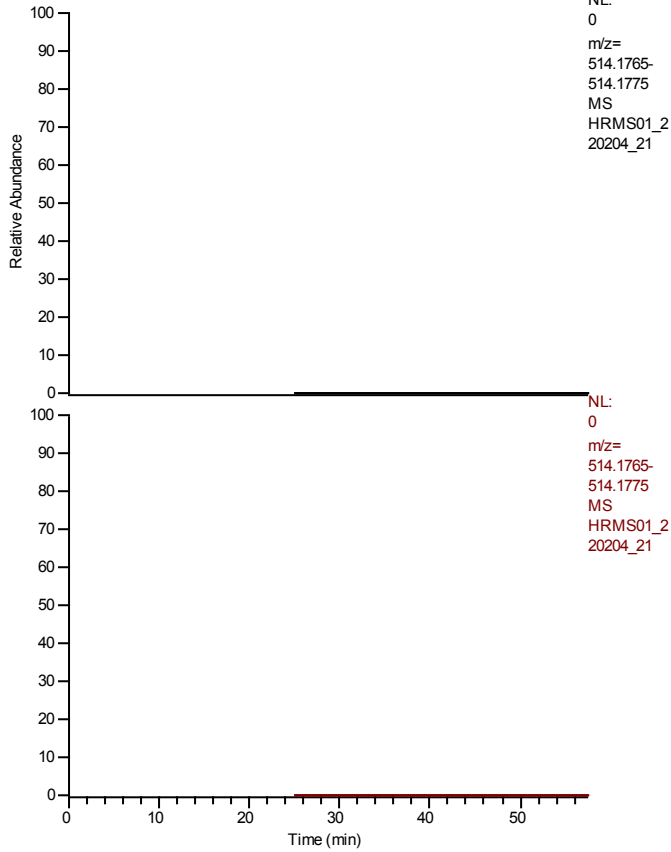
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

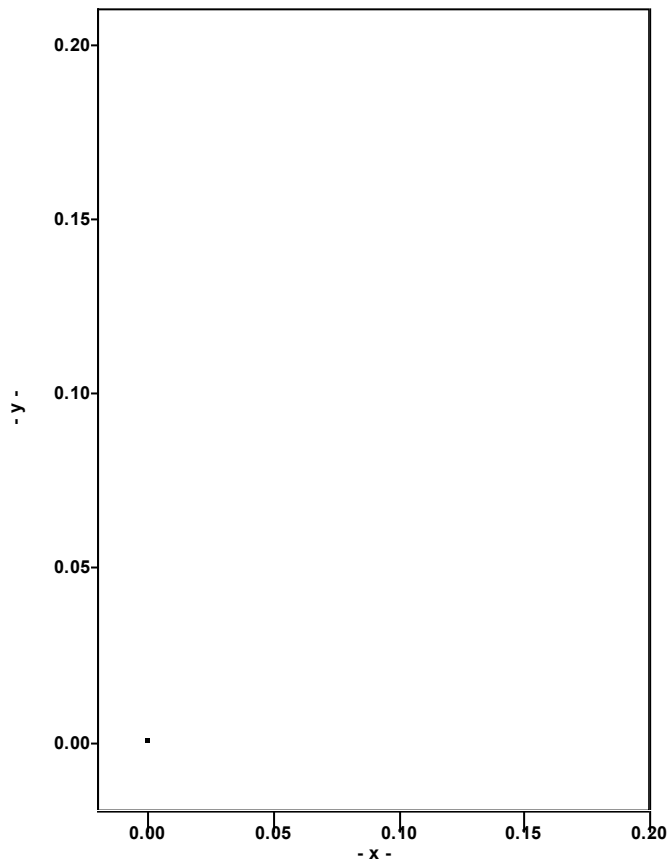
RT: 0.00 - 57.51 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	2879695
RM1 Area	3345861
RM1 Ratio (A)	1.1619
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	174.00
Percent Recovery (A)	---
TEQ (A)	22.8120
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 05:52
Number of Entries	59
Comment	HRMS200402C
Vial	7
Sample Name	IA1613STD-10
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_23_seq
Data	hrms01_220204_23
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

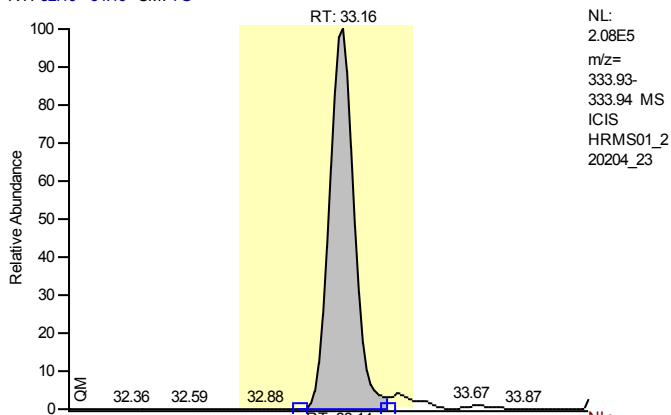
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1367125	997664	0.7298	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2053598	1581430	0.7701	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	182634	141748	0.7761	0.6500 - 0.8900	10.00	10.00	100	1.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	182634	141748	0.7761	0.6500 - 0.8900	10.00	10.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	182634	141748	0.7761	0.6500 - 0.8900	10.00	10.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1694526	1464801	0.8644	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	212586	150947	0.7101	0.6500 - 0.8900	10.00	10.00	100	10.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	212586	150947	0.7101	0.6500 - 0.8900	10.00	10.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	212586	150947	0.7101	0.6500 - 0.8900	10.00	10.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1319680	2064057	1.5641	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	640346	1002448	1.5655	1.3200 - 1.7800	50.00	50.00	100	1.5000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	1340707	2085429	1.5555	1.3200 - 1.7800	50.00	100.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	700360	1082981	1.5463	1.3200 - 1.7800	50.00	50.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	640346	1002448	1.5655	1.3200 - 1.7800	50.00	50.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1272055	2028927	1.5950	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	700360	1082981	1.5463	1.3200 - 1.7800	50.00	50.00	100	15.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		844668	1337442	1.5834	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	433940	671609	1.5477	1.3200 - 1.7800	50.00	50.00	100	50.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	433940	671609	1.5477	1.3200 - 1.7800	50.00	50.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	433940	671609	1.5477	1.3200 - 1.7800	50.00	50.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		337714	337714	1.0000	0.8500 - 1.1500	10.00	10.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1165541	1448871	1.2431	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1764952	928058	0.5258	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	704322	854289	1.2129	1.0500 - 1.4300	50.00	50.00	100	5.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	2850047	3506919	1.2305	1.0500 - 1.4300	50.00	200.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	757207	932398	1.2314	1.0500 - 1.4300	50.00	50.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	704322	854289	1.2129	1.0500 - 1.4300	50.00	50.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	741858	914552	1.2328	1.0500 - 1.4300	50.00	50.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	646659	805680	1.2459	1.0500 - 1.4300	50.00	50.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1989191	1049035	0.5274	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	741858	914552	1.2328	1.0500 - 1.4300	50.00	50.00	100	5.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1977300	1018090	0.5149	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	757207	932398	1.2314	1.0500 - 1.4300	50.00	50.00	100	5.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1822249	946825	0.5196	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	646659	805680	1.2459	1.0500 - 1.4300	50.00	50.00	100	5.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		999887	1316852	1.3170	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	513178	652644	1.2718	1.0500 - 1.4300	50.00	50.00	100	5.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	1640238	2048407	1.2488	1.0500 - 1.4300	50.00	150.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	571610	710222	1.2425	1.0500 - 1.4300	50.00	50.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	513178	652644	1.2718	1.0500 - 1.4300	50.00	50.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	555449	685541	1.2342	1.0500 - 1.4300	50.00	50.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1118631	1358713	1.2146	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	571610	710222	1.2425	1.0500 - 1.4300	50.00	50.00	100	5.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	555449	685541	1.2342	1.0500 - 1.4300	50.00	50.00	100	5.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1664299	794075	0.4771	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	777577	800384	1.0293	0.8800 - 1.2000	50.00	50.00	100	0.5000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1565712	1633165	1.0431	0.8800 - 1.2000	50.00	100.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	777577	800384	1.0293	0.8800 - 1.2000	50.00	50.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	788135	832781	1.0566	0.8800 - 1.2000	50.00	50.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1832615	748464	0.4084	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	788135	832781	1.0566	0.8800 - 1.2000	50.00	50.00	100	0.5000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1122947	1154739	1.0283	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	605066	627208	1.0366	0.8800 - 1.2000	50.00	50.00	100	0.5000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	605066	627208	1.0366	0.8800 - 1.2000	50.00	50.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	605066	627208	1.0366	0.8800 - 1.2000	50.00	50.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2243721	2099629	0.9358	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1460750	1309691	0.8966	0.7600 - 1.0200	100.00	100.00	100	0.0300
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	1185828	1062216	0.8958	0.7600 - 1.0200	100.00	100.00	100	0.0300
59	overall TEQ	overall TEQ test		11477506	13237339	1.1533	0.0000 - 0.0000	0.00	870.00	---	114.0600

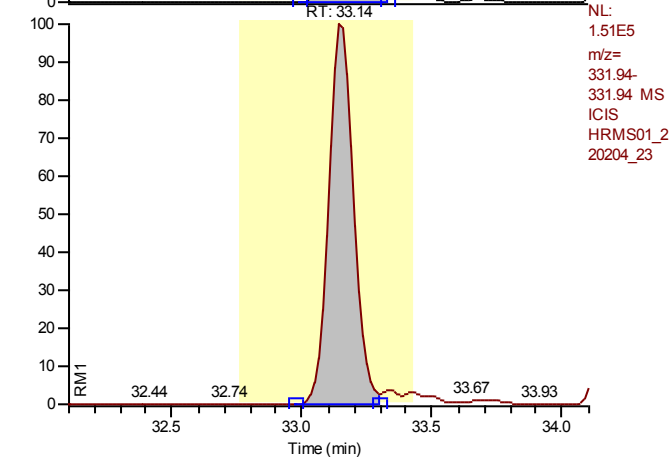
Chromatogram

Entry Parameters

RT: 32.10-34.10 SM: 7G



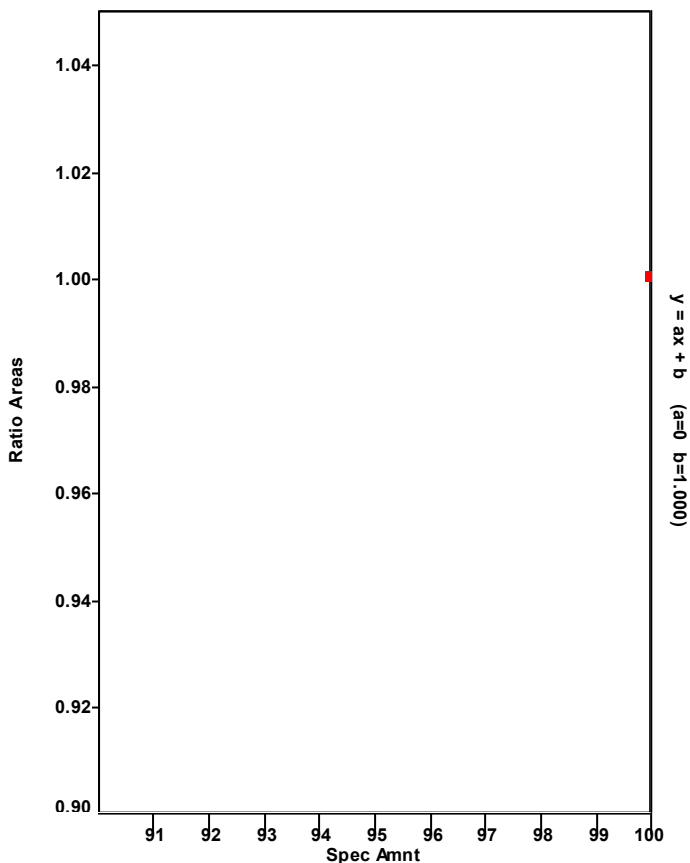
Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1367125
RM1 Area	997664
RM1 Ratio (A)	0.7298
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

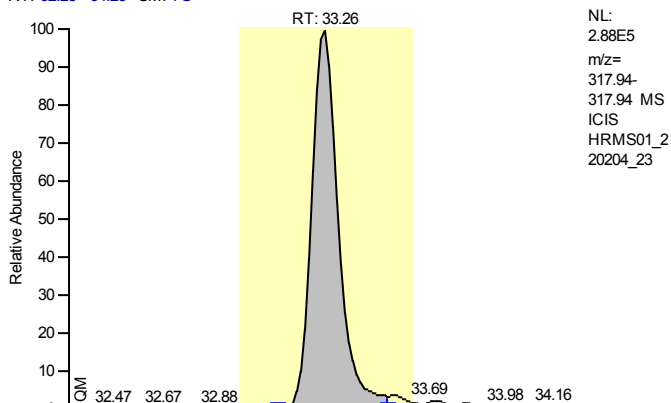
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

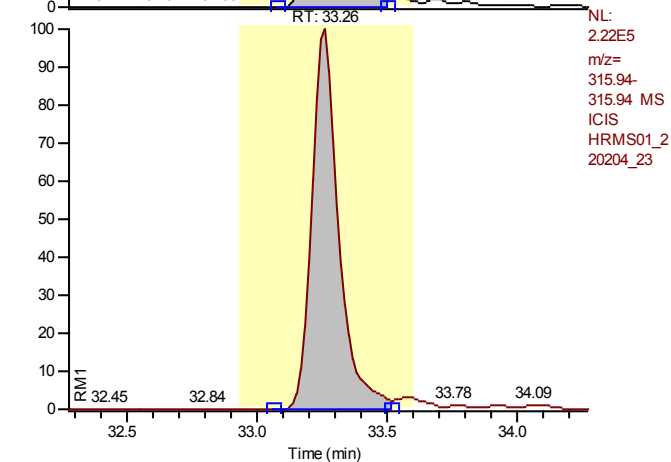
Entry Parameters

RT: 32.28 - 34.28 SM: 7G



NL:
 2.88E5
 m/z=
 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2053598
RM1 Area	1581430
RM1 Ratio (A)	0.7701
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

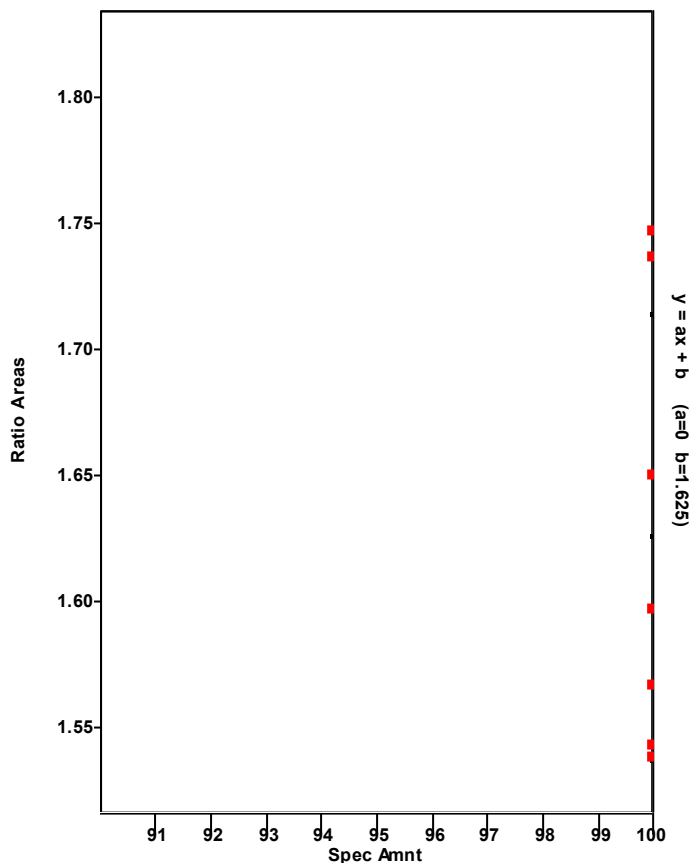


NL:
 2.22E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

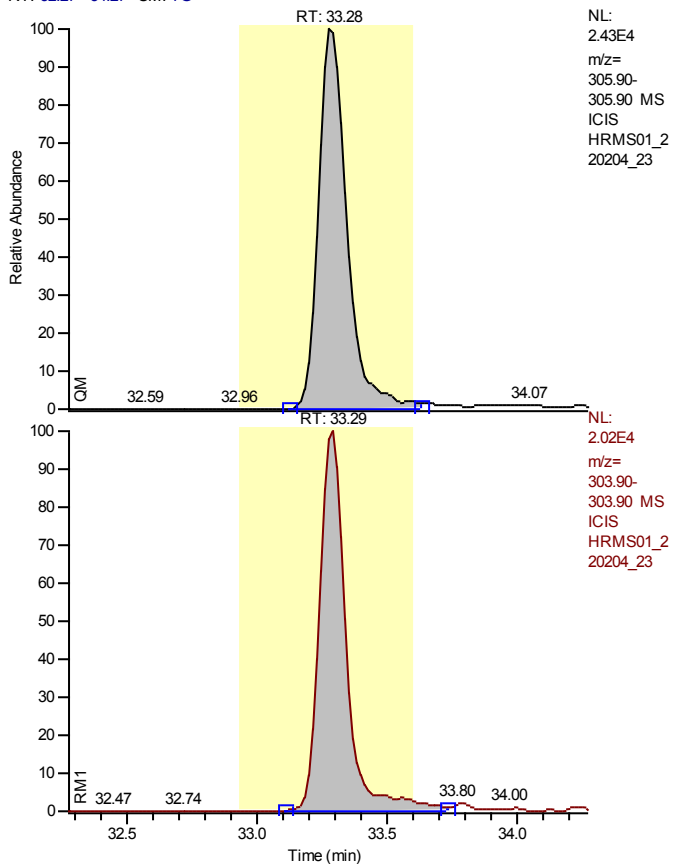
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G

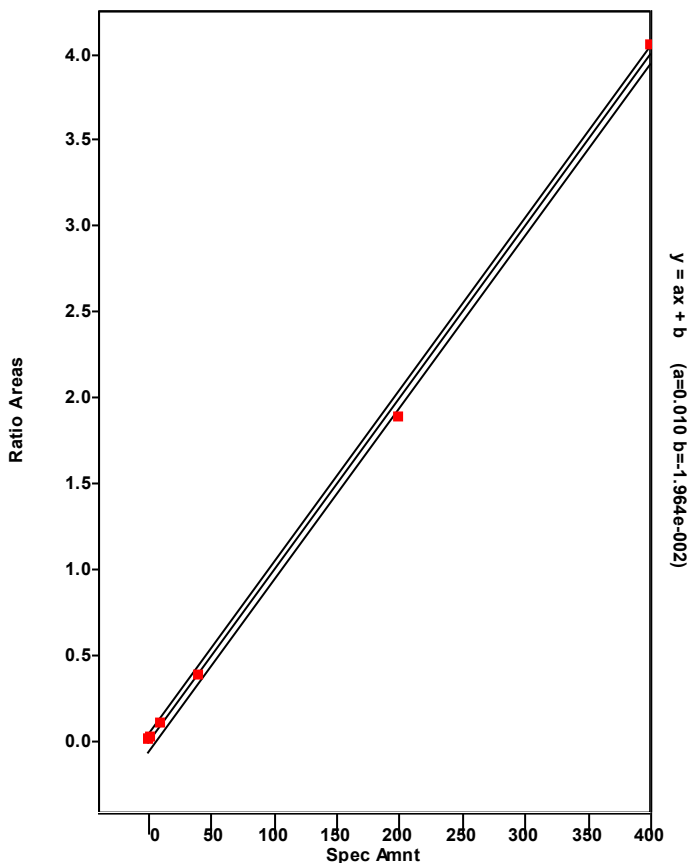


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	182634
RM1 Area	141748
RM1 Ratio (A)	0.7761
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	1.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

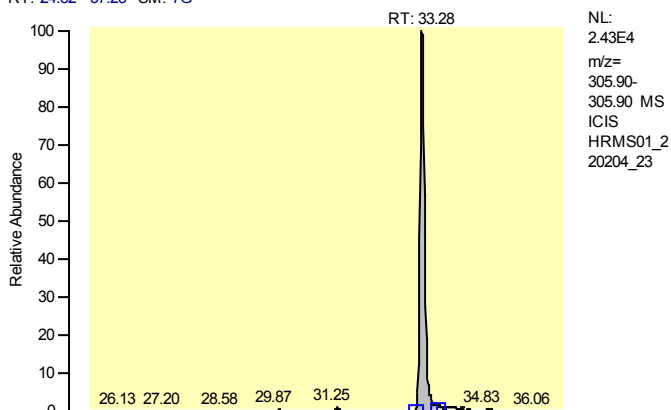
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

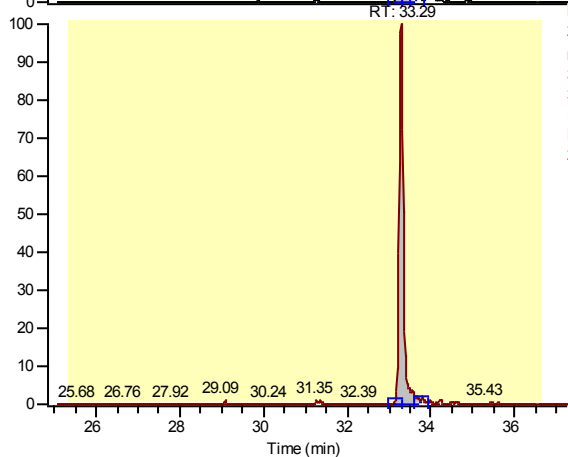
Entry Parameters

RT: 24.82 - 37.25 SM: 7G



NL: 2.43E4
 m/z= 305.90-305.90 MS
 ICIS HRMS01_2 20204_23

Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	182634
RM1 Area	141748
RM1 Ratio (A)	0.7761
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

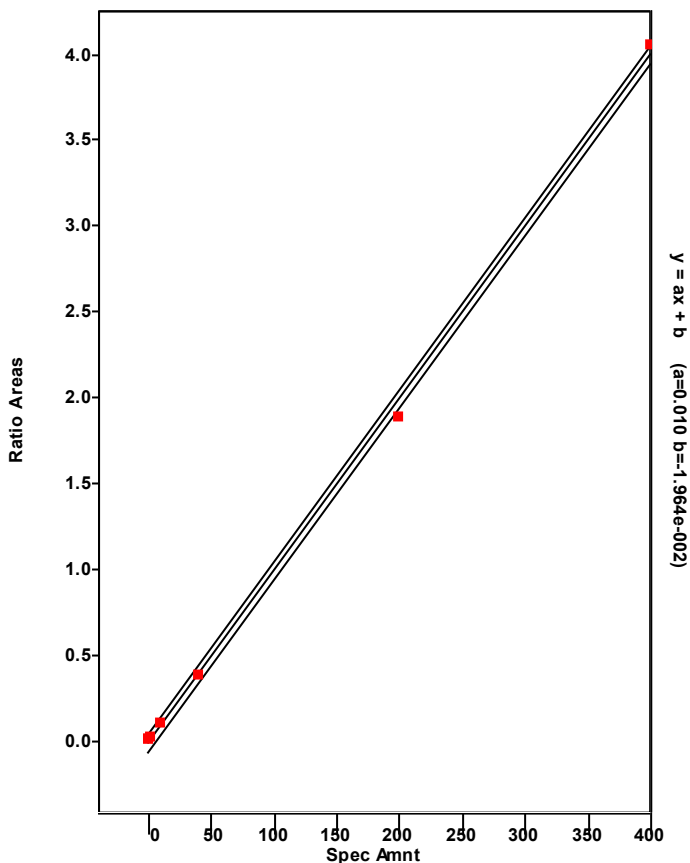


NL: 2.02E4
 m/z= 303.90-303.90 MS
 ICIS HRMS01_2 20204_23

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

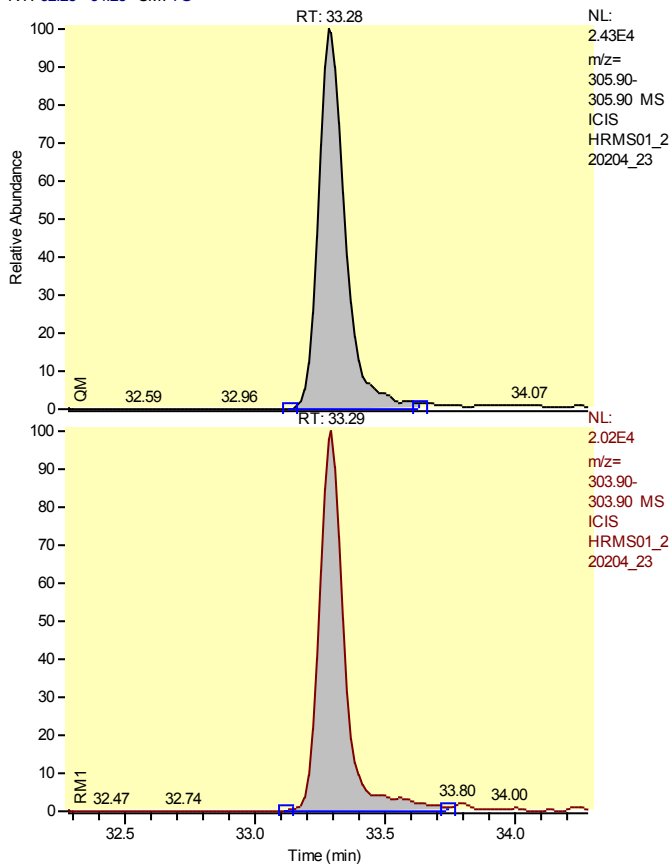
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

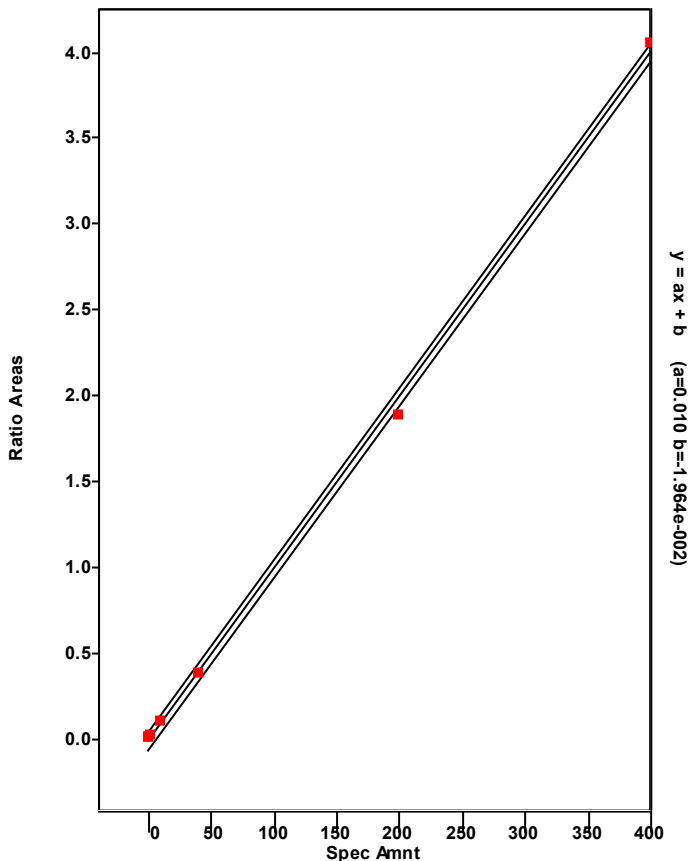


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	182634
RM1 Area	141748
RM1 Ratio (A)	0.7761
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

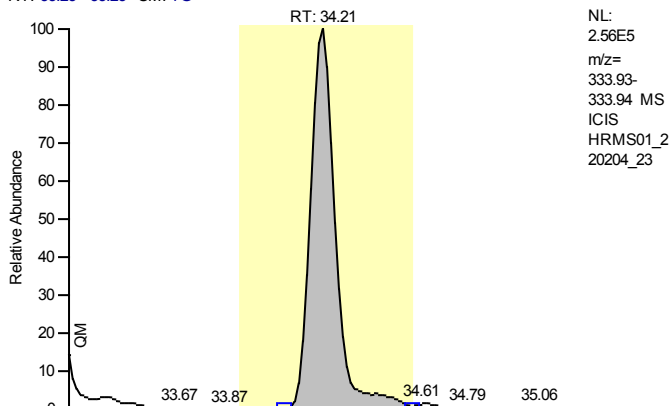
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

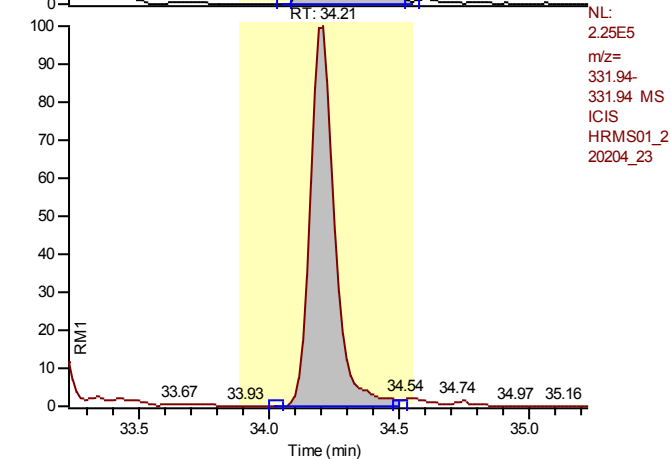
Entry Parameters

RT: 33.23 - 35.23 SM: 7G



NL:
 2.56E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1694526
RM1 Area	1464801
RM1 Ratio (A)	0.8644
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

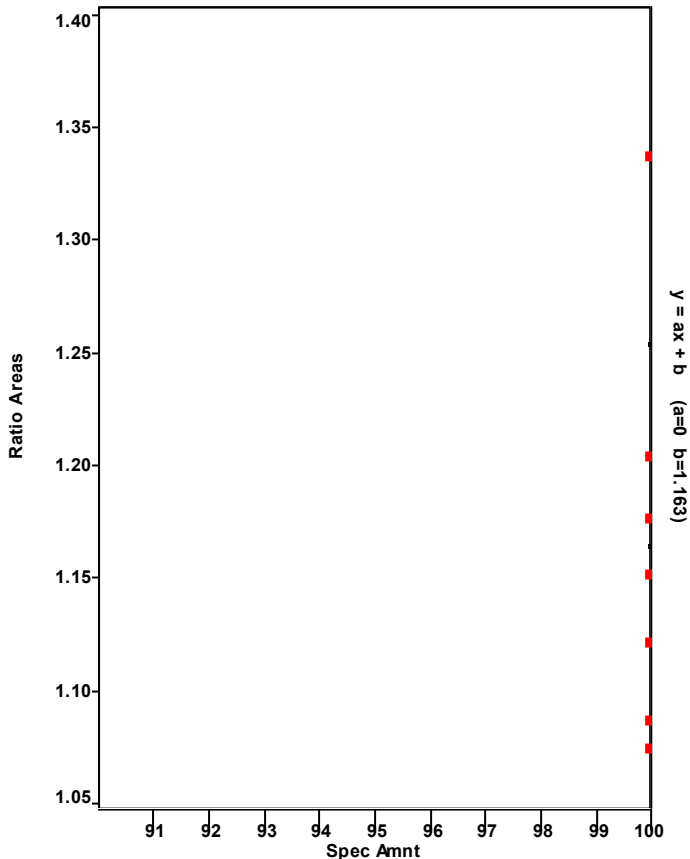


NL:
 2.25E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

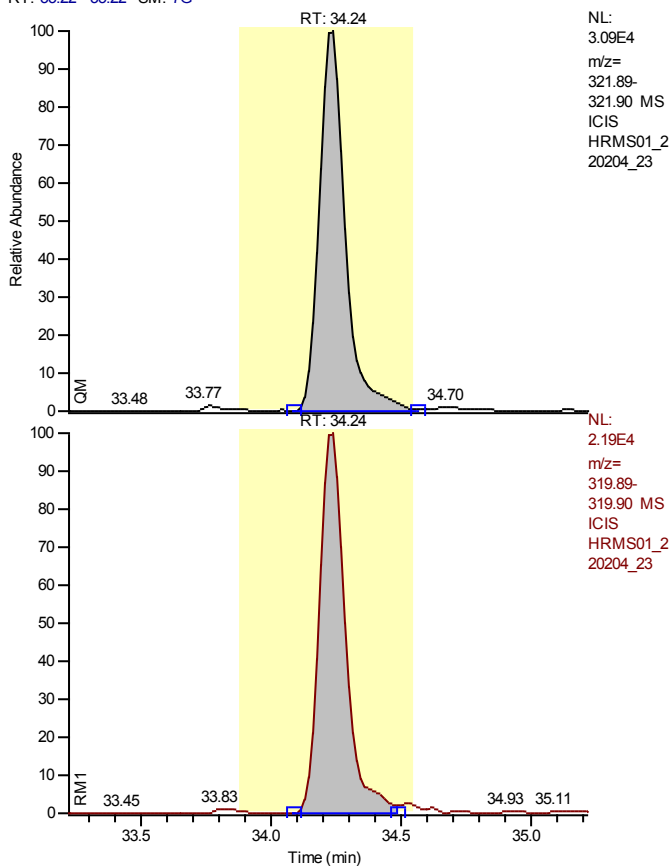
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

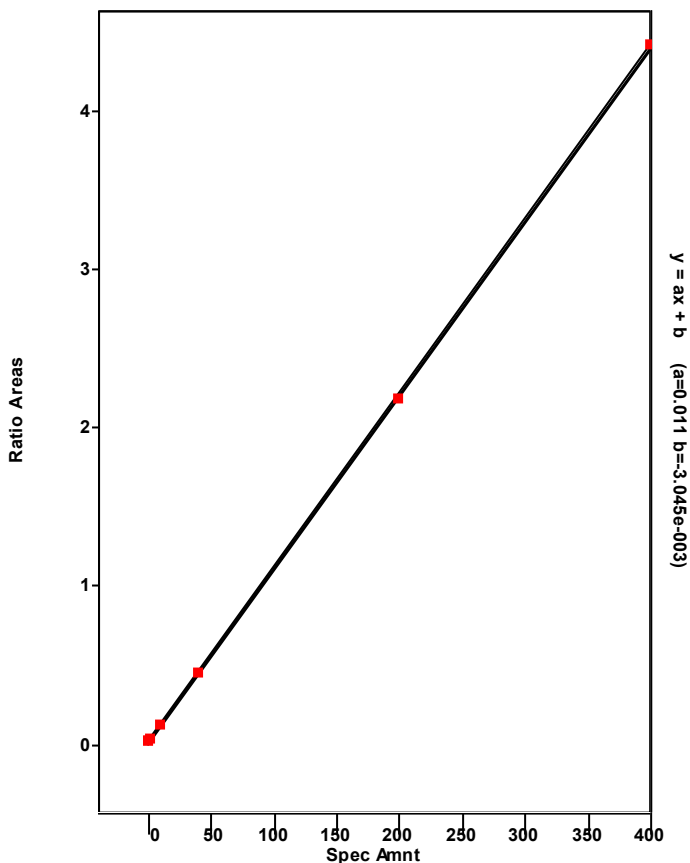


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	212586
RM1 Area	150947
RM1 Ratio (A)	0.7101
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

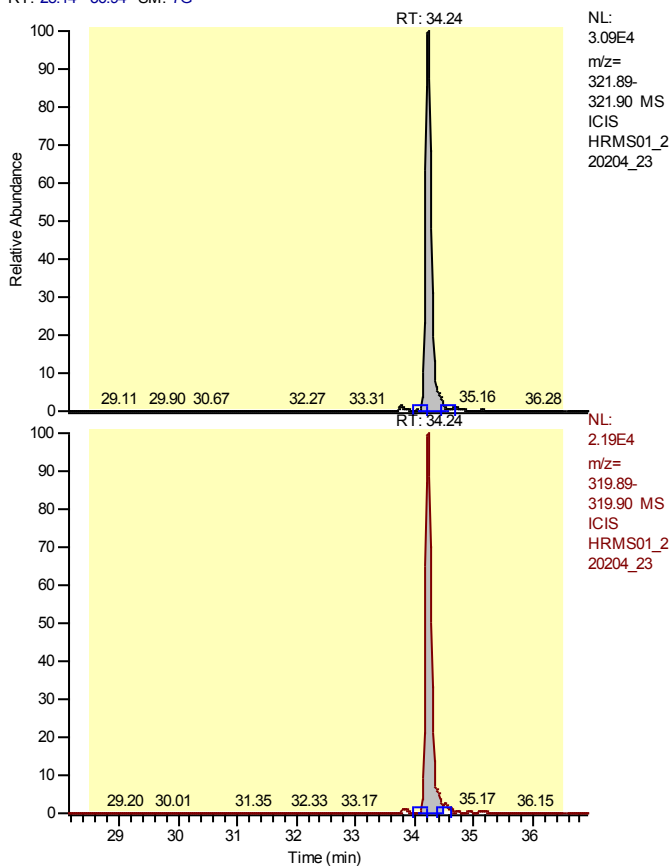
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.14 - 36.94 SM: 7G

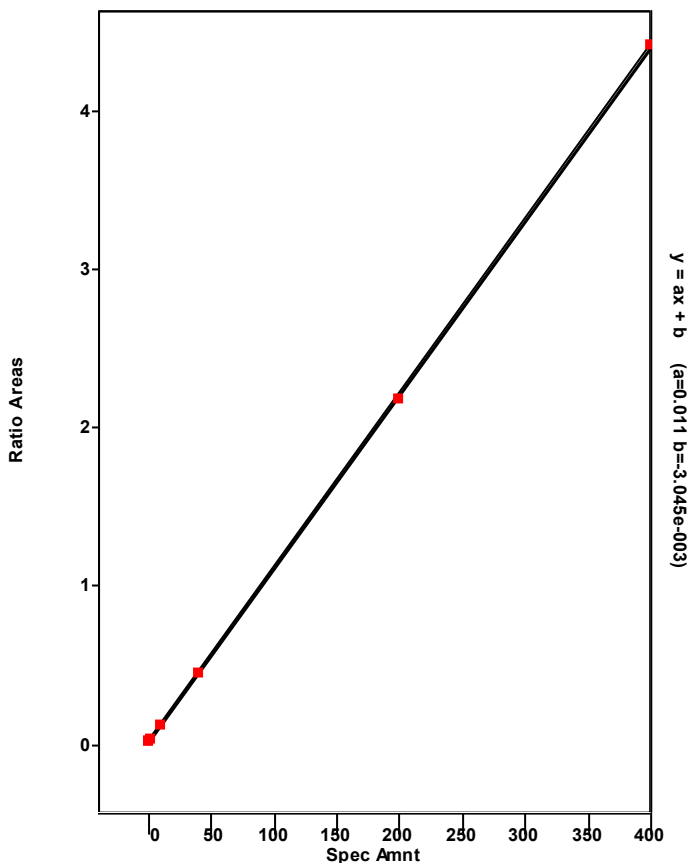


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	212586
RM1 Area	150947
RM1 Ratio (A)	0.7101
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

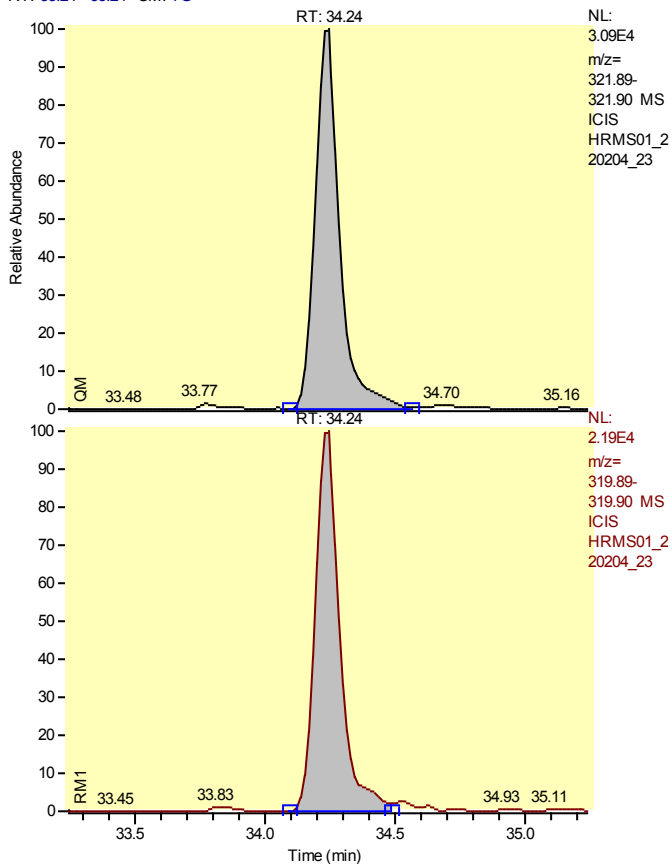
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G

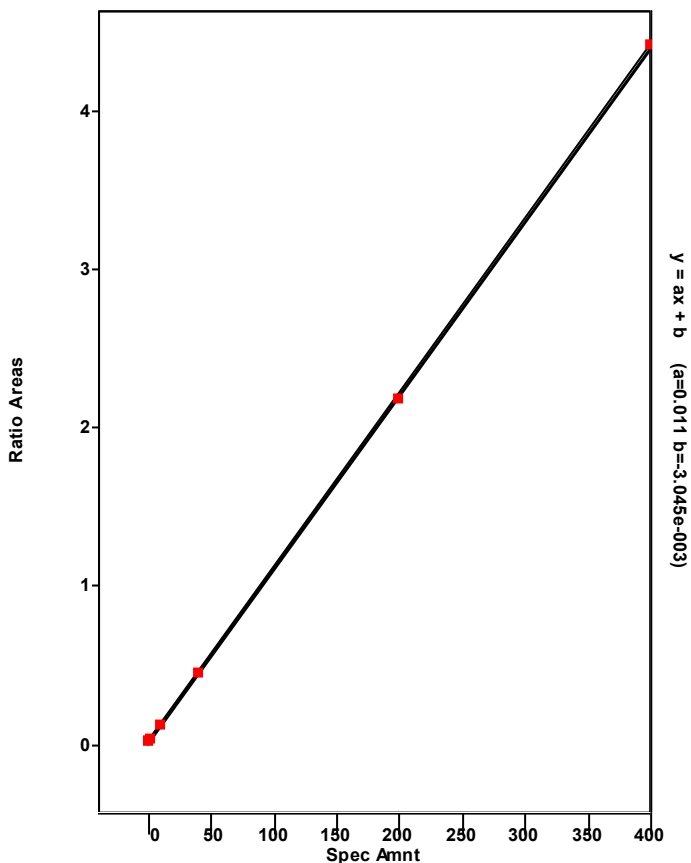


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	212586
RM1 Area	150947
RM1 Ratio (A)	0.7101
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

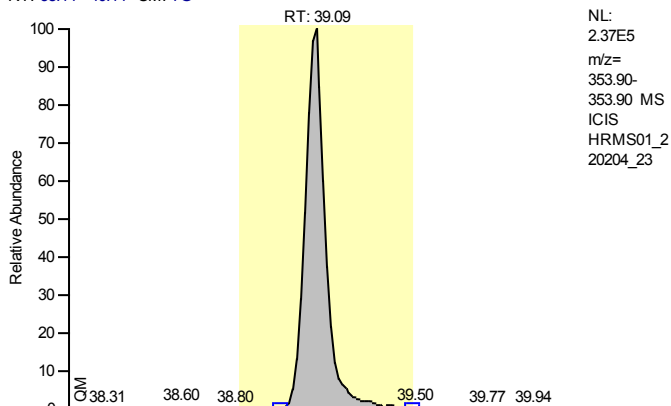
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



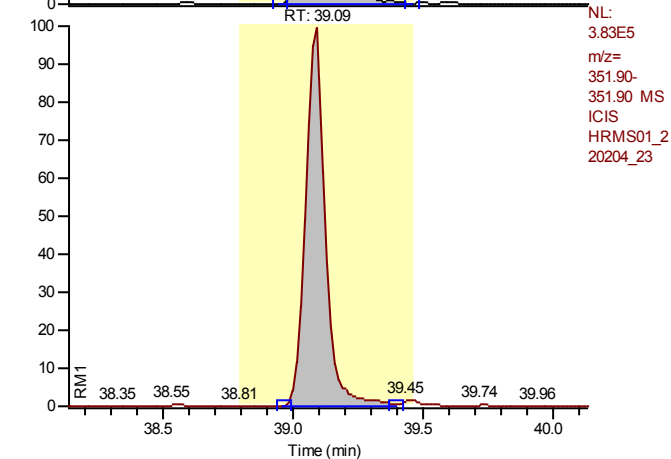
Chromatogram

Entry Parameters

RT: 38.14 - 40.14 SM: 7G



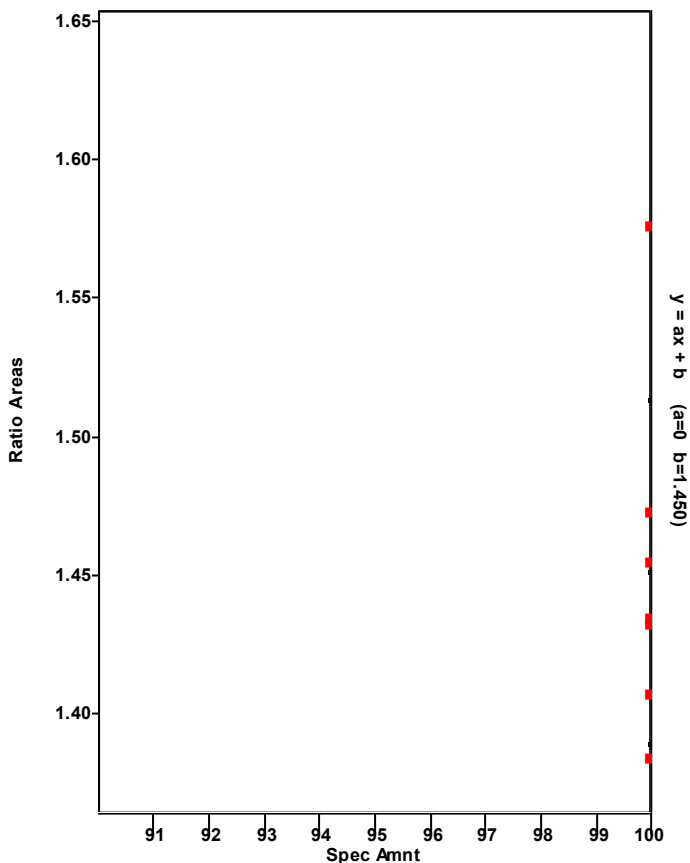
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1319680
RM1 Area	2064057
RM1 Ratio (A)	1.5641
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

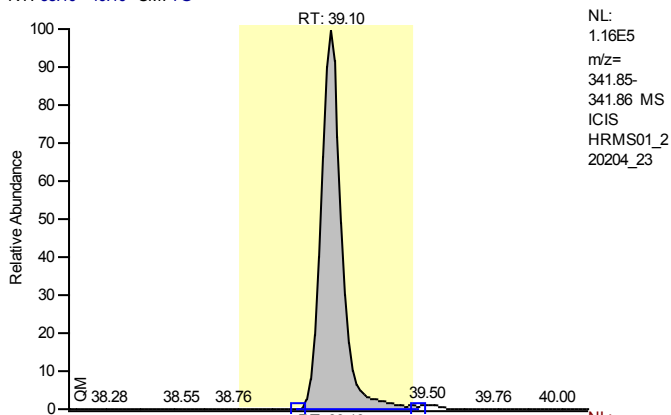
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



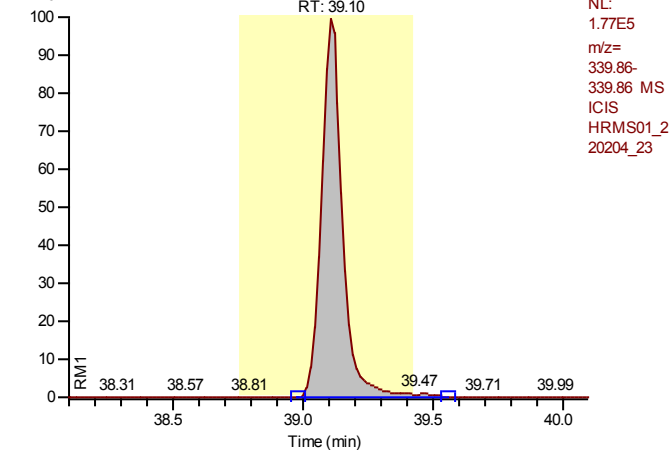
Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G



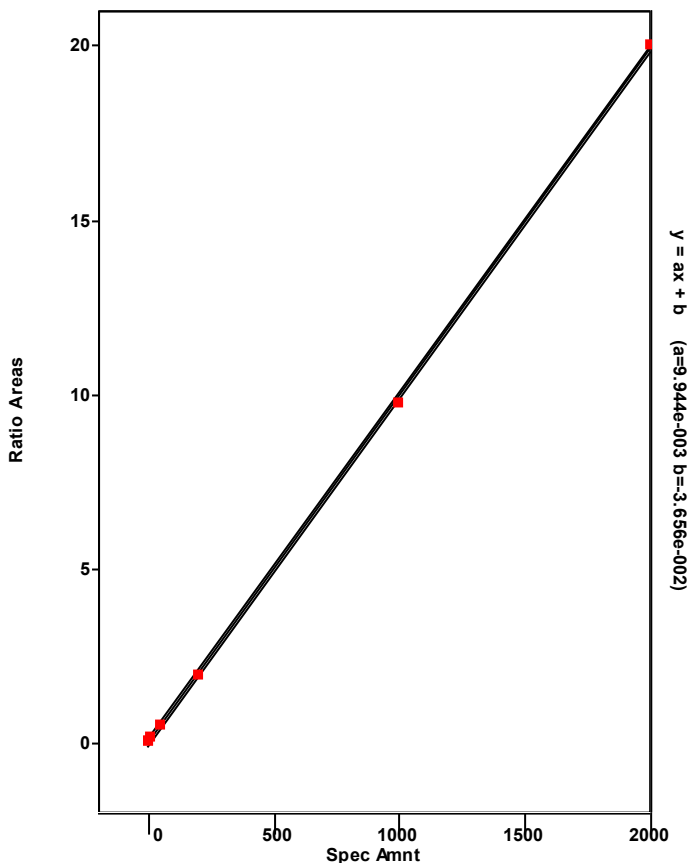
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	640346
RM1 Area	1002448
RM1 Ratio (A)	1.5655
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	1.5000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

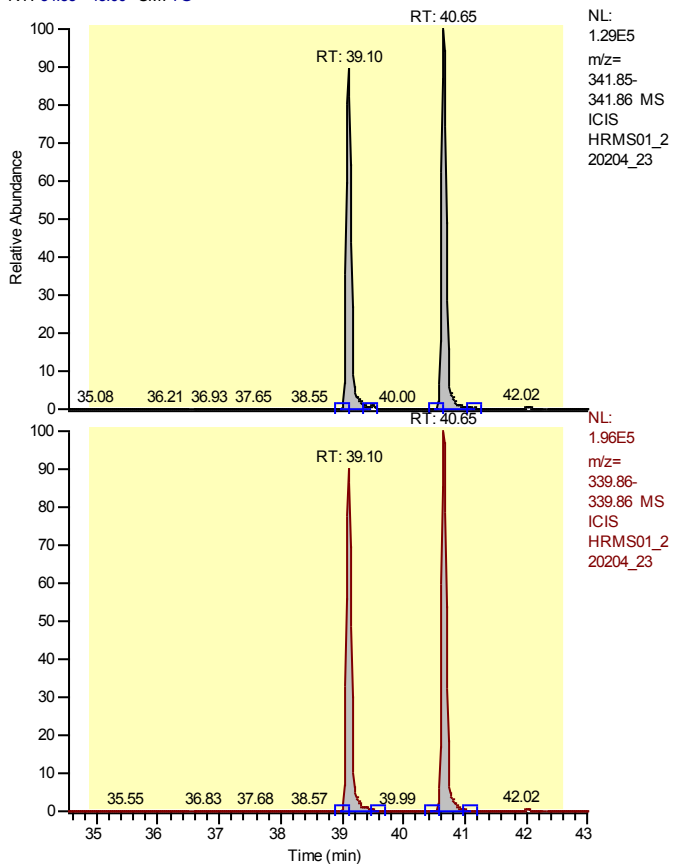
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.53 - 43.00 SM: 7G

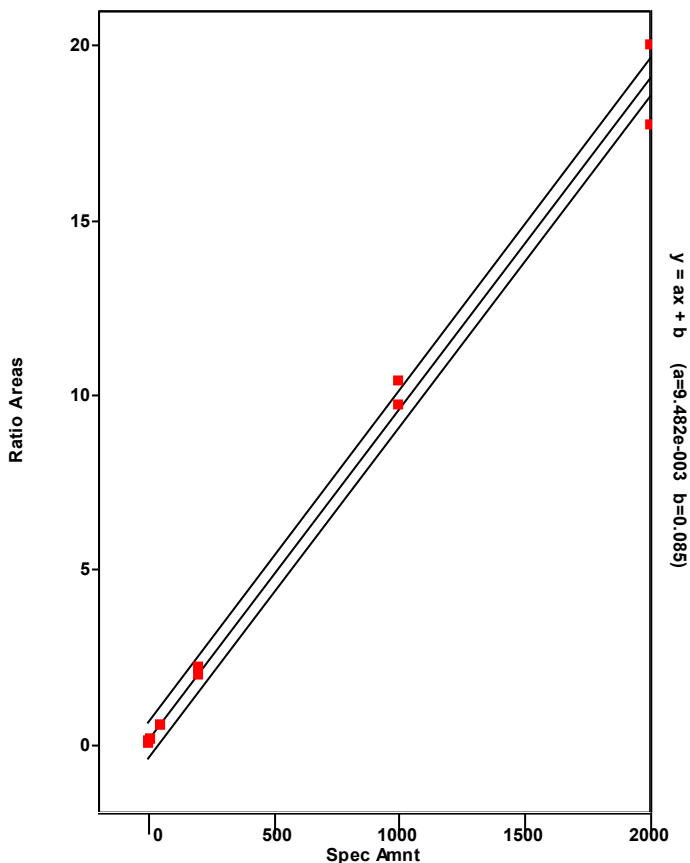


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	1340707
RM1 Area	2085429
RM1 Ratio (A)	1.5555
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	100.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

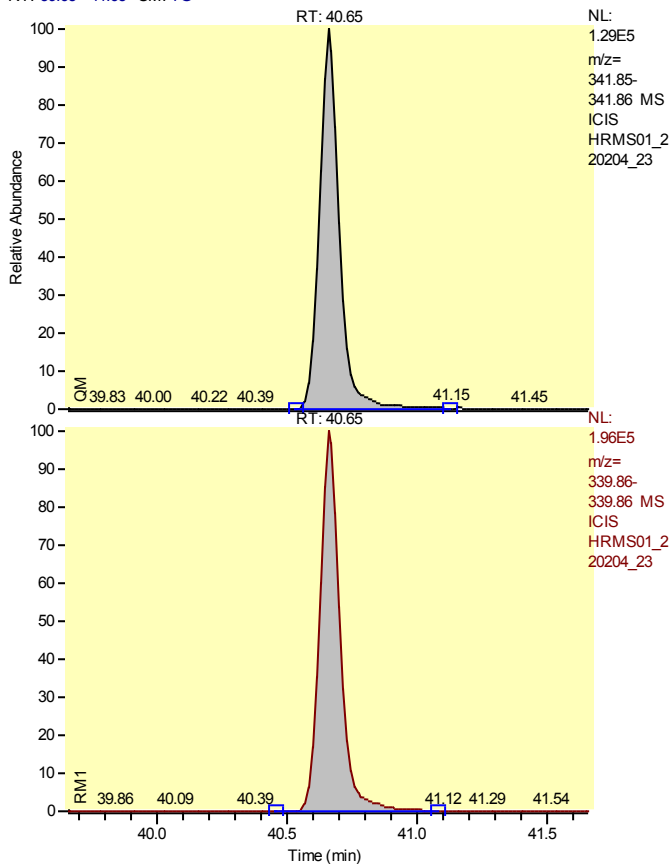
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G

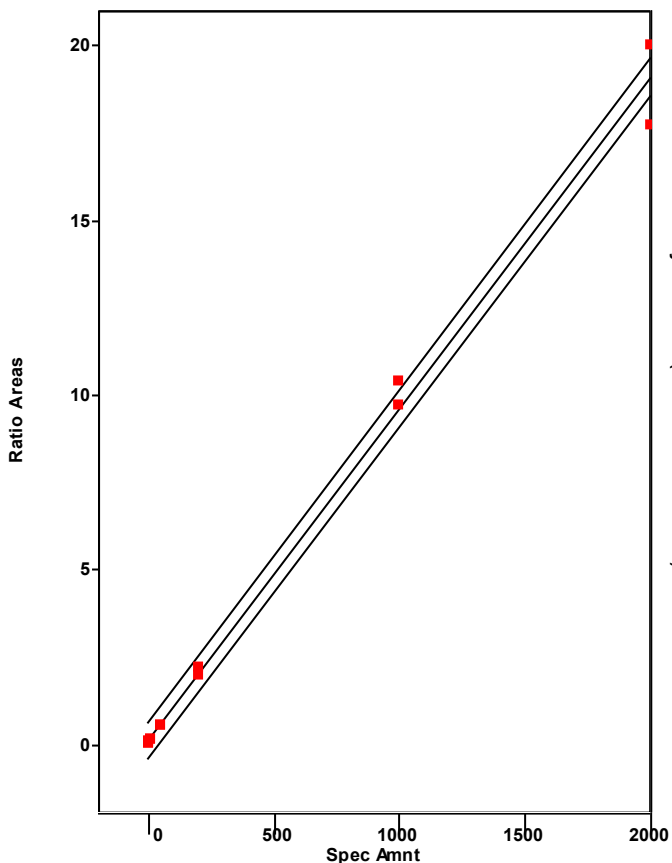


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	700360
RM1 Area	1082981
RM1 Ratio (A)	1.5463
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

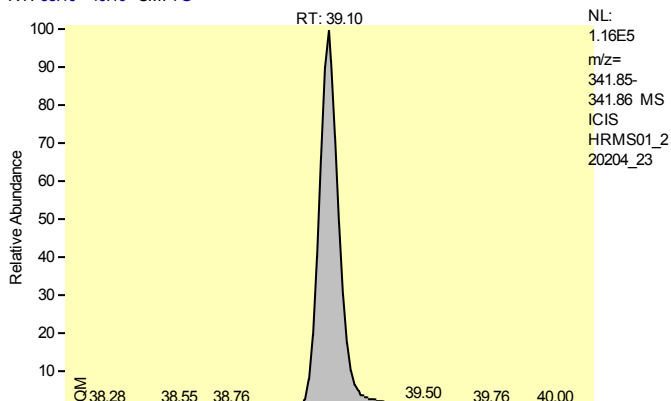
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

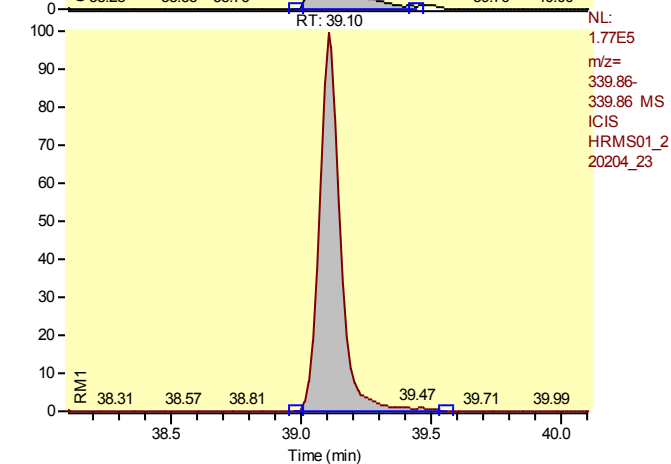
Entry Parameters

RT: 38.10 - 40.10 SM: 7G



NL:
 1.16E5
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	640346
RM1 Area	1002448
RM1 Ratio (A)	1.5655
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

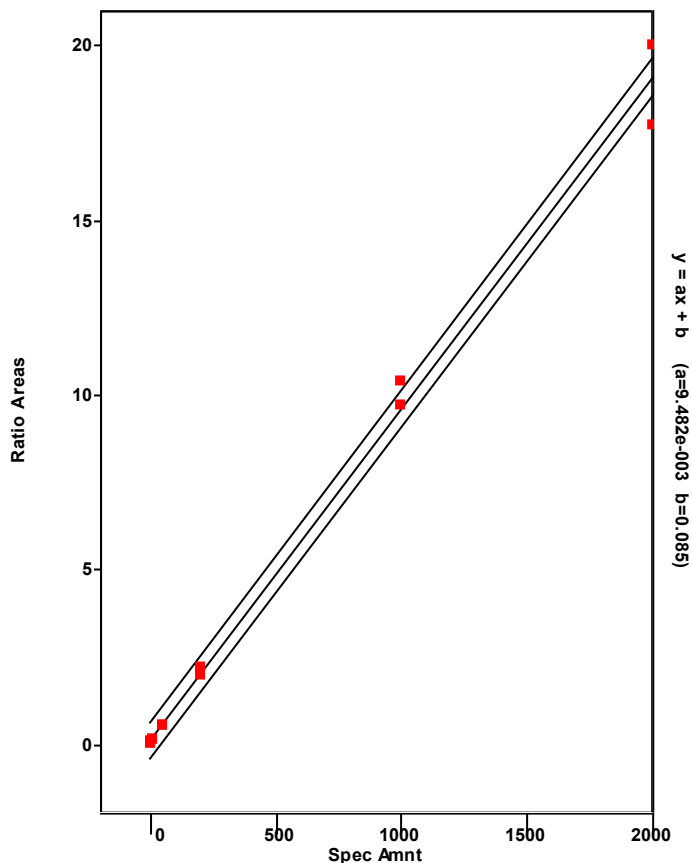


NL:
 1.77E5
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

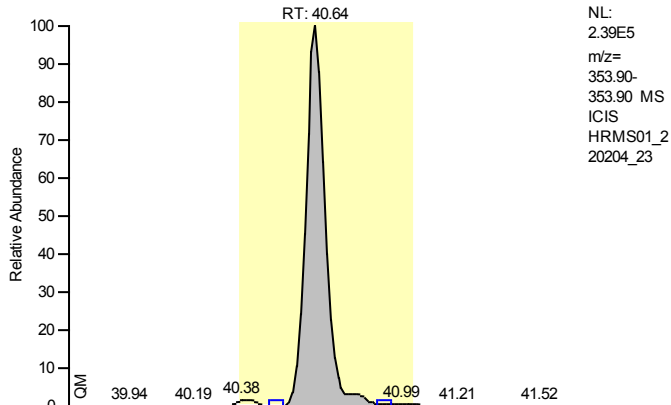
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



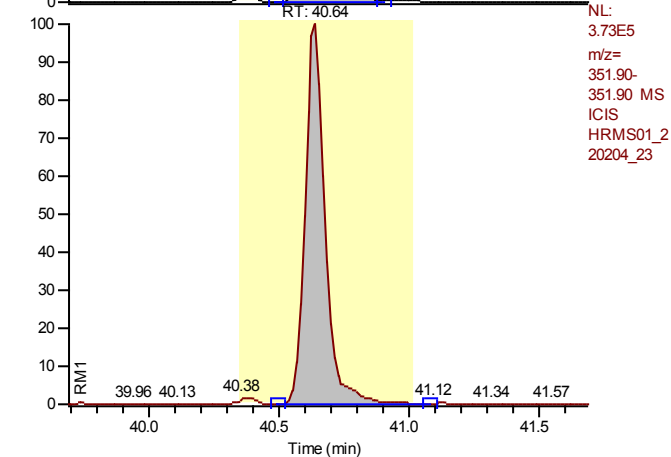
Chromatogram

Entry Parameters

RT: 39.69 - 41.69 SM: 7G



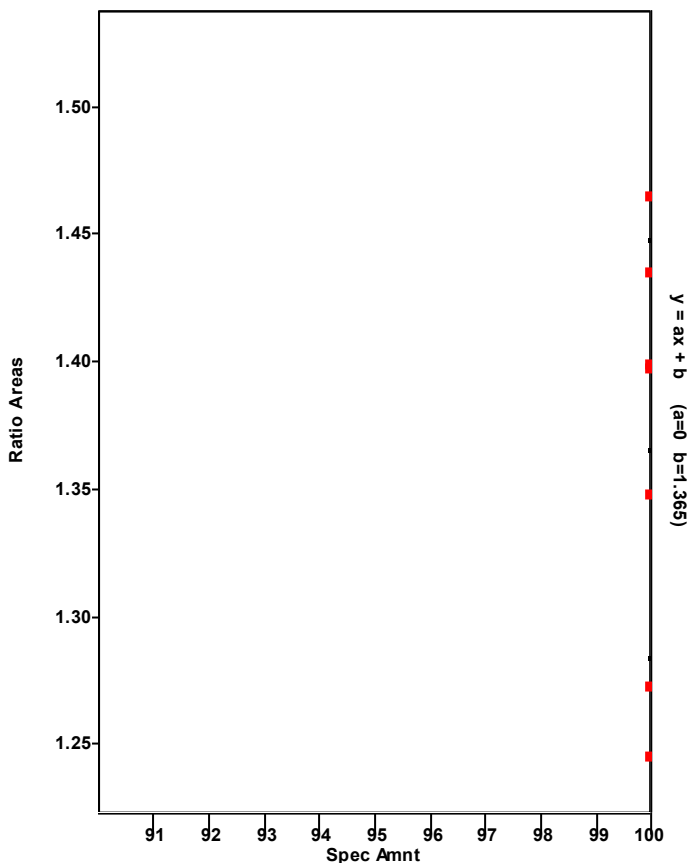
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1272055
RM1 Area	2028927
RM1 Ratio (A)	1.5950
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

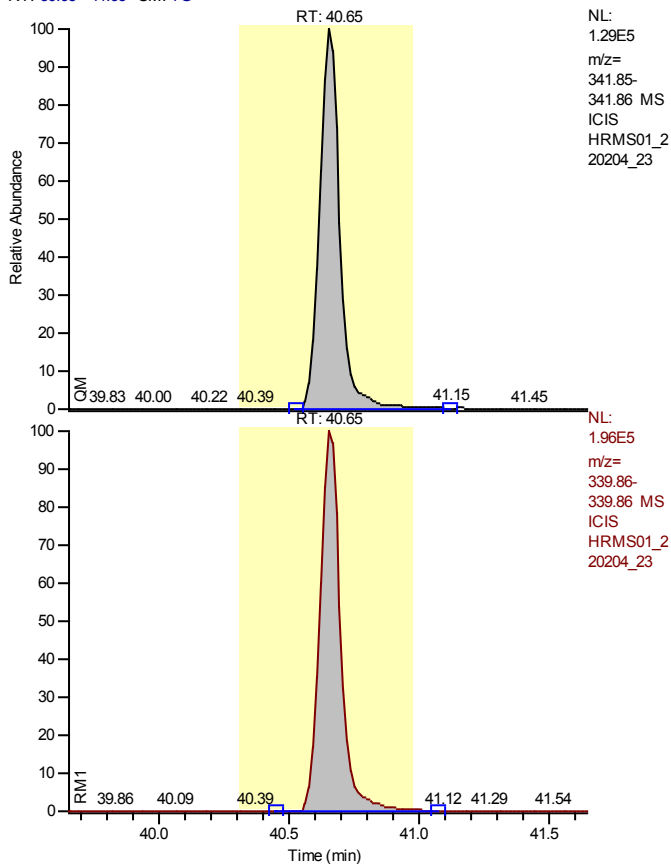
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G



NL:
1.29E5
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20204_23

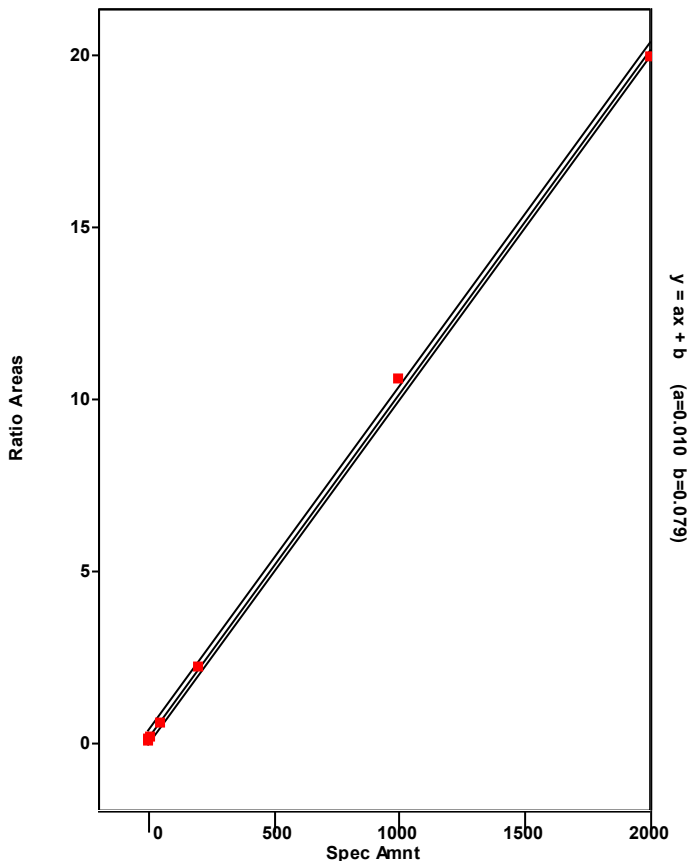
NL:
1.96E5
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20204_23

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	700360
RM1 Area	1082981
RM1 Ratio (A)	1.5463
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	15.0000
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

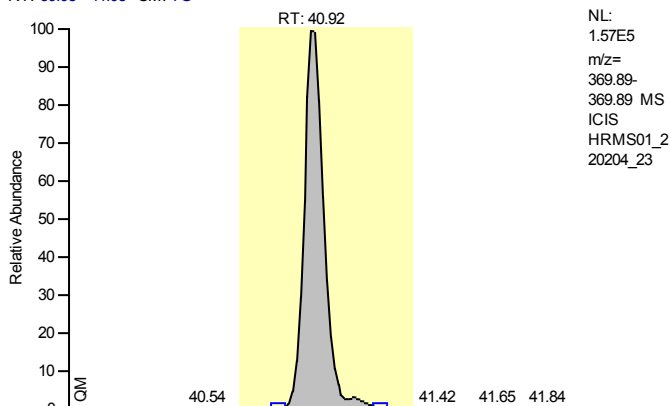
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



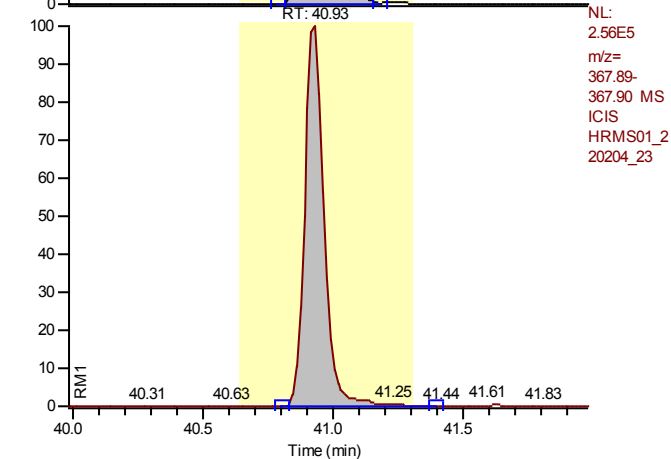
Chromatogram

Entry Parameters

RT: 39.98 - 41.98 SM: 7G



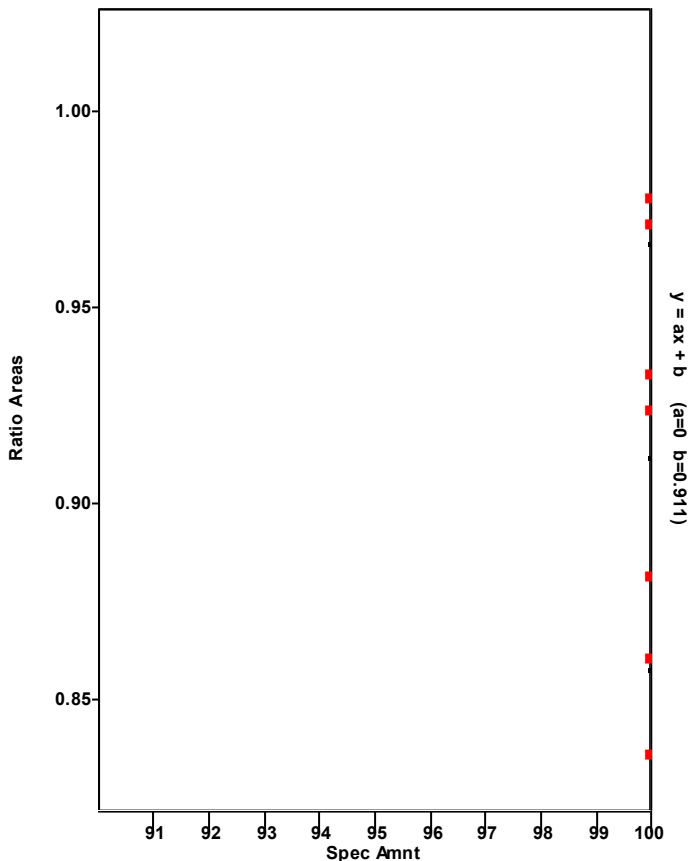
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	844668
RM1 Area	1337442
RM1 Ratio (A)	1.5834
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

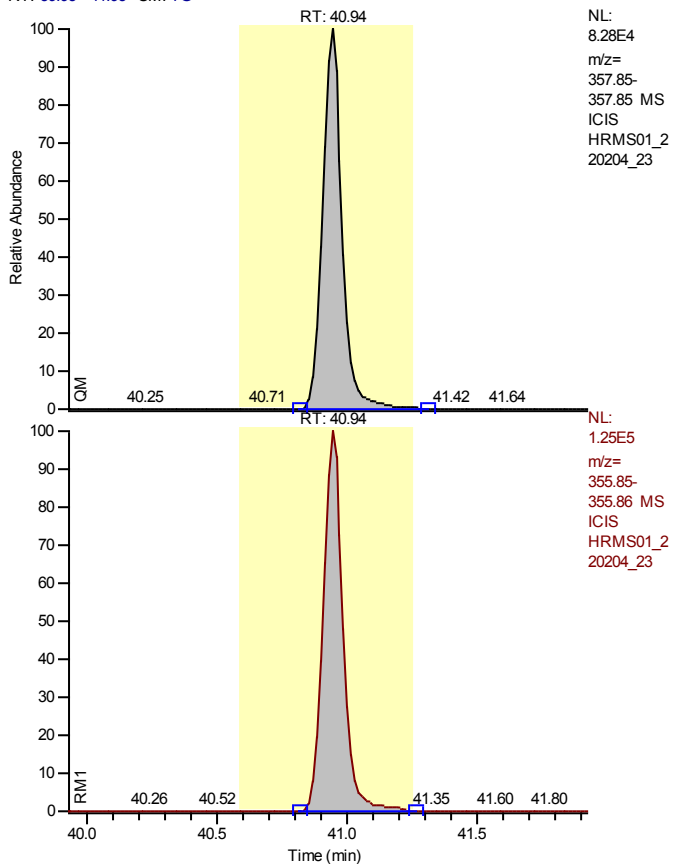
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.93 - 41.93 SM: 7G



NL:
 8.28E4
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20204_23

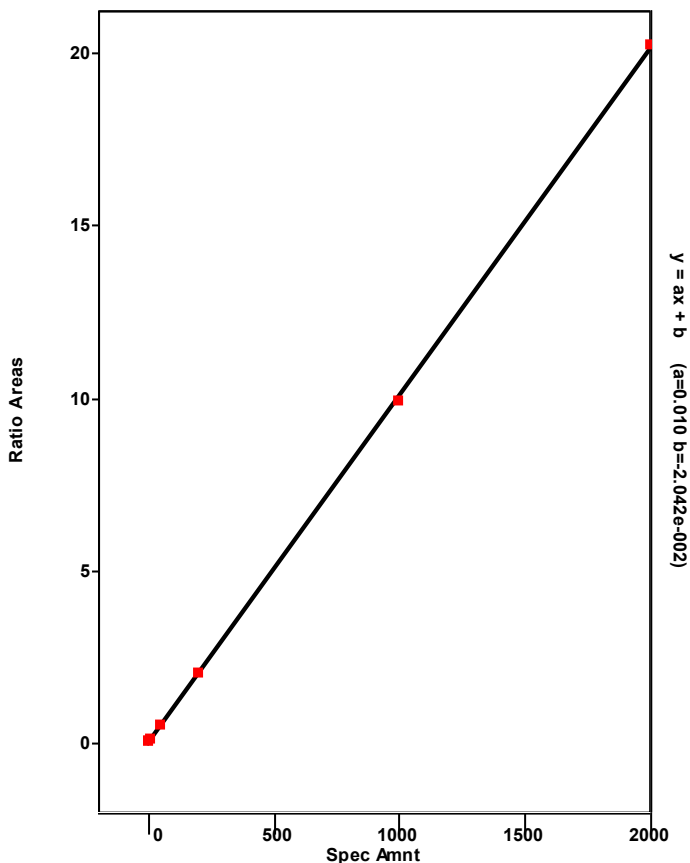
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	433940
RM1 Area	671609
RM1 Ratio (A)	1.5477
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	50.0000
Label2	

NL:
 1.25E5
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

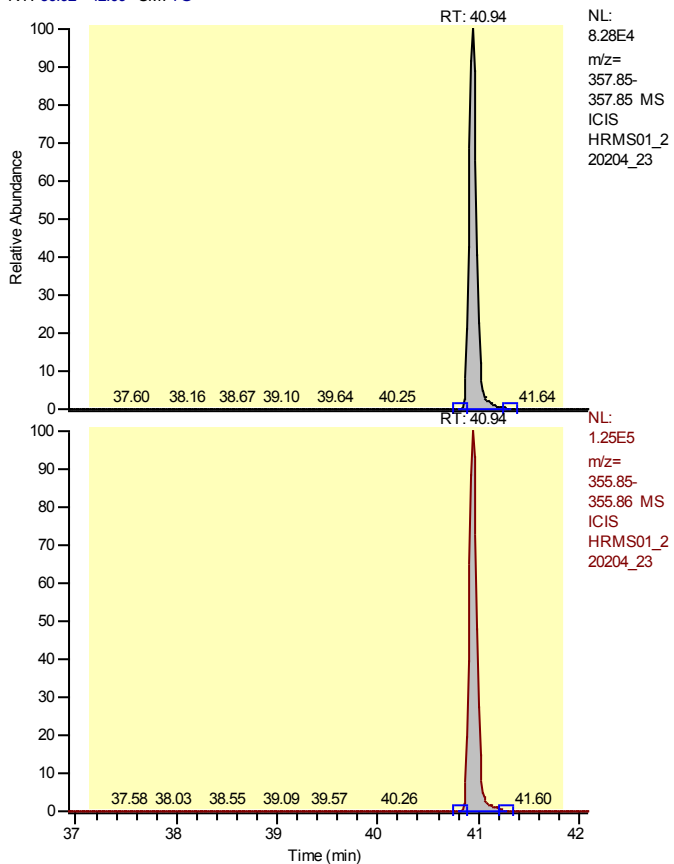
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.92 - 42.09 SM: 7G

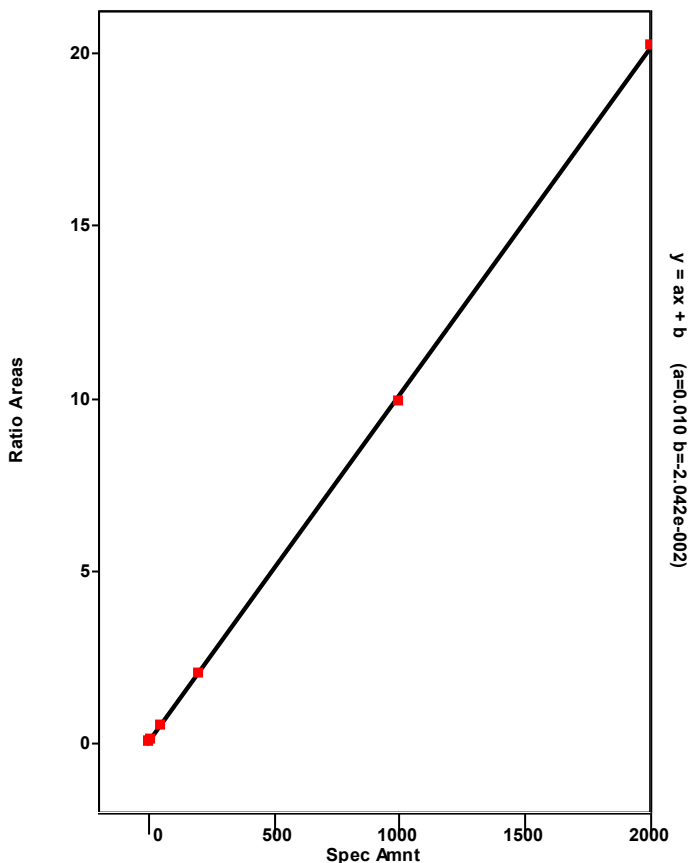


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	433940
RM1 Area	671609
RM1 Ratio (A)	1.5477
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

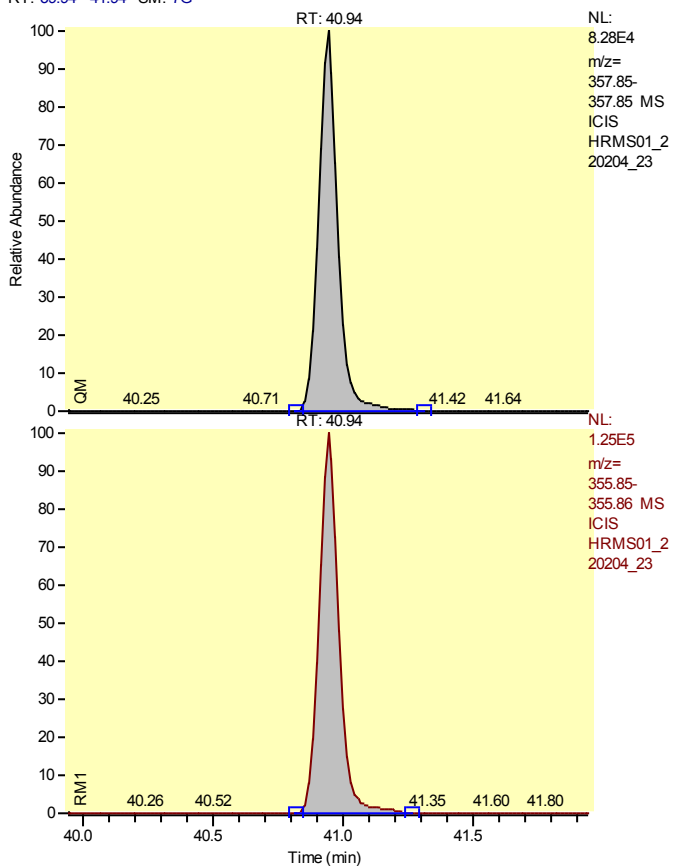
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G

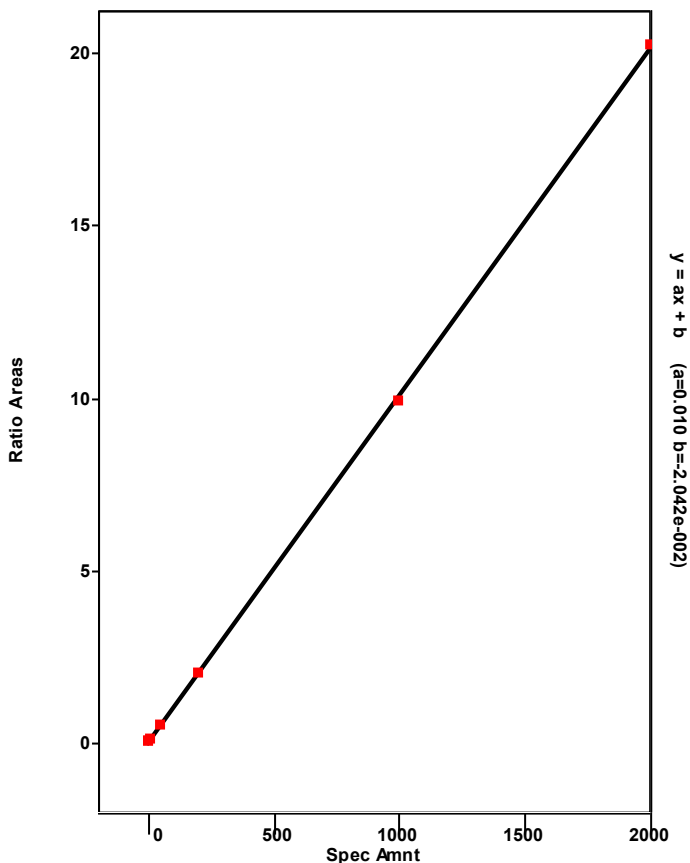


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	433940
RM1 Area	671609
RM1 Ratio (A)	1.5477
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

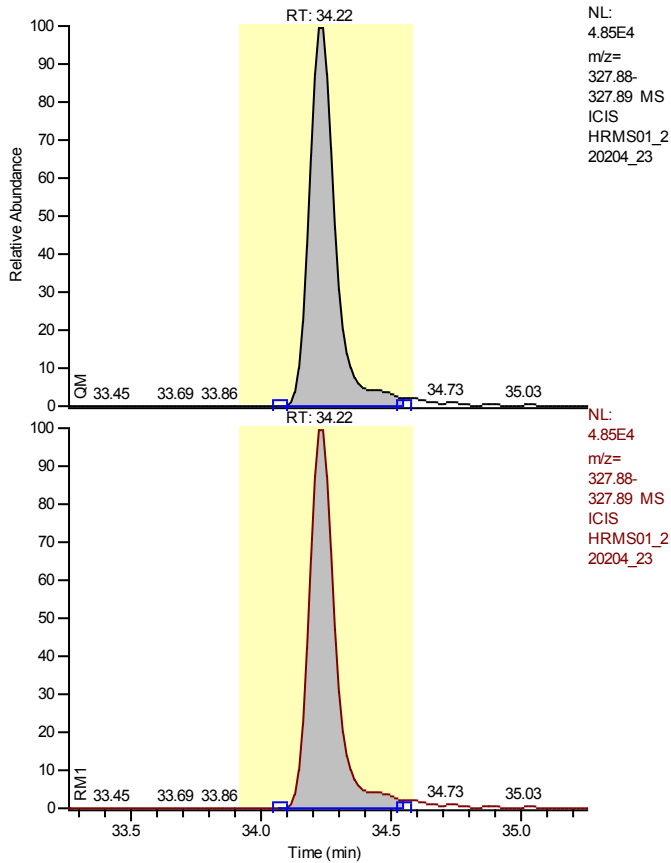
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.26 - 35.26 SM: 7G

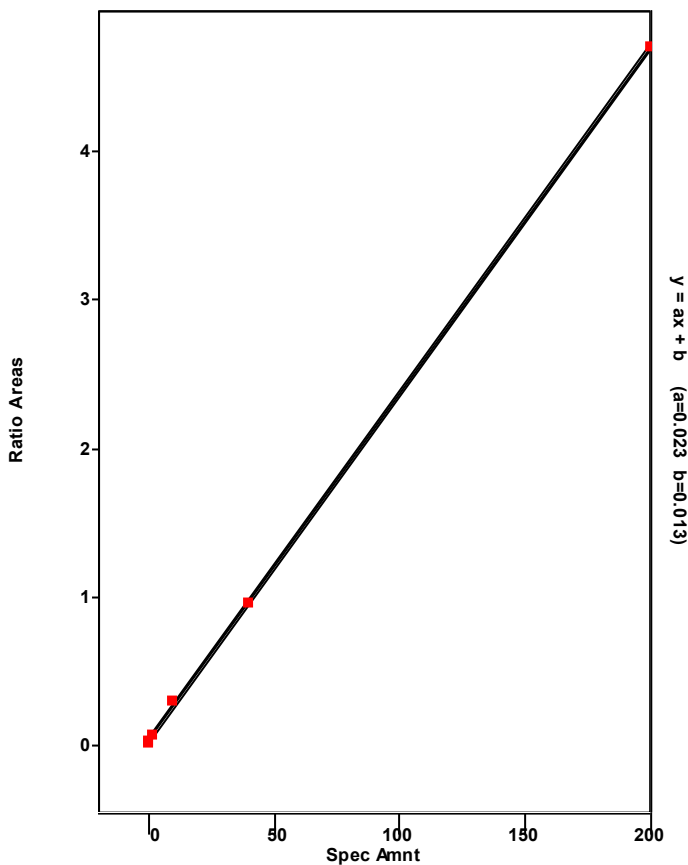


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	337714
RM1 Area	337714
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

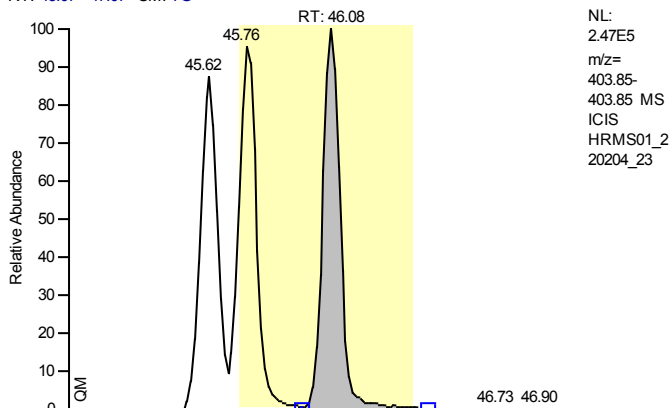
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

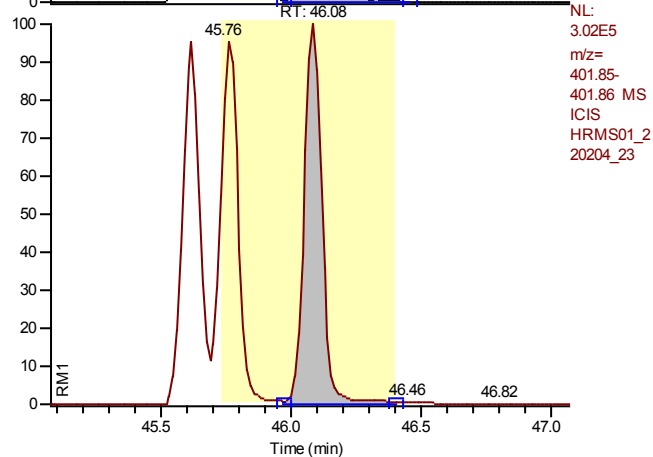
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 2.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1165541
RM1 Area	1448871
RM1 Ratio (A)	1.2431
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

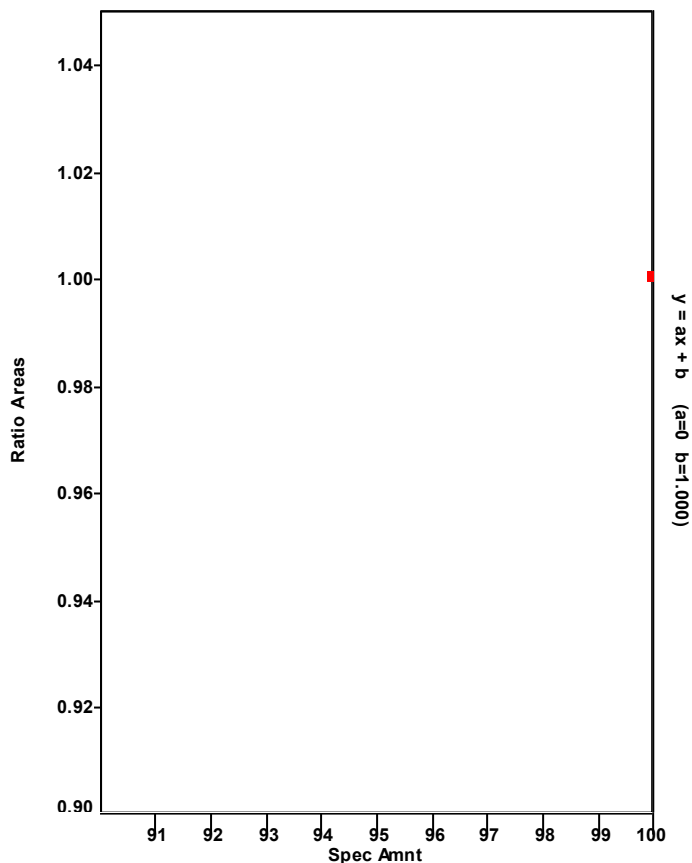


NL:
 3.02E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

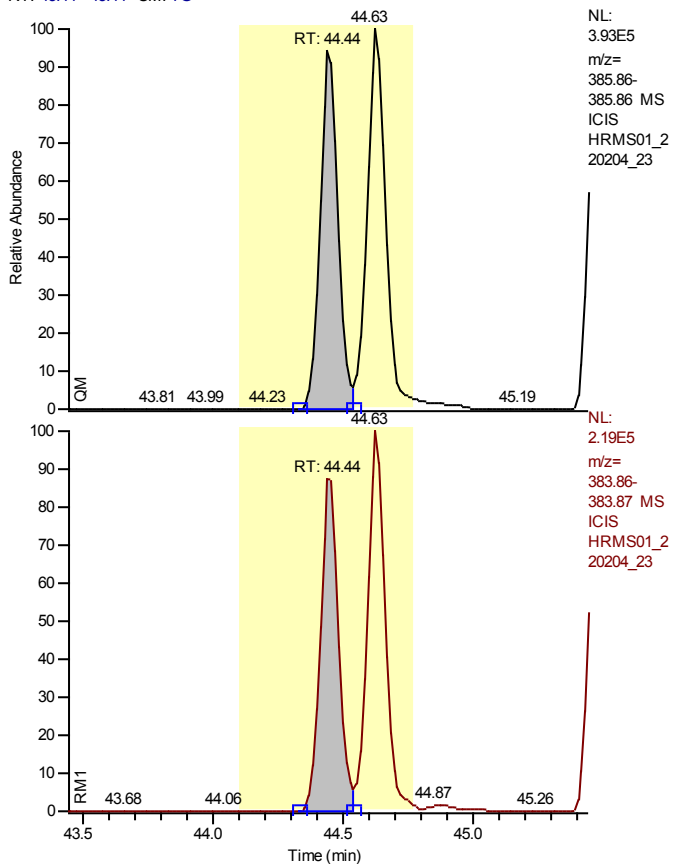
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G

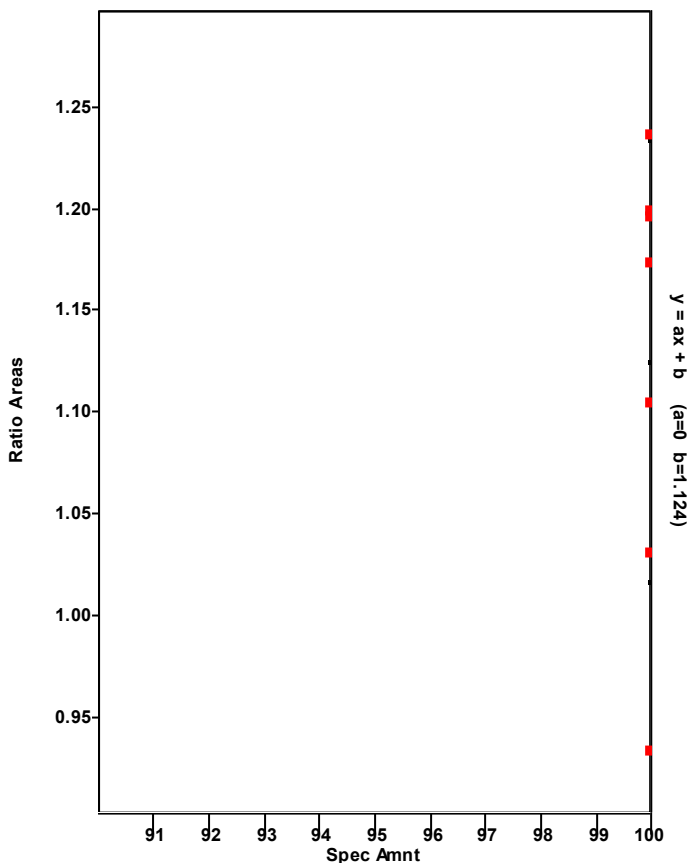


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1764952
RM1 Area	928058
RM1 Ratio (A)	0.5258
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

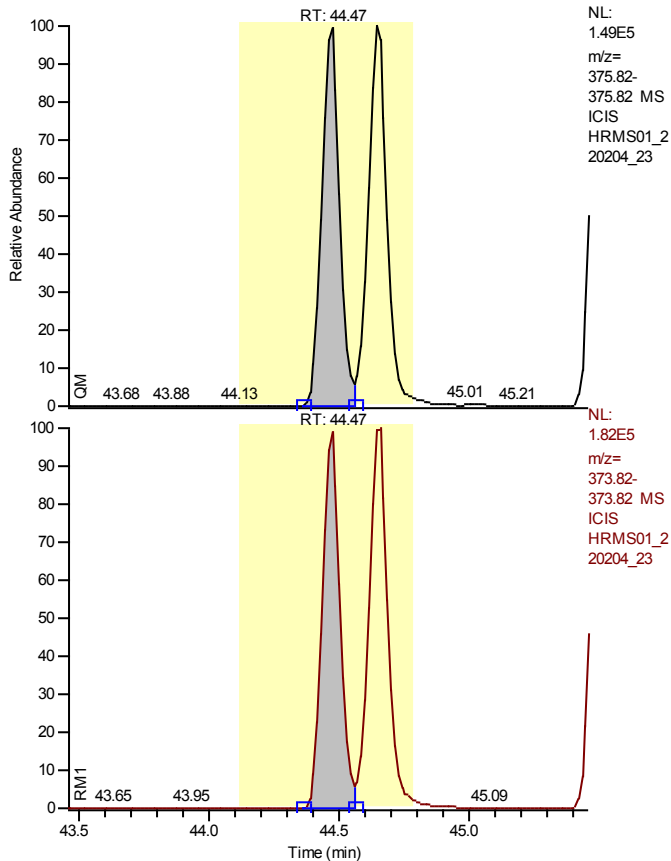
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

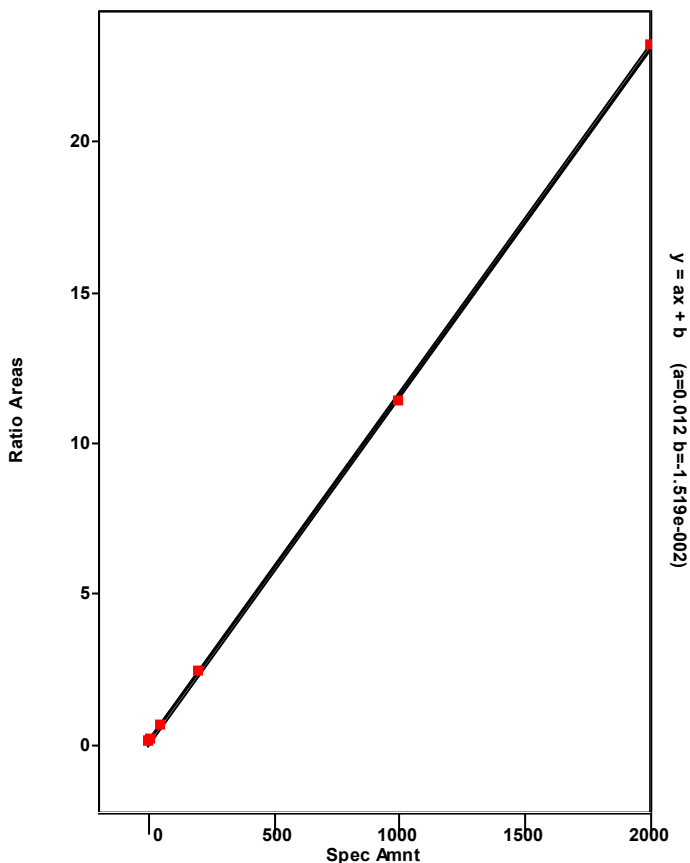


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	704322
RM1 Area	854289
RM1 Ratio (A)	1.2129
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

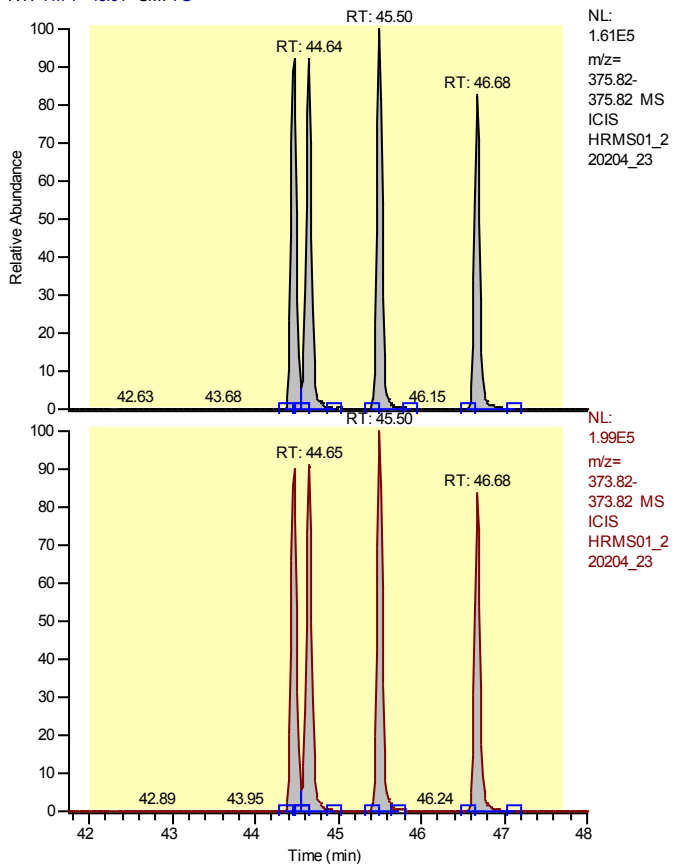
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.74 - 48.01 SM: 7G

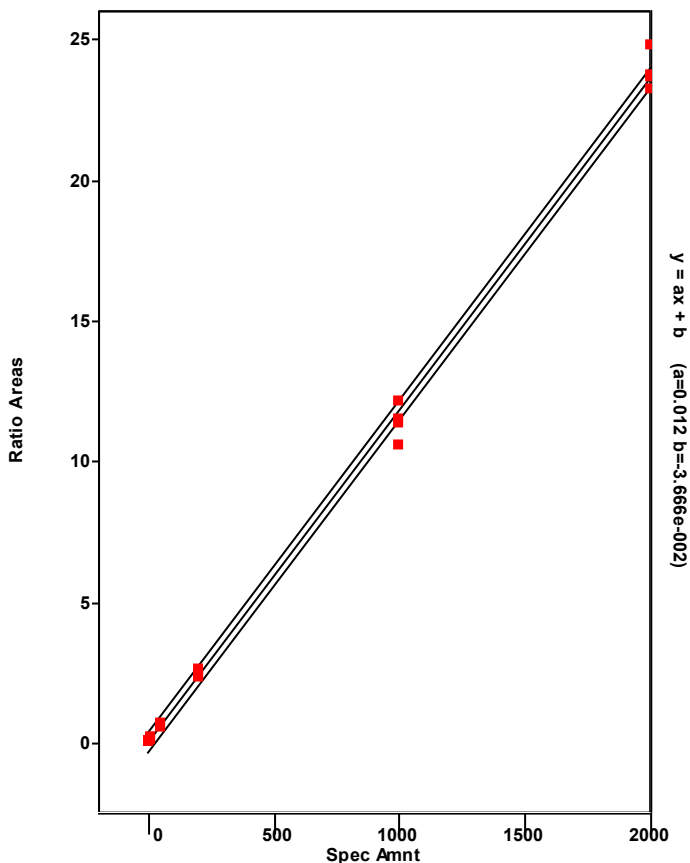


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	2850047
RM1 Area	3506919
RM1 Ratio (A)	1.2305
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	200.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

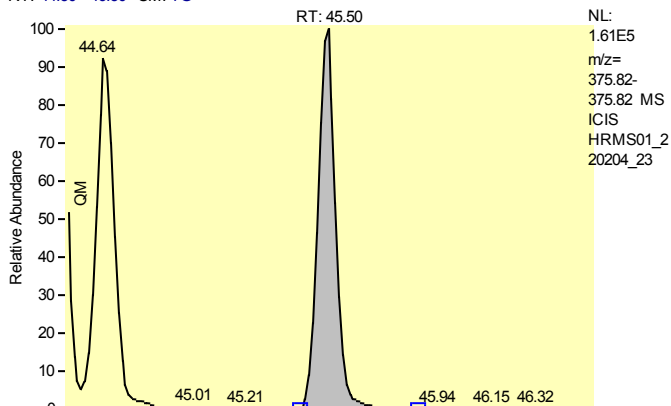
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

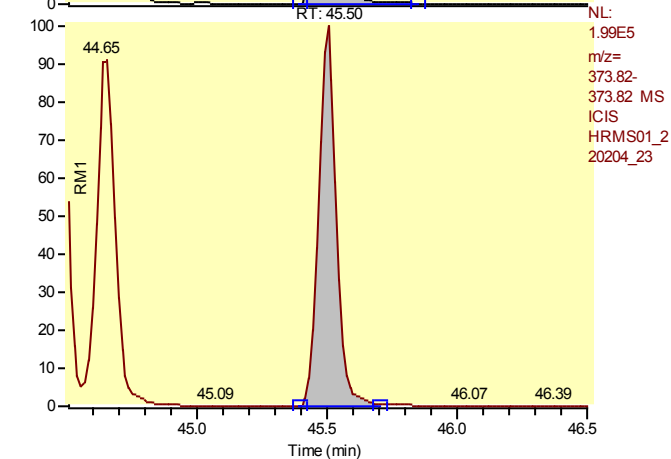
Entry Parameters

RT: 44.50 - 46.50 SM: 7G



NL:
 1.61E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	757207
RM1 Area	932398
RM1 Ratio (A)	1.2314
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

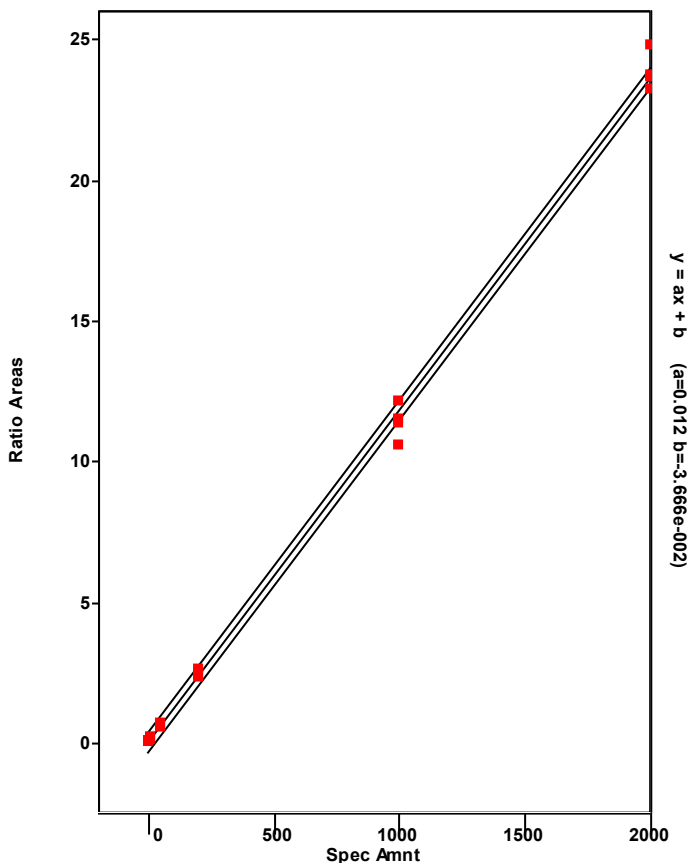


NL:
 1.99E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

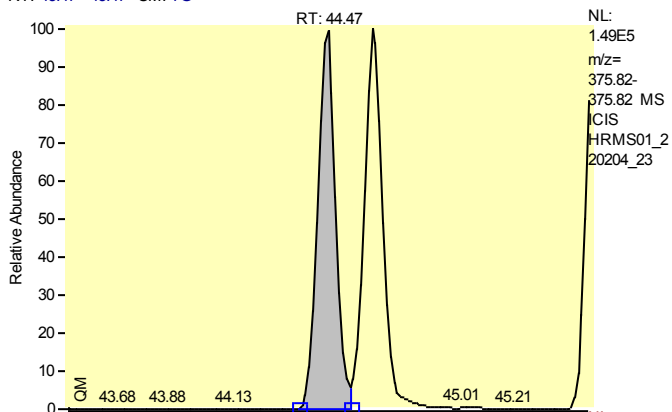
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



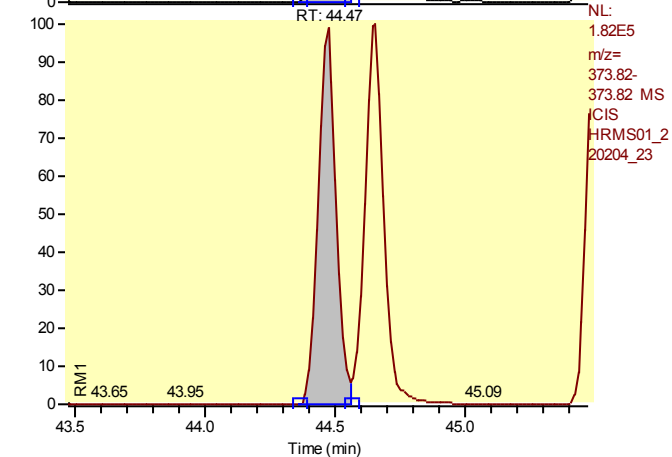
Chromatogram

Entry Parameters

RT: 43.47 - 45.47 SM: 7G



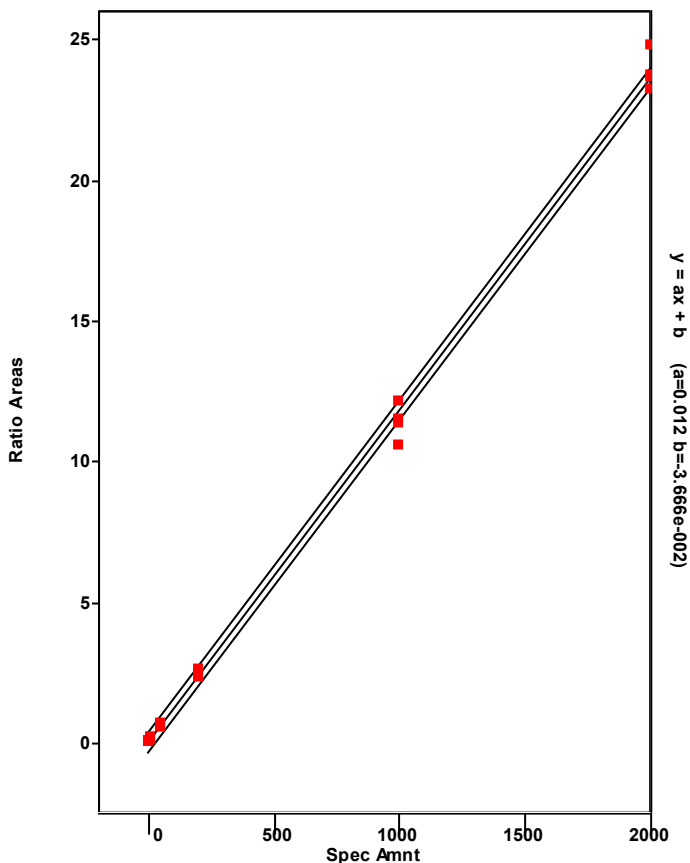
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	704322
RM1 Area	854289
RM1 Ratio (A)	1.2129
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

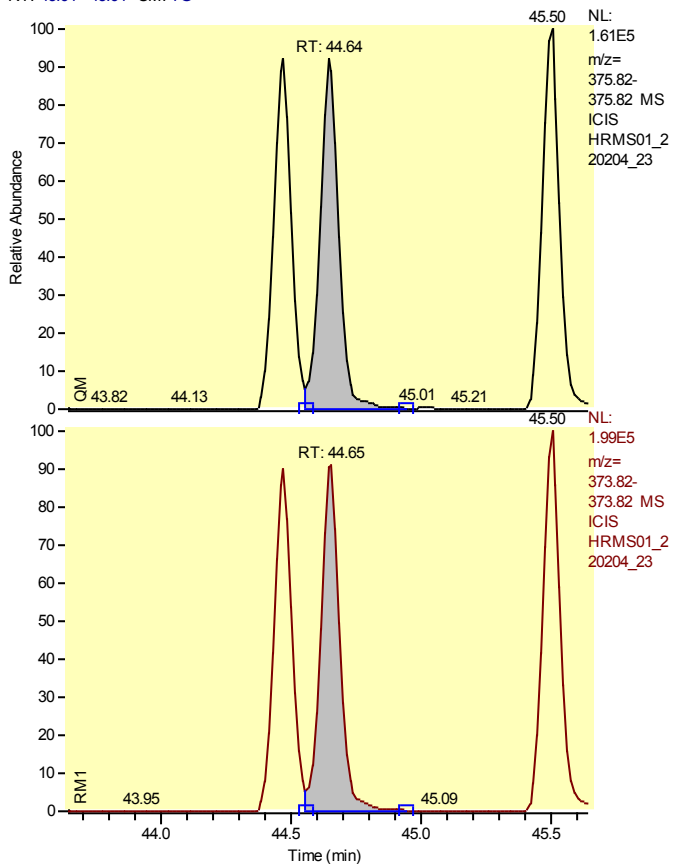
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.64 - 45.64 SM: 7G

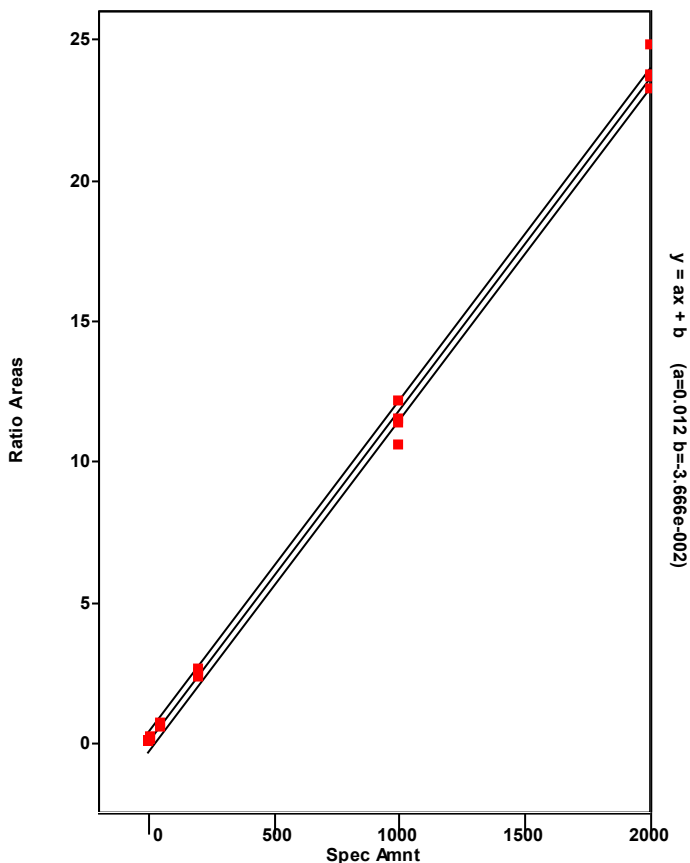


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	741858
RM1 Area	914552
RM1 Ratio (A)	1.2328
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

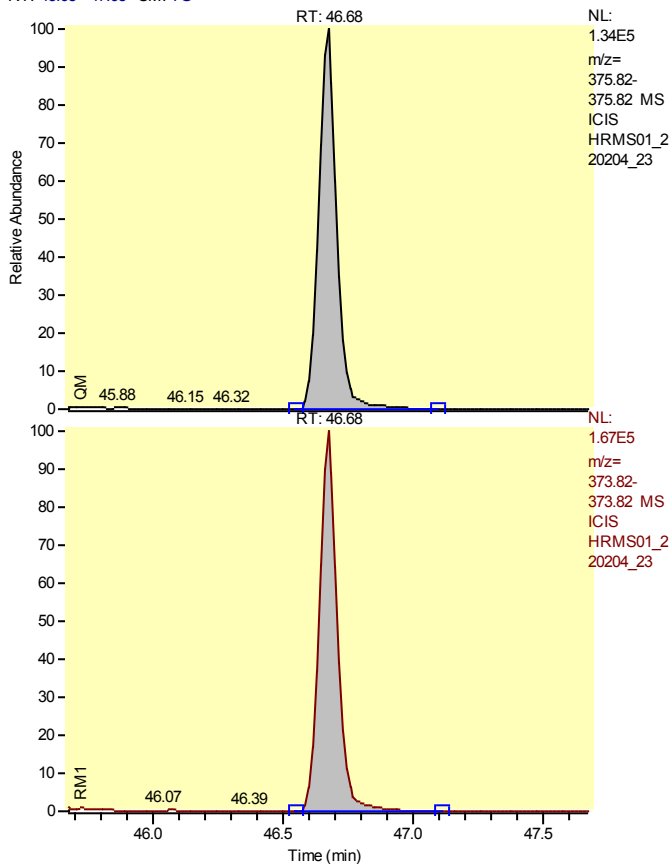
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G

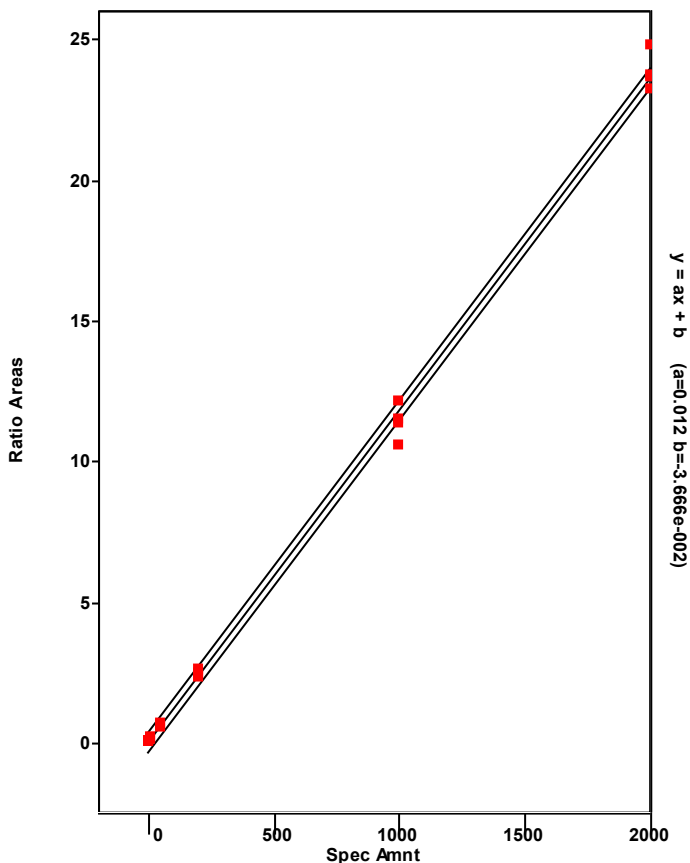


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	646659
RM1 Area	805680
RM1 Ratio (A)	1.2459
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

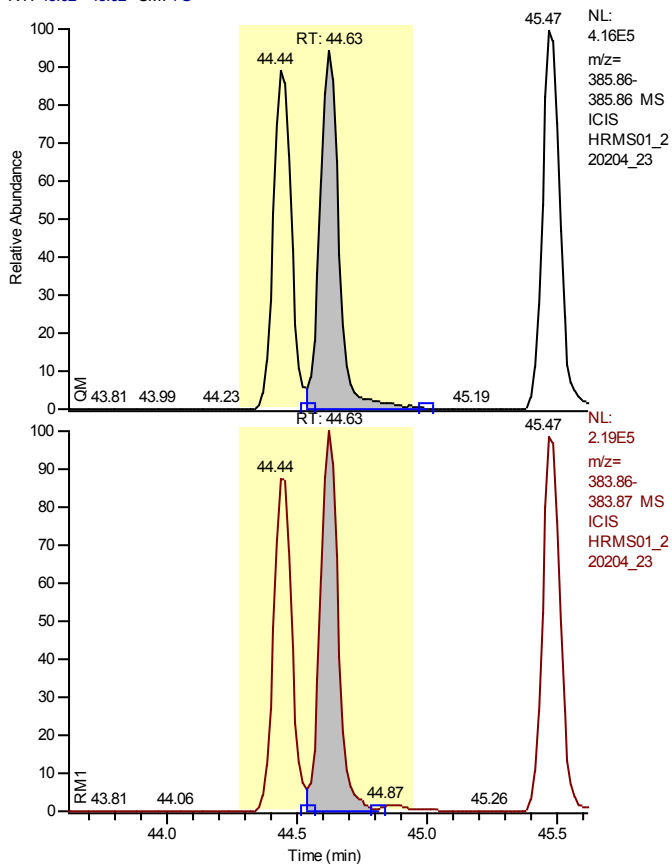
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

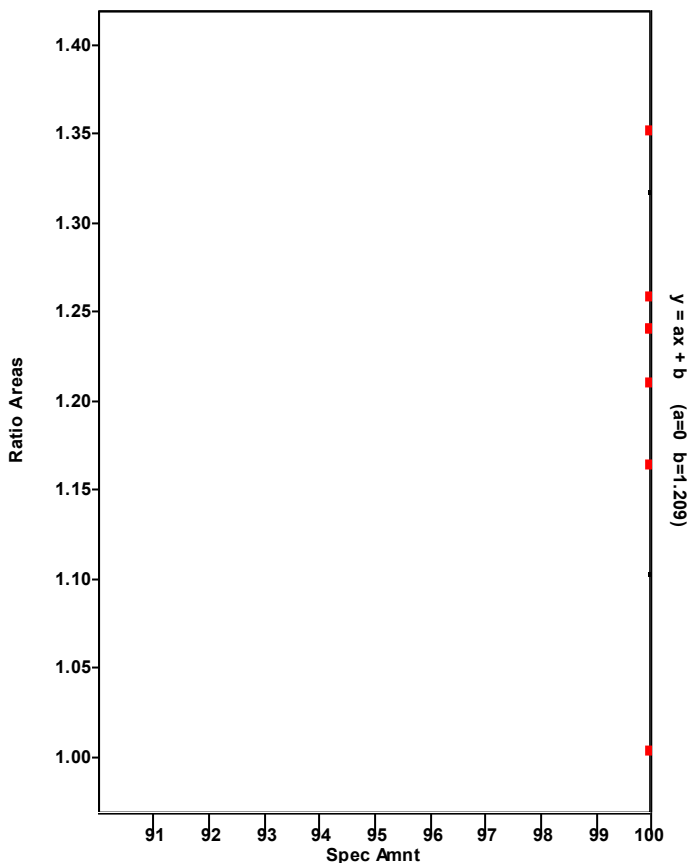


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1989191
RM1 Area	1049035
RM1 Ratio (A)	0.5274
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

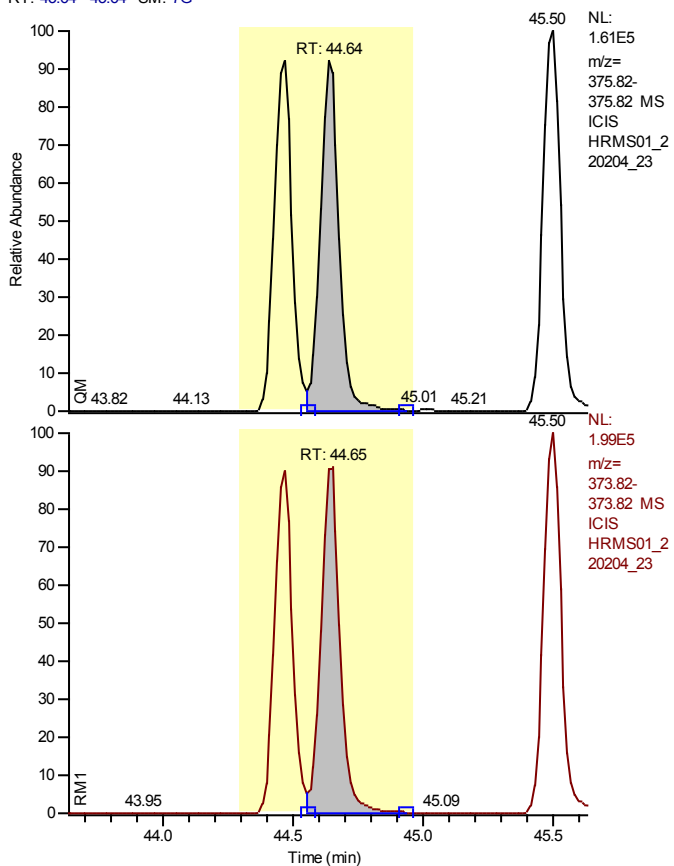
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.64 - 45.64 SM: 7G

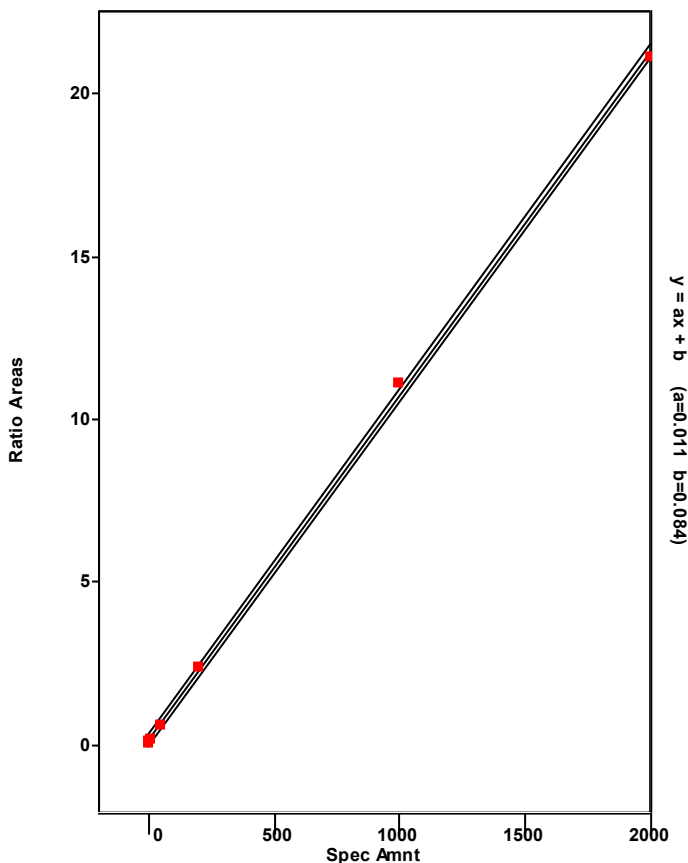


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	741858
RM1 Area	914552
RM1 Ratio (A)	1.2328
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

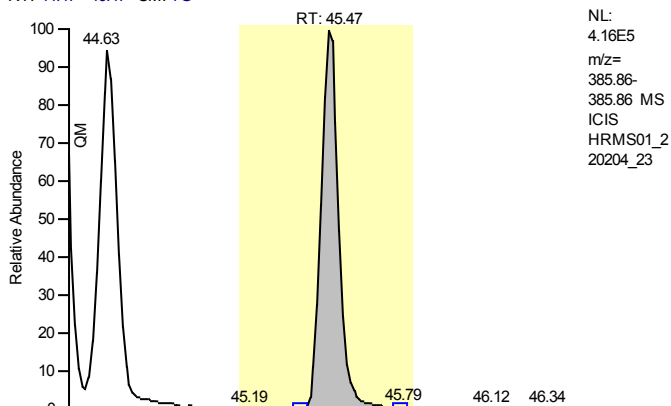
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

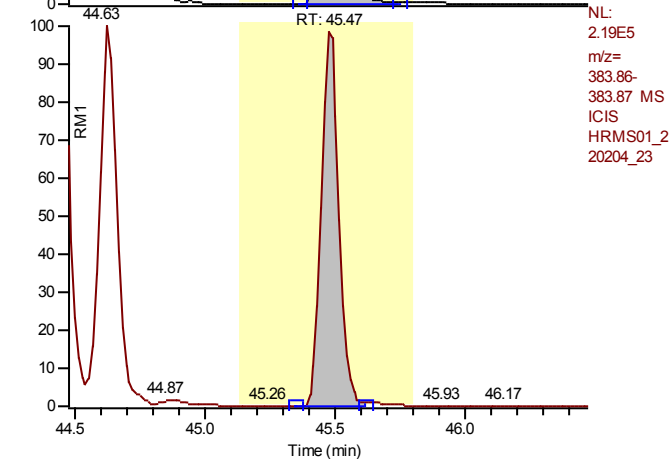
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
 4.16E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1977300
RM1 Area	1018090
RM1 Ratio (A)	0.5149
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

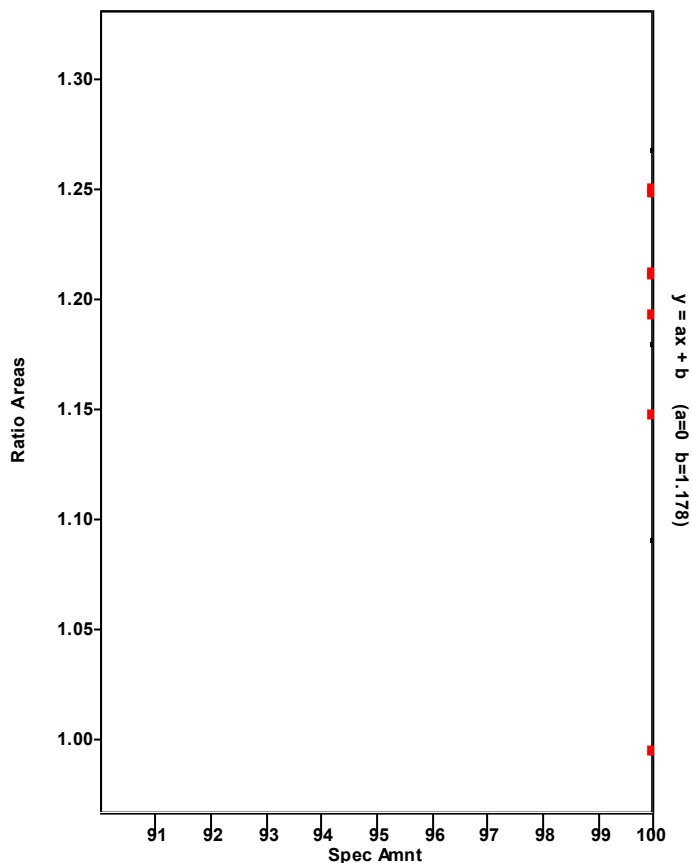


NL:
 2.19E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

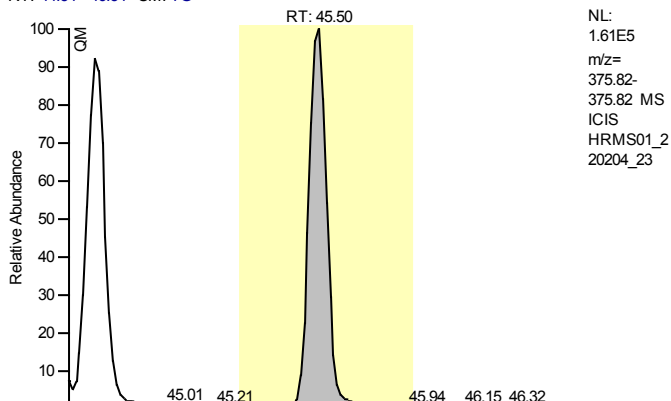
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

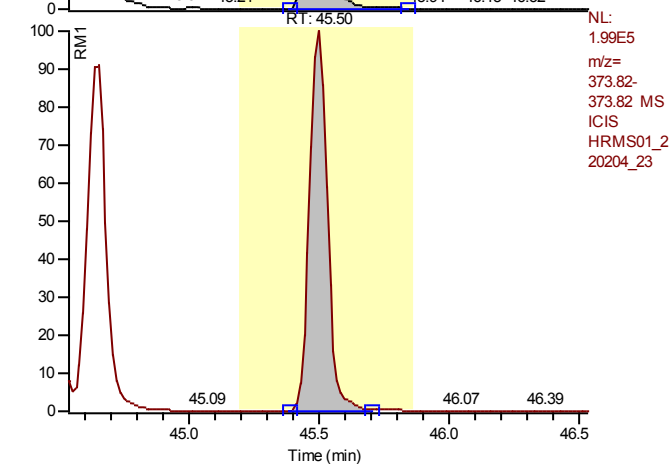
Entry Parameters

RT: 44.54 - 46.54 SM: 7G



NL:
 1.61E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	757207
RM1 Area	932398
RM1 Ratio (A)	1.2314
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

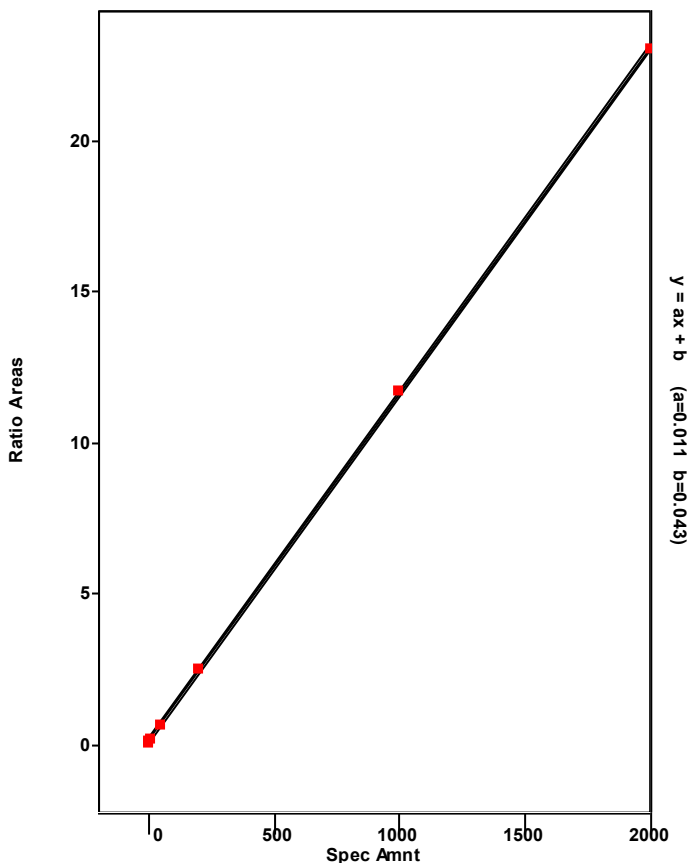


NL:
 1.99E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

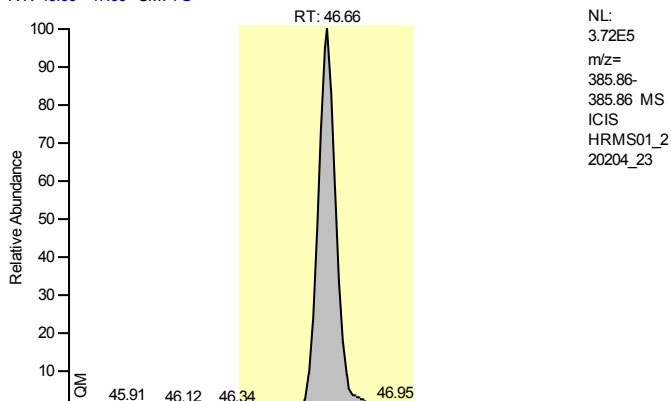
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



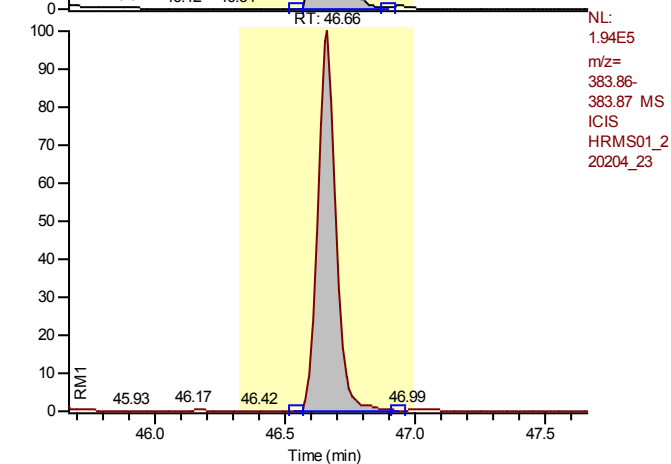
Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



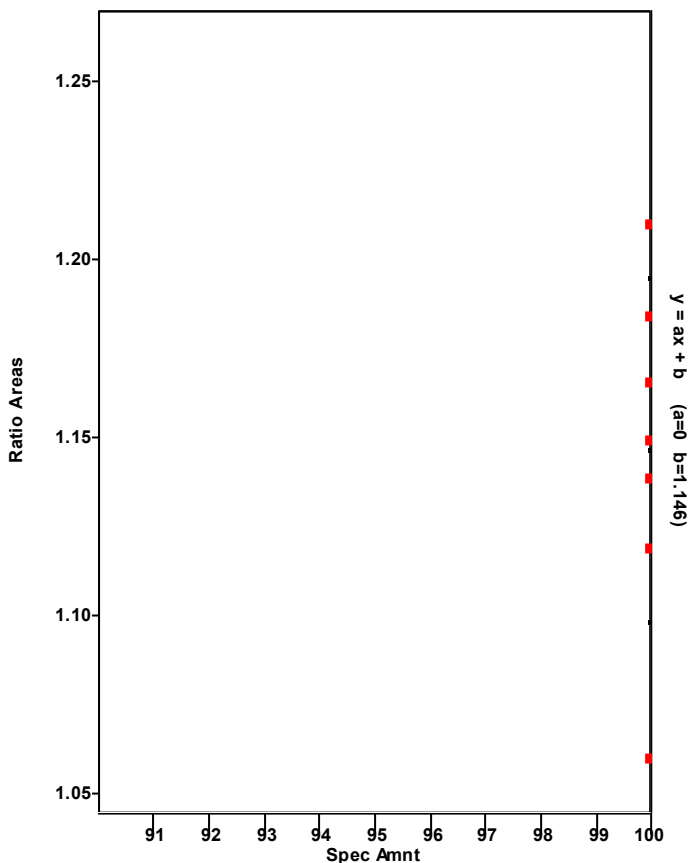
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1822249
RM1 Area	946825
RM1 Ratio (A)	0.5196
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

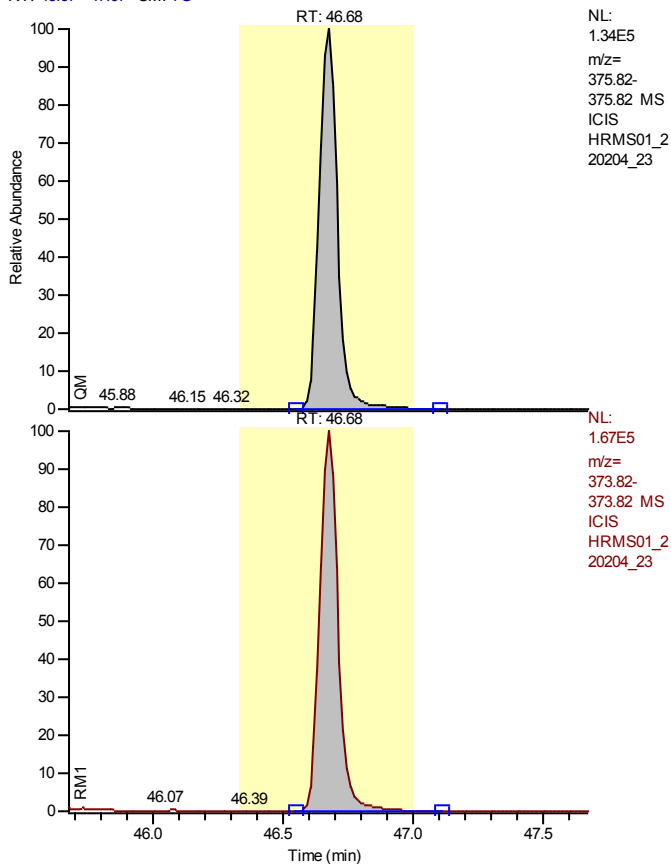
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

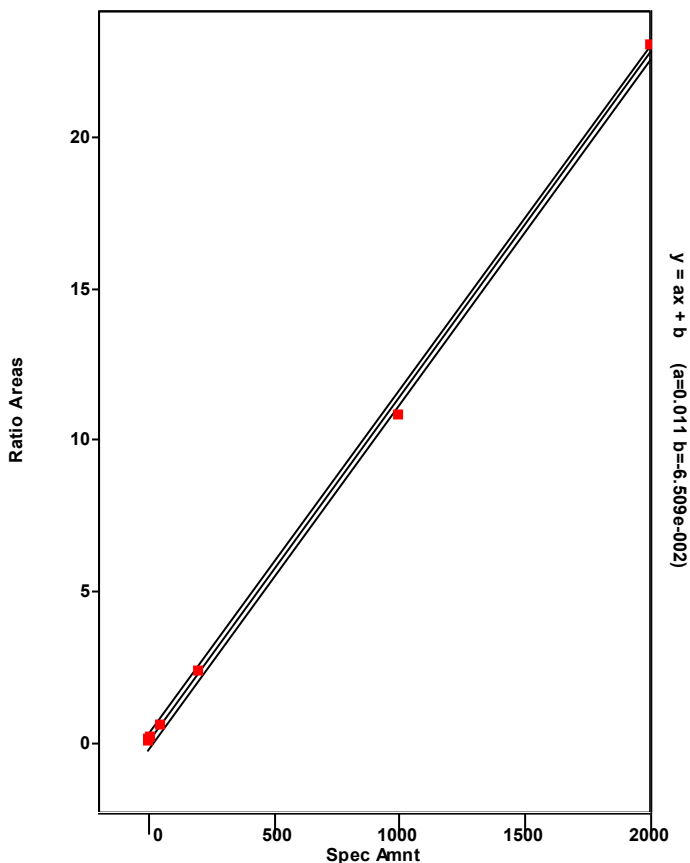


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	646659
RM1 Area	805680
RM1 Ratio (A)	1.2459
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

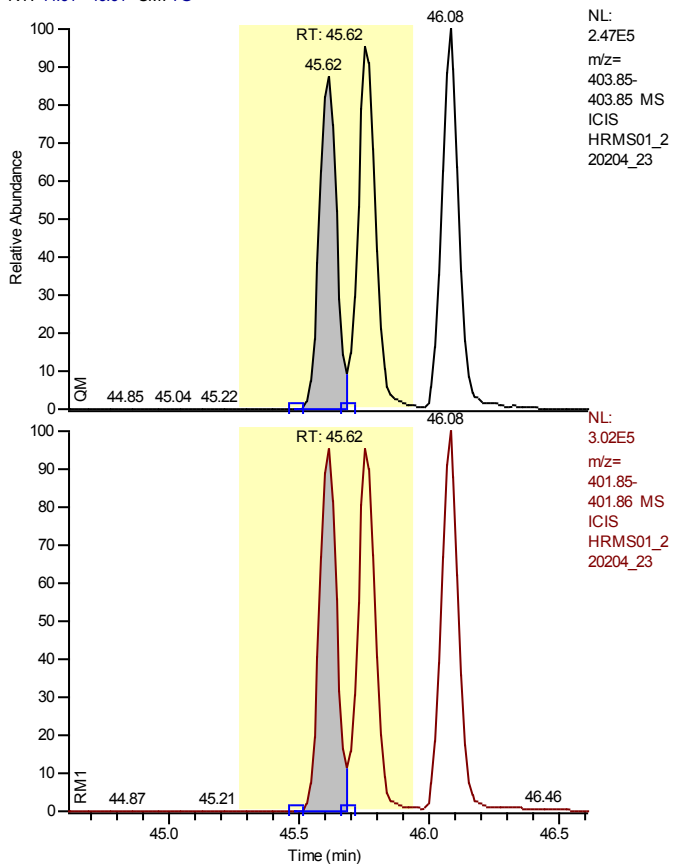
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G



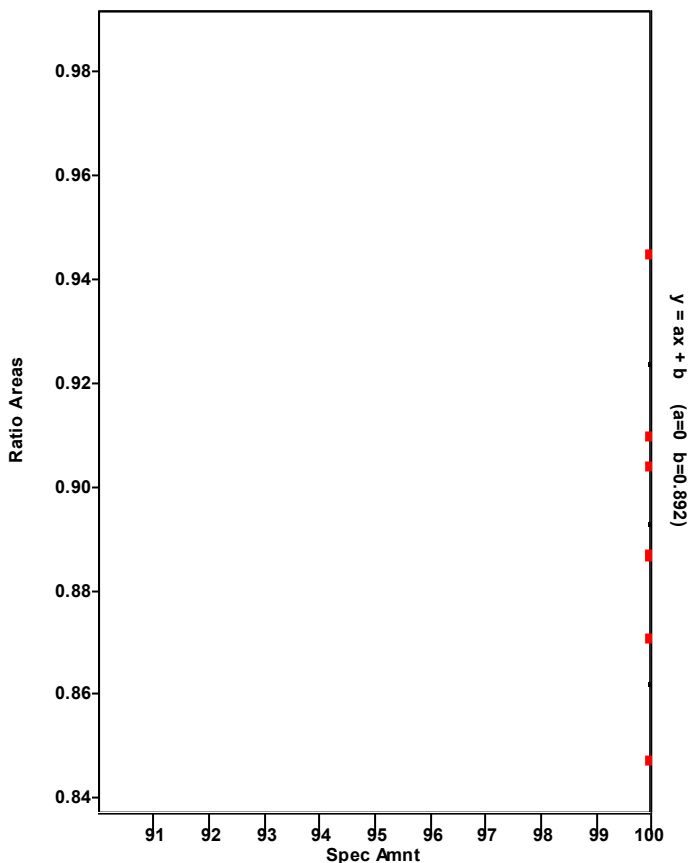
NL:
 2.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_23

NL:
 3.02E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	999887
RM1 Area	1316852
RM1 Ratio (A)	1.3170
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

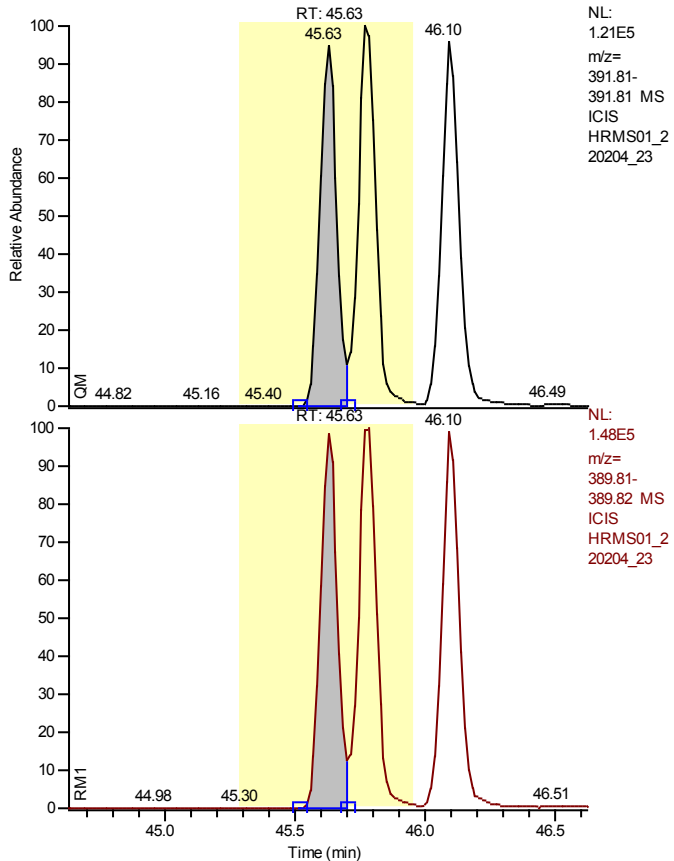
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G



NL:
 1.21E5
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_23

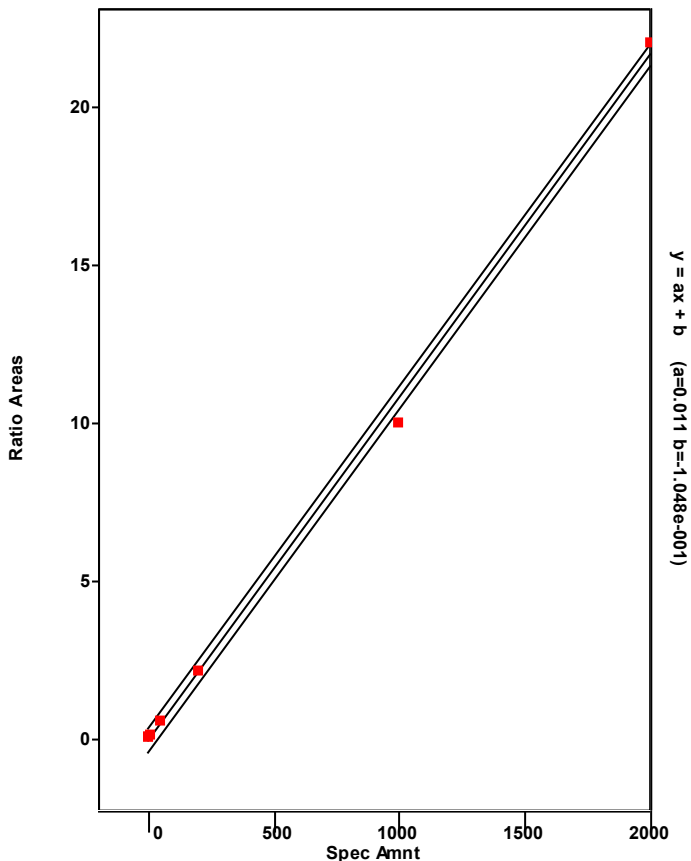
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	513178
RM1 Area	652644
RM1 Ratio (A)	1.2718
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

NL:
 1.48E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

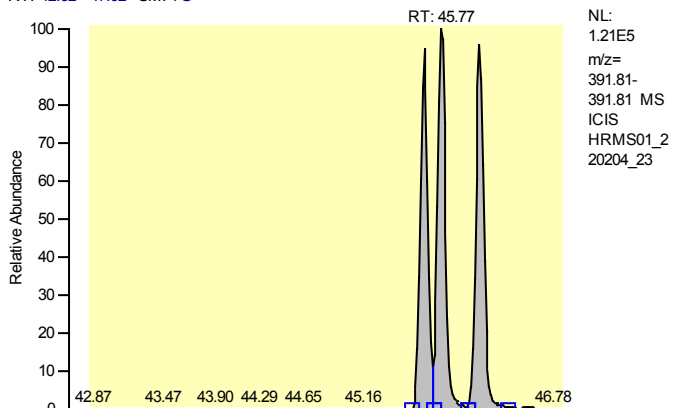
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



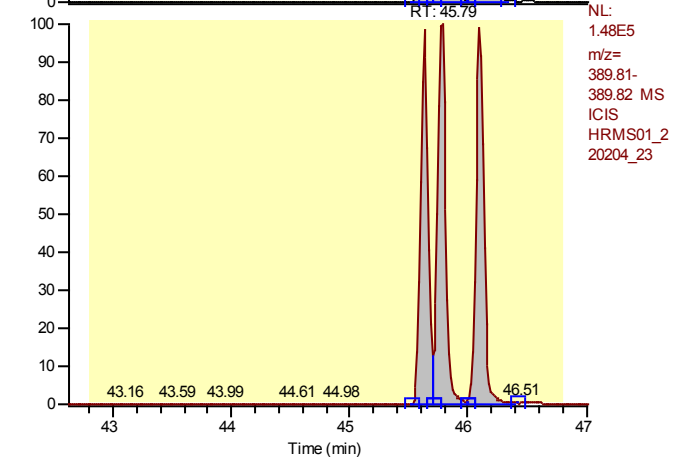
Chromatogram

Entry Parameters

RT: 42.62 - 47.02 SM: 7G



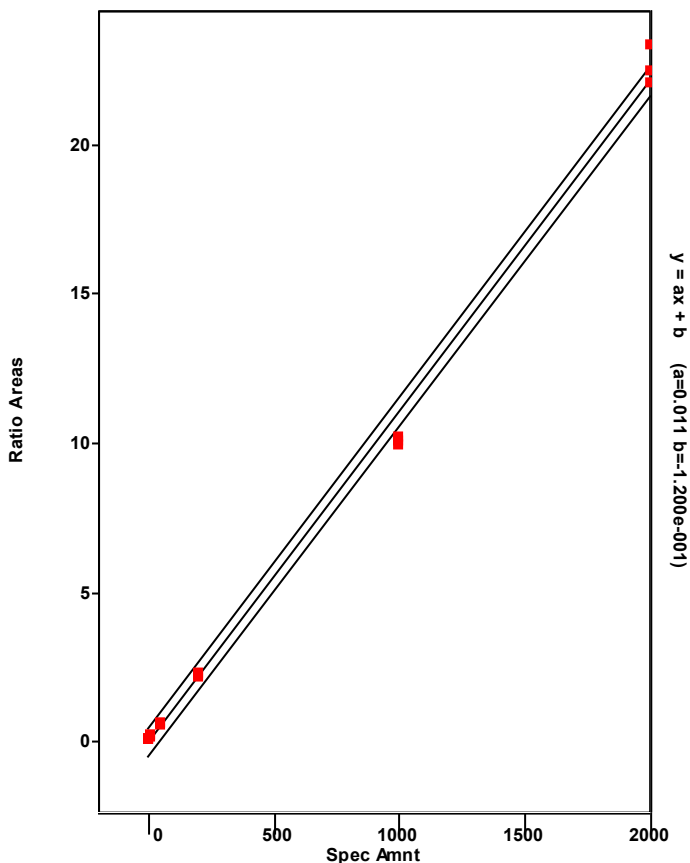
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	1640238
RM1 Area	2048407
RM1 Ratio (A)	1.2488
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	150.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

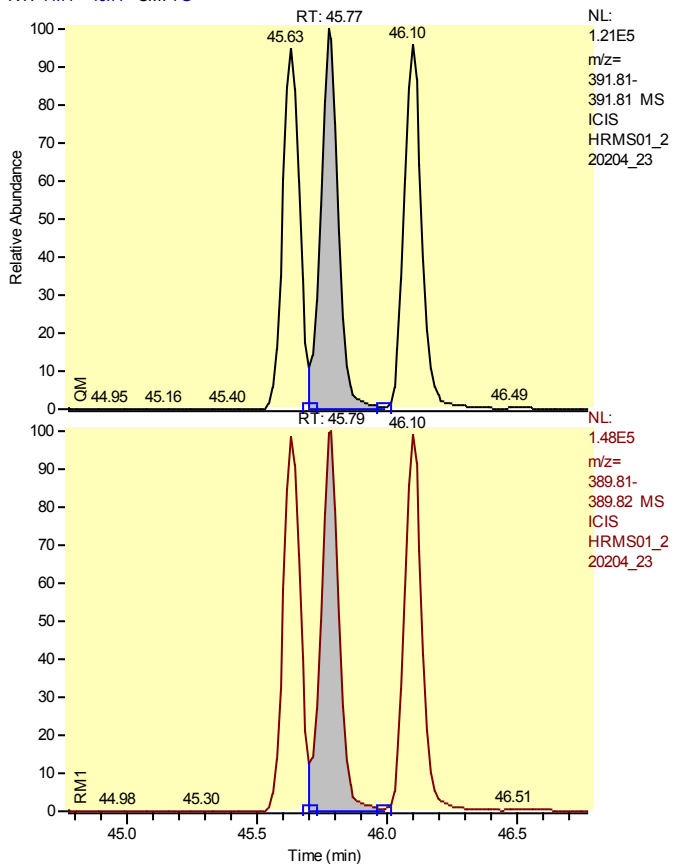
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.77 - 46.77 SM: 7G

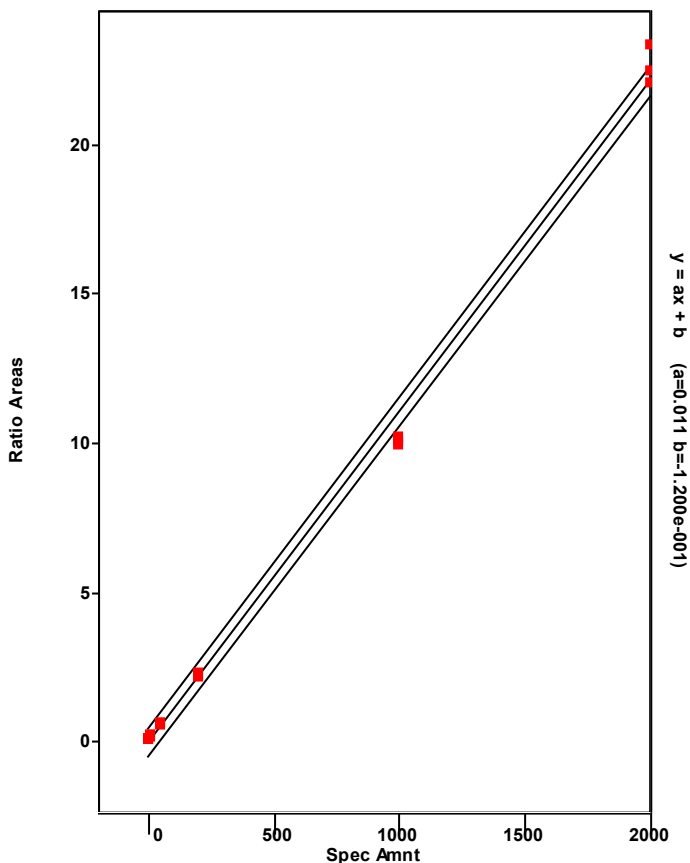


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	571610
RM1 Area	710222
RM1 Ratio (A)	1.2425
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

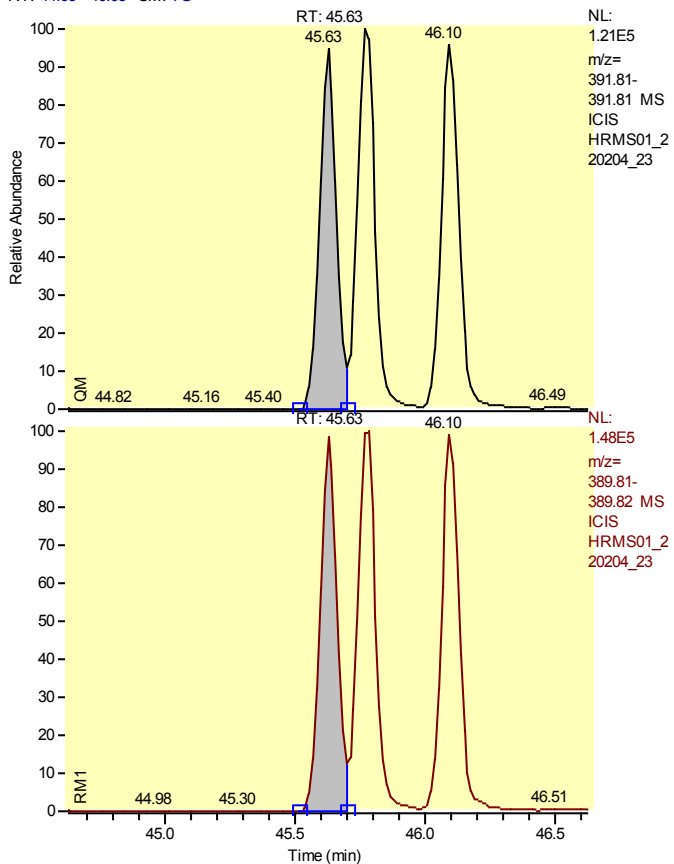
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G

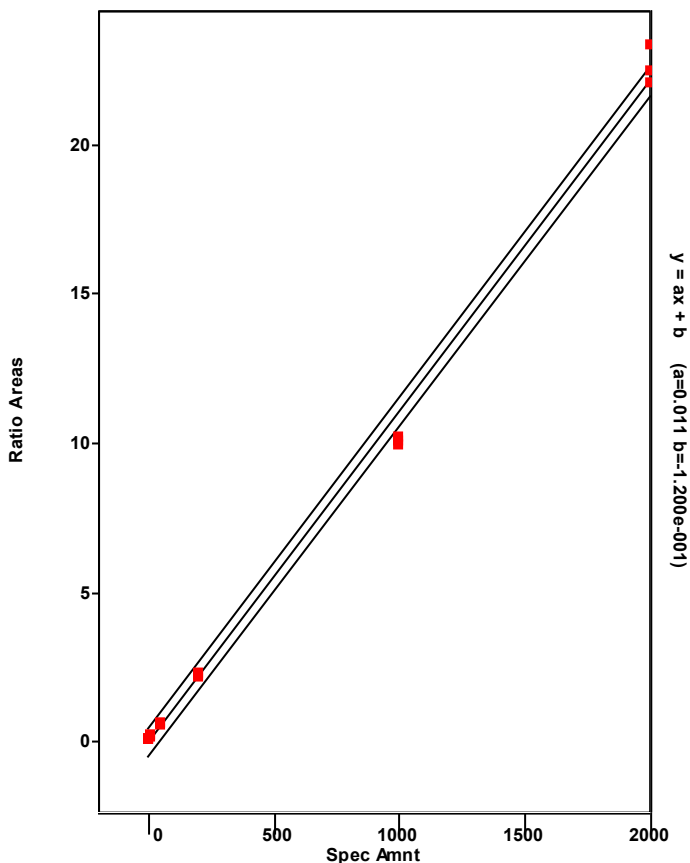


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	513178
RM1 Area	652644
RM1 Ratio (A)	1.2718
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

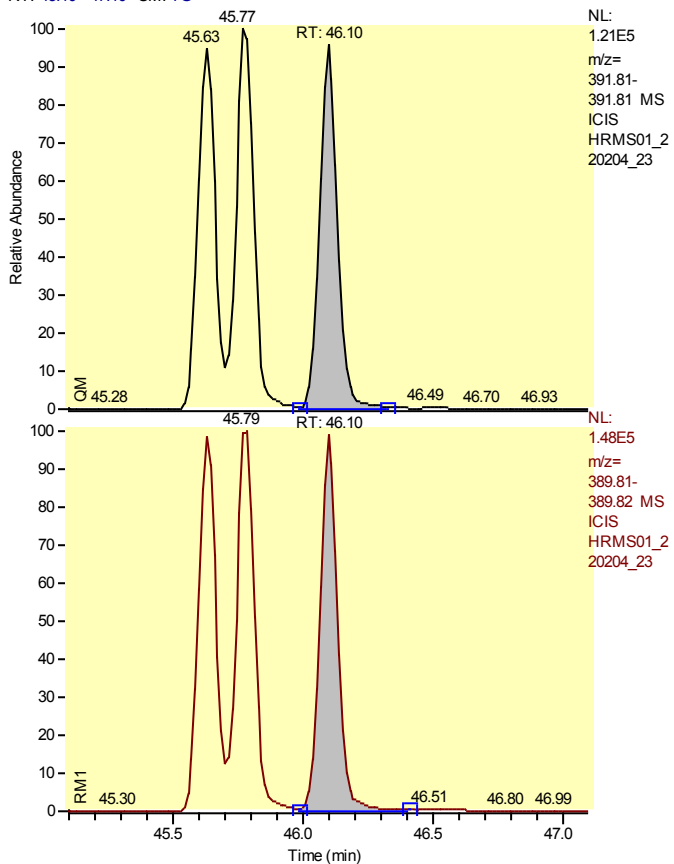
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.10 - 47.10 SM: 7G

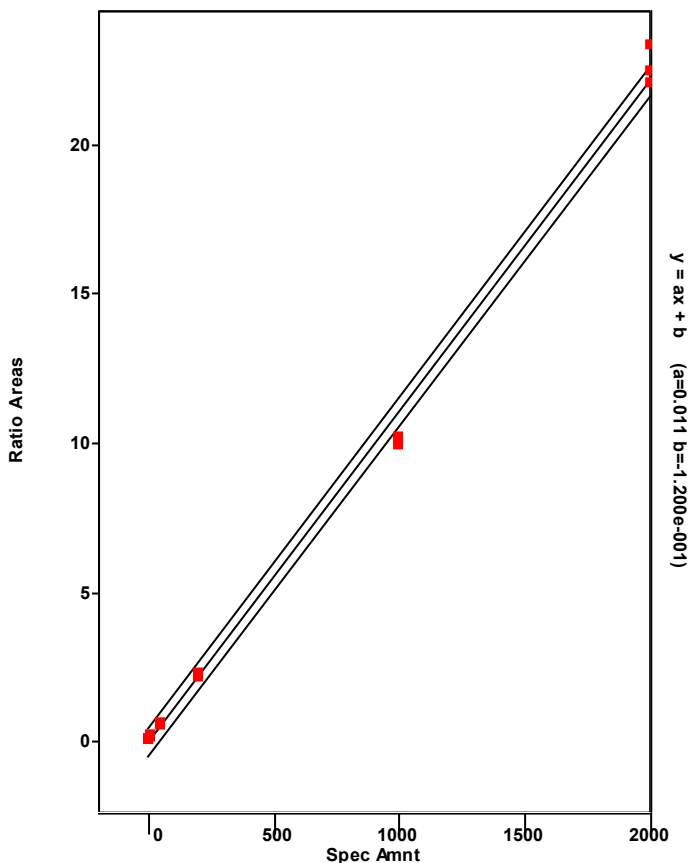


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	555449
RM1 Area	685541
RM1 Ratio (A)	1.2342
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

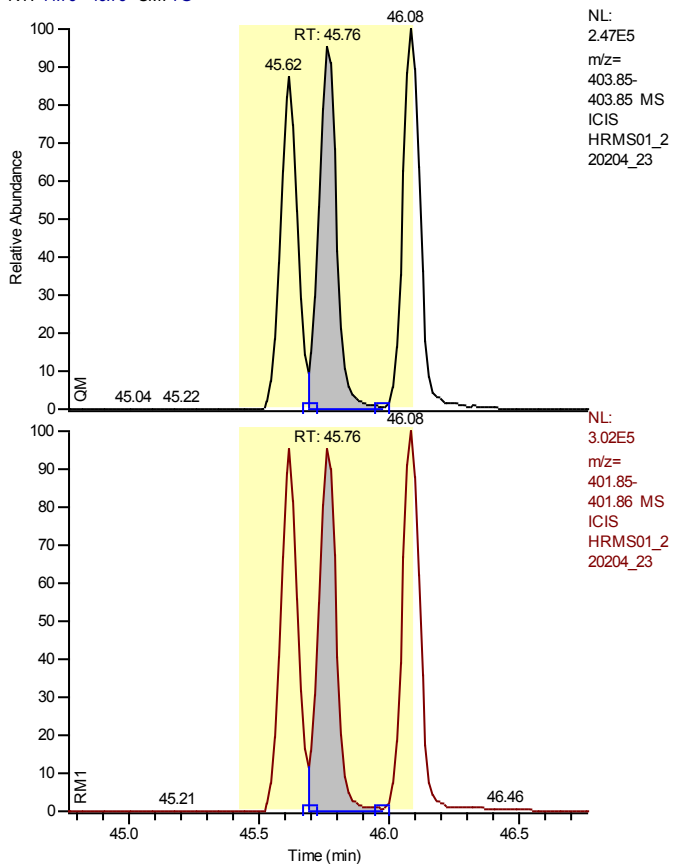
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G



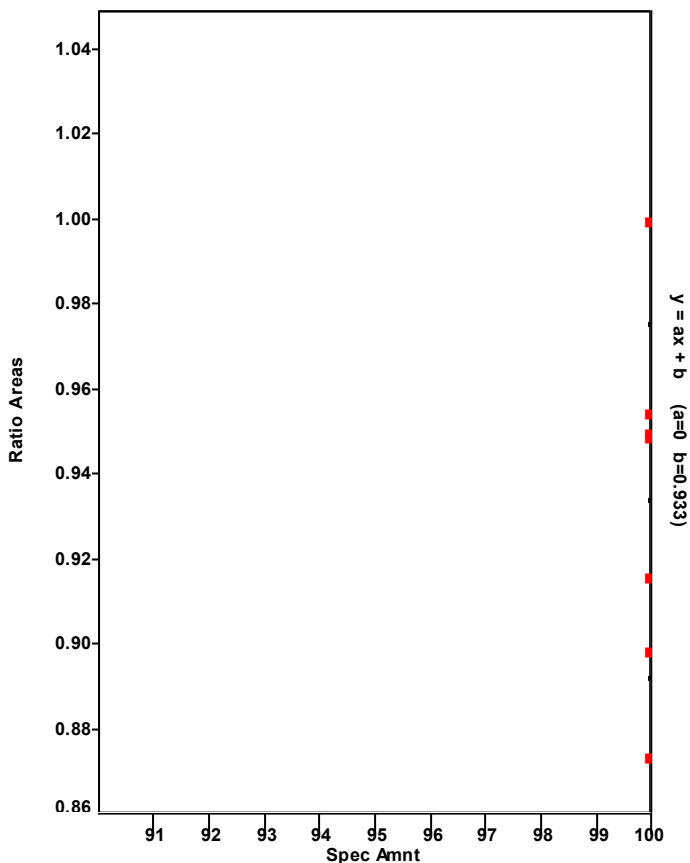
NL:
 2.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_23

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1118631
RM1 Area	1358713
RM1 Ratio (A)	1.2146
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 3.02E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_23

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

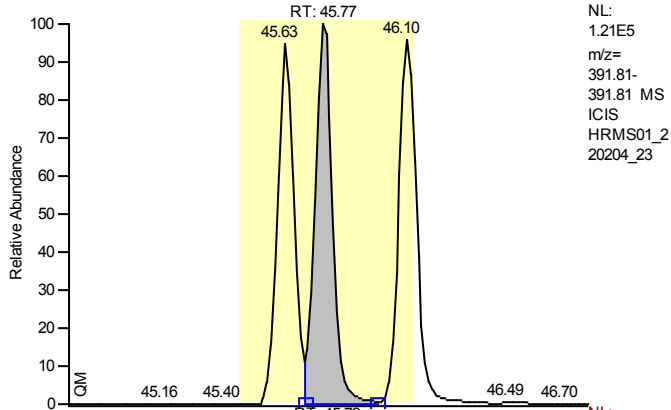
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



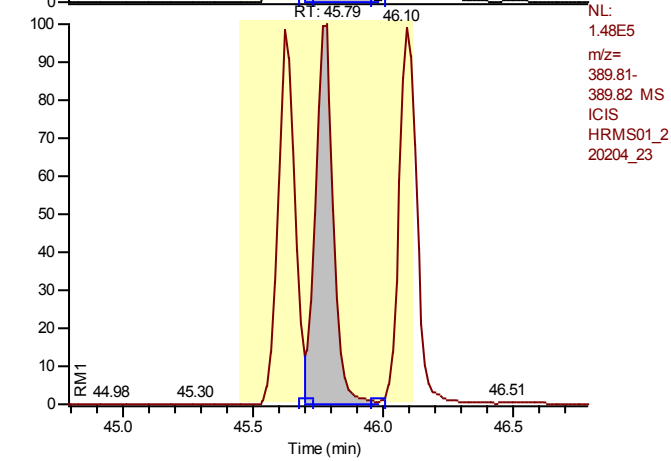
Chromatogram

Entry Parameters

RT: 44.79 - 46.79 SM: 7G



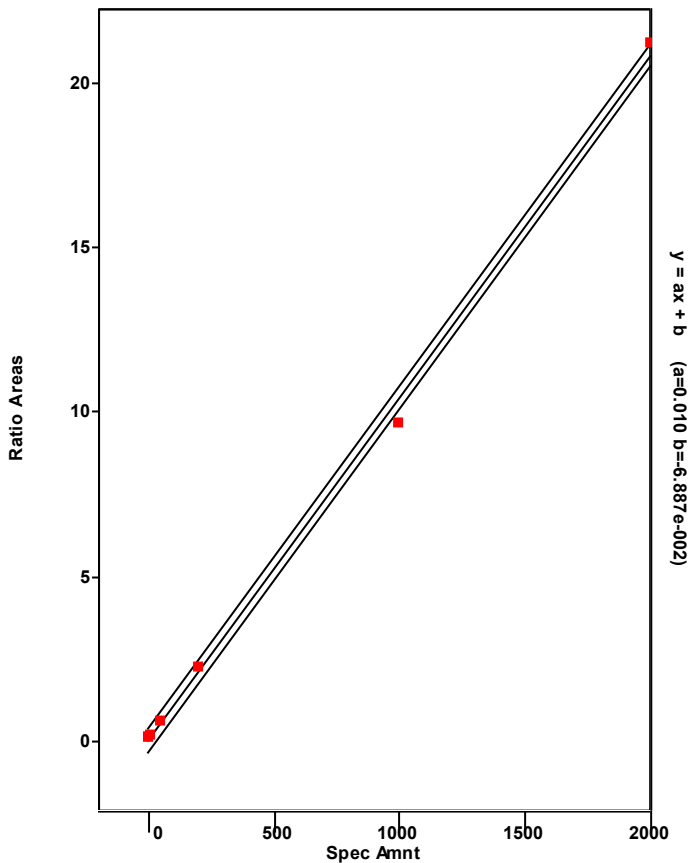
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	571610
RM1 Area	710222
RM1 Ratio (A)	1.2425
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

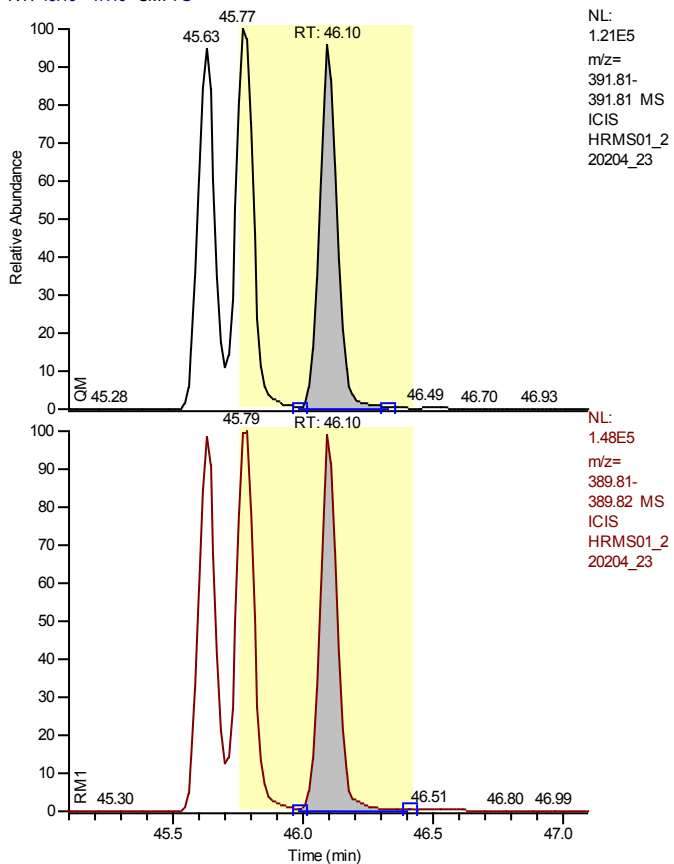
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

RT: 45.10 - 47.10 SM: 7G



NL:
 1.21E5
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_23

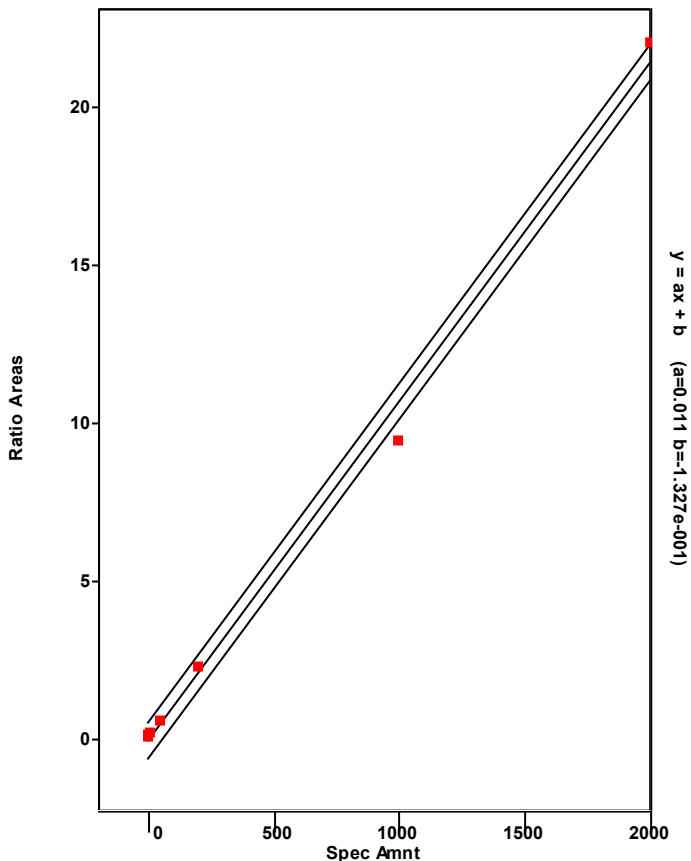
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	555449
RM1 Area	685541
RM1 Ratio (A)	1.2342
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	5.0000
Label2	

NL:
 1.48E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_23

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

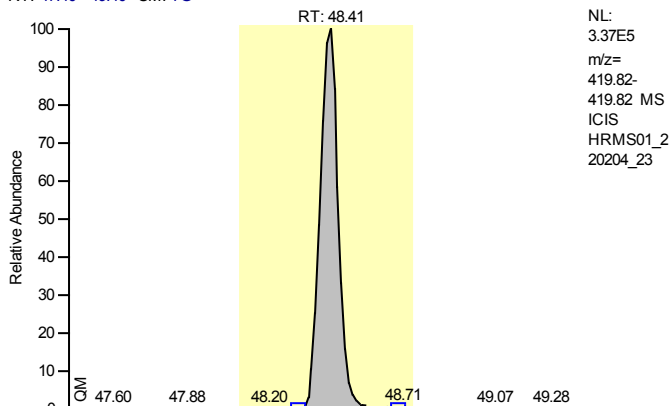
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



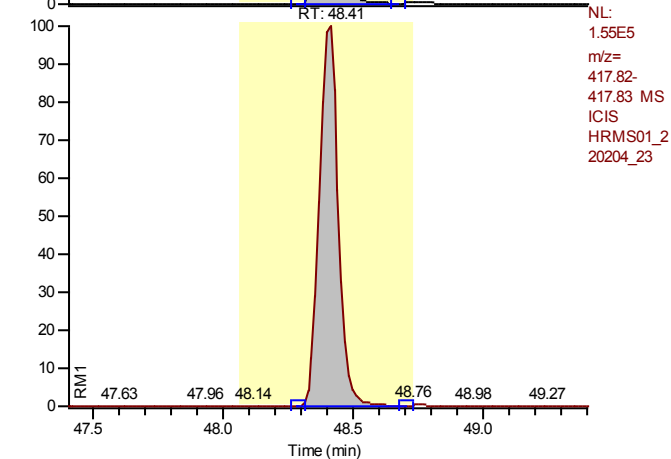
Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

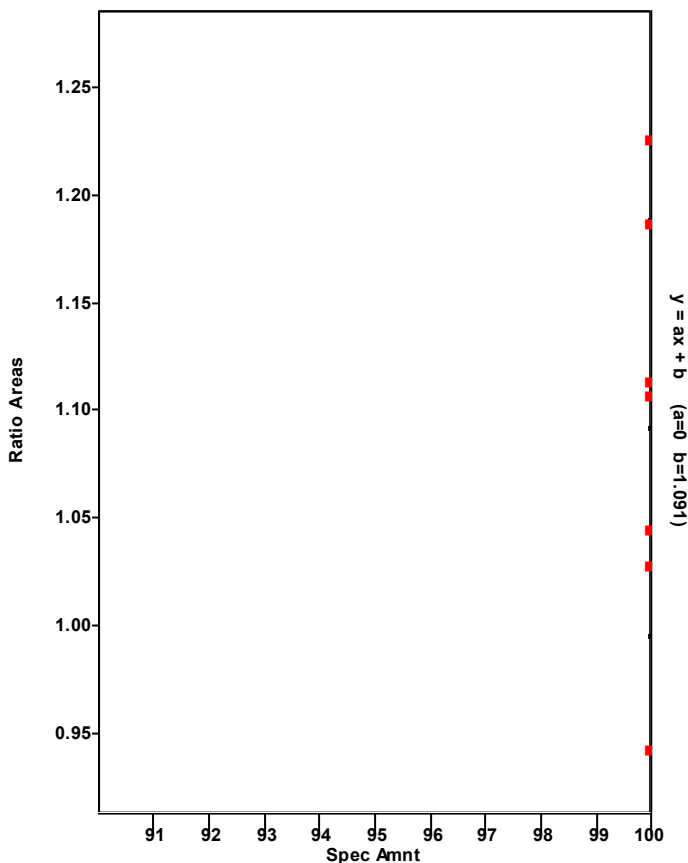


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1664299
RM1 Area	794075
RM1 Ratio (A)	0.4771
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

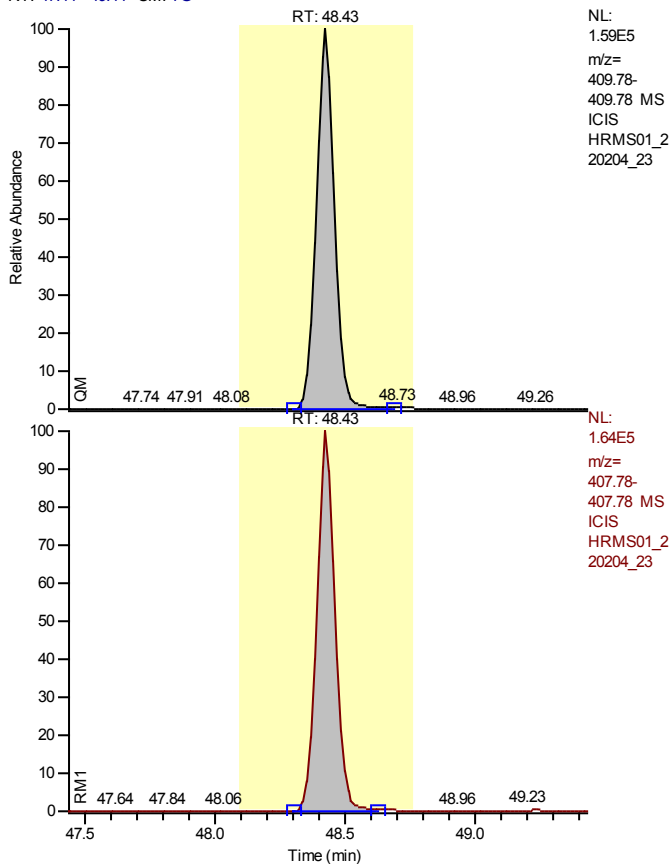
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.44 - 49.44 SM: 7G

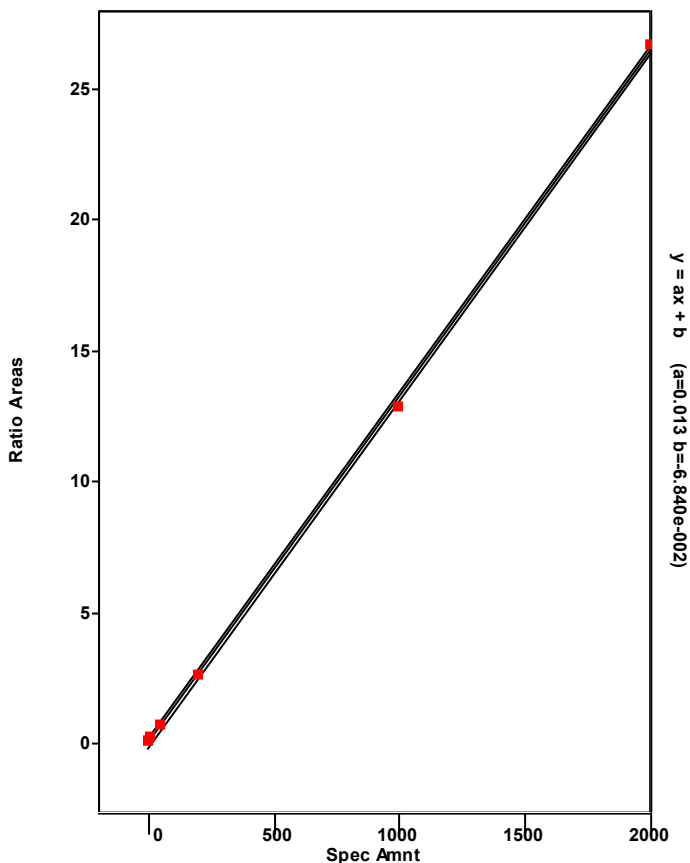


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	777577
RM1 Area	800384
RM1 Ratio (A)	1.0293
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

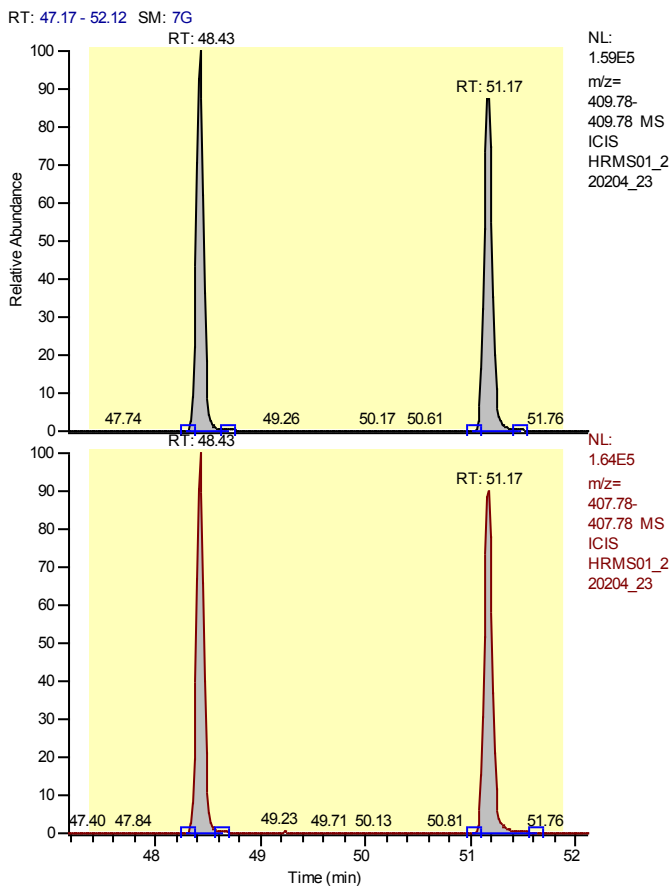
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

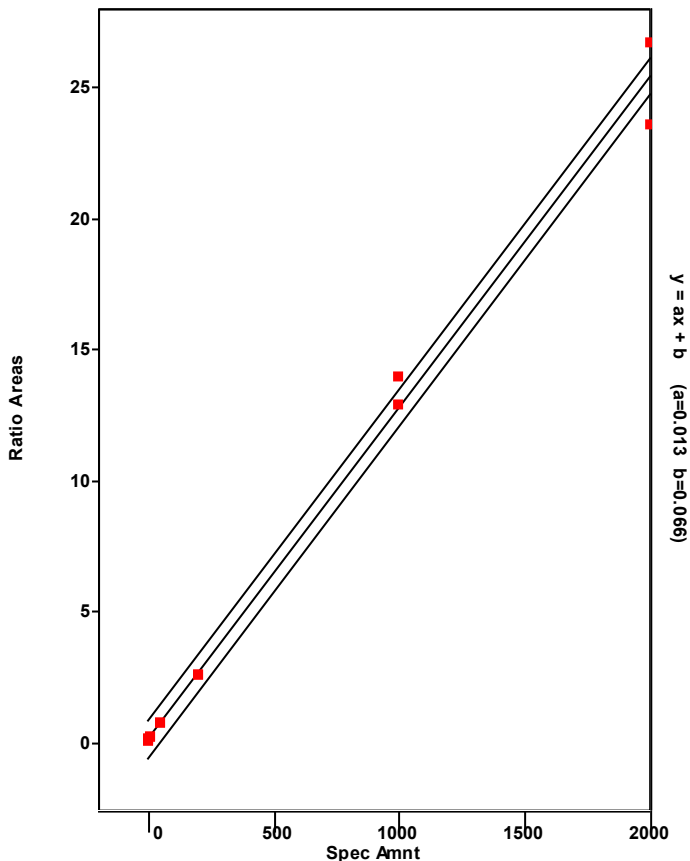


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1565712
RM1 Area	1633165
RM1 Ratio (A)	1.0431
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	100.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

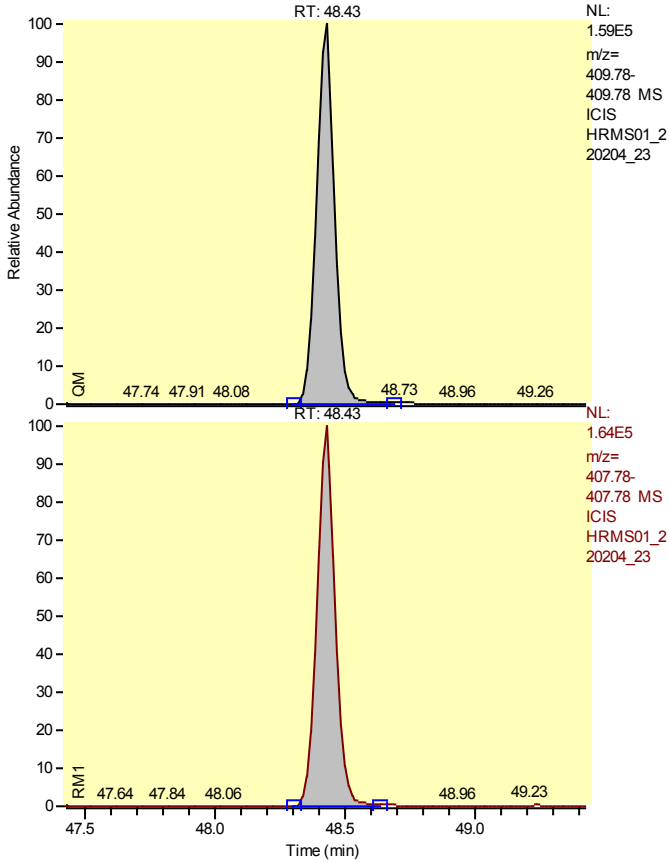
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.43 - 49.43 SM: 7G

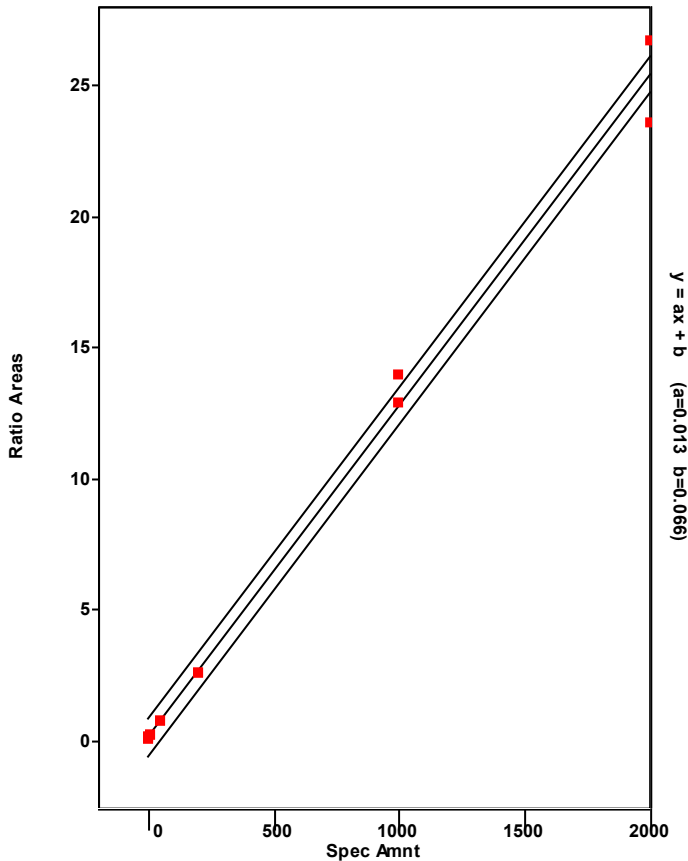


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	777577
RM1 Area	800384
RM1 Ratio (A)	1.0293
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

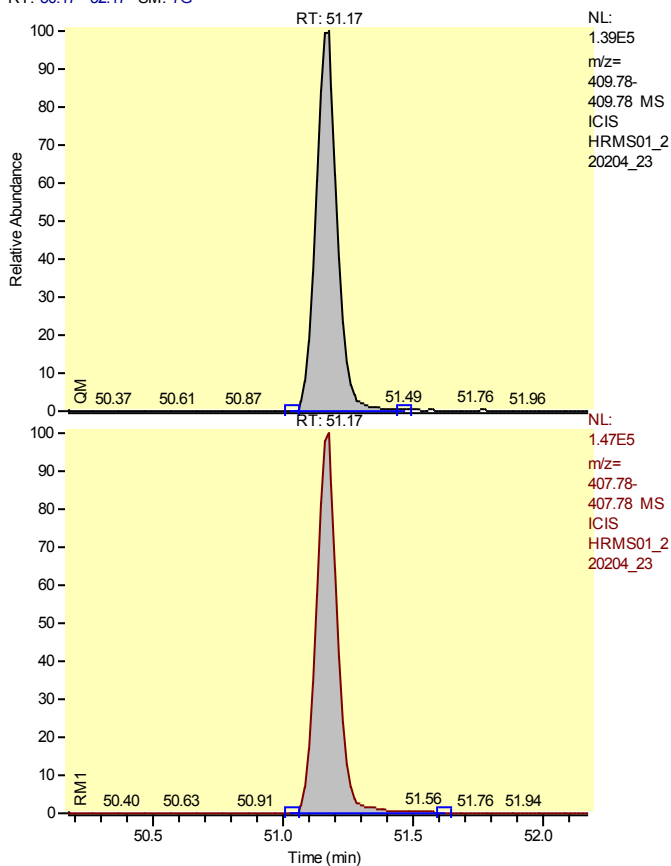
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G

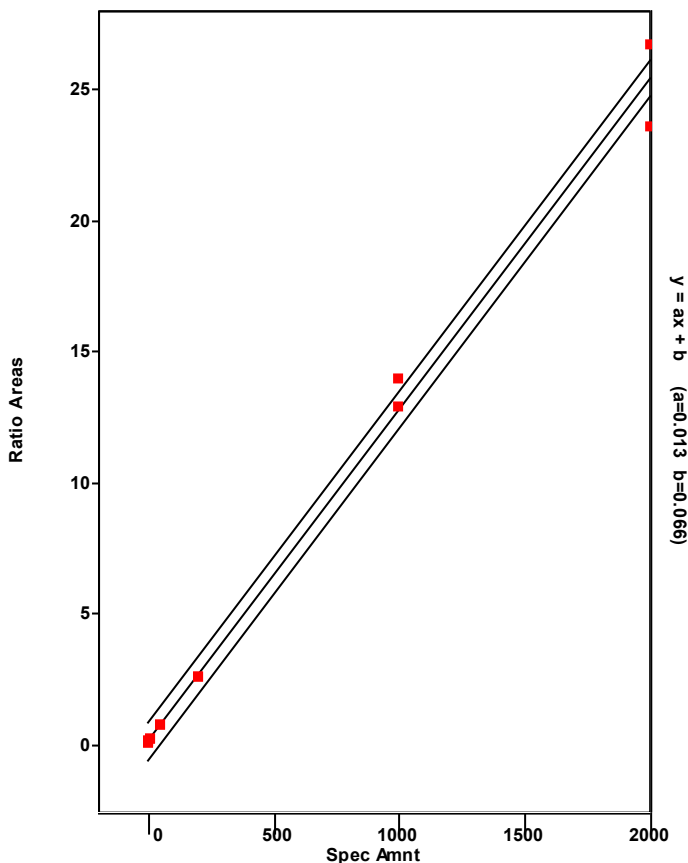


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	788135
RM1 Area	832781
RM1 Ratio (A)	1.0566
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

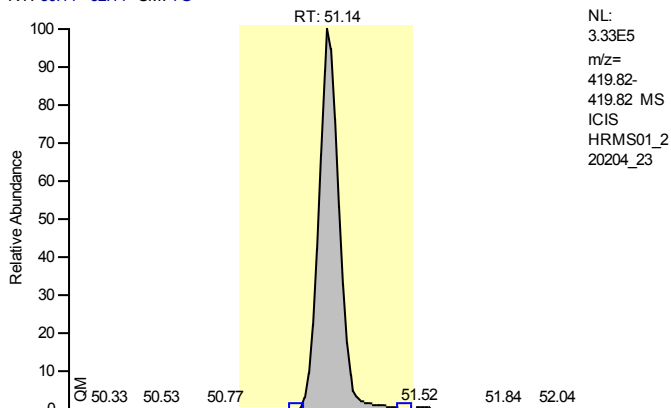
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



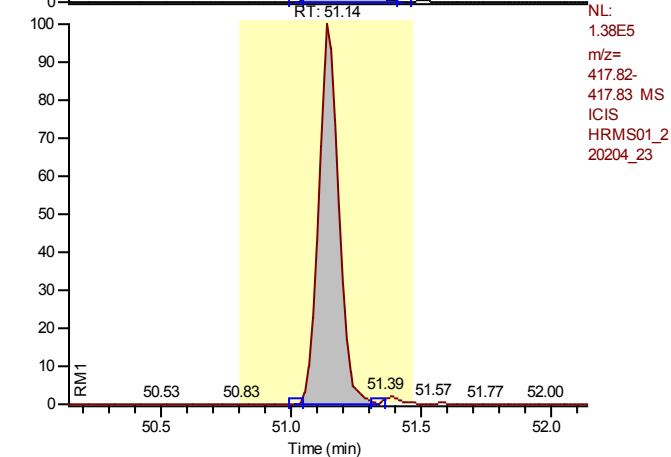
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

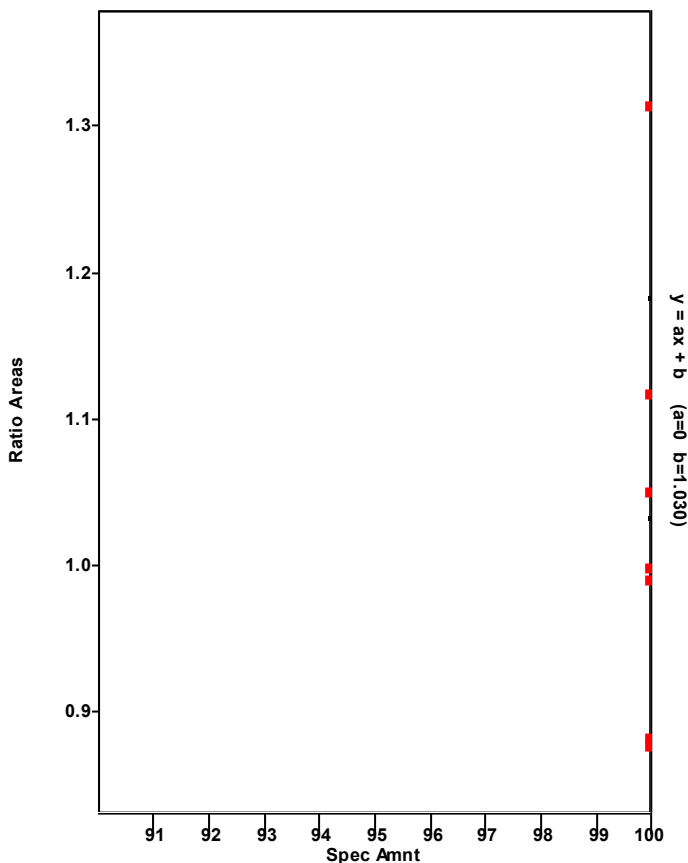


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1832615
RM1 Area	748464
RM1 Ratio (A)	0.4084
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

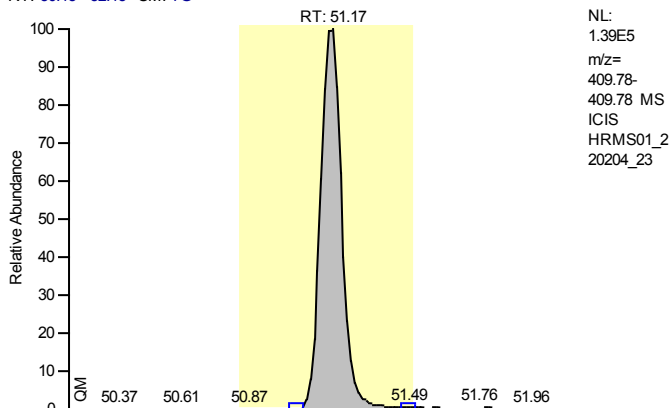
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



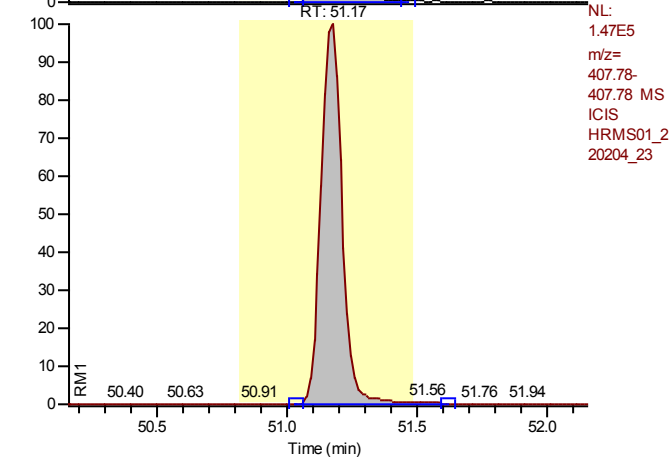
Chromatogram

Entry Parameters

RT: 50.15 - 52.15 SM: 7G



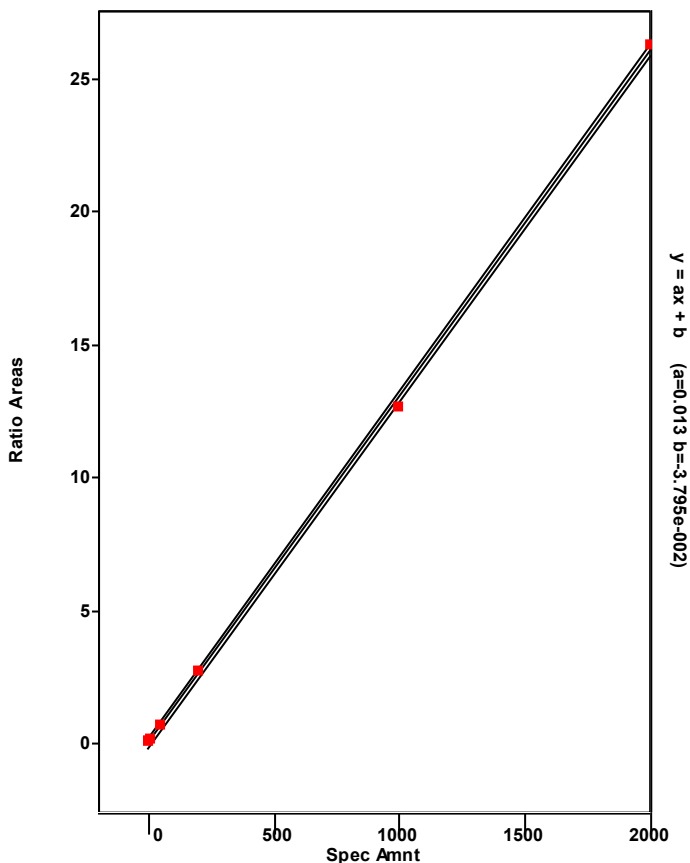
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	788135
RM1 Area	832781
RM1 Ratio (A)	1.0566
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

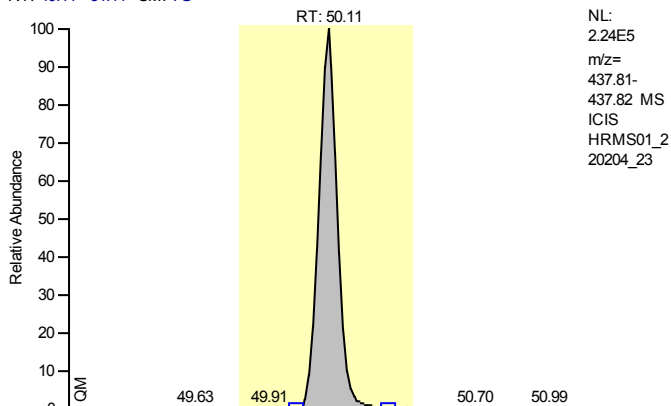
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



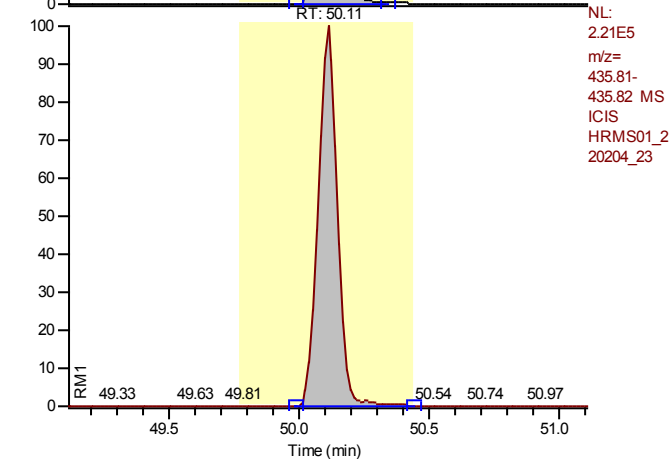
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

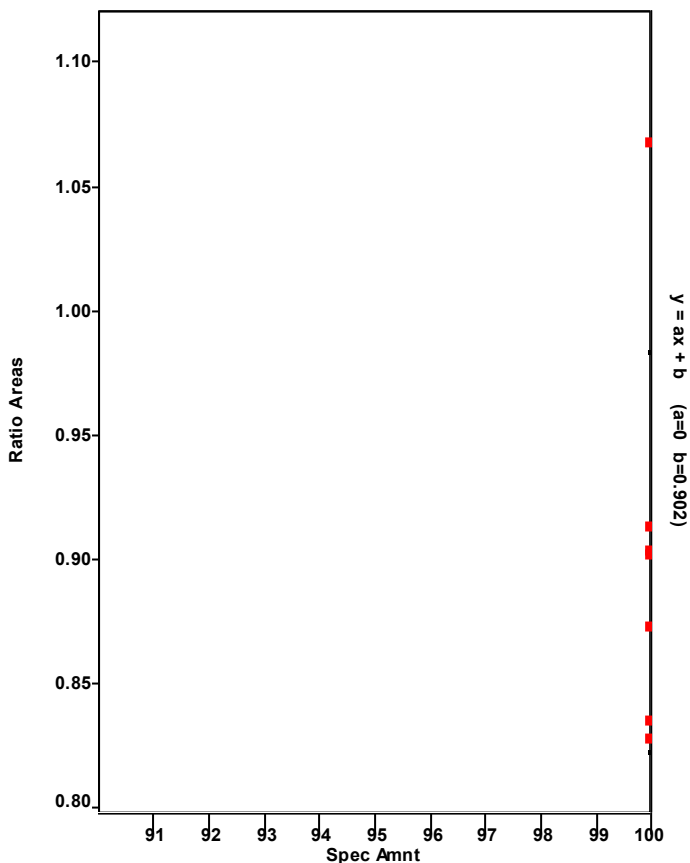


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1122947
RM1 Area	1154739
RM1 Ratio (A)	1.0283
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

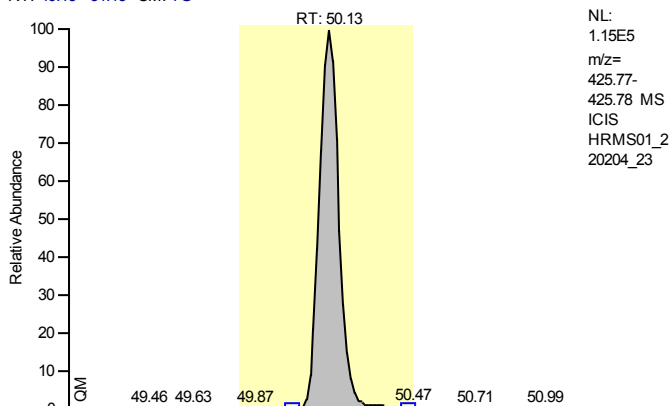
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



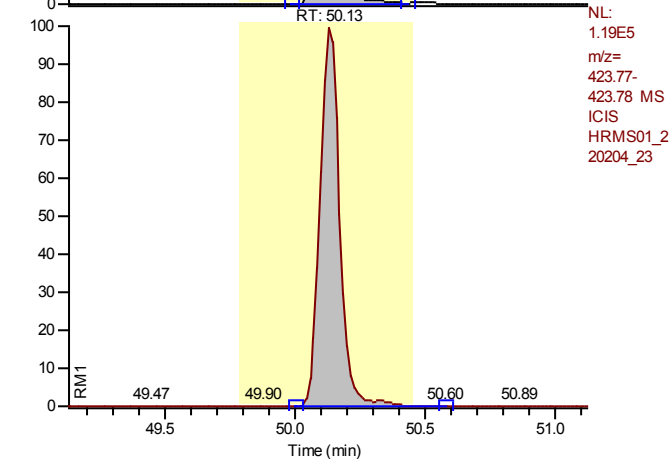
Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G



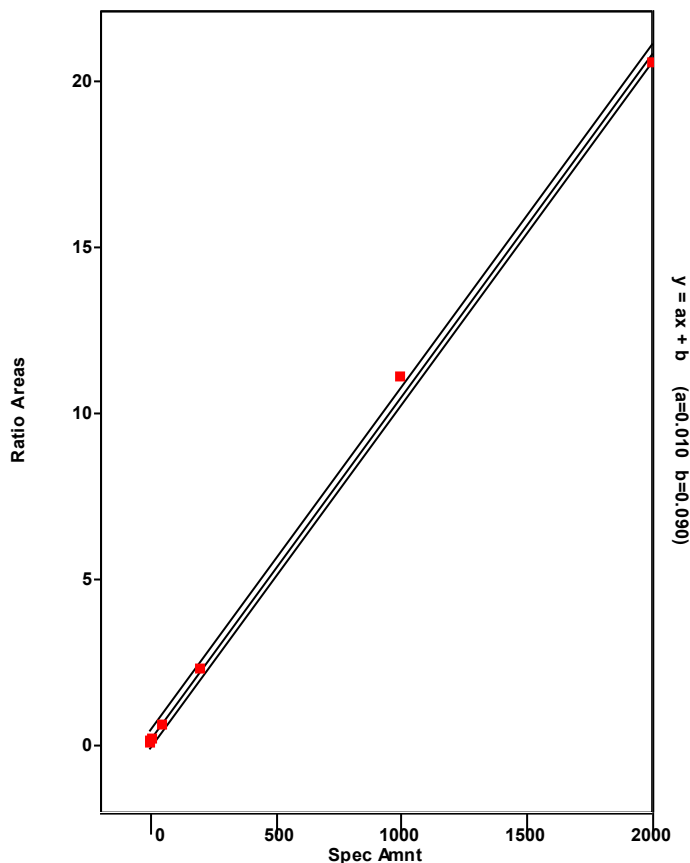
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	605066
RM1 Area	627208
RM1 Ratio (A)	1.0366
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.5000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

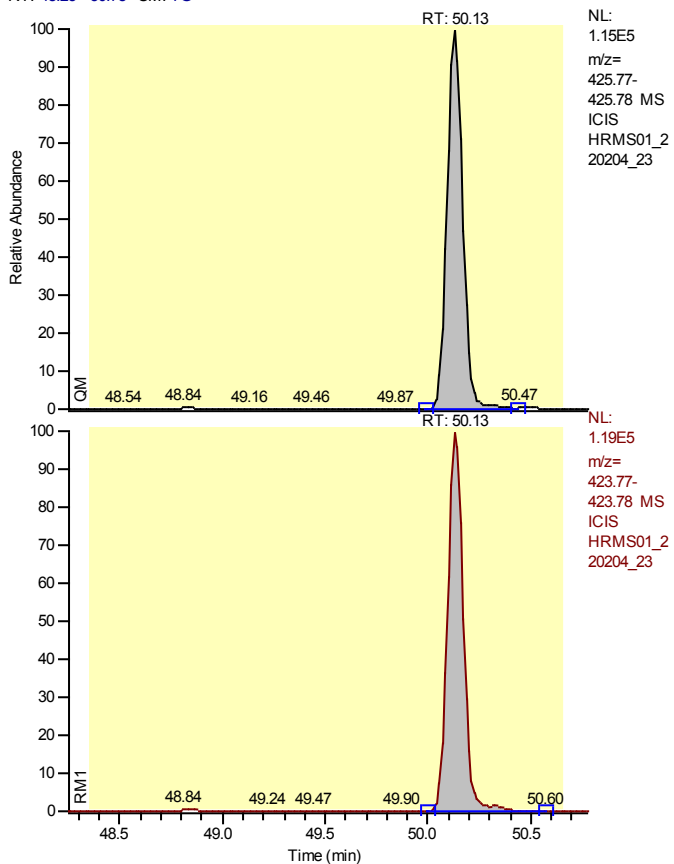
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.25 - 50.78 SM: 7G

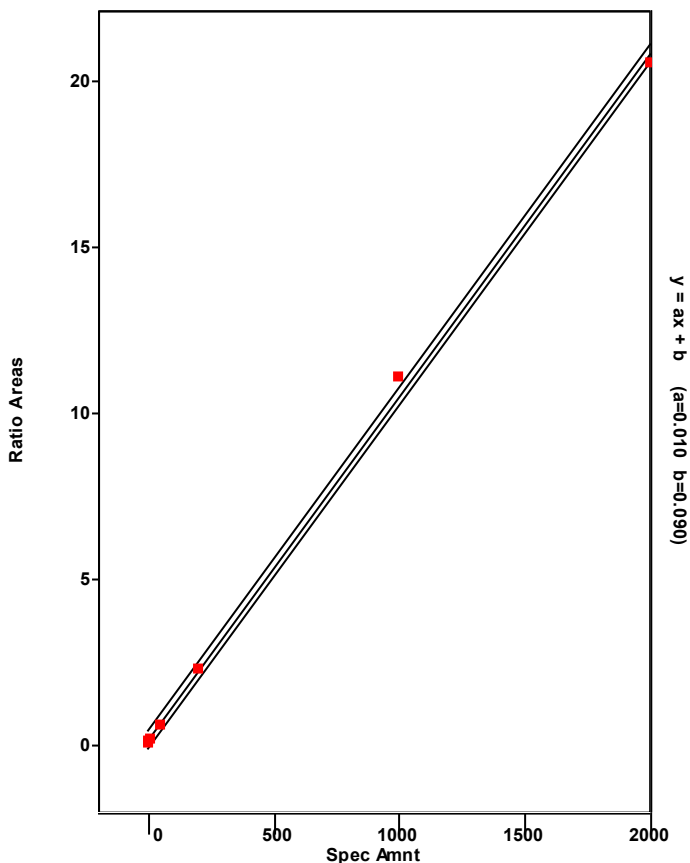


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	605066
RM1 Area	627208
RM1 Ratio (A)	1.0366
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

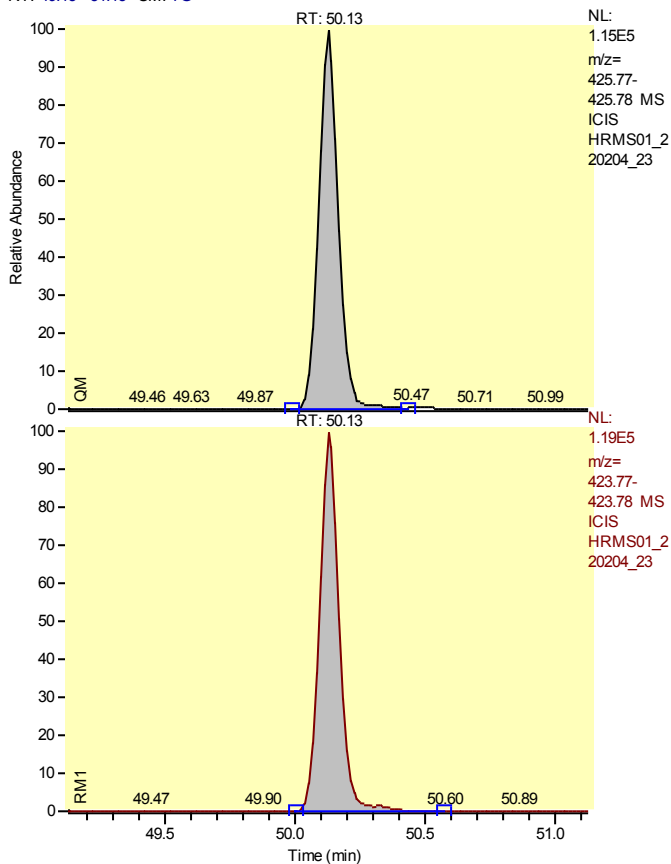
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G

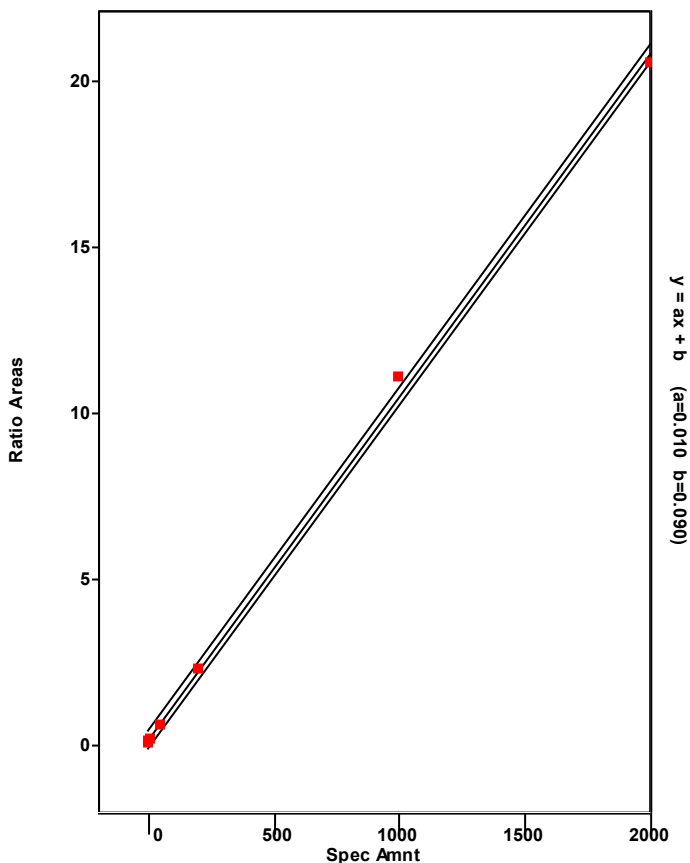


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	605066
RM1 Area	627208
RM1 Ratio (A)	1.0366
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

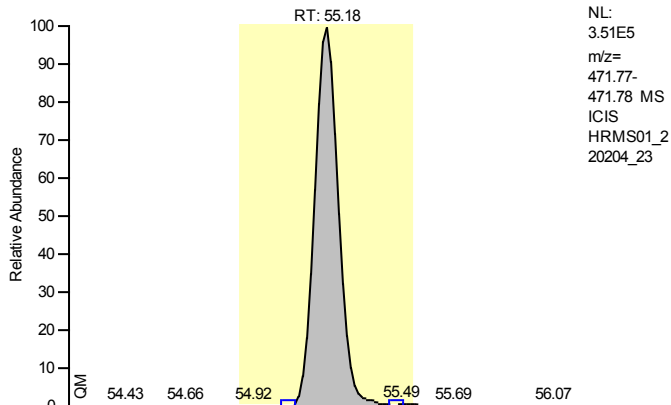
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



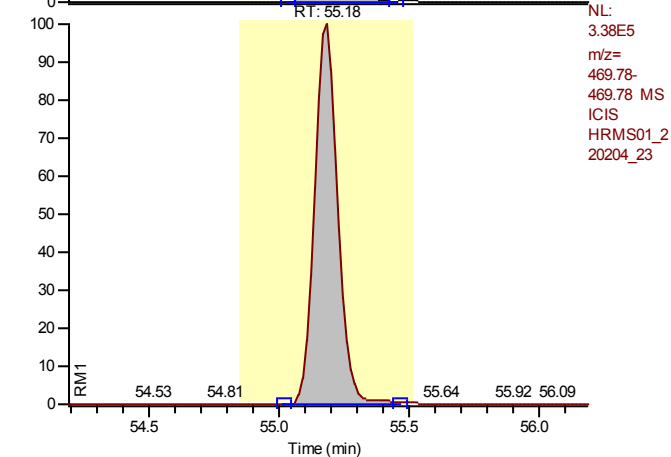
Chromatogram

Entry Parameters

RT: 54.19 - 56.19 SM: 7G



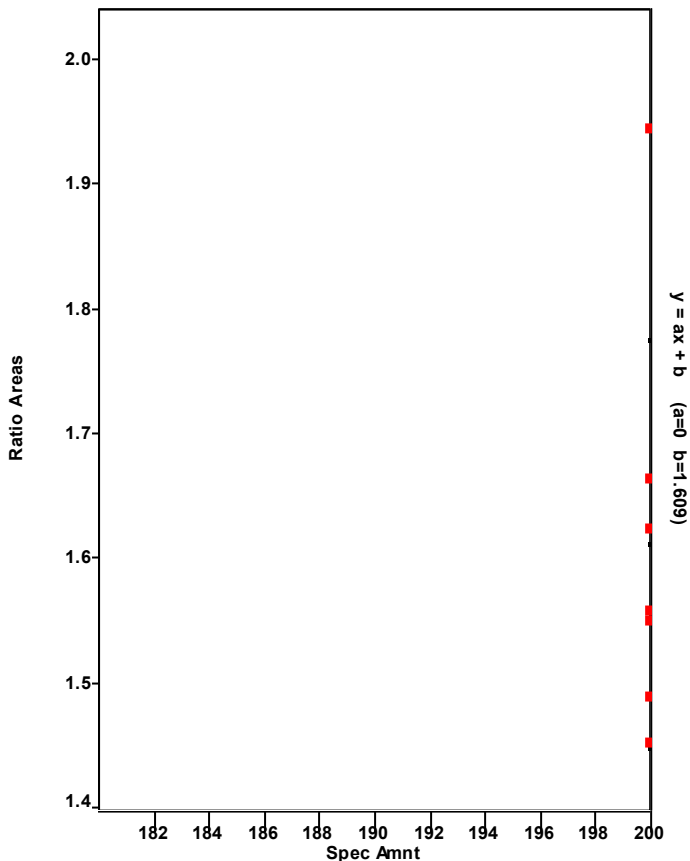
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2243721
RM1 Area	2099629
RM1 Ratio (A)	0.9358
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

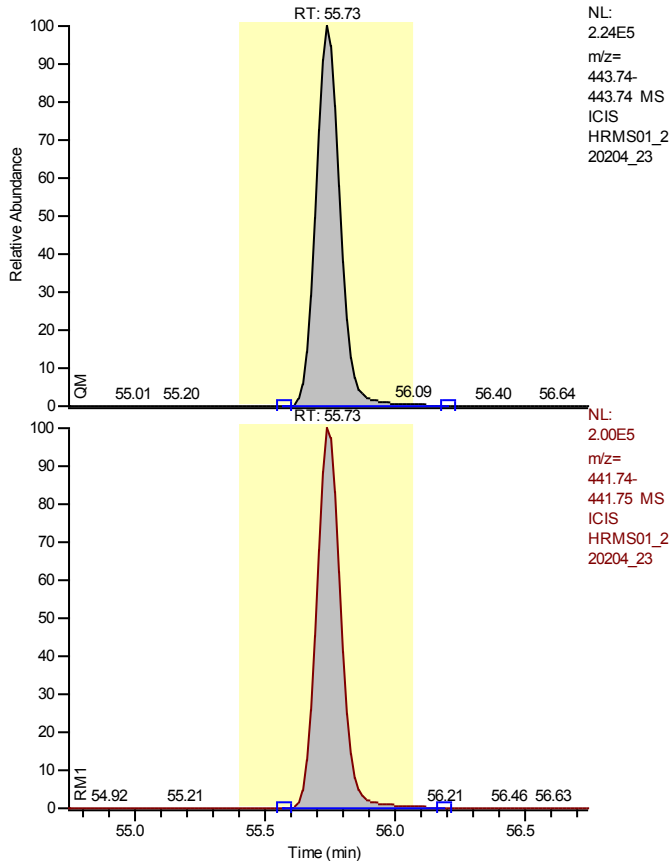
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.74 - 56.74 SM: 7G

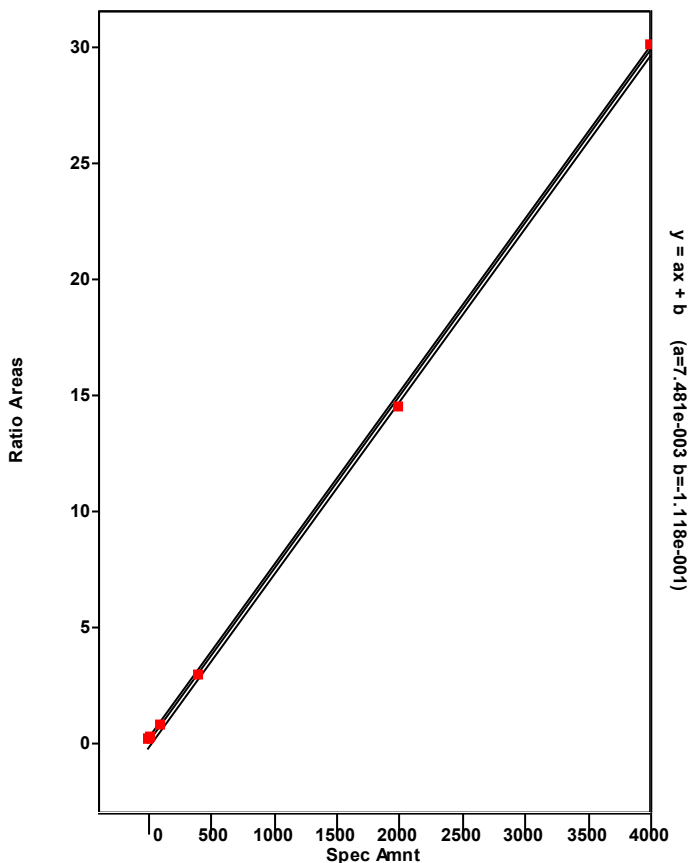


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1460750
RM1 Area	1309691
RM1 Ratio (A)	0.8966
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0300
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

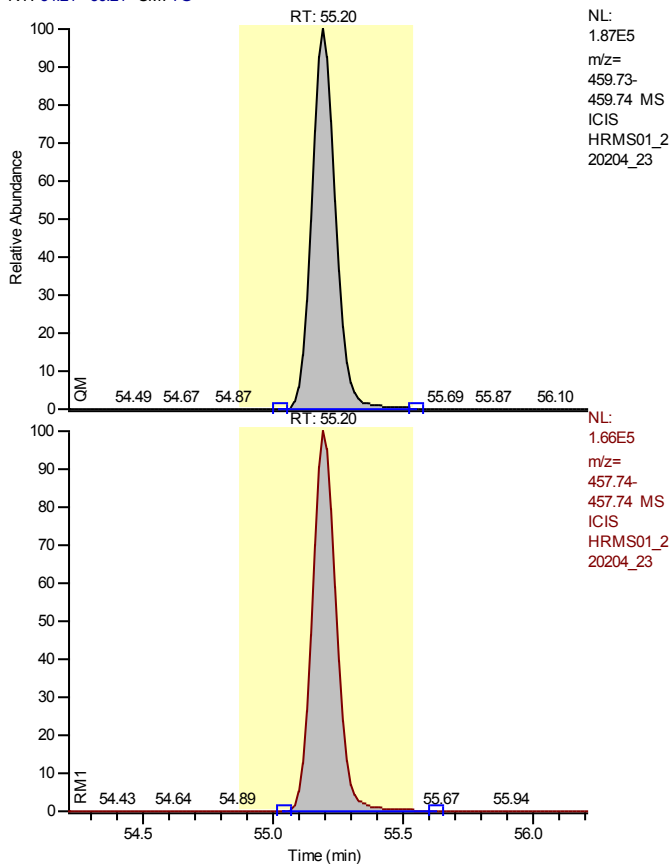
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.21 - 56.21 SM: 7G



NL:
1.87E5
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20204_23

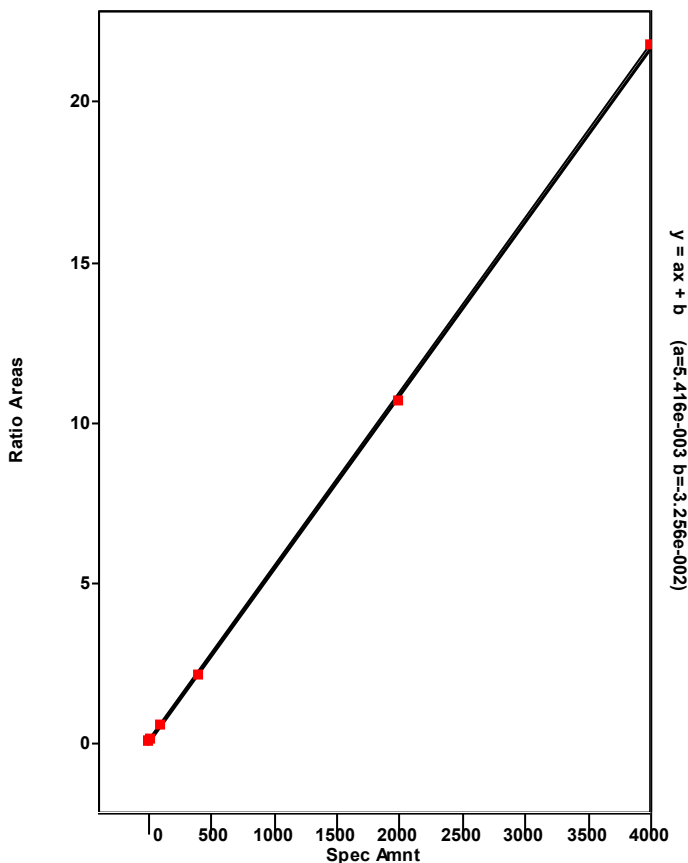
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	1185828
RM1 Area	1062216
RM1 Ratio (A)	0.8958
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0300
Label2	

NL:
1.66E5
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20204_23

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

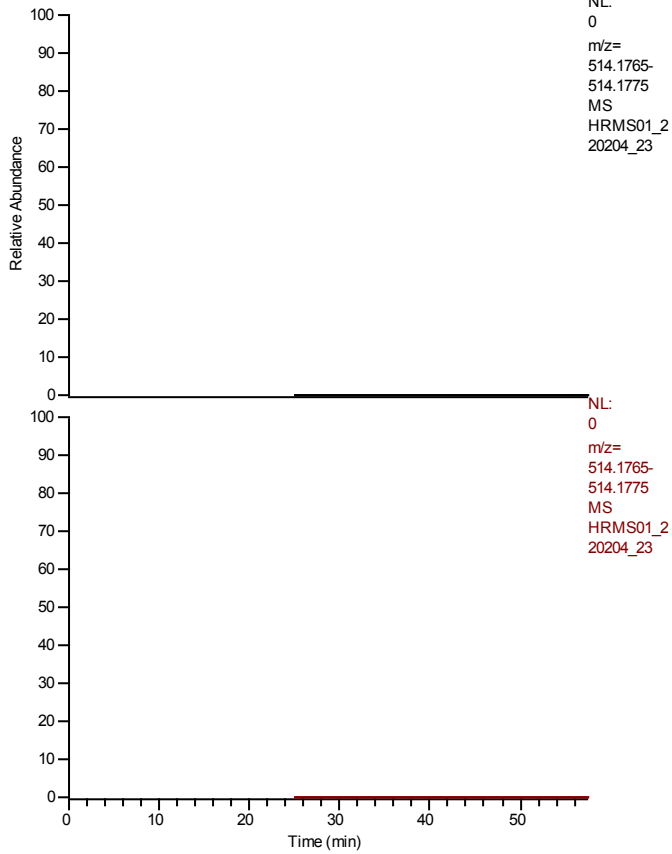
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

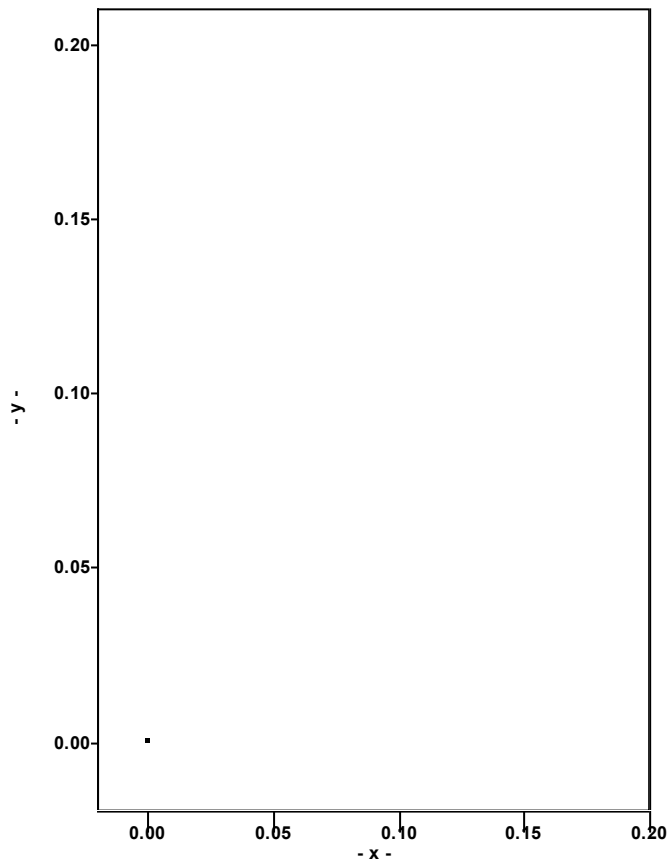
RT: 0.00 - 57.51 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	11477506
RM1 Area	13237339
RM1 Ratio (A)	1.1533
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	870.00
Percent Recovery (A)	---
TEQ (A)	114.0600
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 07:03
Number of Entries	59
Comment	HRMS200402D
Vial	8
Sample Name	IA1613STD-40
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_25_seq
Data	hrms01_220204_25
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

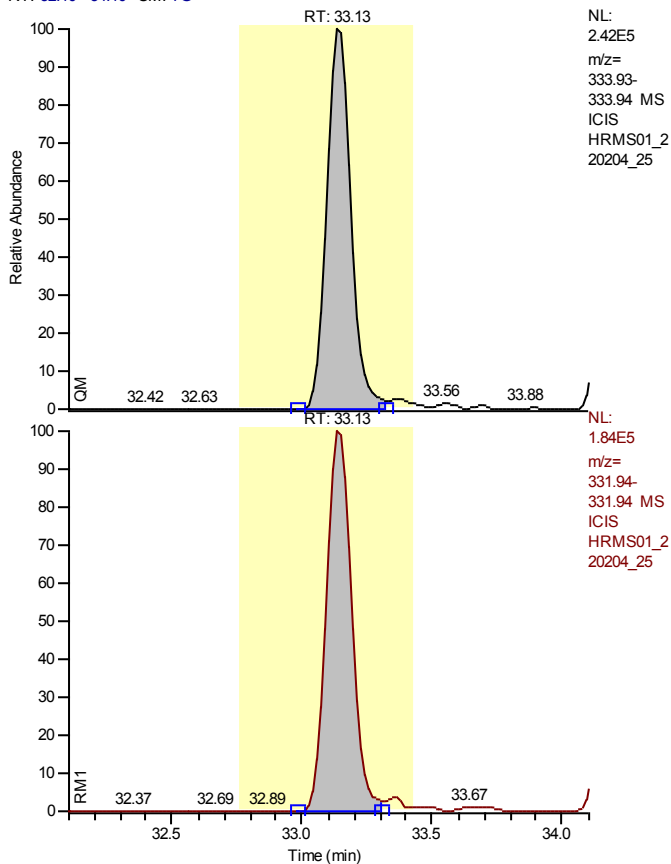
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1558347	1235286	0.7927	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2562921	1812385	0.7072	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	912323	701824	0.7693	0.6500 - 0.8900	40.00	40.00	100	4.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	912323	701824	0.7693	0.6500 - 0.8900	40.00	40.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	912323	701824	0.7693	0.6500 - 0.8900	40.00	40.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1687906	1345404	0.7971	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	744070	575489	0.7734	0.6500 - 0.8900	40.00	40.00	100	40.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	744070	575489	0.7734	0.6500 - 0.8900	40.00	40.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	744070	575489	0.7734	0.6500 - 0.8900	40.00	40.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1531827	2472373	1.6140	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	3023413	4708702	1.5574	1.3200 - 1.7800	200.00	200.00	100	6.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	6470571	10008278	1.5467	1.3200 - 1.7800	200.00	400.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	3447158	5299576	1.5374	1.3200 - 1.7800	200.00	200.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	3023413	4708702	1.5574	1.3200 - 1.7800	200.00	200.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1550767	2538357	1.6368	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	3447158	5299576	1.5374	1.3200 - 1.7800	200.00	200.00	100	60.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1013433	1715666	1.6929	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	2115637	3307143	1.5632	1.3200 - 1.7800	200.00	200.00	100	200.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	2115637	3307143	1.5632	1.3200 - 1.7800	200.00	200.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	2115637	3307143	1.5632	1.3200 - 1.7800	200.00	200.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		1317314	1317314	1.0000	0.8500 - 1.1500	40.00	40.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1786572	2269151	1.2701	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		3127172	1728631	0.5528	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	5072124	6308640	1.2438	1.0500 - 1.4300	200.00	200.00	100	20.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	20766877	25819196	1.2433	1.0500 - 1.4300	200.00	800.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	5541656	6820707	1.2308	1.0500 - 1.4300	200.00	200.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	5072124	6308640	1.2438	1.0500 - 1.4300	200.00	200.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	5279498	6591428	1.2485	1.0500 - 1.4300	200.00	200.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	4873599	6098420	1.2513	1.0500 - 1.4300	200.00	200.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		3324043	1774904	0.5340	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	5279498	6591428	1.2485	1.0500 - 1.4300	200.00	200.00	100	20.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		3294859	1763242	0.5351	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	5541656	6820707	1.2308	1.0500 - 1.4300	200.00	200.00	100	20.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		3160045	1639031	0.5187	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	4873599	6098420	1.2513	1.0500 - 1.4300	200.00	200.00	100	20.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1613961	2049797	1.2700	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	3348935	4282712	1.2788	1.0500 - 1.4300	200.00	200.00	100	20.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	10432916	13223321	1.2675	1.0500 - 1.4300	200.00	600.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	3567405	4499765	1.2614	1.0500 - 1.4300	200.00	200.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	3348935	4282712	1.2788	1.0500 - 1.4300	200.00	200.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	3516576	4440844	1.2628	1.0500 - 1.4300	200.00	200.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1678094	2032158	1.2110	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	3516576	4440844	1.2628	1.0500 - 1.4300	200.00	200.00	100	20.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	3567405	4499765	1.2614	1.0500 - 1.4300	200.00	200.00	100	20.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		3094257	1386339	0.4480	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	5493957	5793492	1.0545	0.8800 - 1.2000	200.00	200.00	100	2.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	10982411	11590330	1.0554	0.8800 - 1.2000	200.00	400.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	5493957	5793492	1.0545	0.8800 - 1.2000	200.00	200.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	5488454	5796838	1.0562	0.8800 - 1.2000	200.00	200.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		2900269	1348471	0.4649	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	5488454	5796838	1.0562	0.8800 - 1.2000	200.00	200.00	100	2.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1784624	1868306	1.0469	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	3899204	4127919	1.0587	0.8800 - 1.2000	200.00	200.00	100	2.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	3899204	4127919	1.0587	0.8800 - 1.2000	200.00	200.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	3899204	4127919	1.0587	0.8800 - 1.2000	200.00	200.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		3177200	2853616	0.8982	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	8776447	7976602	0.9089	0.7600 - 1.0200	400.00	400.00	100	0.1200
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	6696728	5993259	0.8950	0.7600 - 1.0200	400.00	400.00	100	0.1200
59	overall TEQ	overall TEQ test		71797184	83323362	1.1605	0.0000 - 0.0000	0.00	3480.00	---	456.2400

Chromatogram

Entry Parameters

RT: 32.10 - 34.10 SM: 7G



NL:
 2.42E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_25

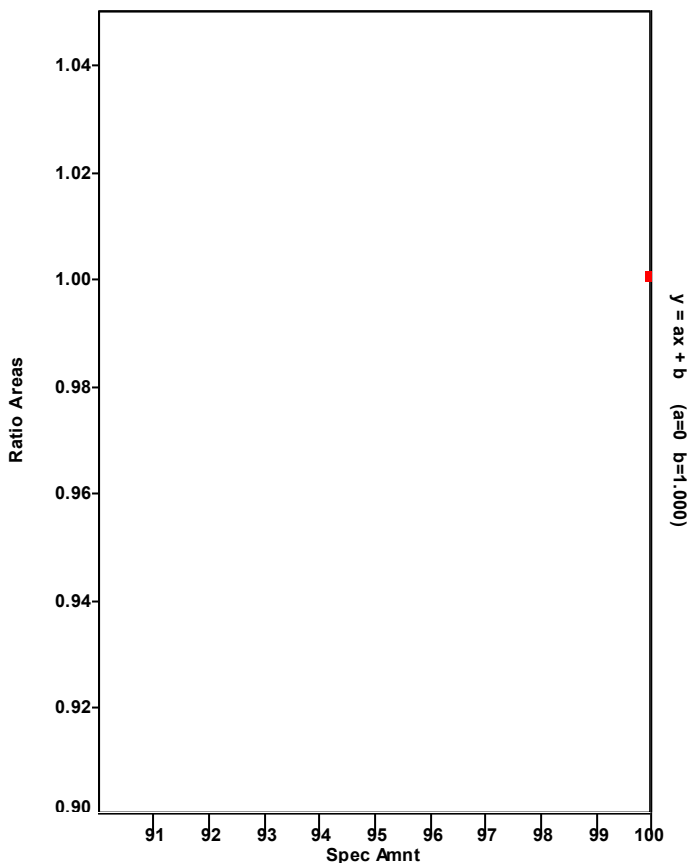
Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1558347
RM1 Area	1235286
RM1 Ratio (A)	0.7927
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 1.84E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_25

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

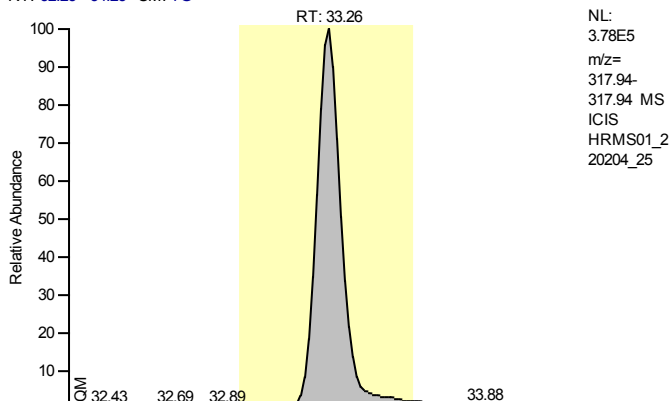
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

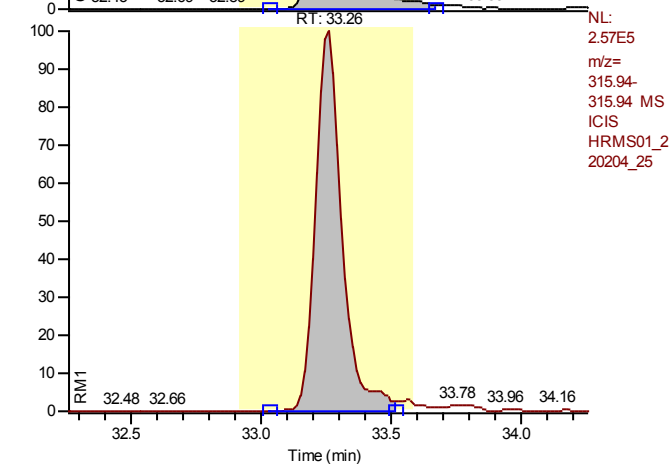
Entry Parameters

RT: 32.25 - 34.25 SM: 7G



NL:
 3.78E5
 m/z=
 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2562921
RM1 Area	1812385
RM1 Ratio (A)	0.7072
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

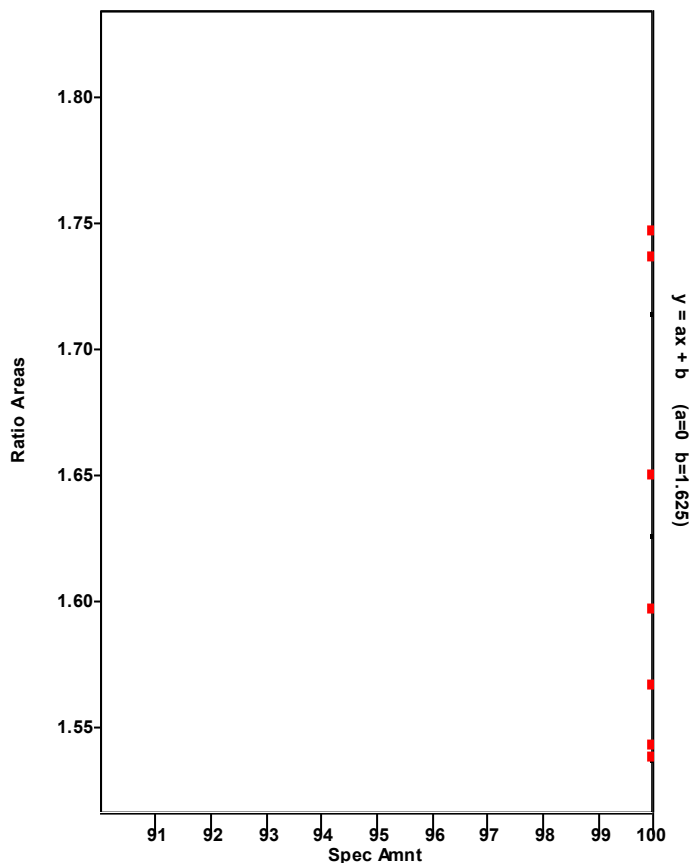


NL:
 2.57E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20204_25

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

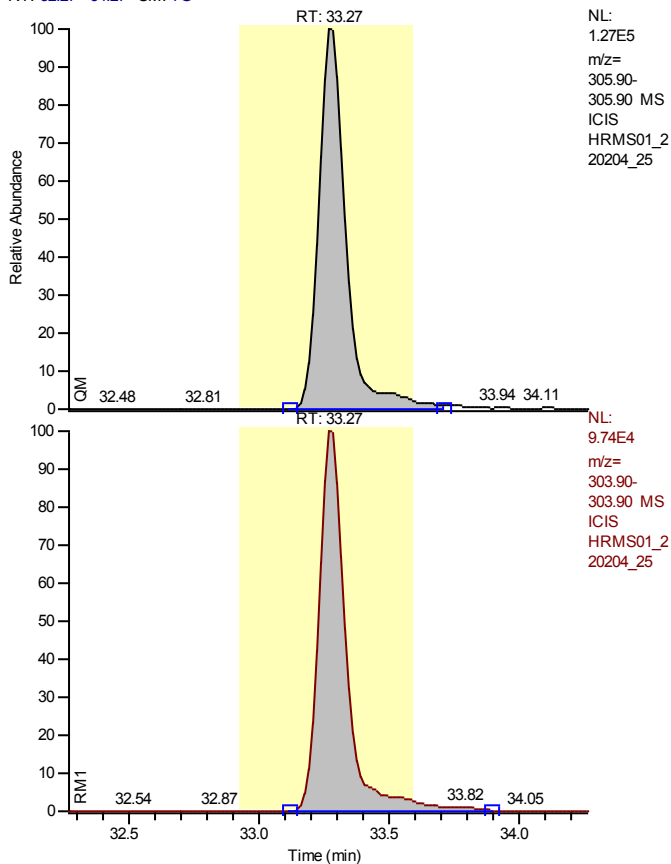
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G



NL:
1.27E5
m/z=
305.90-
305.90 MS
ICIS
HRMS01_2
20204_25

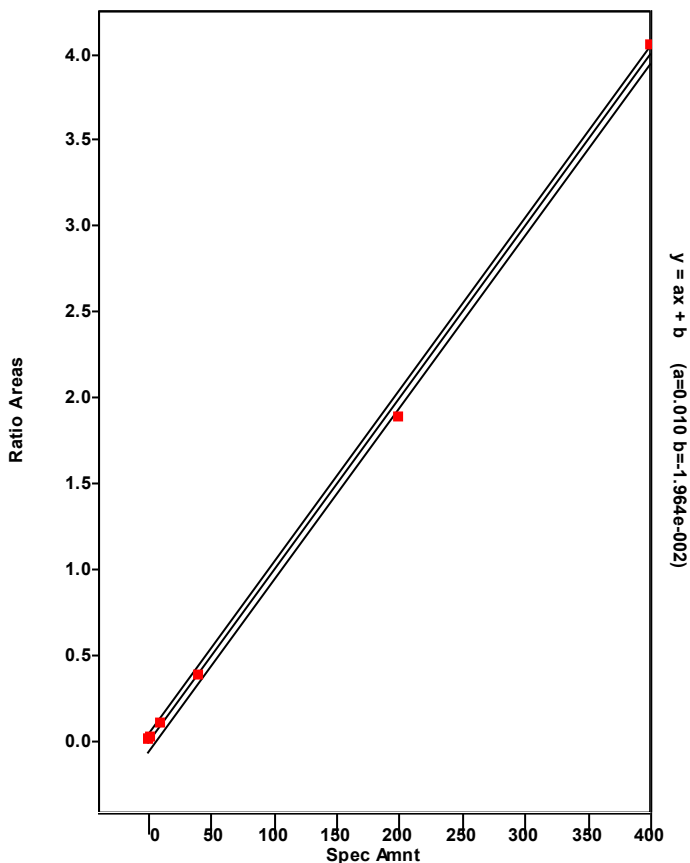
NL:
9.74E4
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20204_25

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	912323
RM1 Area	701824
RM1 Ratio (A)	0.7693
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	4.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

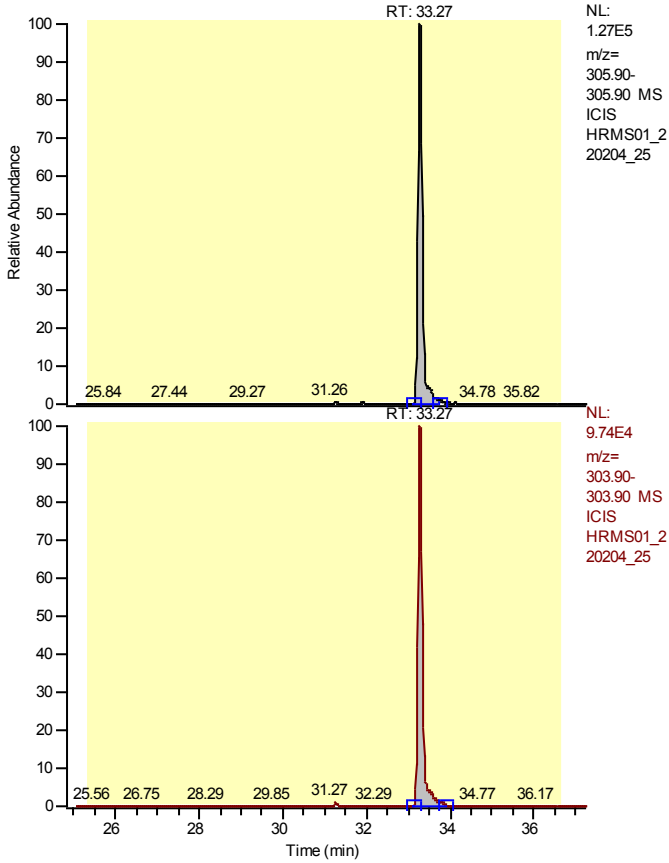
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.82 - 37.25 SM: 7G

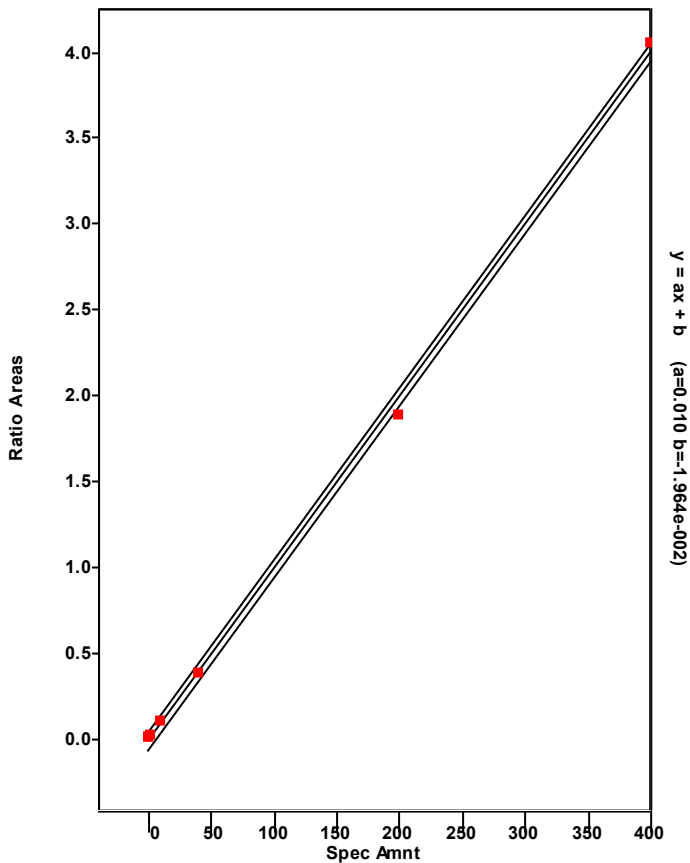


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	912323
RM1 Area	701824
RM1 Ratio (A)	0.7693
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

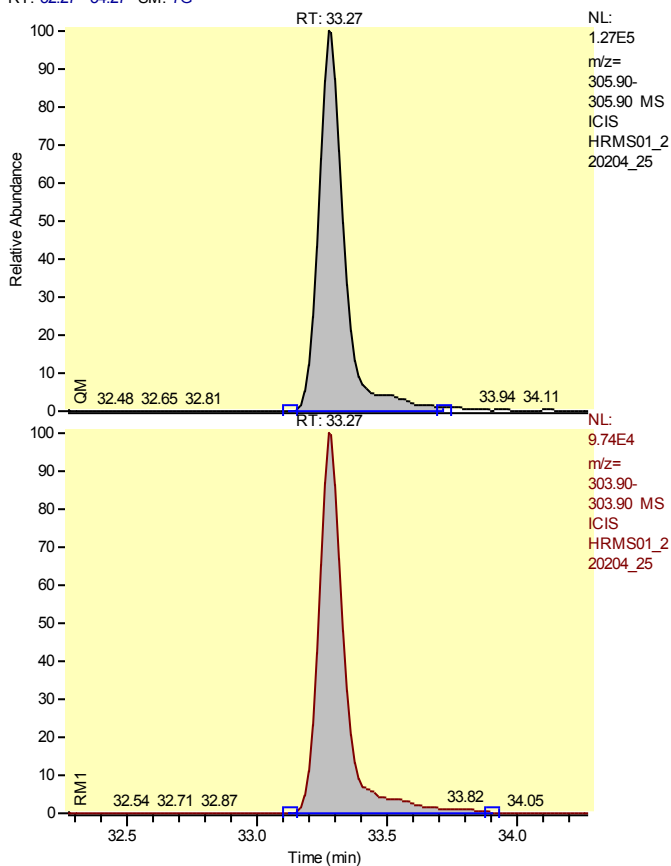
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G

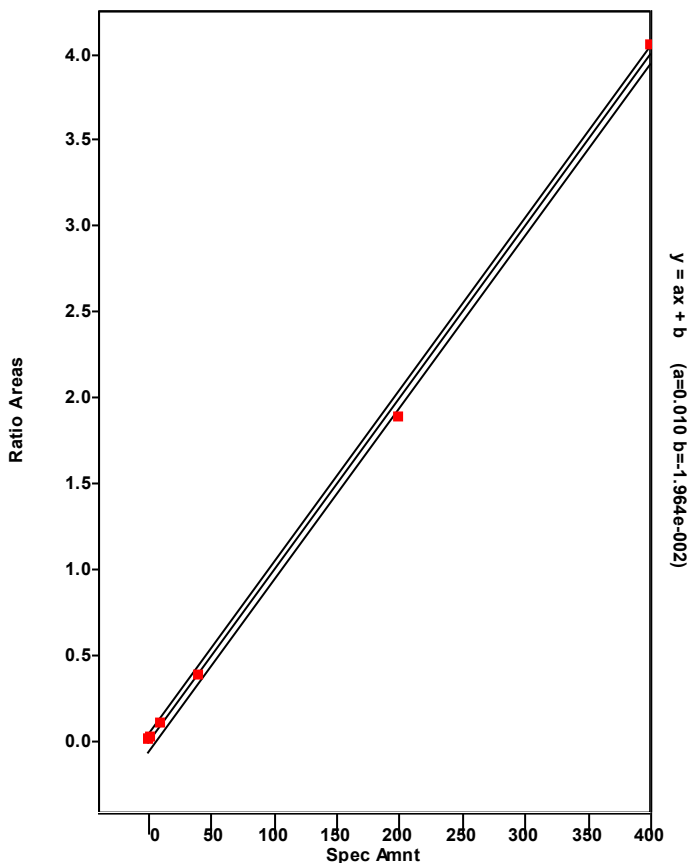


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	912323
RM1 Area	701824
RM1 Ratio (A)	0.7693
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

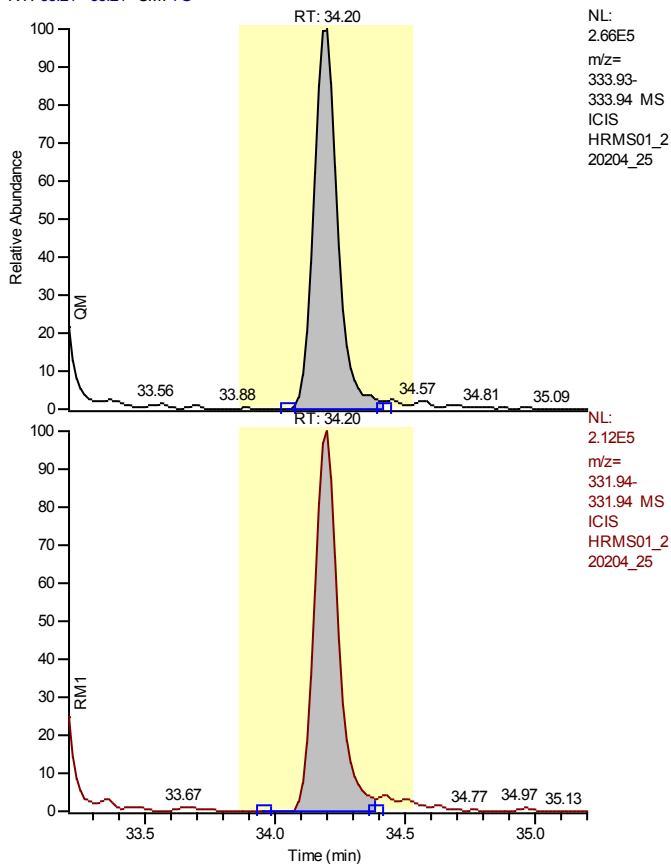
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G



NL:
2.66E5
m/z=
333.93-
333.94 MS
ICIS
HRMS01_2
20204_25

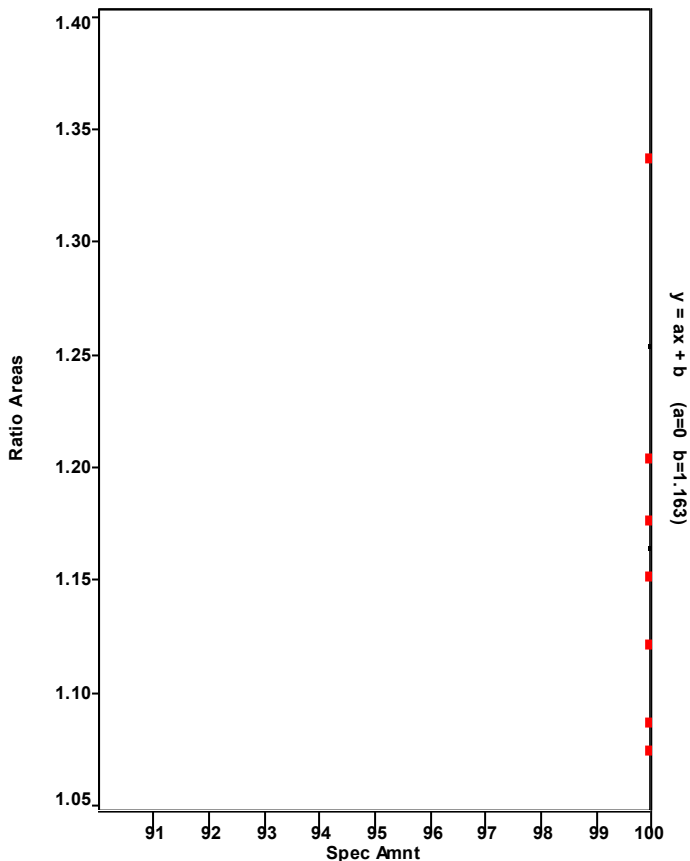
NL:
2.12E5
m/z=
331.94-
331.94 MS
ICIS
HRMS01_2
20204_25

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1687906
RM1 Area	1345404
RM1 Ratio (A)	0.7971
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

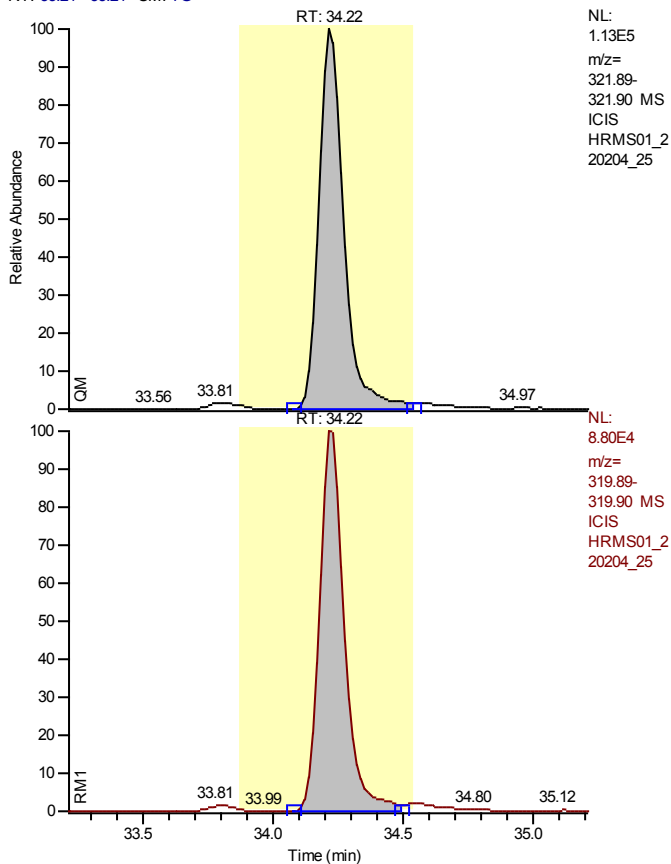
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G

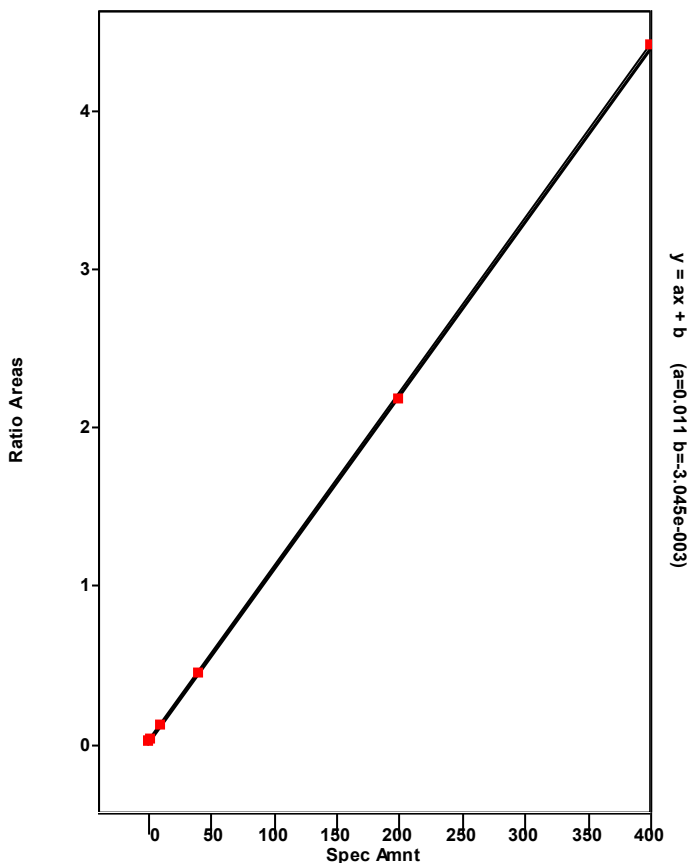


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	744070
RM1 Area	575489
RM1 Ratio (A)	0.7734
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	40.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

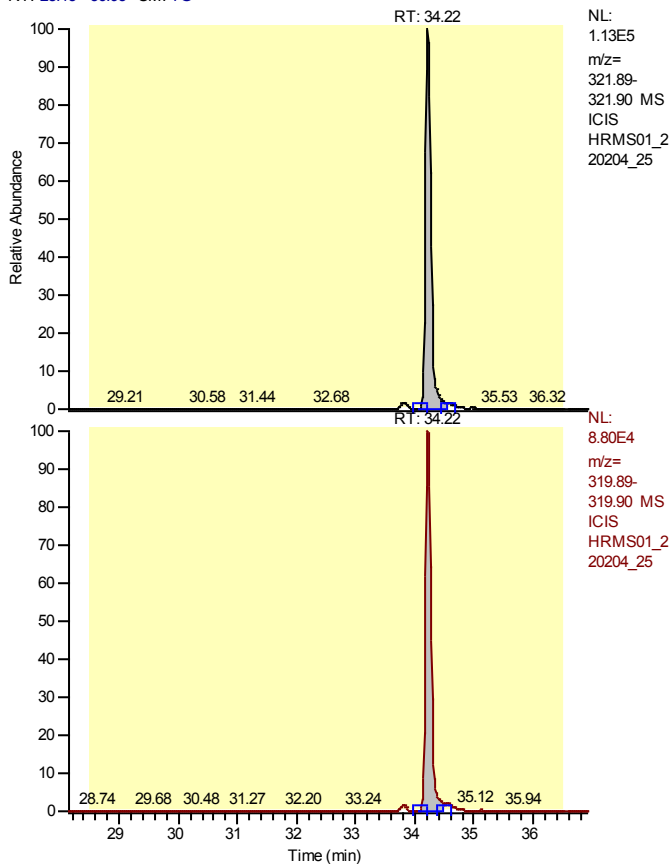
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.13 - 36.93 SM: 7G

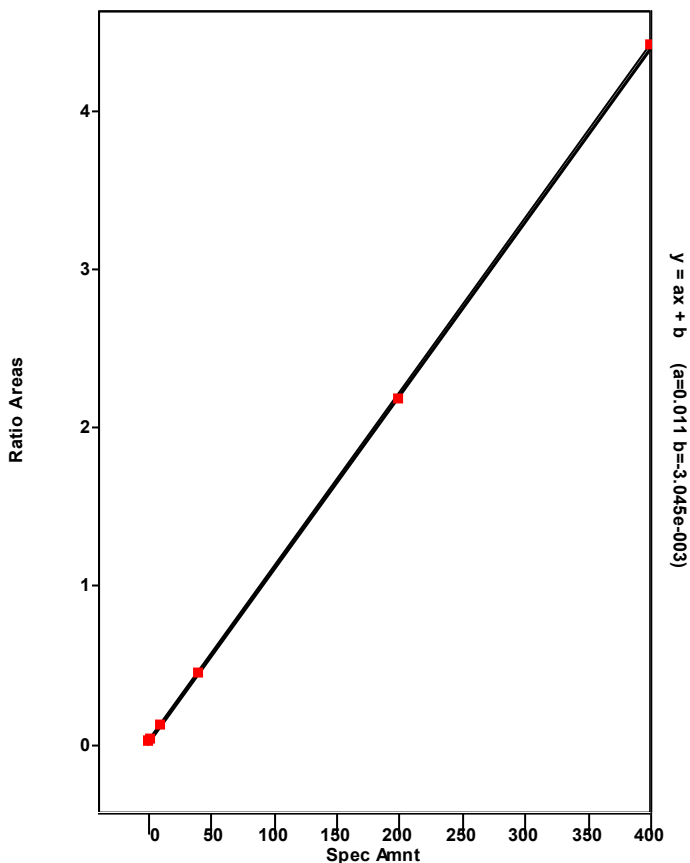


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	744070
RM1 Area	575489
RM1 Ratio (A)	0.7734
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

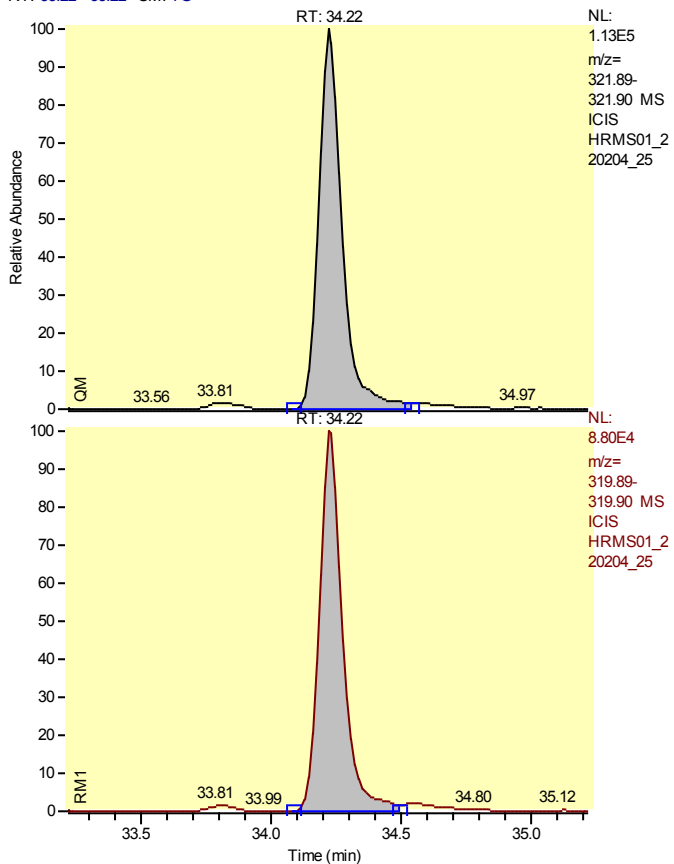
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

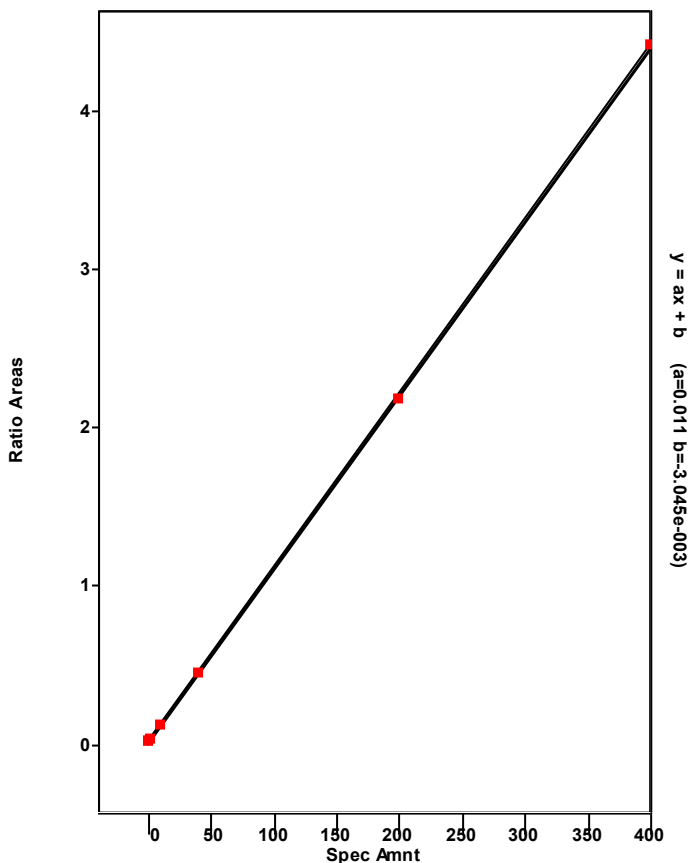


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	744070
RM1 Area	575489
RM1 Ratio (A)	0.7734
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

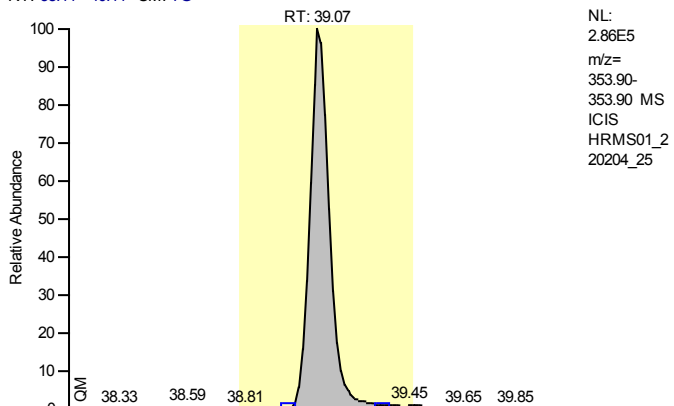
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



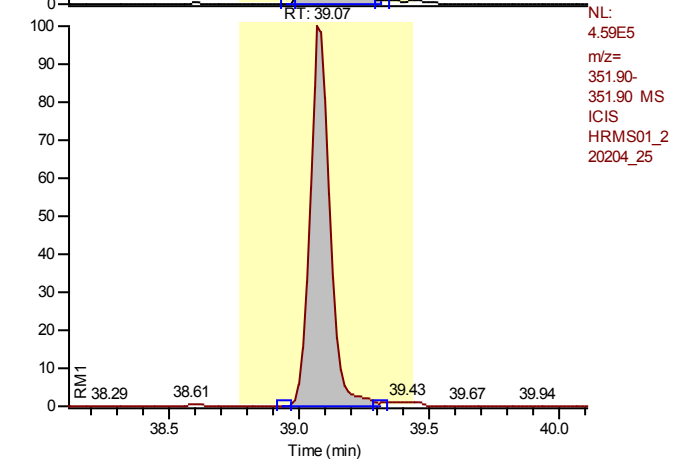
Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G



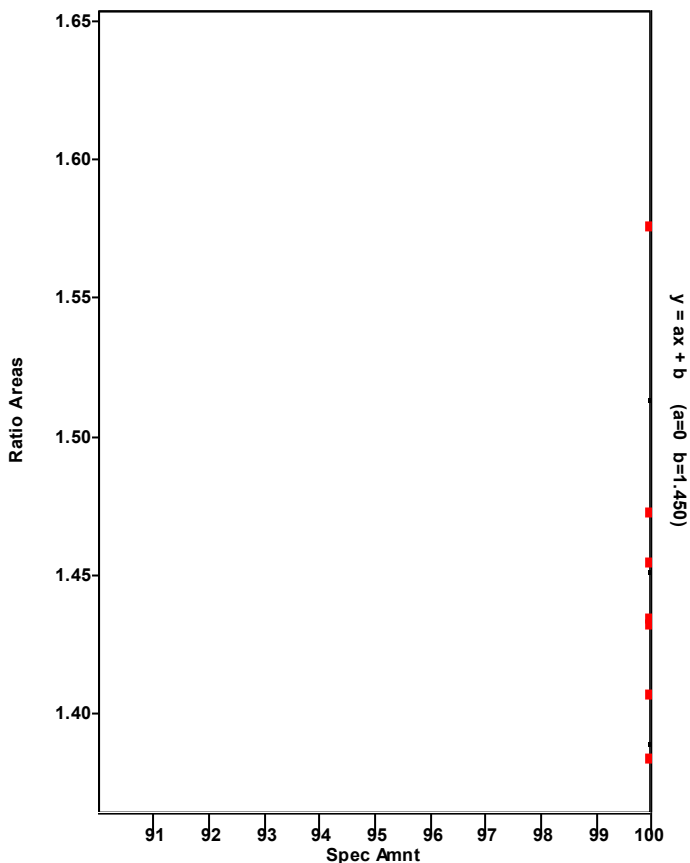
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1531827
RM1 Area	2472373
RM1 Ratio (A)	1.6140
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

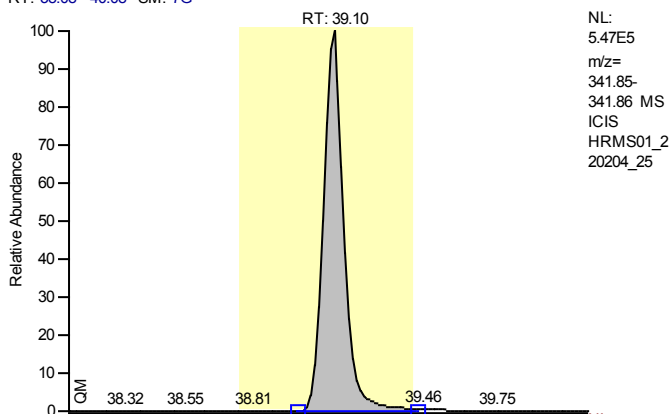
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



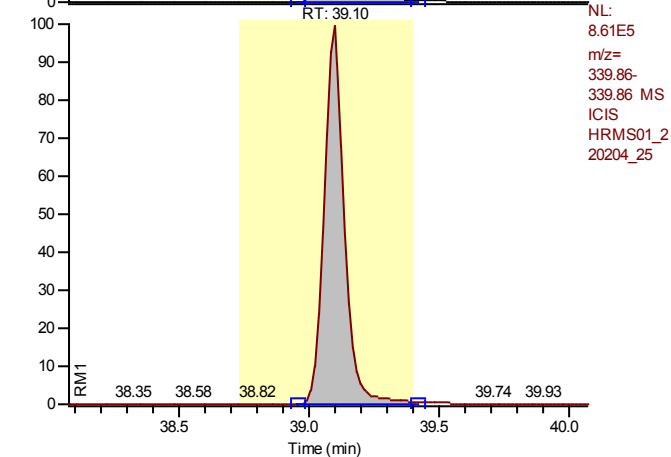
Chromatogram

Entry Parameters

RT: 38.08 - 40.08 SM: 7G



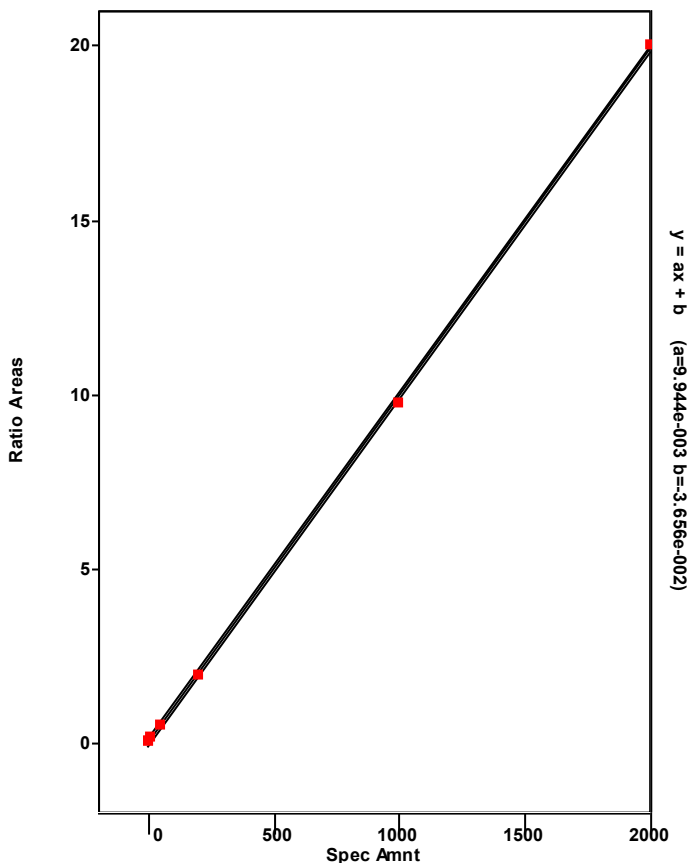
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	3023413
RM1 Area	4708702
RM1 Ratio (A)	1.5574
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	6.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

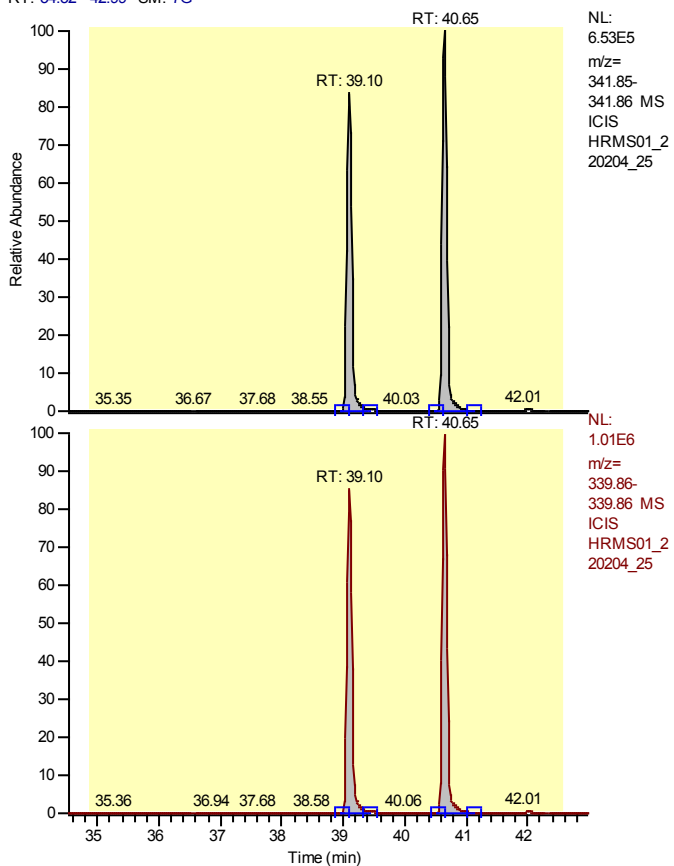
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.52 - 42.99 SM: 7G

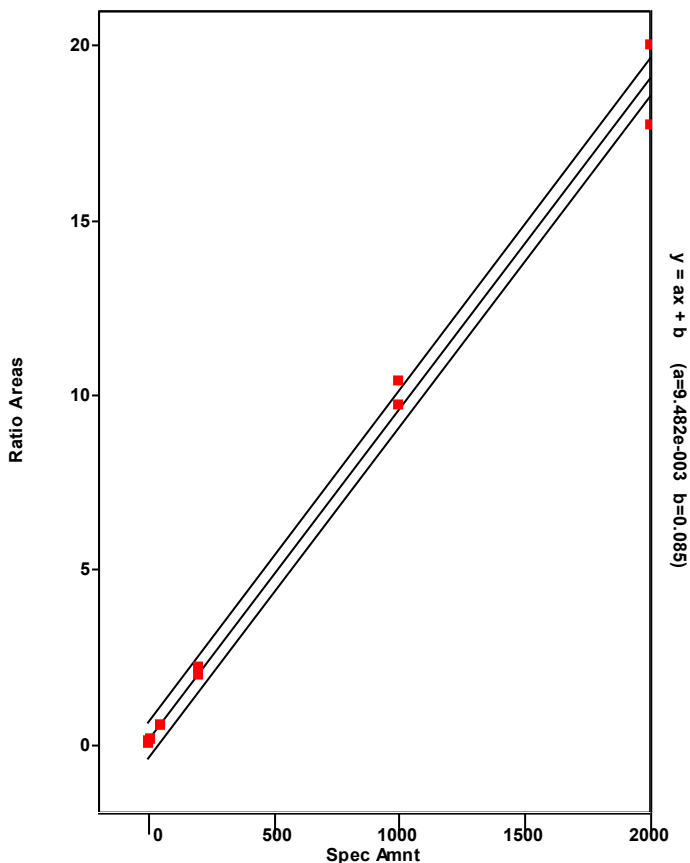


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	6470571
RM1 Area	10008278
RM1 Ratio (A)	1.5467
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	400.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

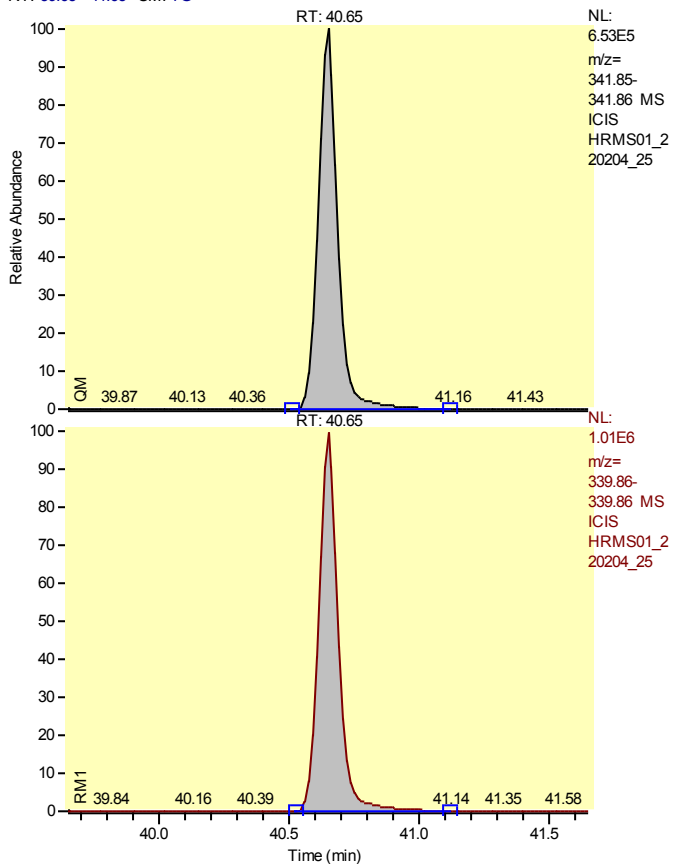
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G

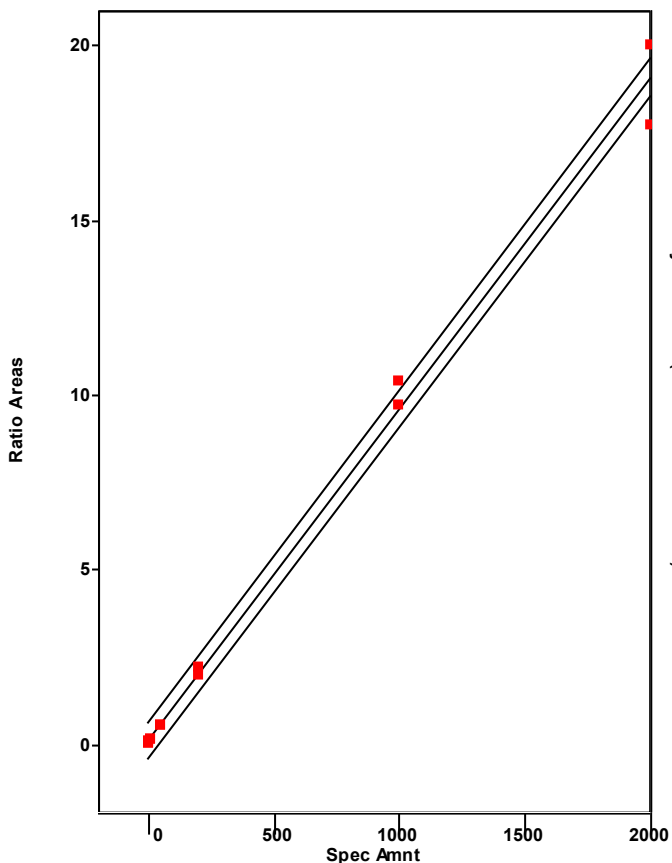


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	3447158
RM1 Area	5299576
RM1 Ratio (A)	1.5374
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

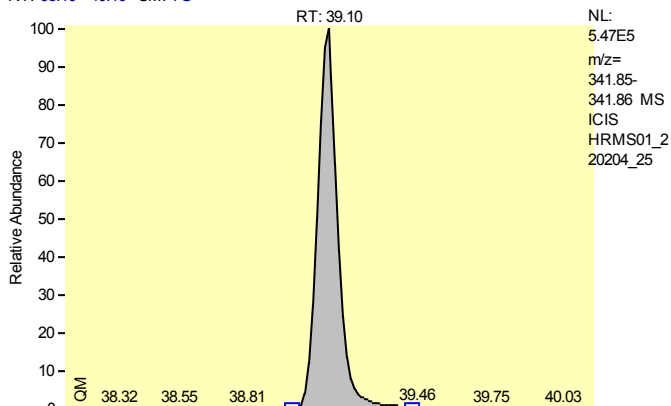
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



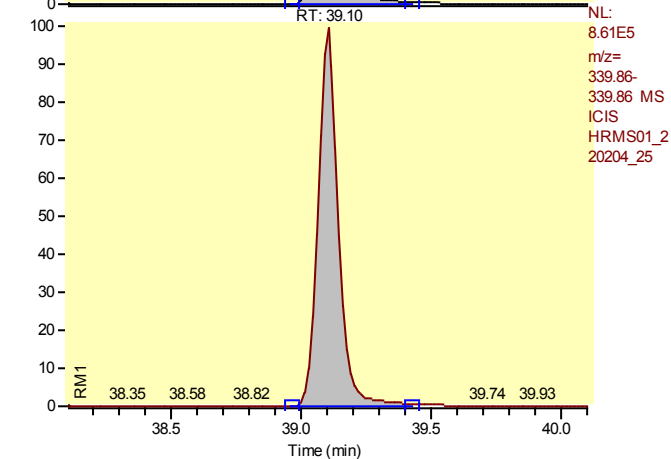
Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G



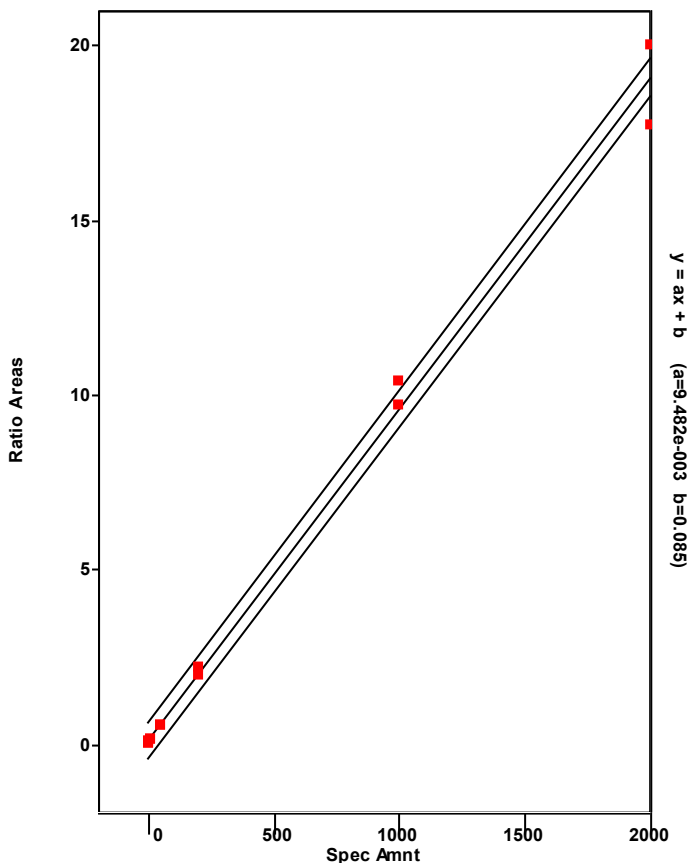
Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	3023413
RM1 Area	4708702
RM1 Ratio (A)	1.5574
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

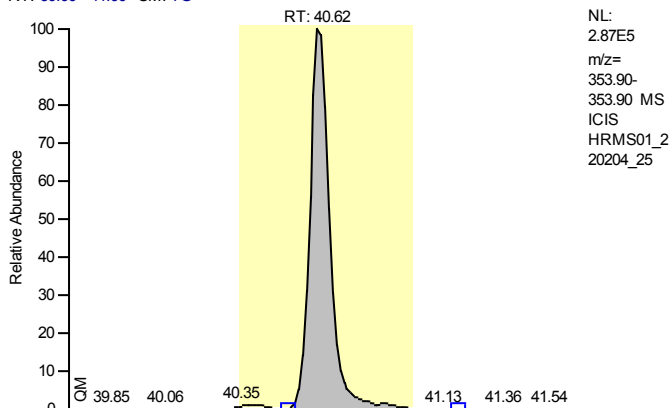
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



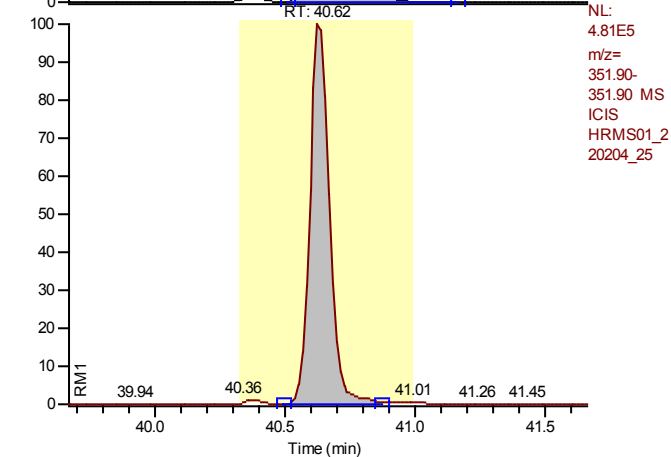
Chromatogram

Entry Parameters

RT: 39.66 - 41.66 SM: 7G



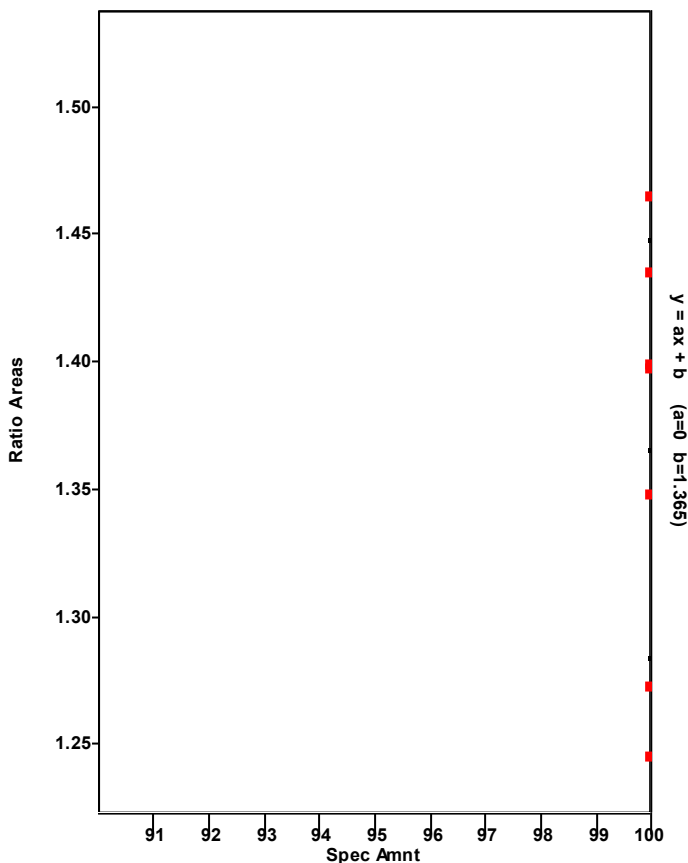
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1550767
RM1 Area	2538357
RM1 Ratio (A)	1.6368
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

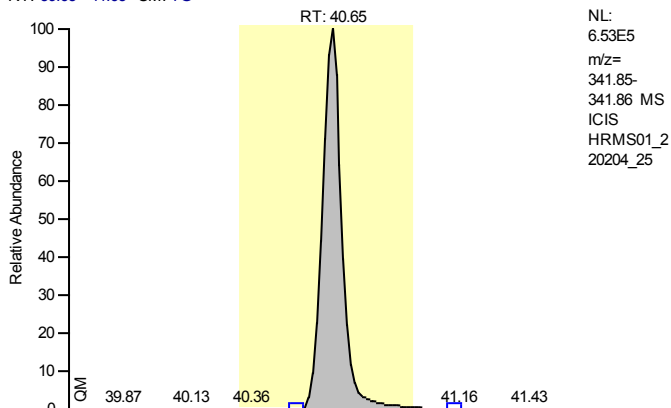
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

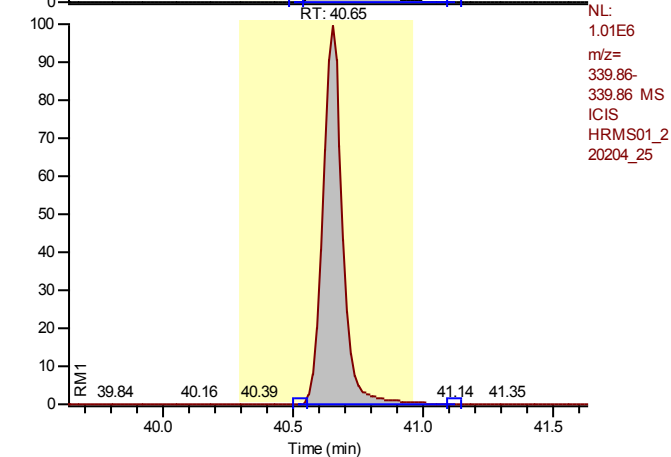
Entry Parameters

RT: 39.63 - 41.63 SM: 7G



NL:
 6.53E5
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	3447158
RM1 Area	5299576
RM1 Ratio (A)	1.5374
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	60.0000
Label2	

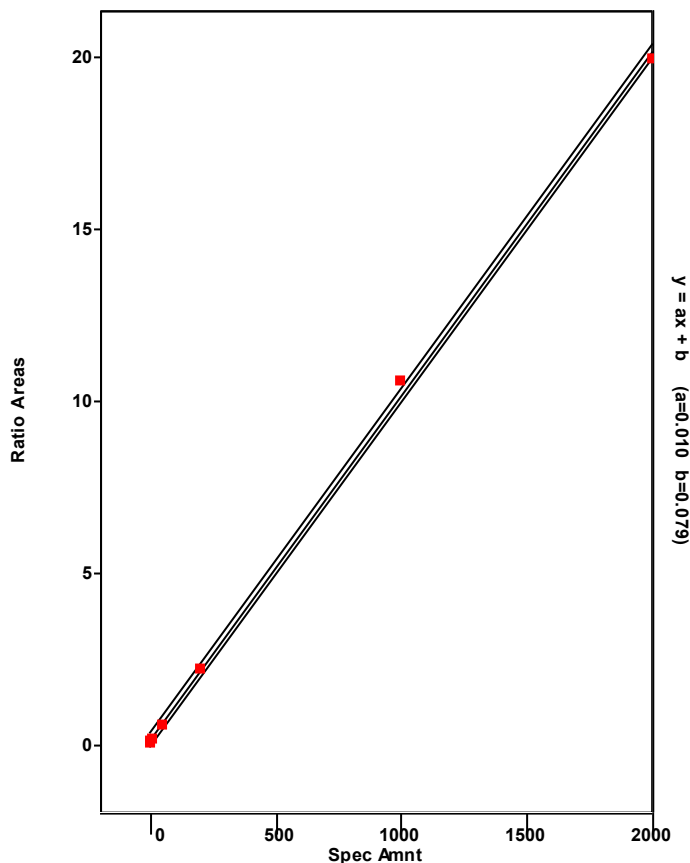


NL:
 1.01E6
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_25

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

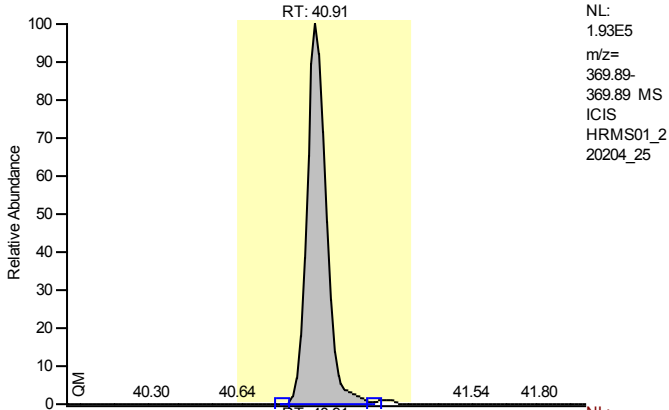
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



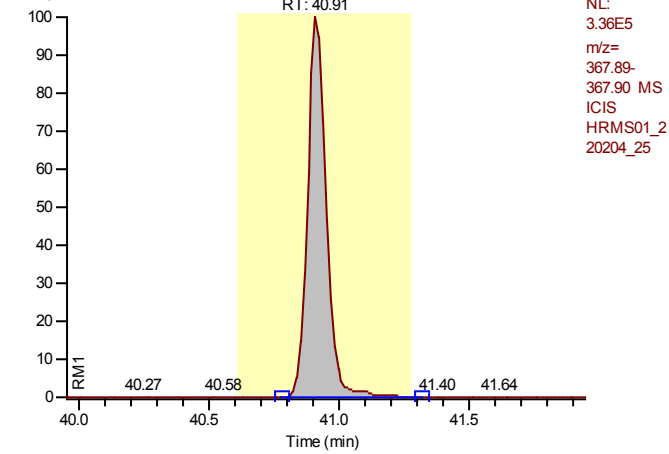
Chromatogram

Entry Parameters

RT: 39.95 - 41.95 SM: 7G



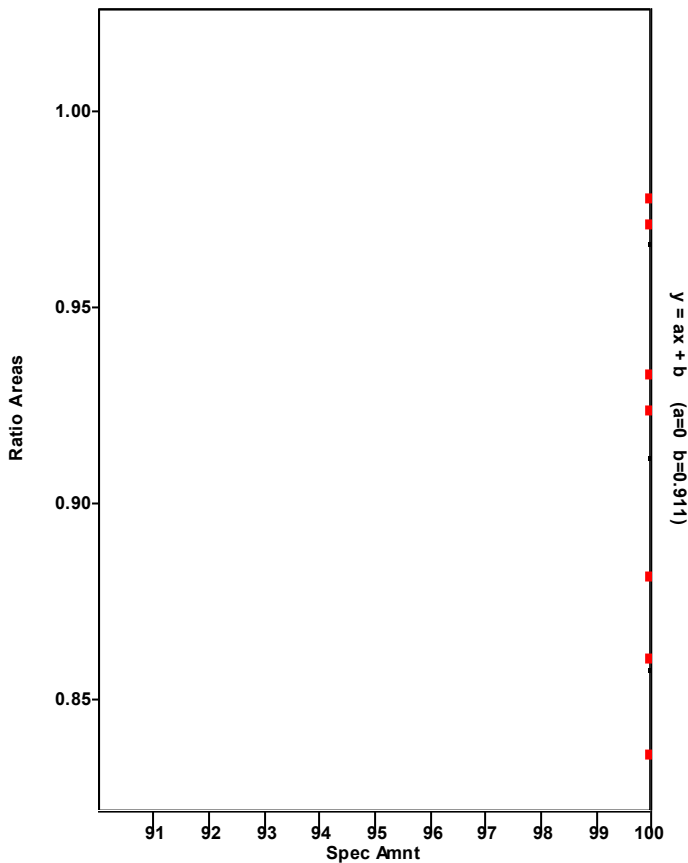
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1013433
RM1 Area	1715666
RM1 Ratio (A)	1.6929
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

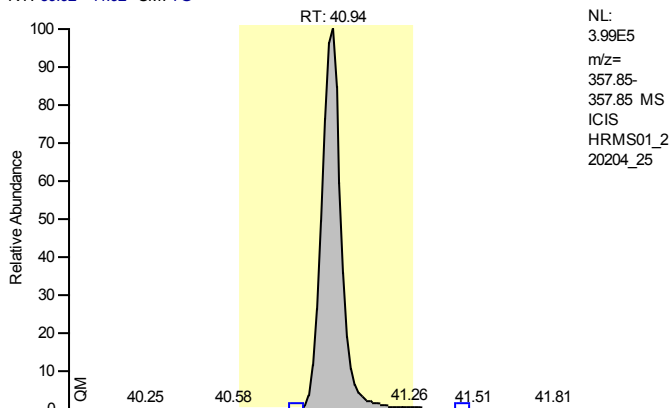
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

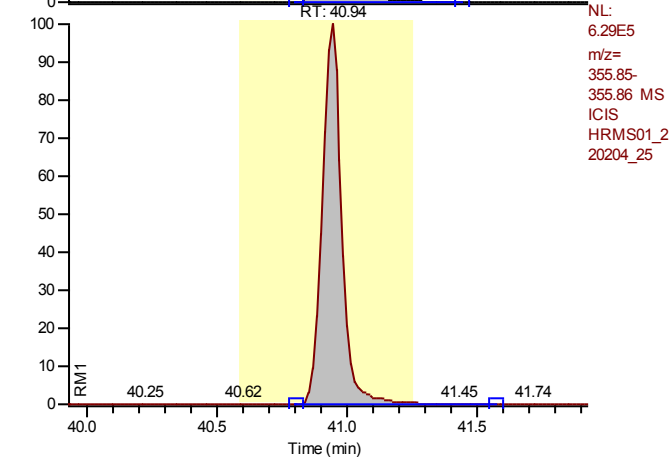
Entry Parameters

RT: 39.92 - 41.92 SM: 7G



NL:
 3.99E5
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	2115637
RM1 Area	3307143
RM1 Ratio (A)	1.5632
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

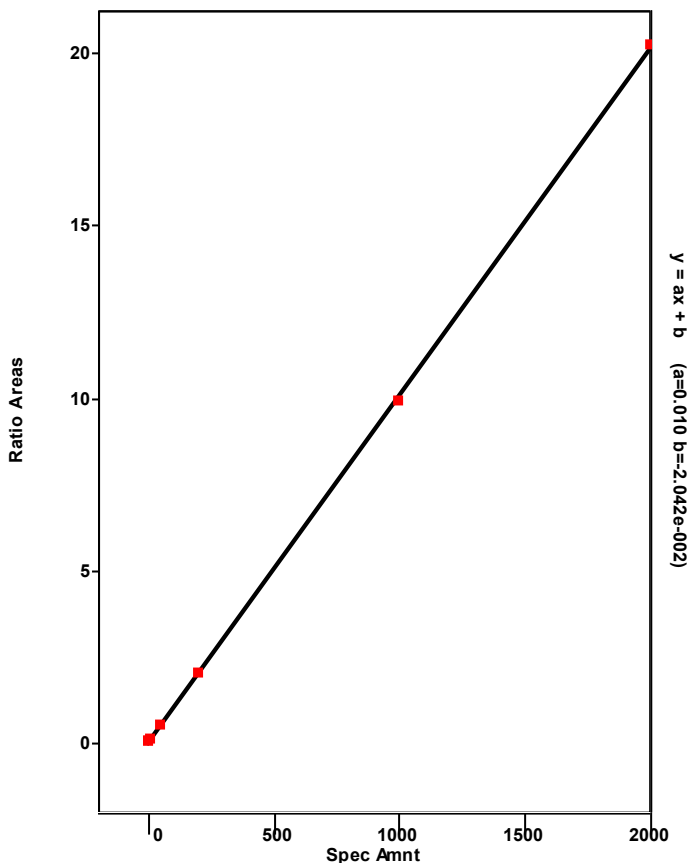


NL:
 6.29E5
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20204_25

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

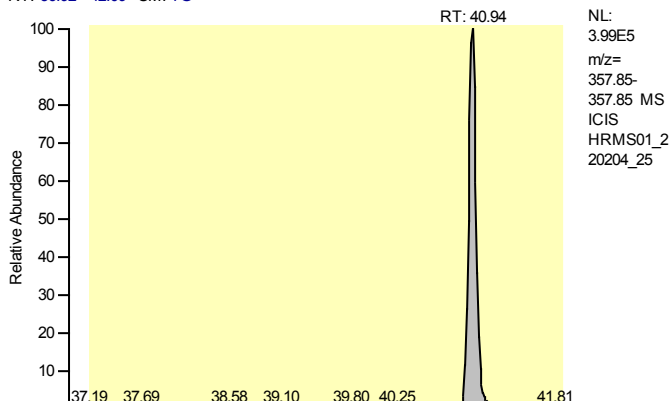
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



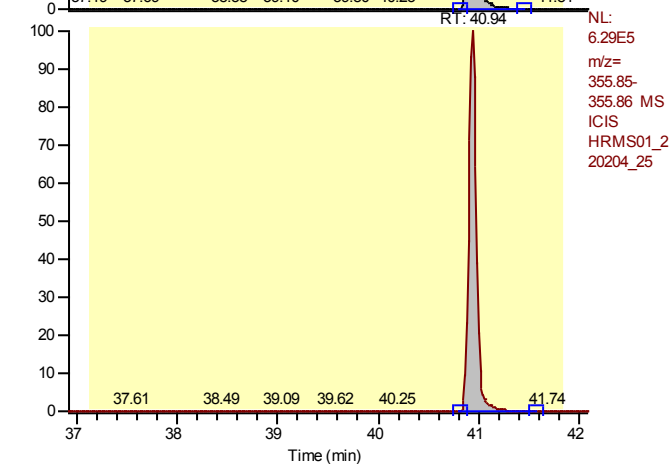
Chromatogram

Entry Parameters

RT: 36.92 - 42.09 SM: 7G



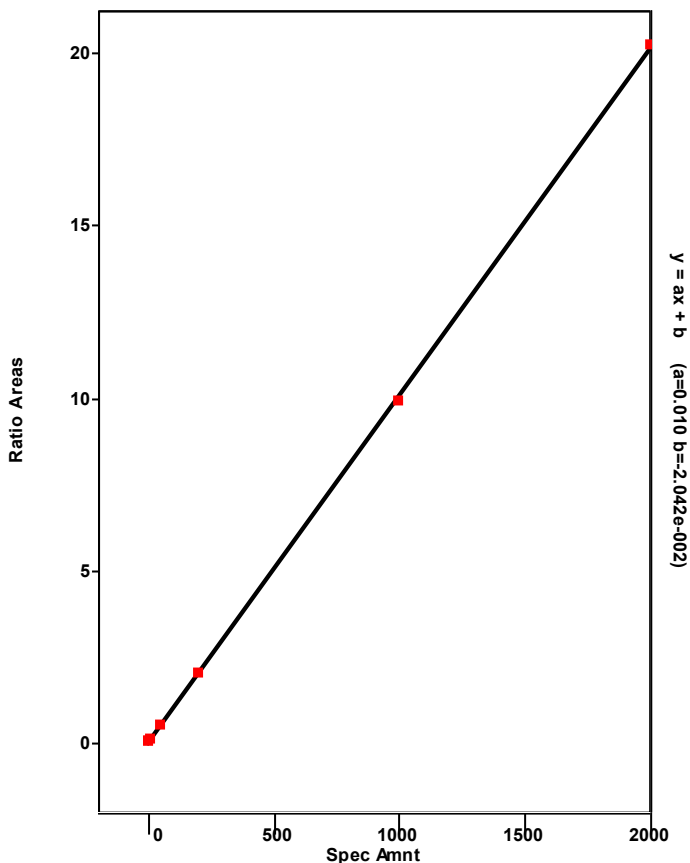
Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	2115637
RM1 Area	3307143
RM1 Ratio (A)	1.5632
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

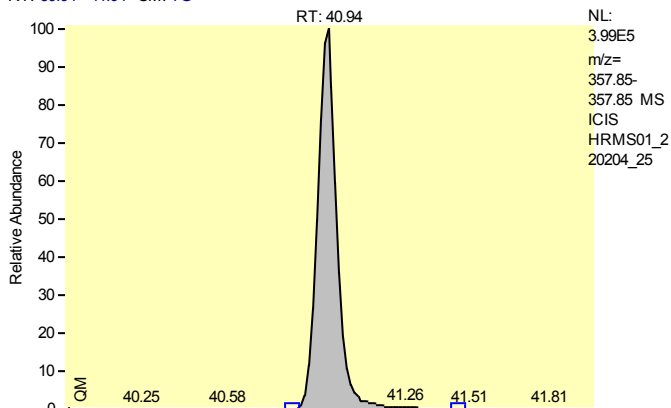
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

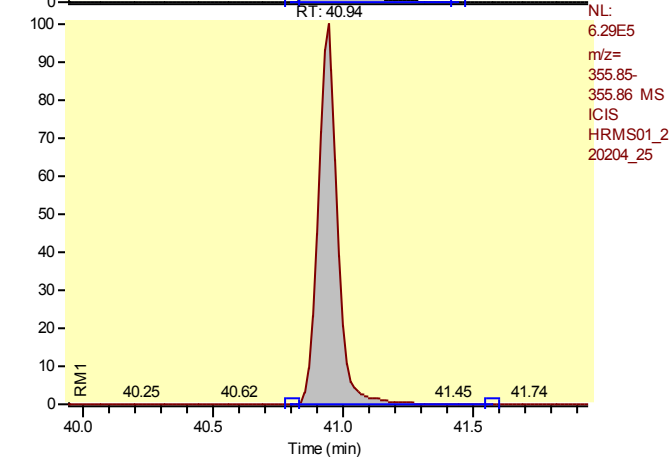
Entry Parameters

RT: 39.94 - 41.94 SM: 7G



NL:
 3.99E5
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	2115637
RM1 Area	3307143
RM1 Ratio (A)	1.5632
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

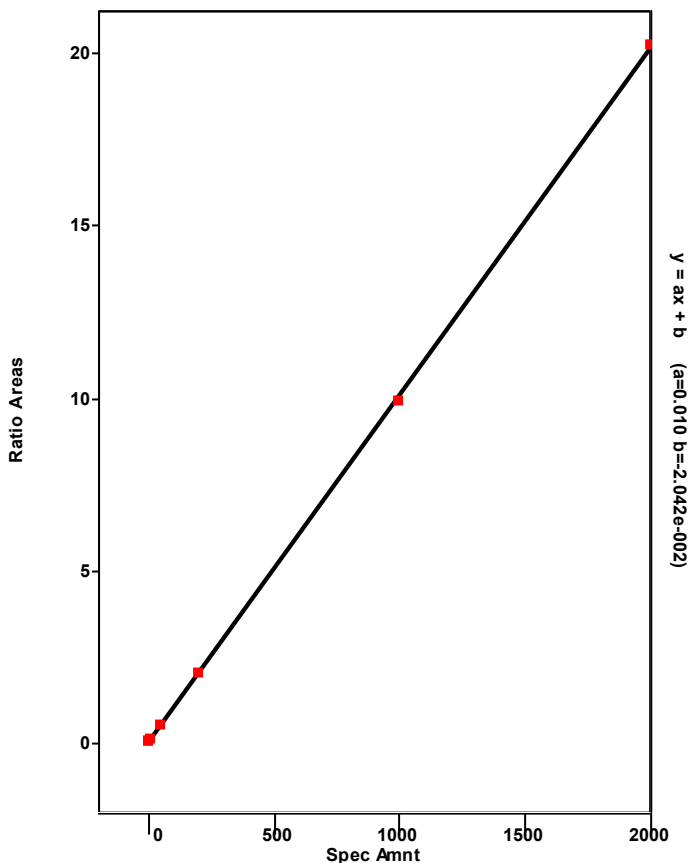


NL:
 6.29E5
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20204_25

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

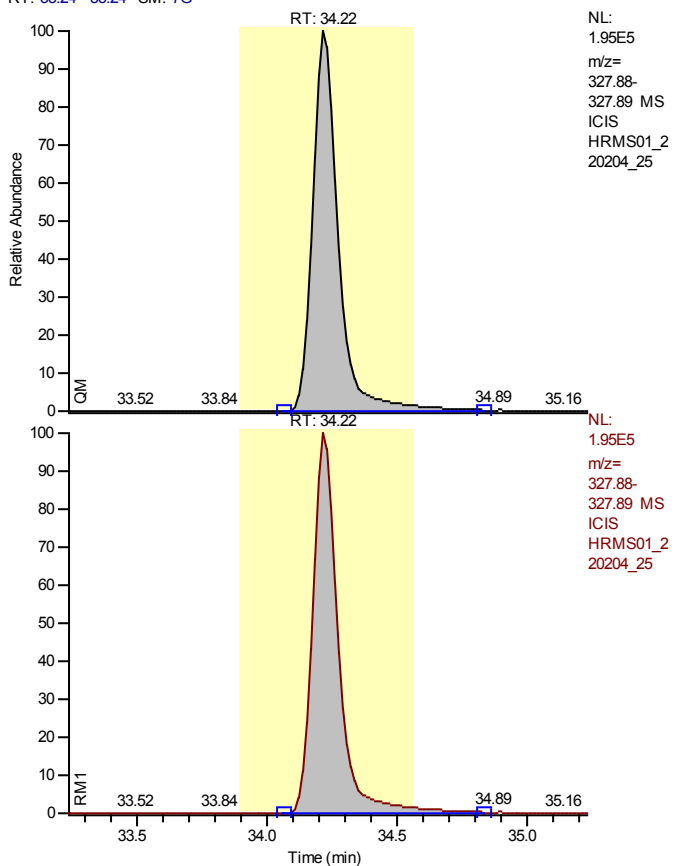
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G



NL:
 1.95E5
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_25

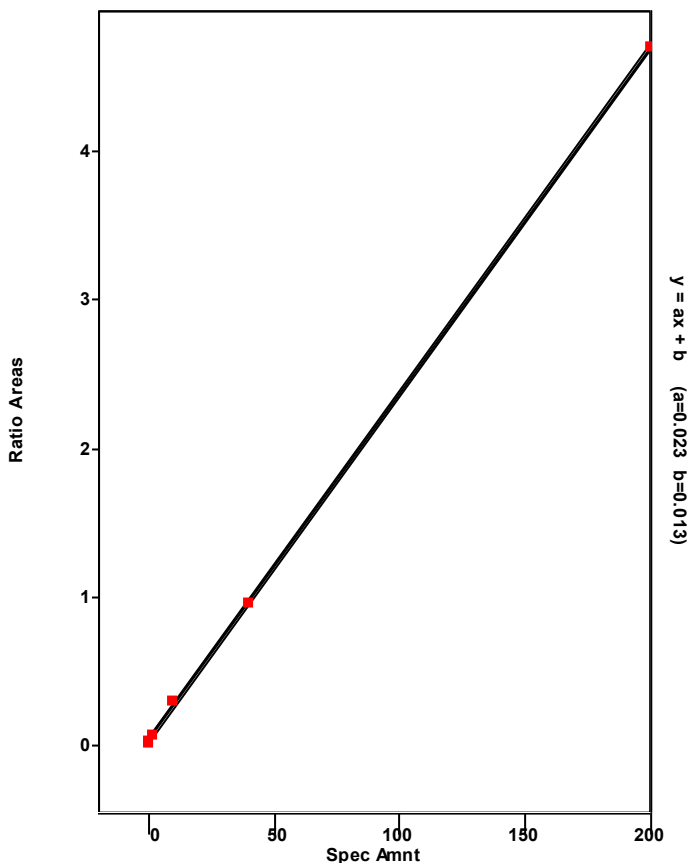
NL:
 1.95E5
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	1317314
RM1 Area	1317314
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	40.00
Calculated Amount (A)	40.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

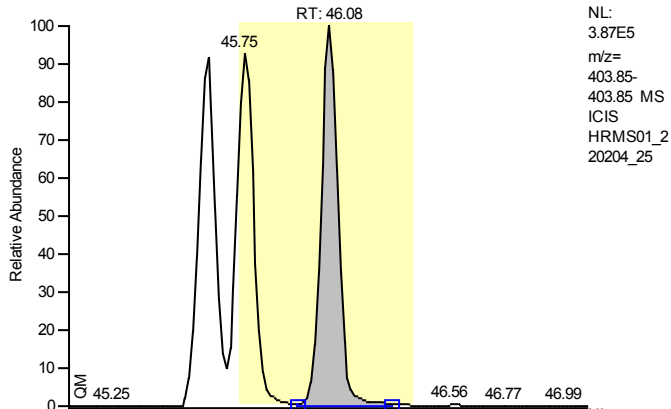
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



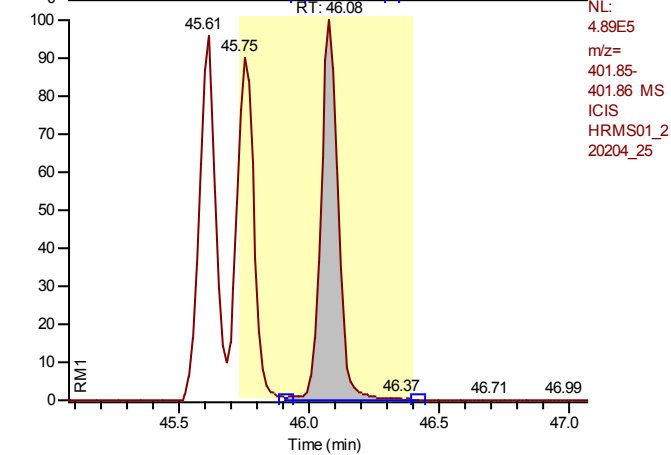
Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G



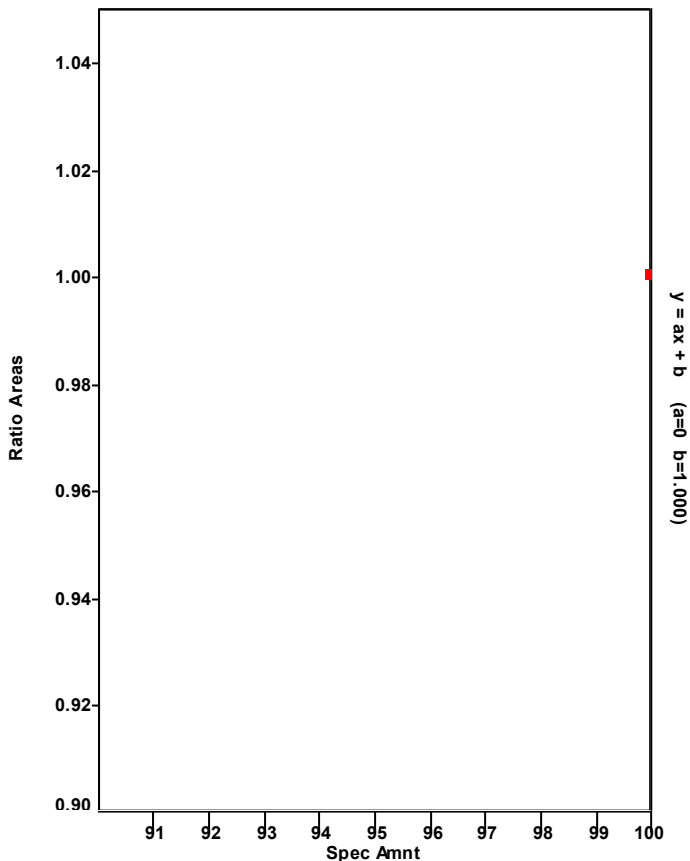
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1786572
RM1 Area	2269151
RM1 Ratio (A)	1.2701
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

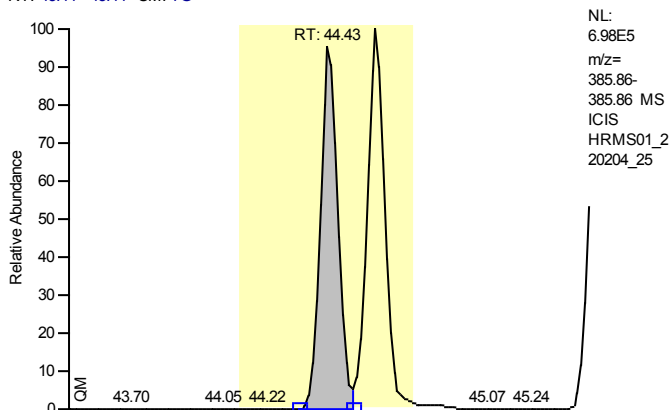
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



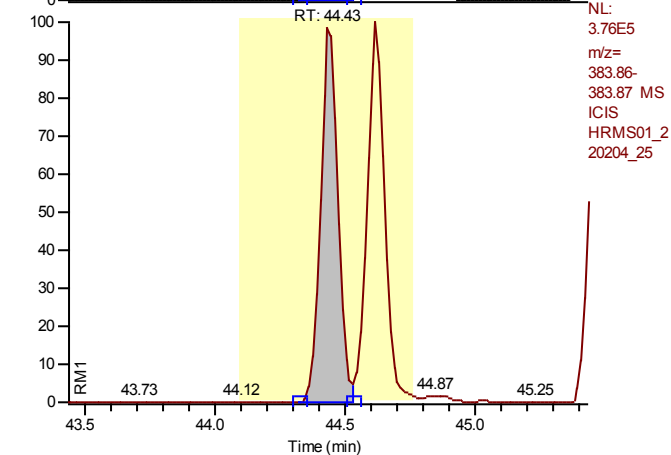
Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G



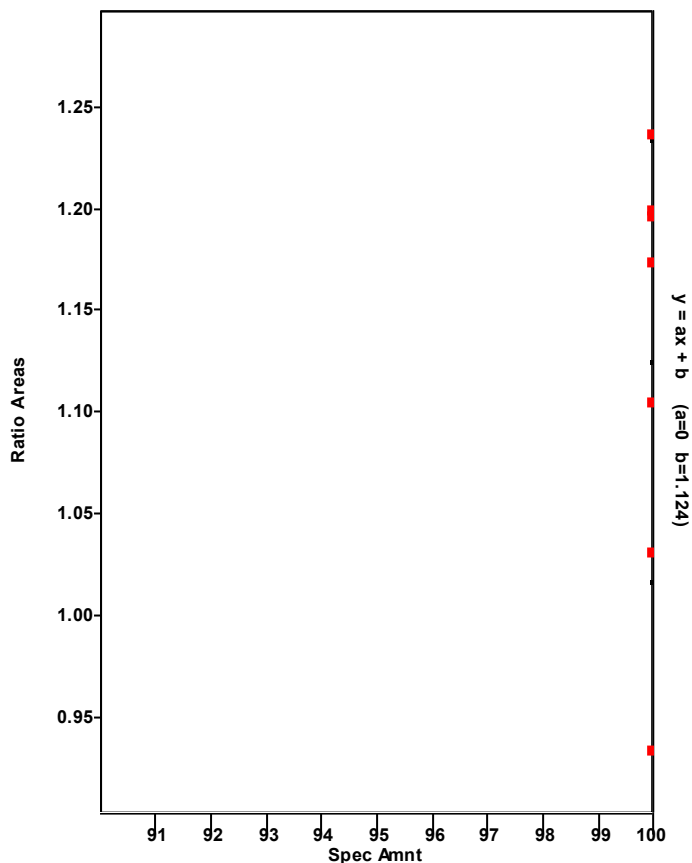
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	3127172
RM1 Area	1728631
RM1 Ratio (A)	0.5528
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

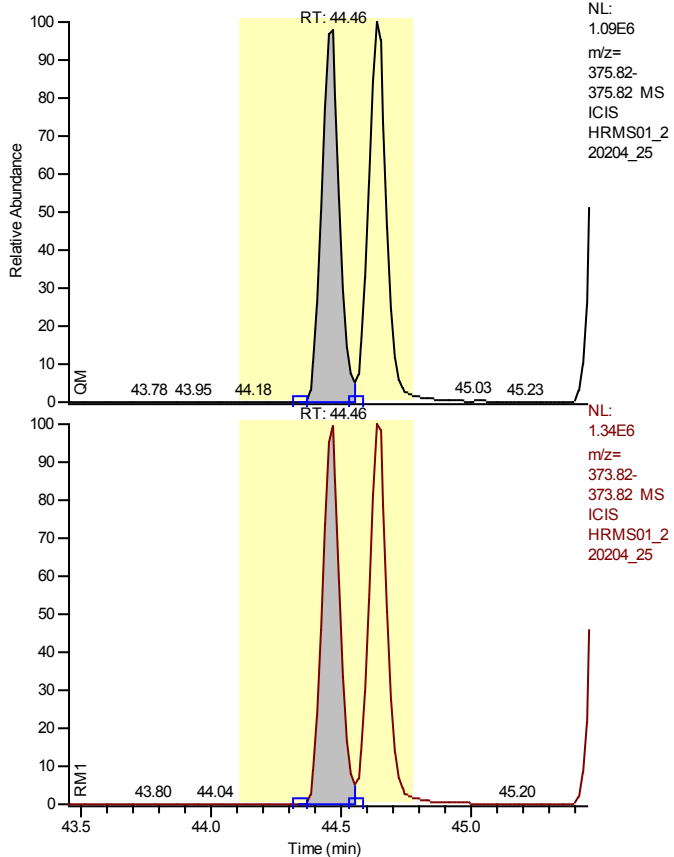
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

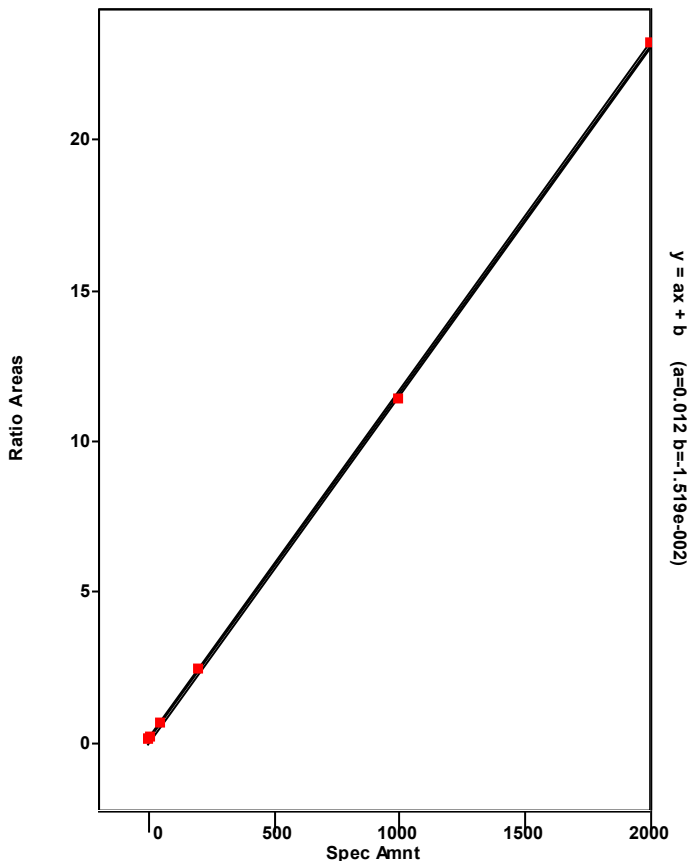


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	5072124
RM1 Area	6308640
RM1 Ratio (A)	1.2438
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

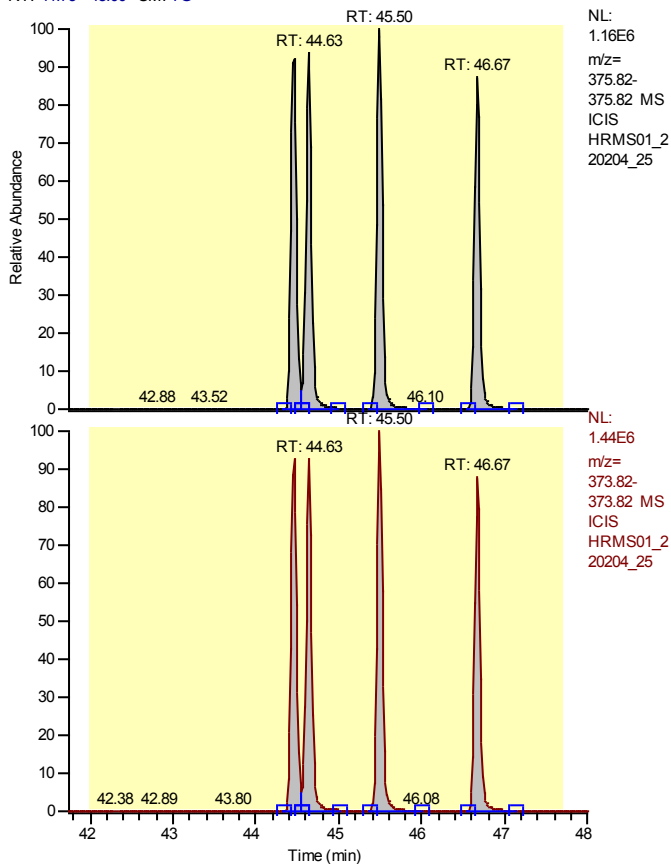
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.73 - 48.00 SM: 7G

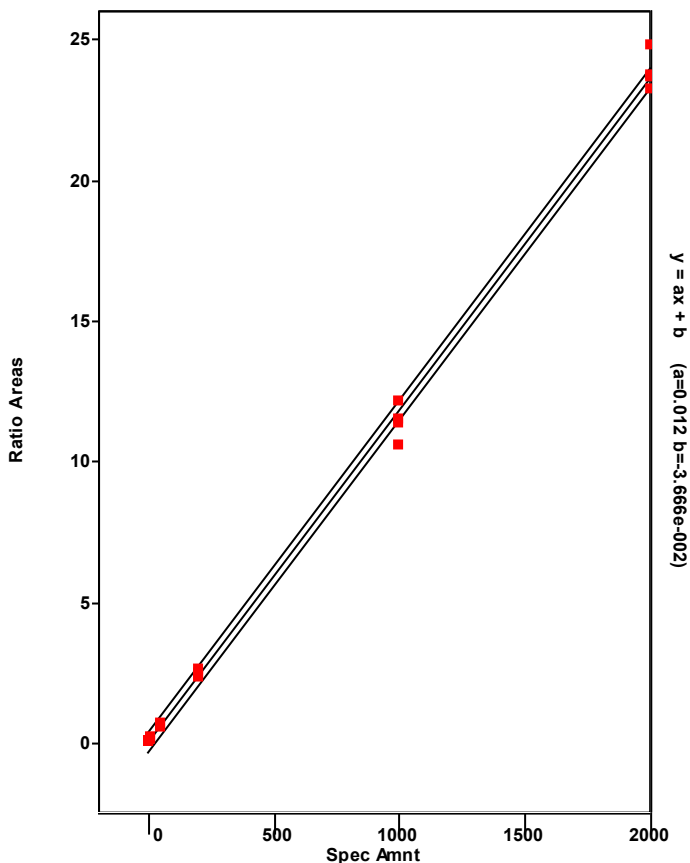


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	20766877
RM1 Area	25819196
RM1 Ratio (A)	1.2433
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	800.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

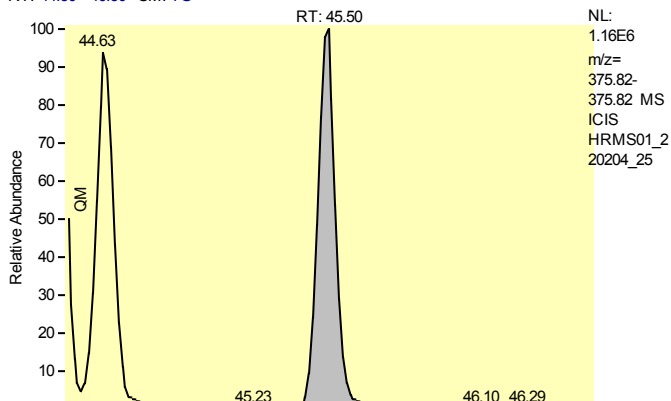
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



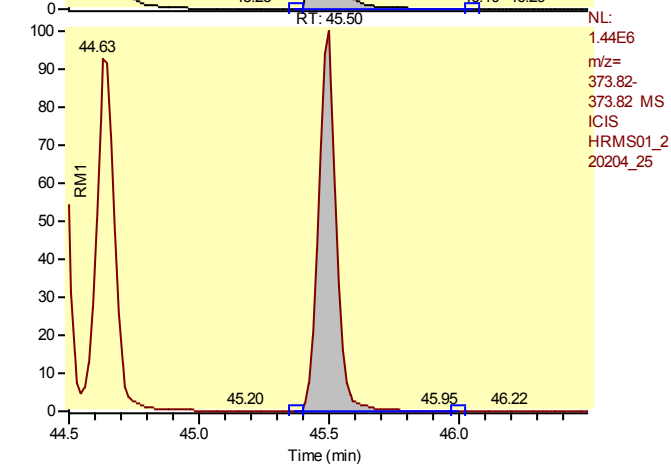
Chromatogram

Entry Parameters

RT: 44.50 - 46.50 SM: 7G



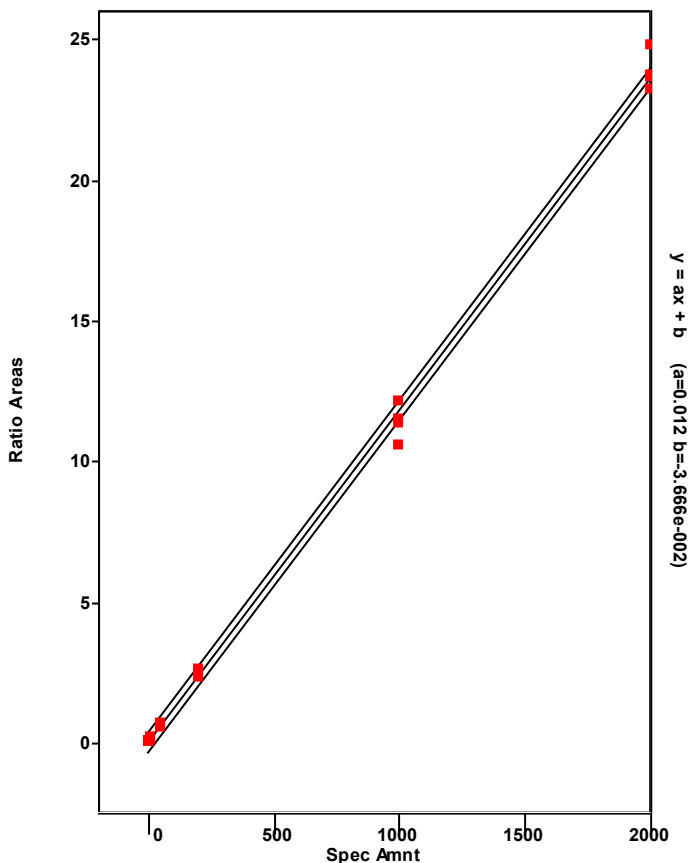
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	5541656
RM1 Area	6820707
RM1 Ratio (A)	1.2308
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

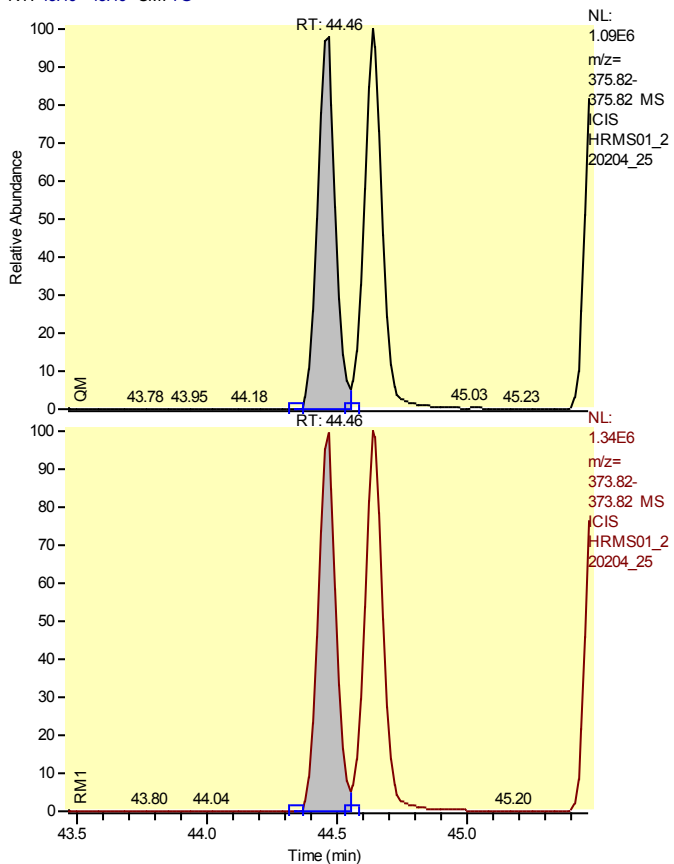
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.46 - 45.46 SM: 7G

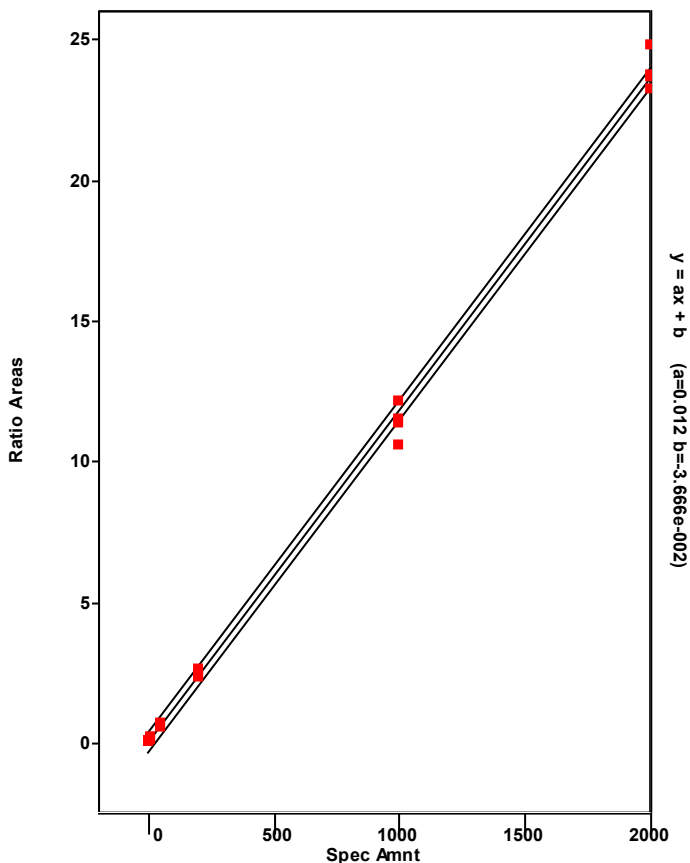


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	5072124
RM1 Area	6308640
RM1 Ratio (A)	1.2438
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

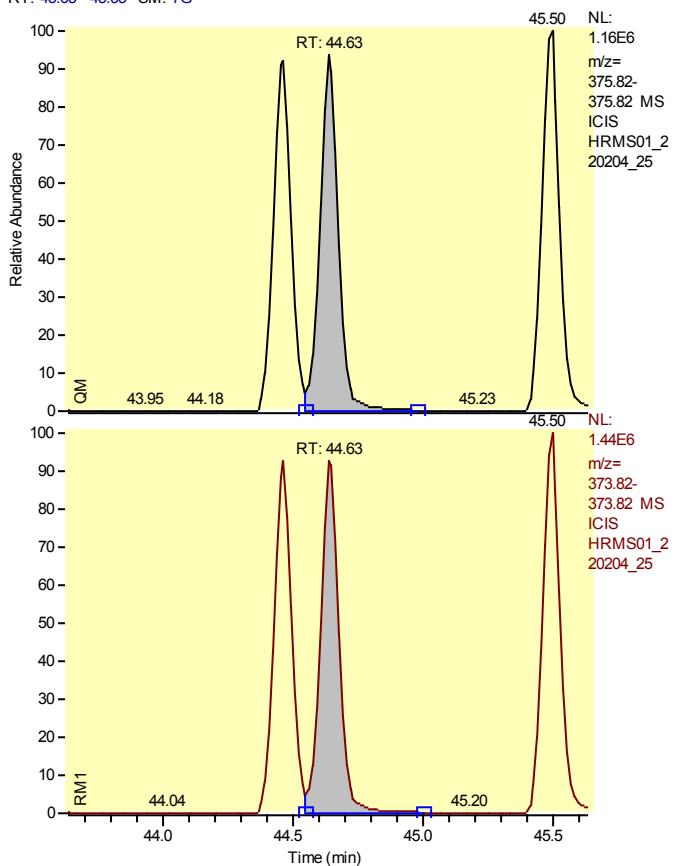
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

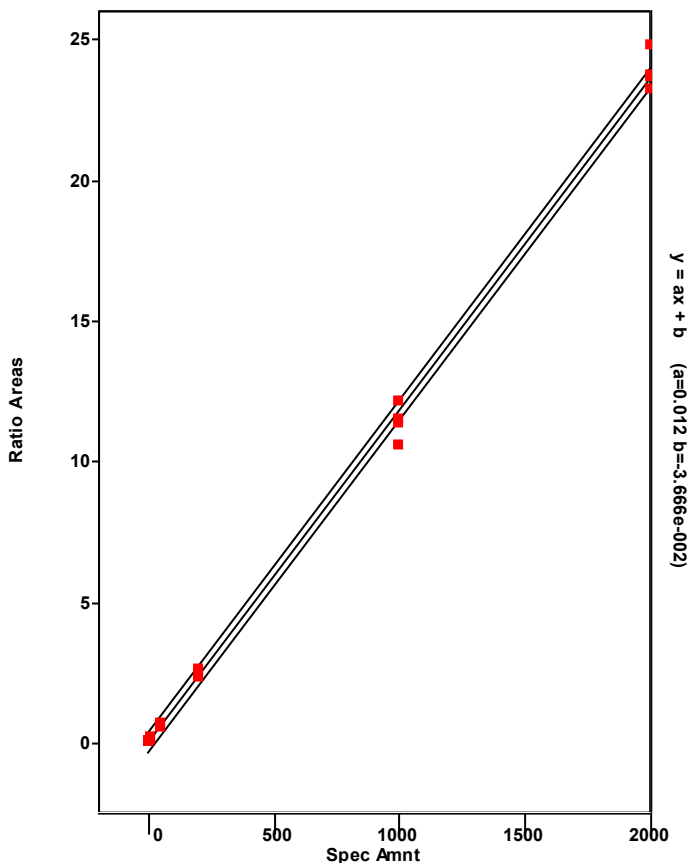


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	5279498
RM1 Area	6591428
RM1 Ratio (A)	1.2485
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

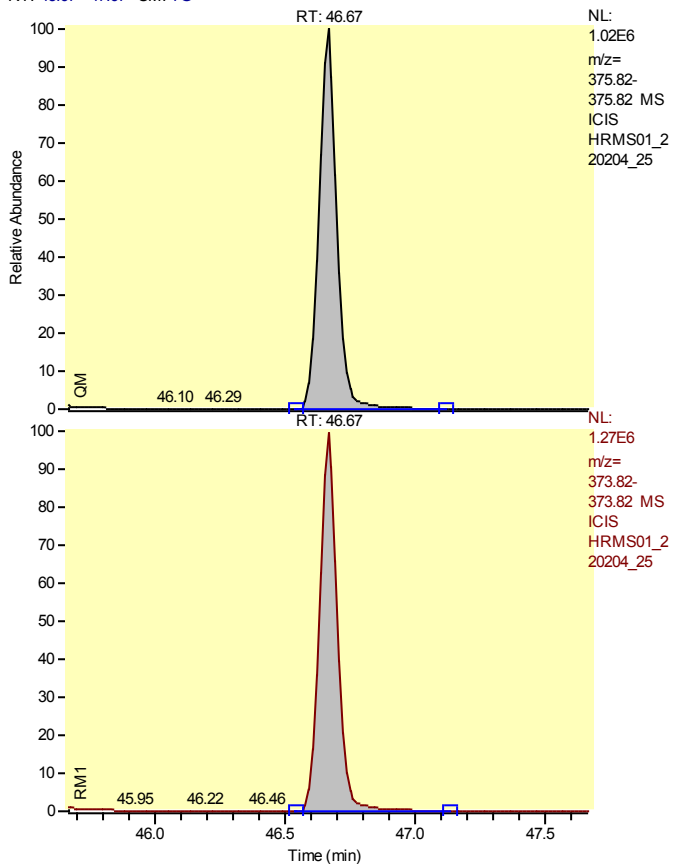
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

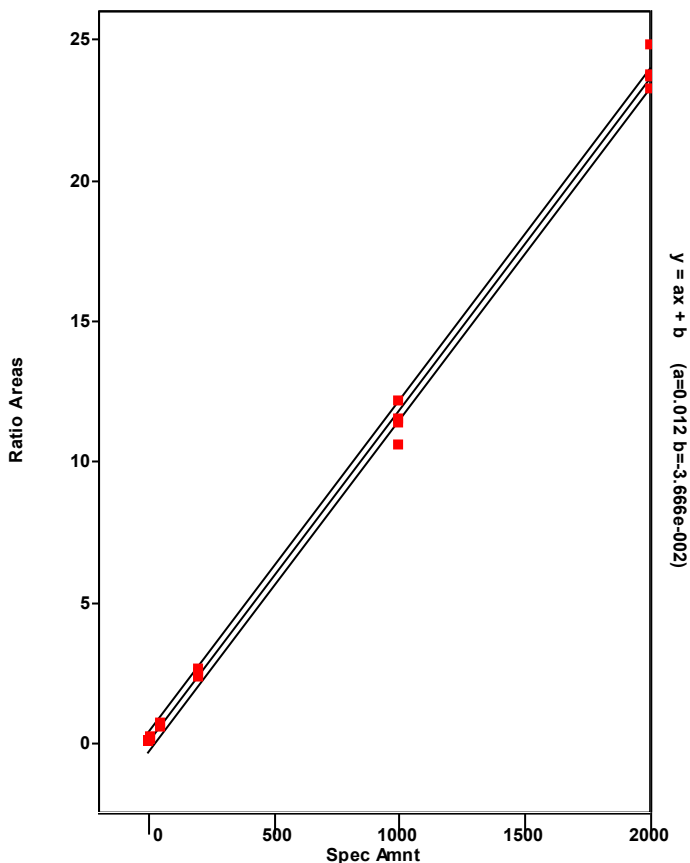


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	4873599
RM1 Area	6098420
RM1 Ratio (A)	1.2513
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

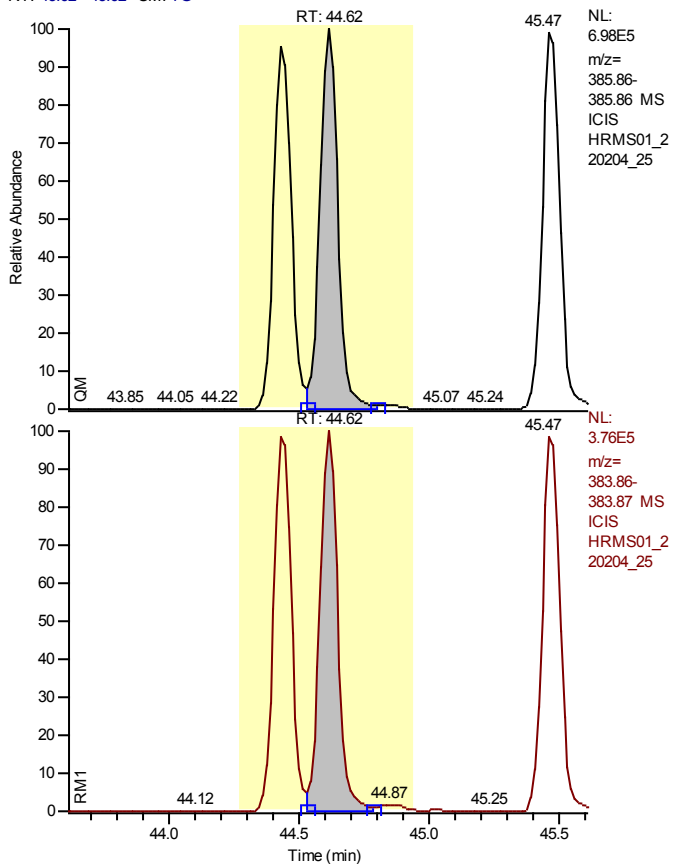
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

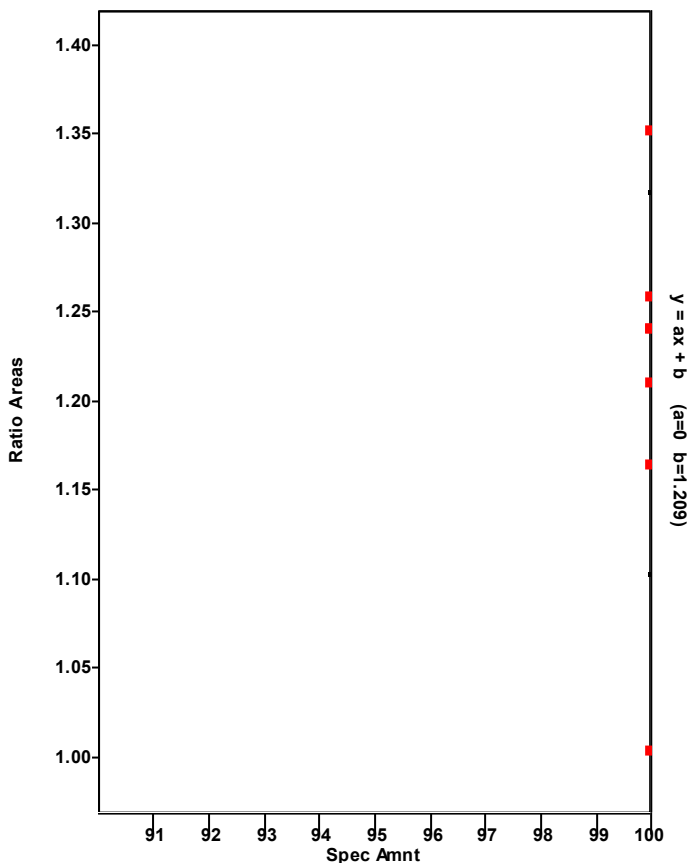


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	3324043
RM1 Area	1774904
RM1 Ratio (A)	0.5340
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

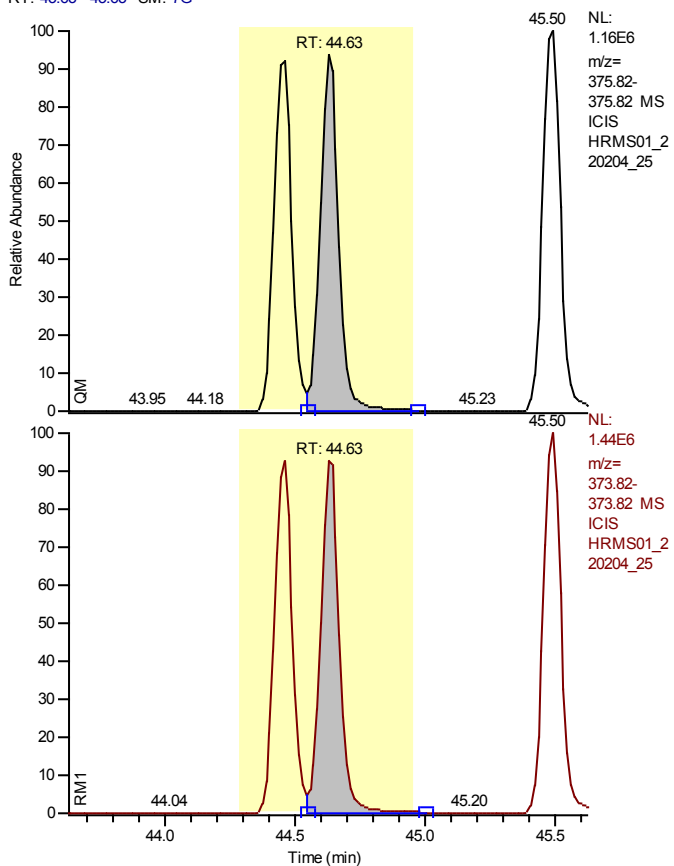
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

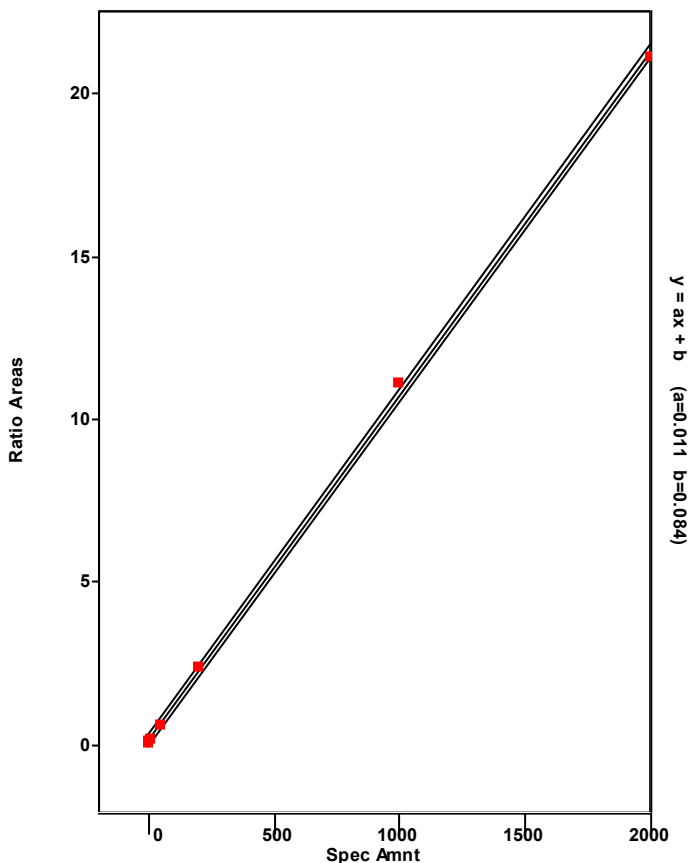


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	5279498
RM1 Area	6591428
RM1 Ratio (A)	1.2485
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

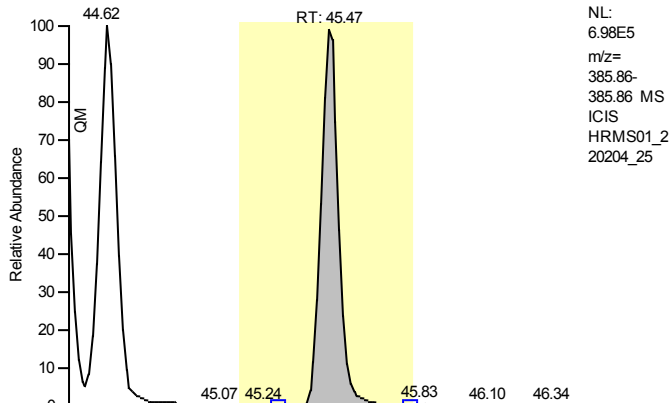
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

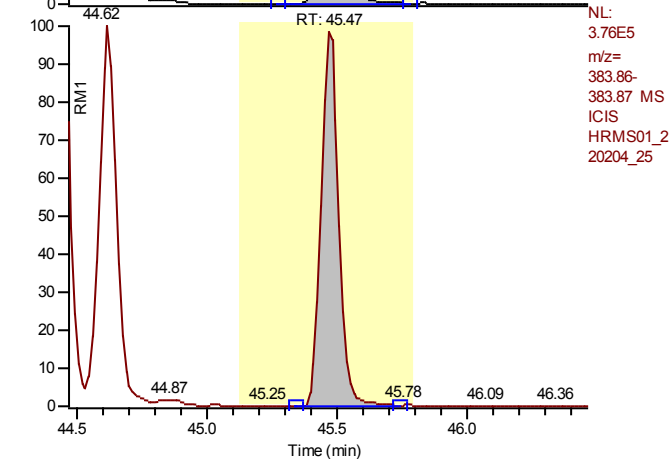
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
6.98E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20204_25

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	3294859
RM1 Area	1763242
RM1 Ratio (A)	0.5351
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

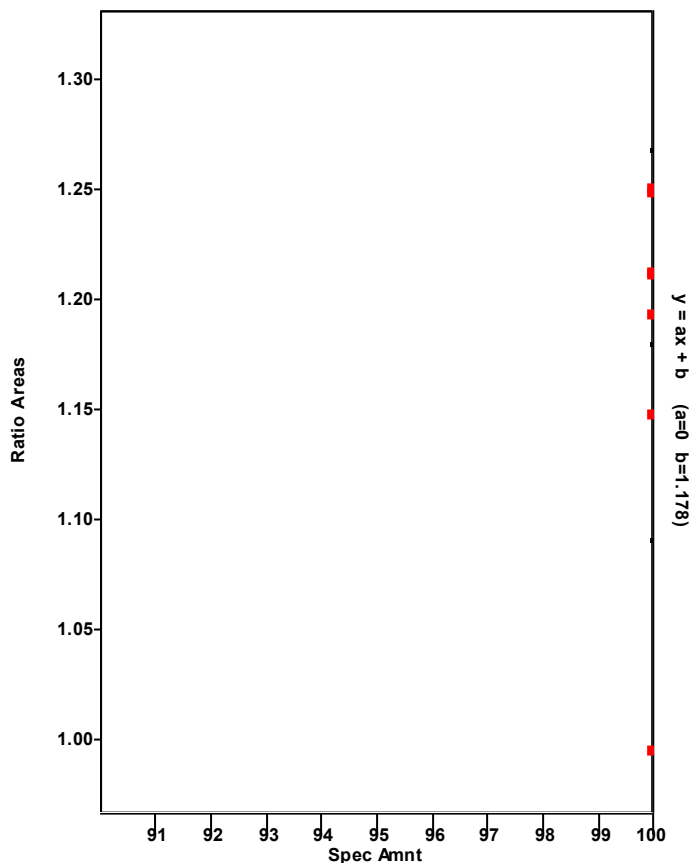


NL:
3.76E5
m/z=
383.86-
383.87 MS
ICIS
HRMS01_2
20204_25

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

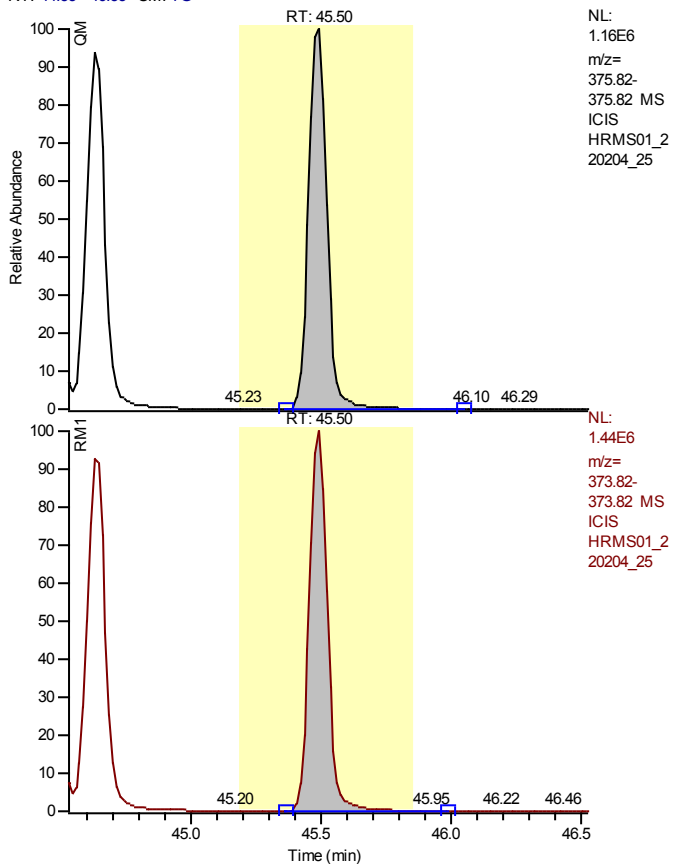
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.53 - 46.53 SM: 7G

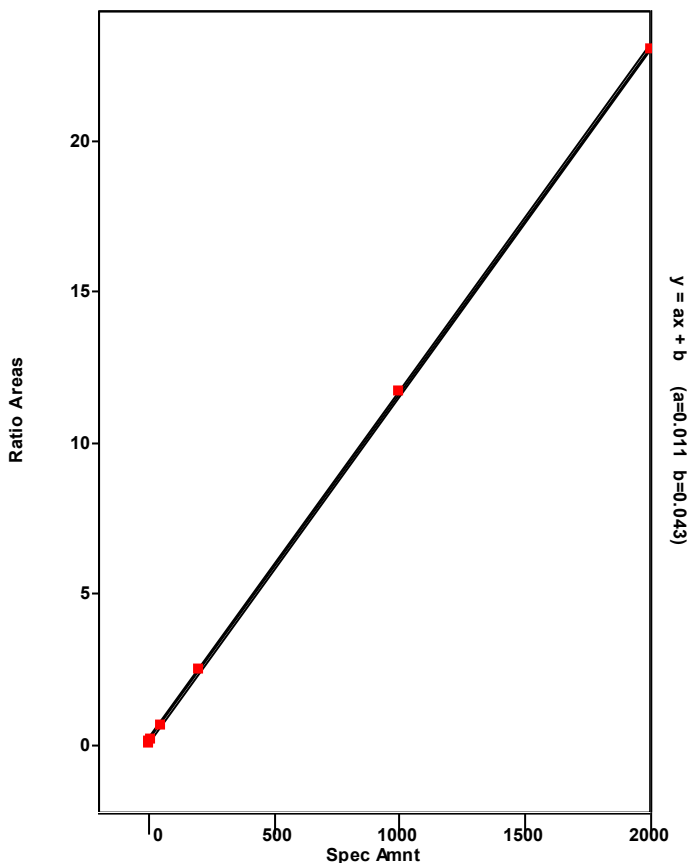


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	5541656
RM1 Area	6820707
RM1 Ratio (A)	1.2308
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

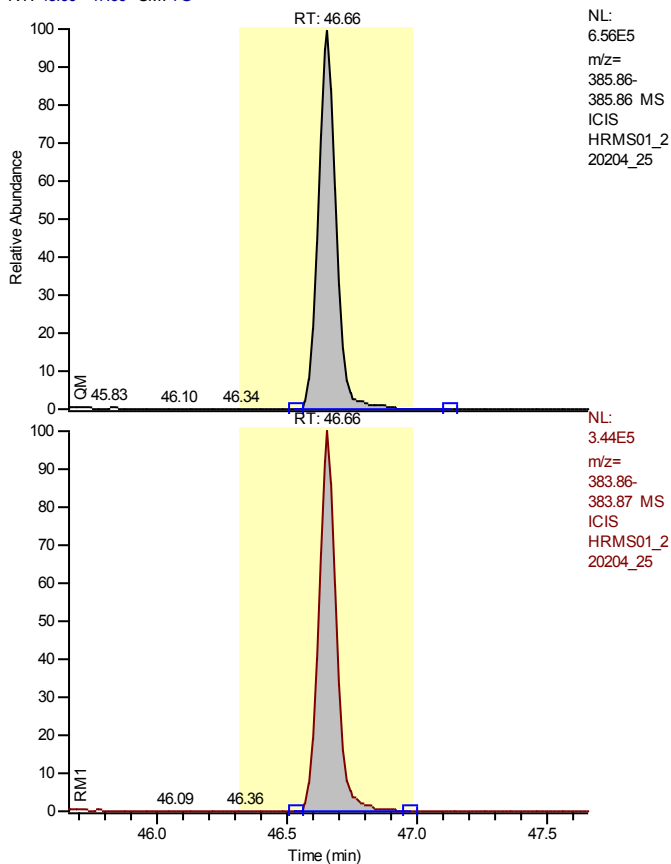
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

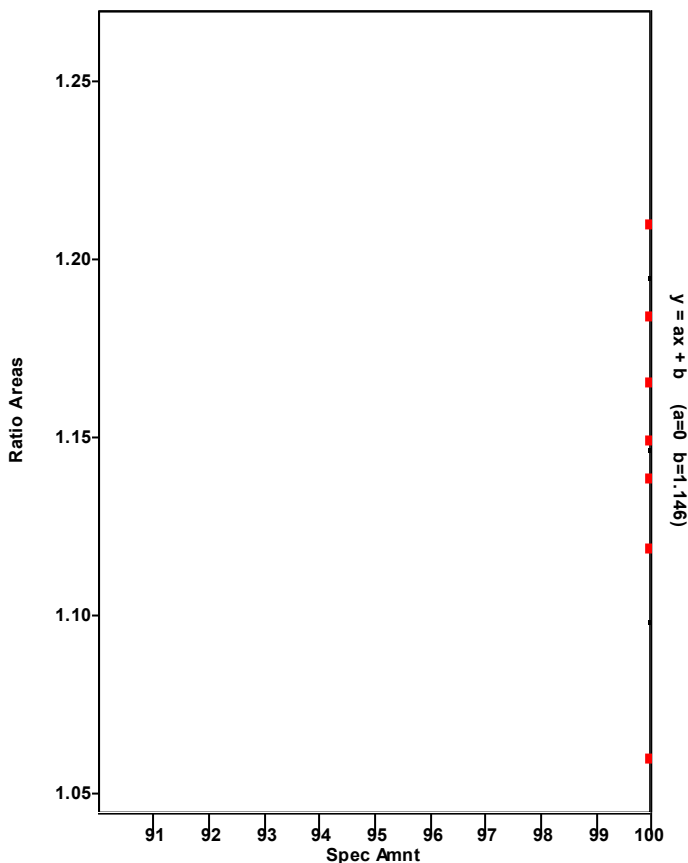


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	3160045
RM1 Area	1639031
RM1 Ratio (A)	0.5187
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

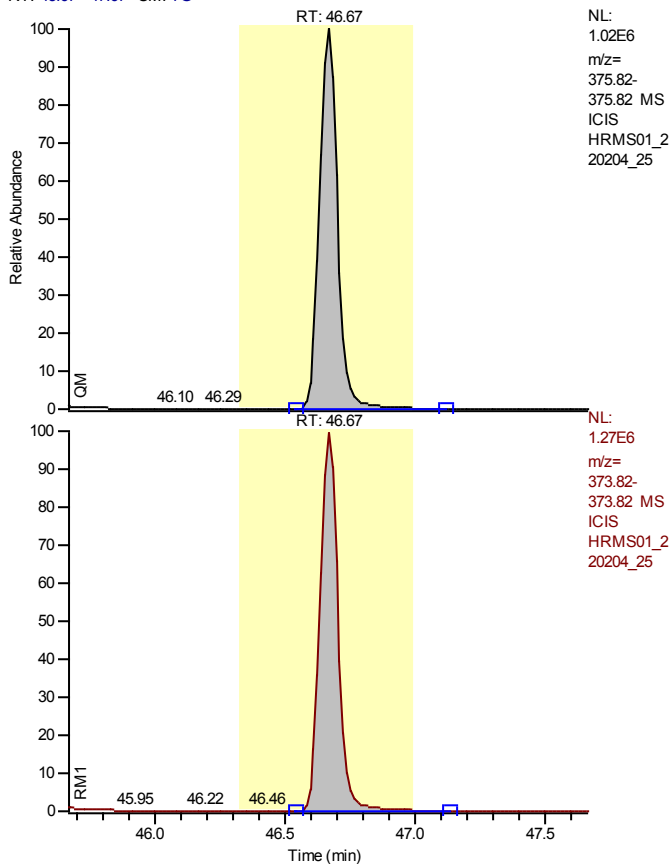
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G



NL:
 1.02E6
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_25

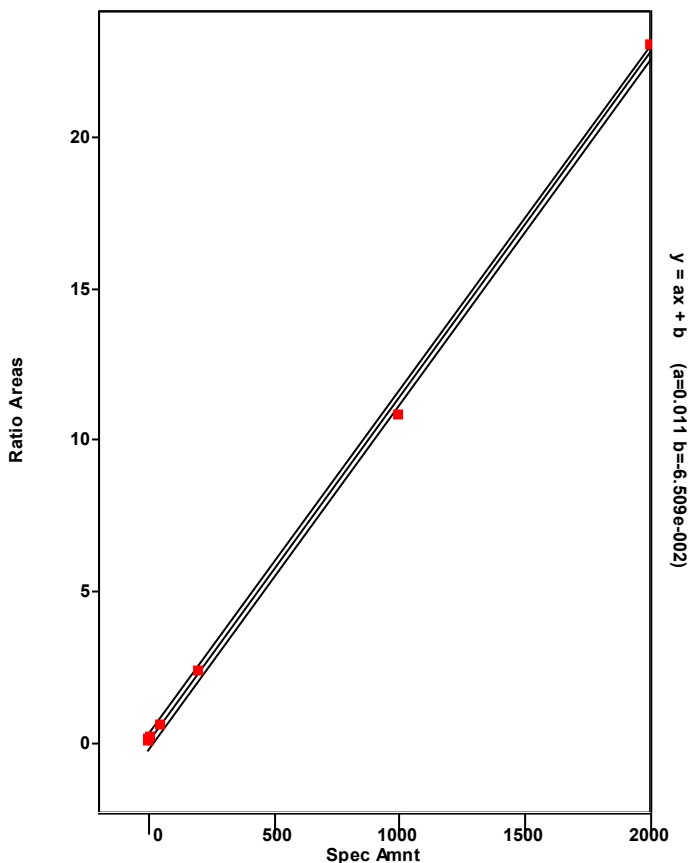
NL:
 1.27E6
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	4873599
RM1 Area	6098420
RM1 Ratio (A)	1.2513
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

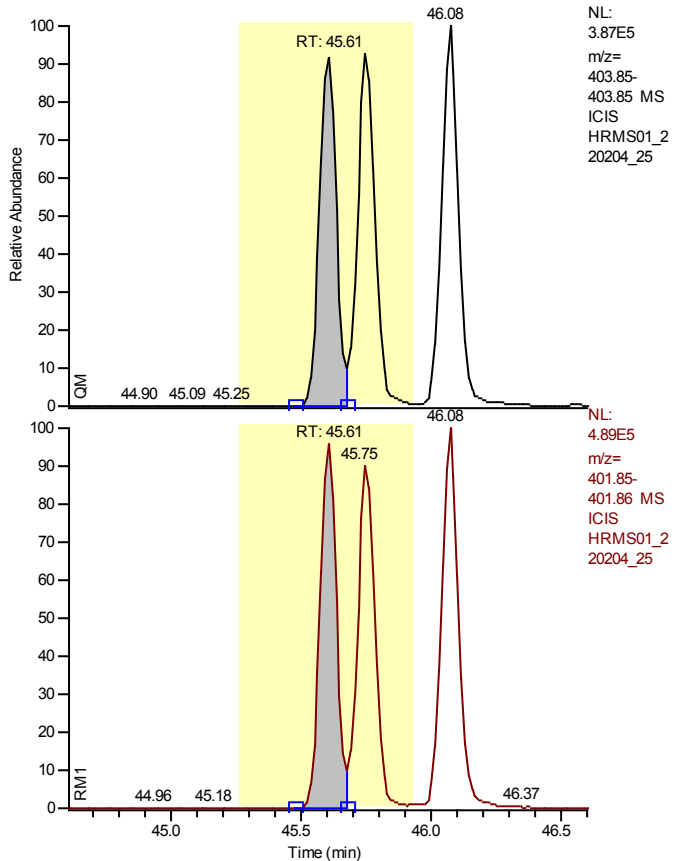
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

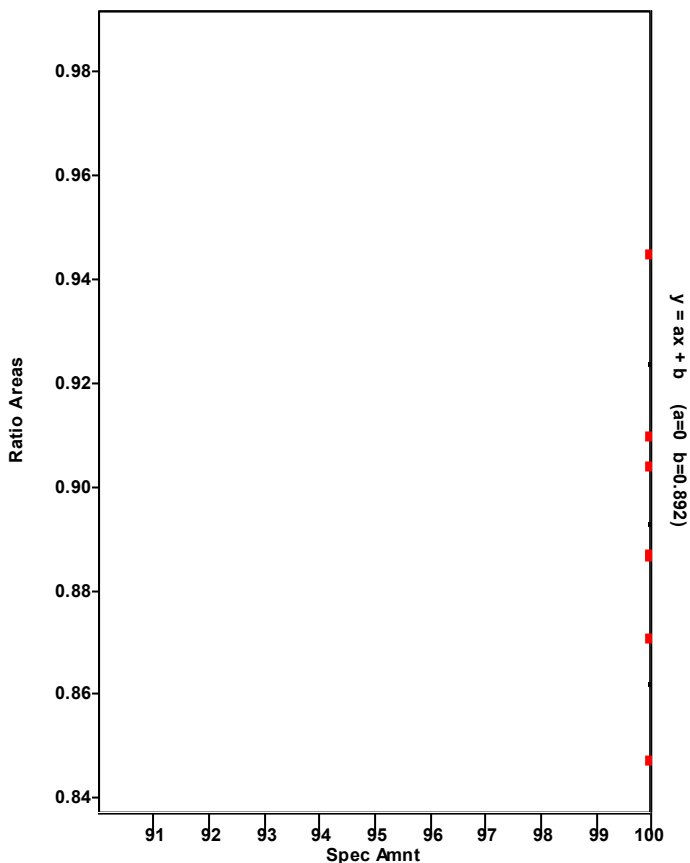
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1613961
RM1 Area	2049797
RM1 Ratio (A)	1.2700
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

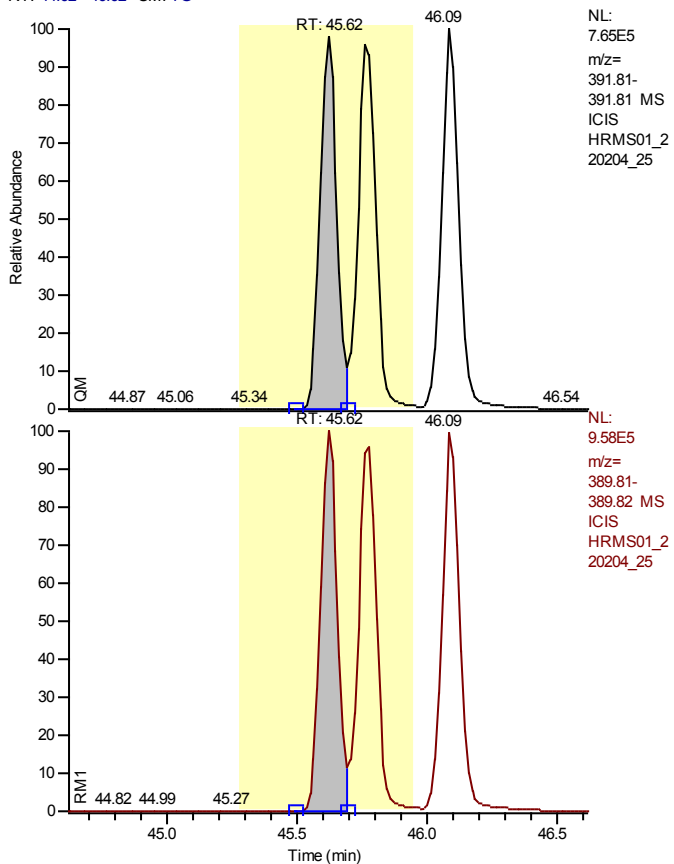
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G

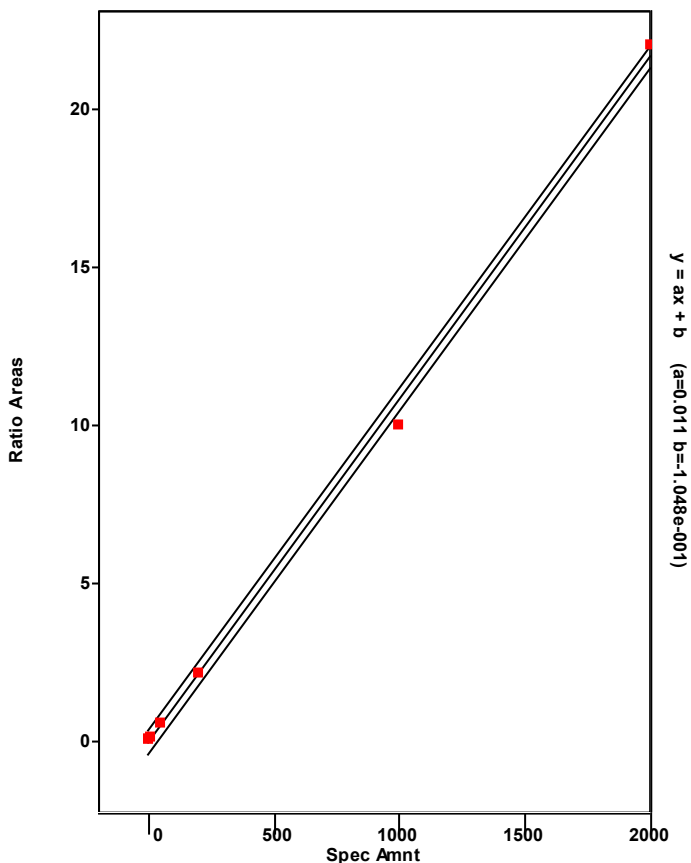


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	3348935
RM1 Area	4282712
RM1 Ratio (A)	1.2788
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

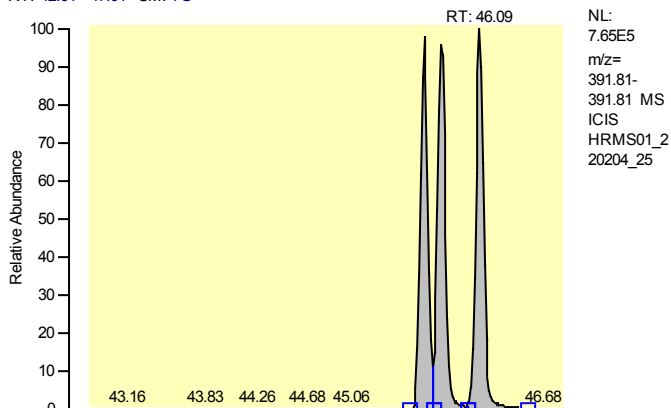
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



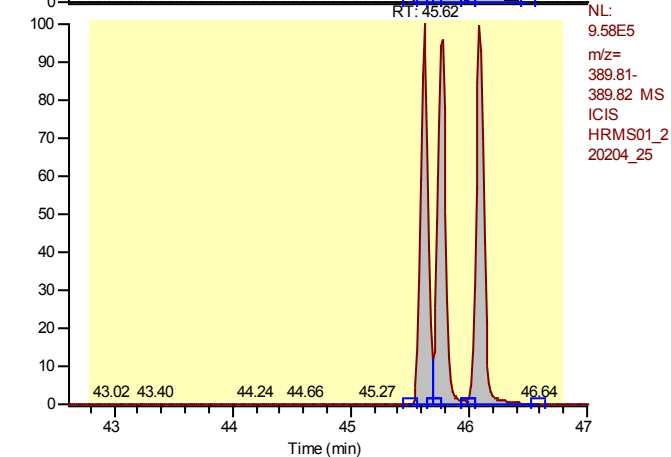
Chromatogram

Entry Parameters

RT: 42.61 - 47.01 SM: 7G



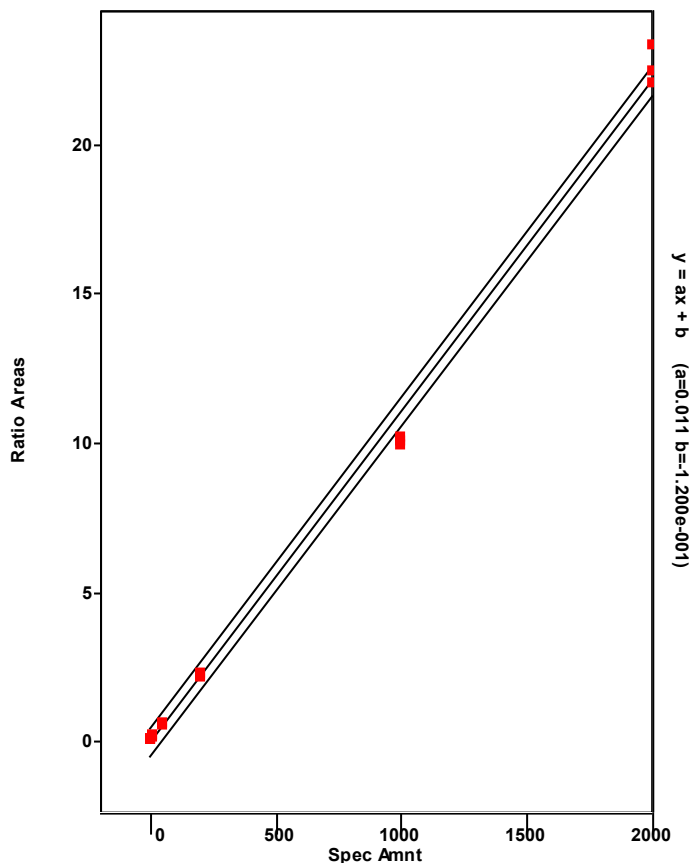
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	10432916
RM1 Area	13223321
RM1 Ratio (A)	1.2675
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	600.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

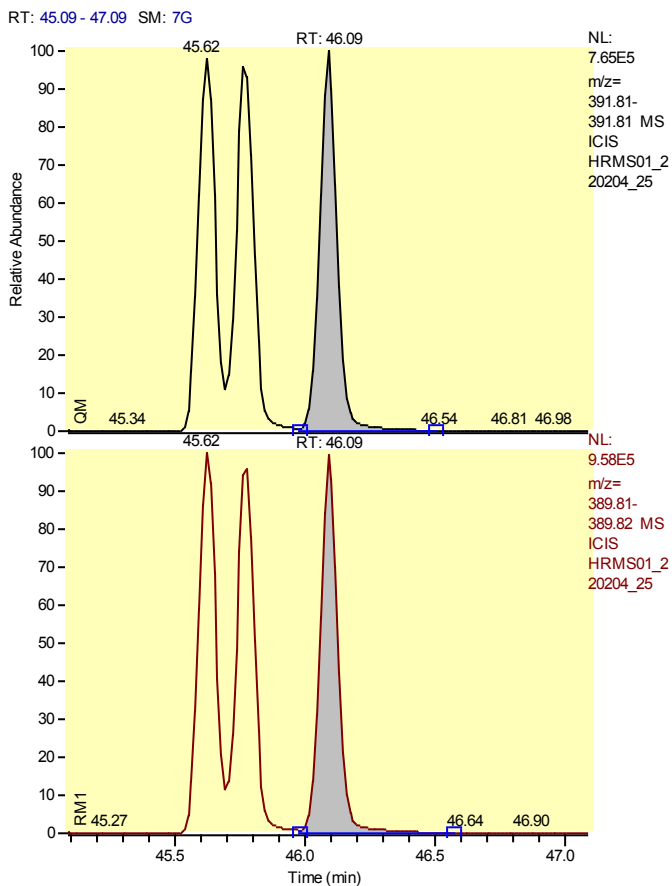
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

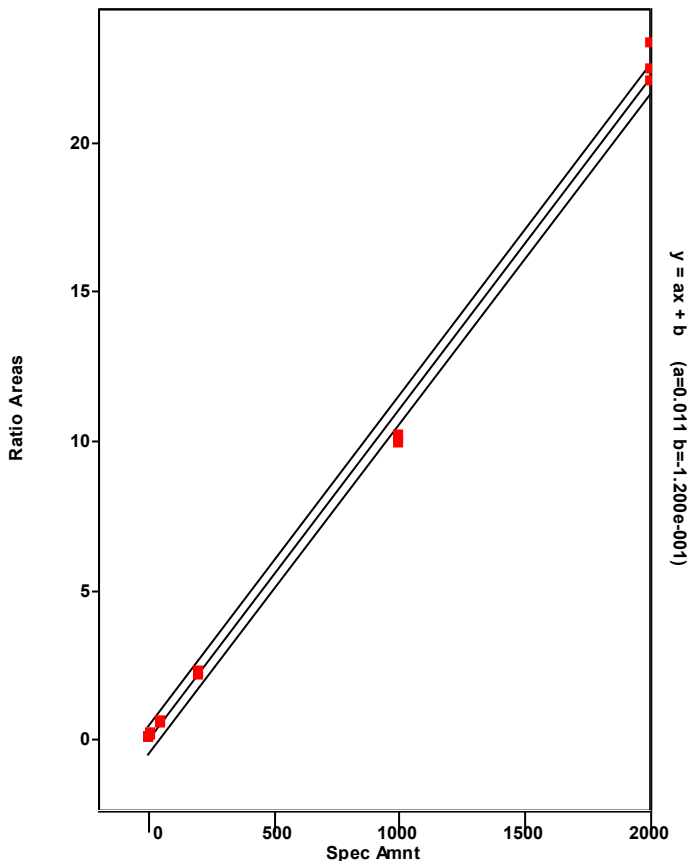


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	3567405
RM1 Area	4499765
RM1 Ratio (A)	1.2614
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

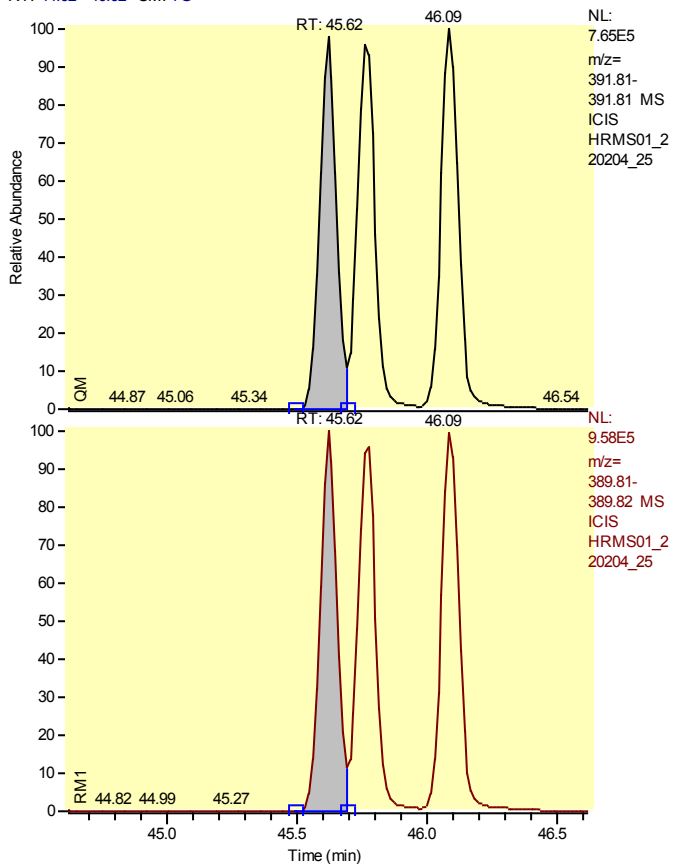
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G

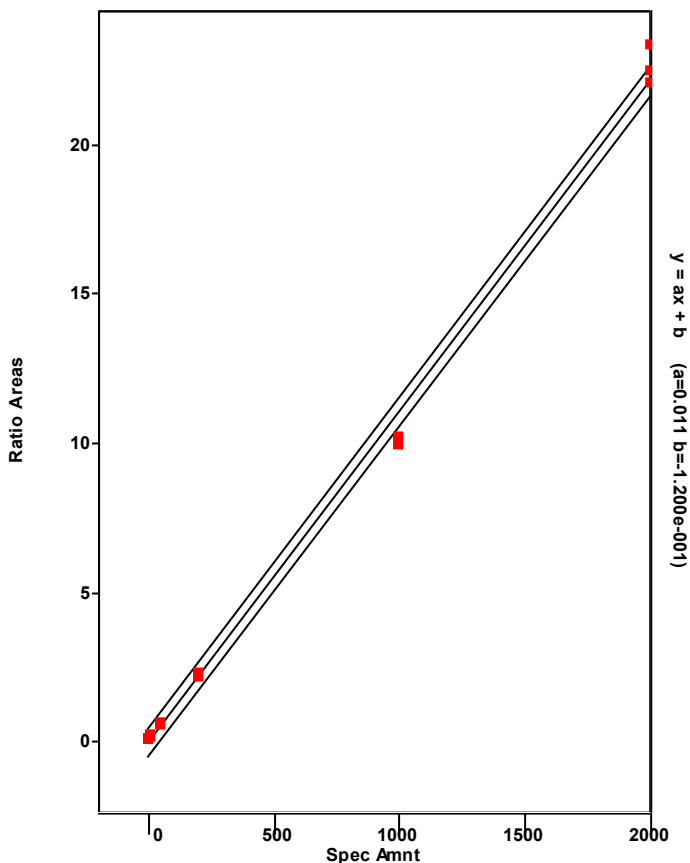


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	3348935
RM1 Area	4282712
RM1 Ratio (A)	1.2788
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

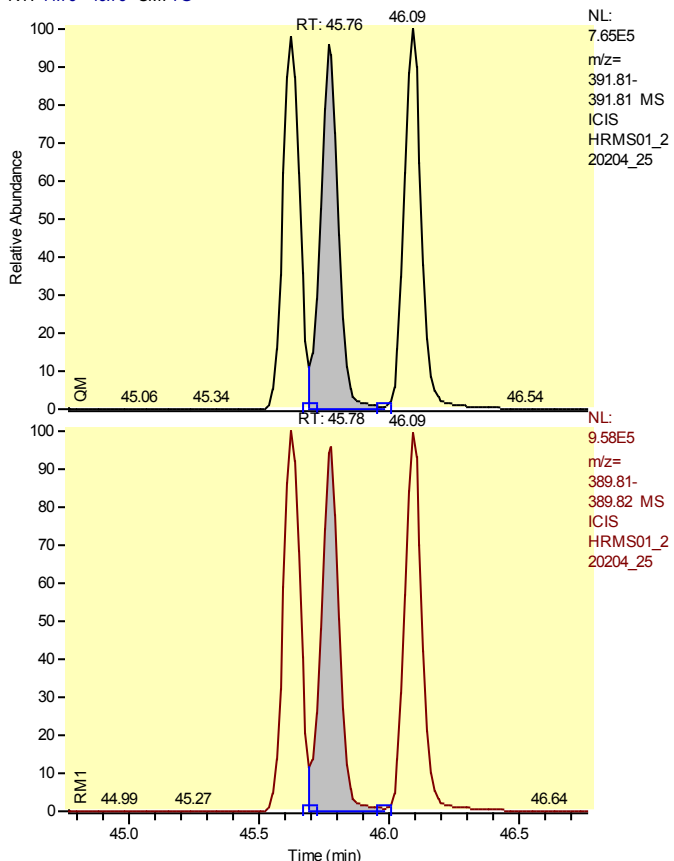
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G

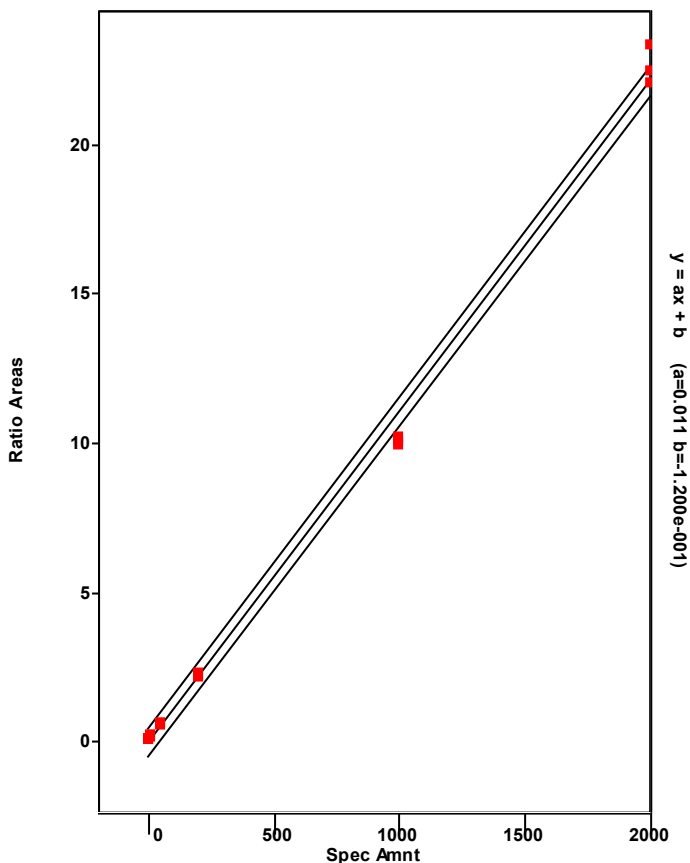


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	3516576
RM1 Area	4440844
RM1 Ratio (A)	1.2628
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

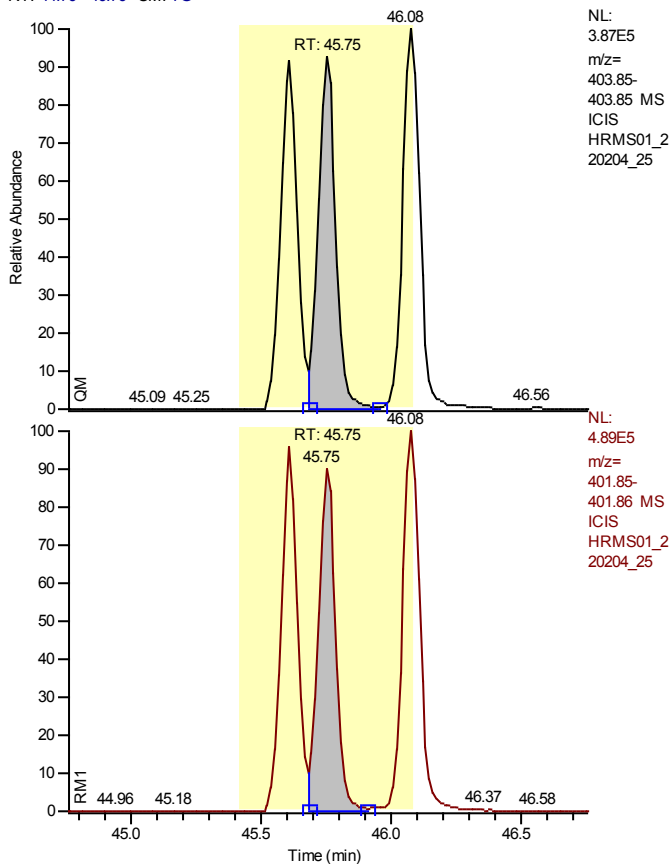
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G



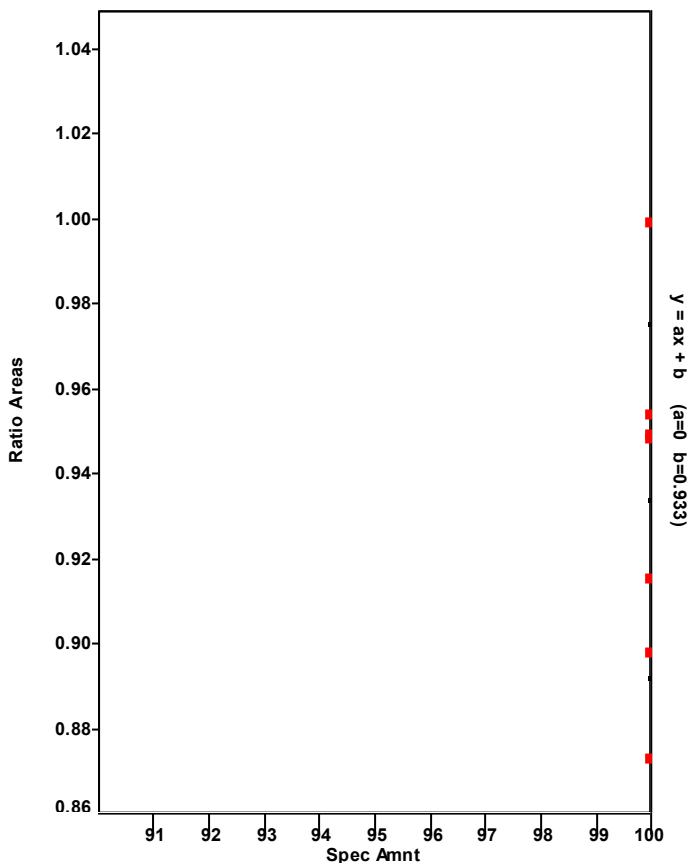
NL:
 3.87E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_25

NL:
 4.89E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1678094
RM1 Area	2032158
RM1 Ratio (A)	1.2110
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

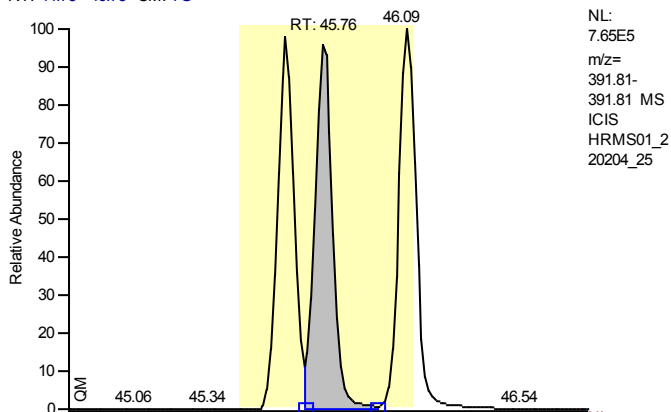
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

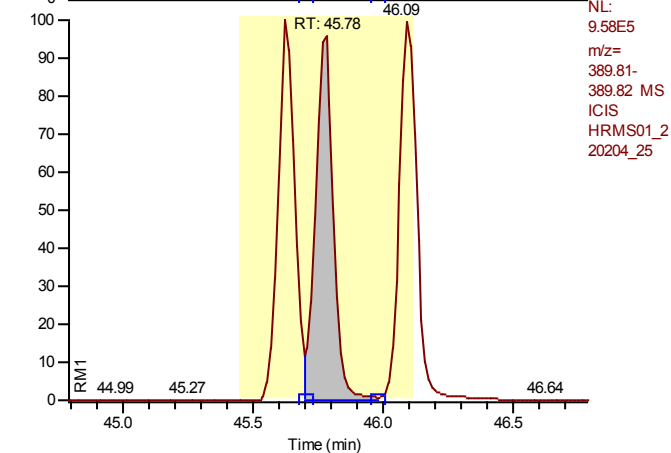
Entry Parameters

RT: 44.78 - 46.78 SM: 7G



NL:
 7.65E5
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_25

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	3516576
RM1 Area	4440844
RM1 Ratio (A)	1.2628
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

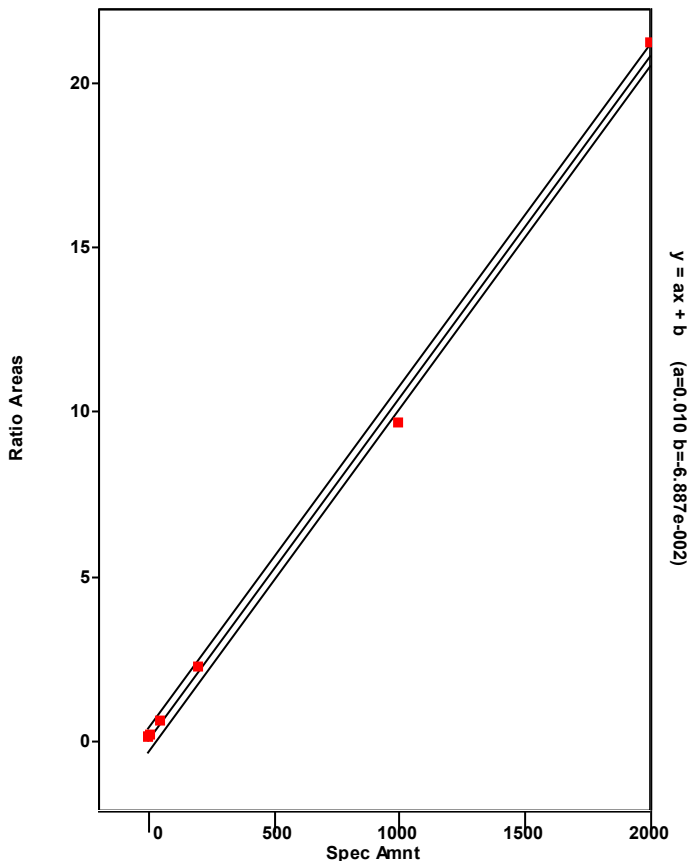


NL:
 9.58E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_25

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

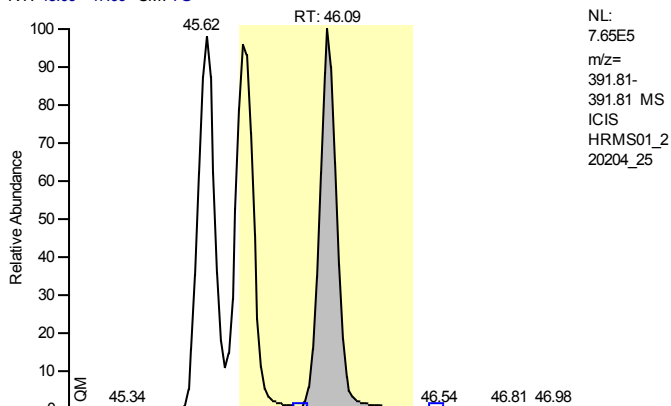
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



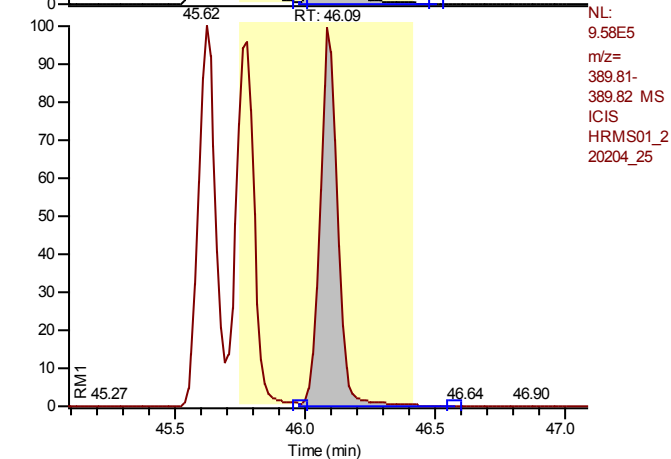
Chromatogram

Entry Parameters

RT: 45.09 - 47.09 SM: 7G



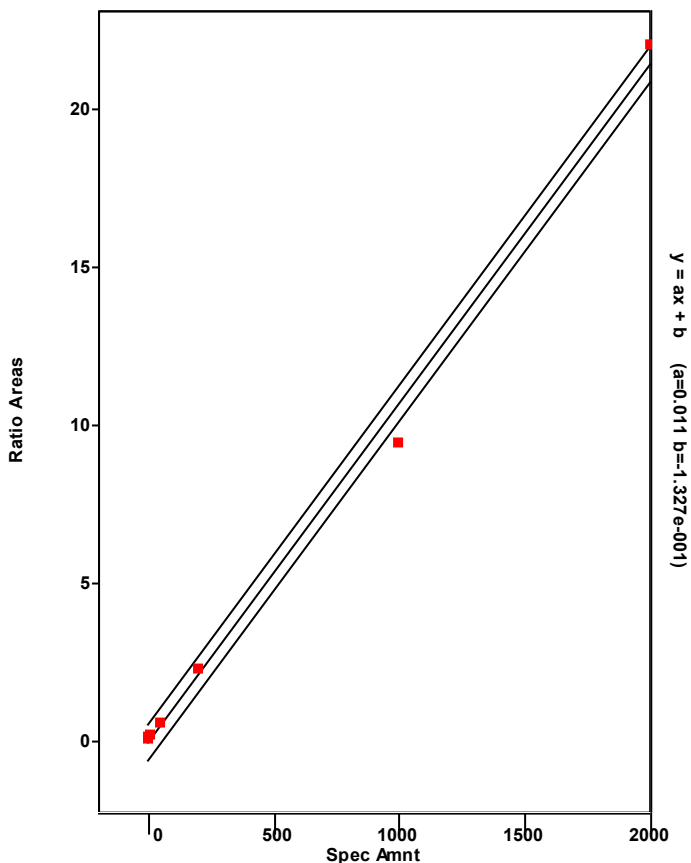
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	3567405
RM1 Area	4499765
RM1 Ratio (A)	1.2614
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

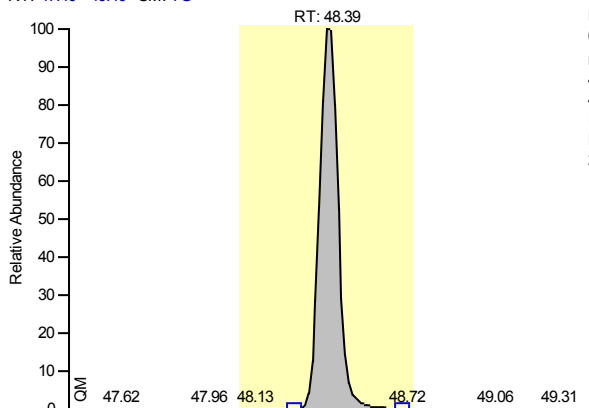
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

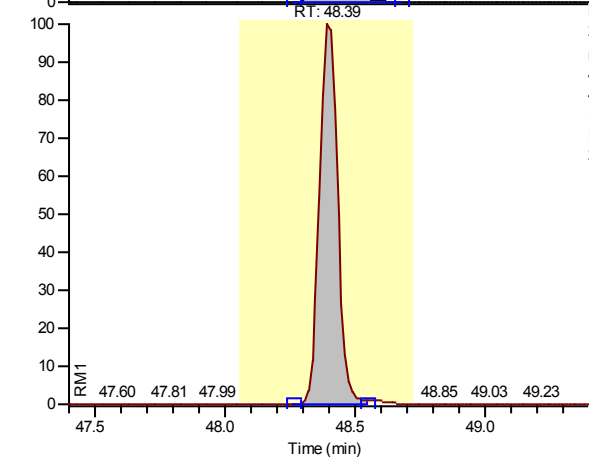
Entry Parameters

RT: 47.40 - 49.40 SM: 7G



NL:
6.20E5
m/z=
419.82-
419.82 MS
ICIS
HRMS01_2
20204_25

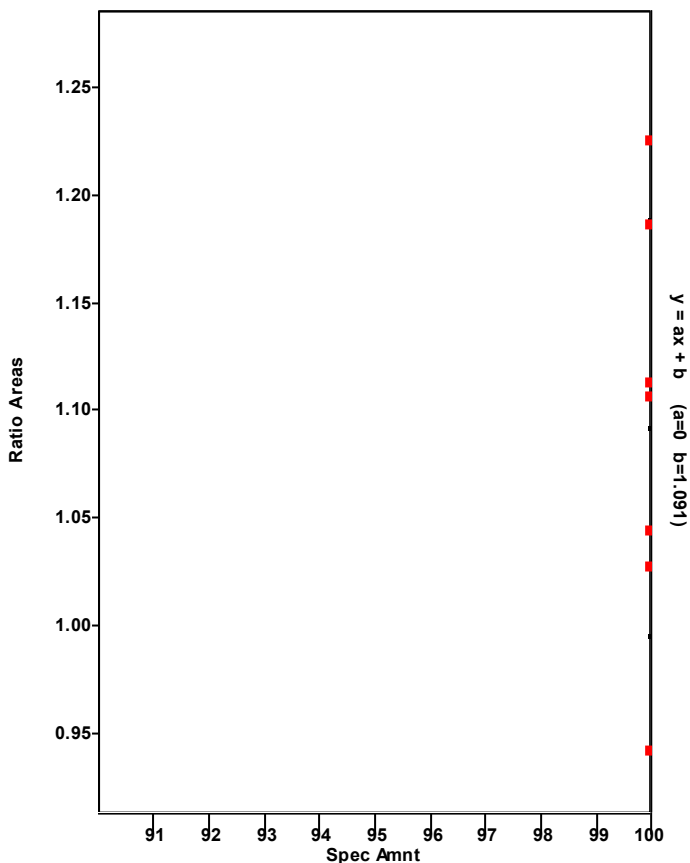
Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	3094257
RM1 Area	1386339
RM1 Ratio (A)	0.4480
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
2.87E5
m/z=
417.82-
417.83 MS
ICIS
HRMS01_2
20204_25

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

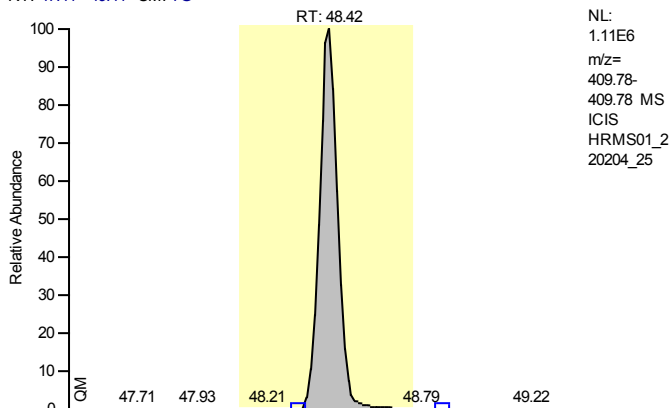
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



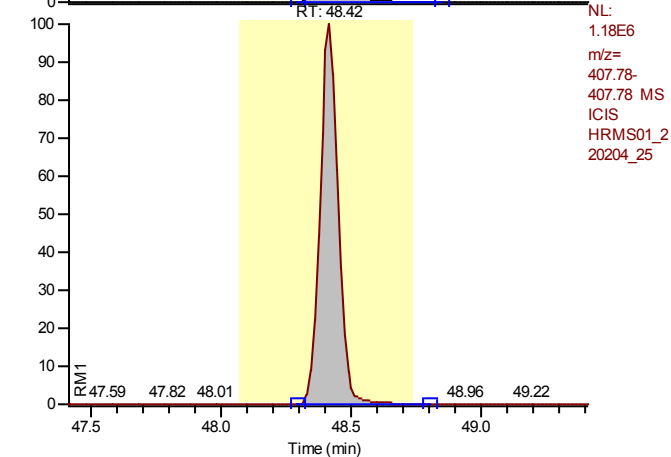
Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G



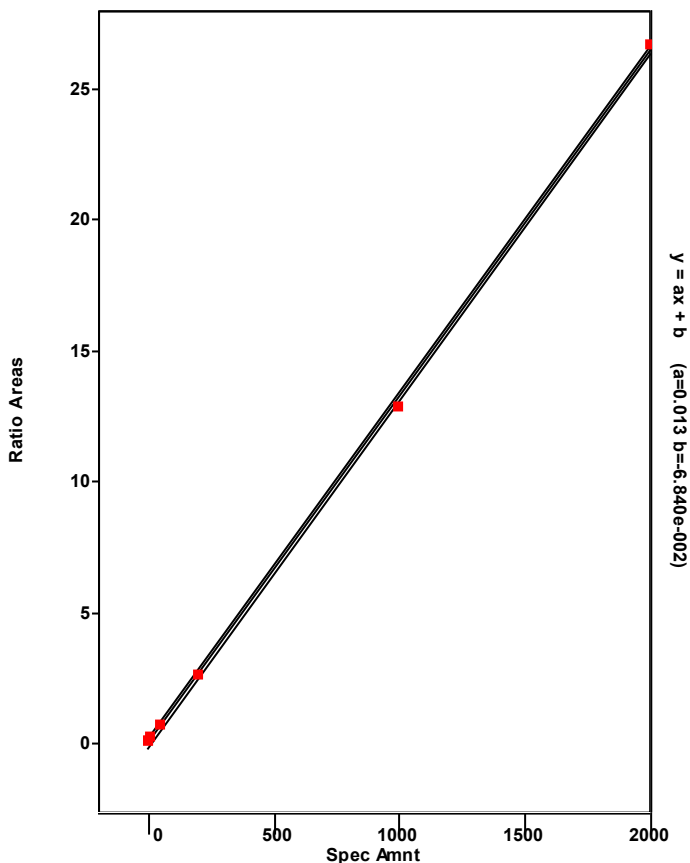
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	5493957
RM1 Area	5793492
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

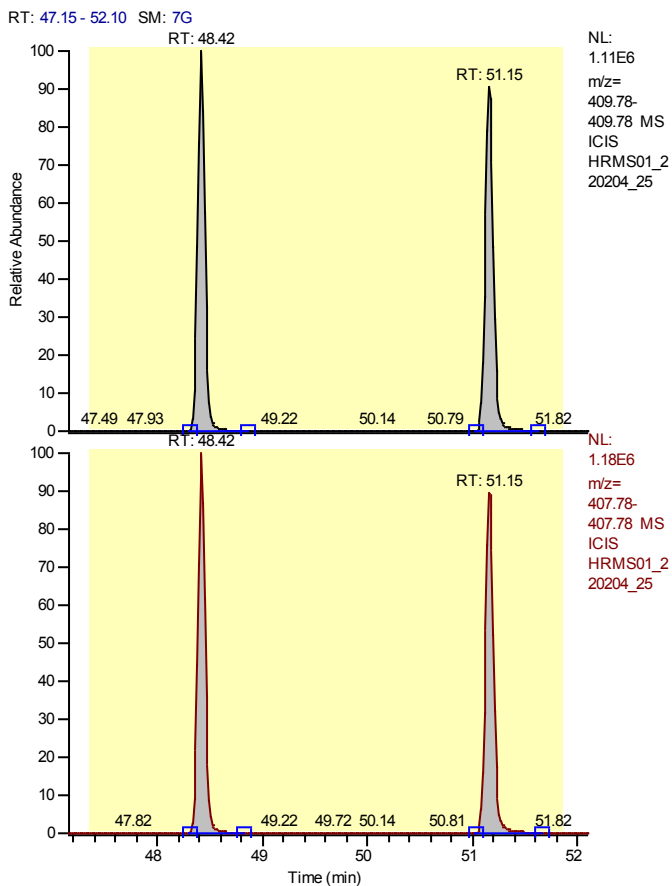
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

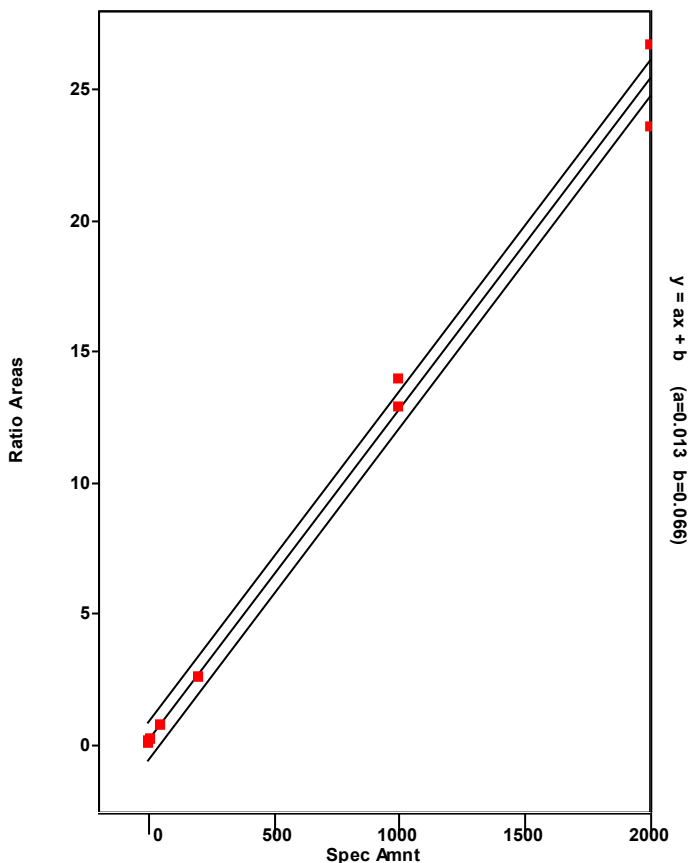


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	10982411
RM1 Area	11590330
RM1 Ratio (A)	1.0554
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	400.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C 12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

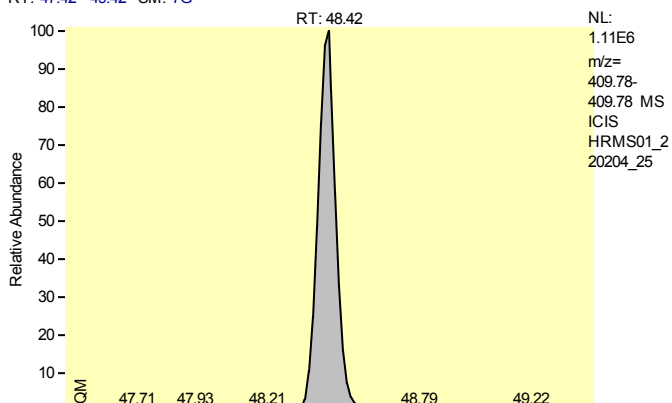
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



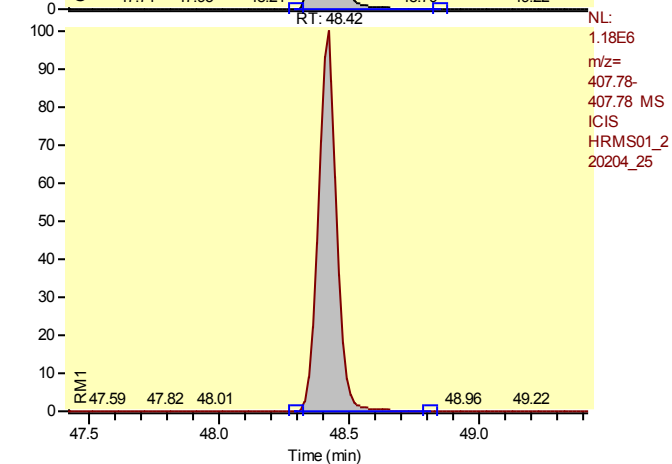
Chromatogram

Entry Parameters

RT: 47.42 - 49.42 SM: 7G



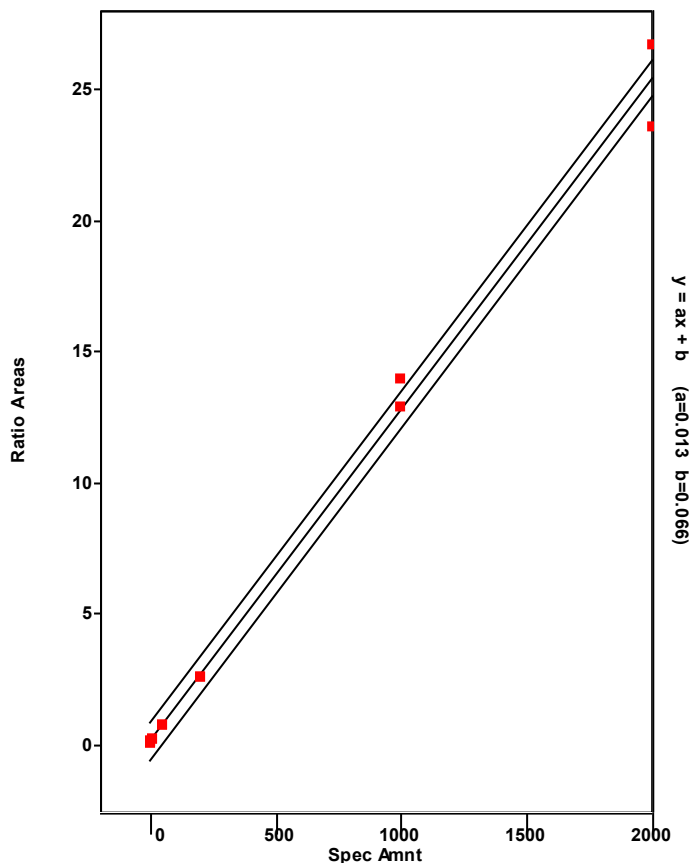
Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	5493957
RM1 Area	5793492
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

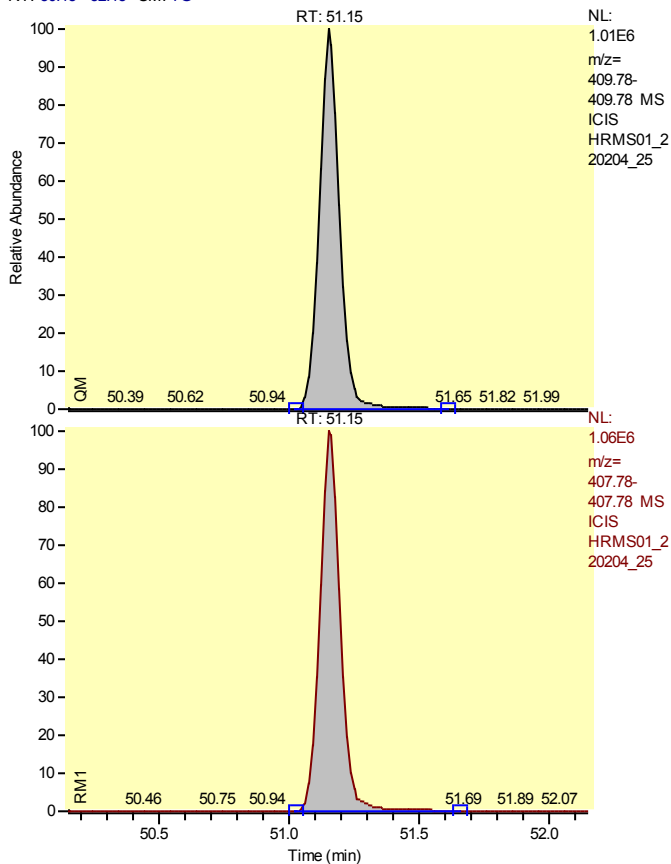
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.15- 52.15 SM: 7G

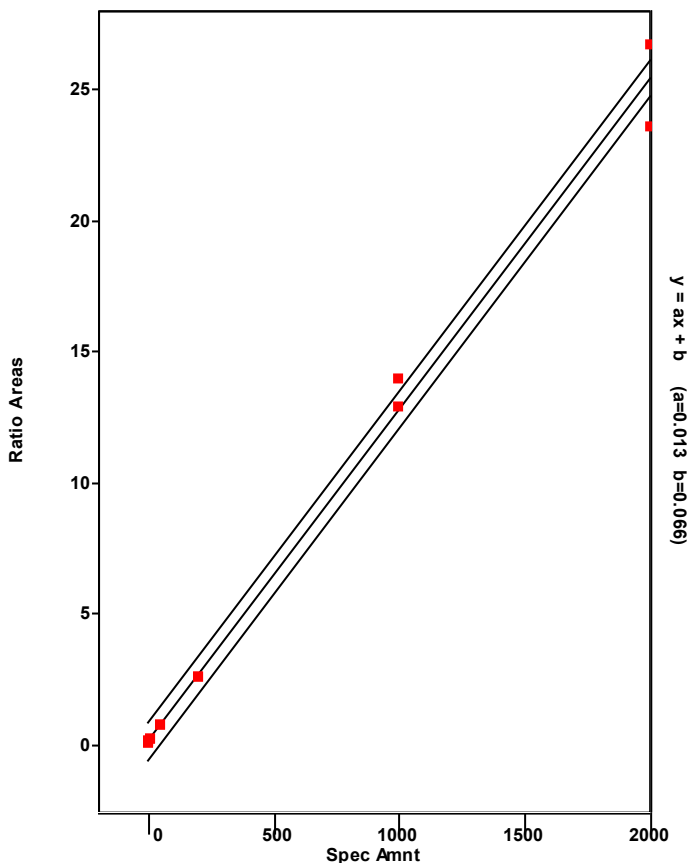


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	5488454
RM1 Area	5796838
RM1 Ratio (A)	1.0562
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

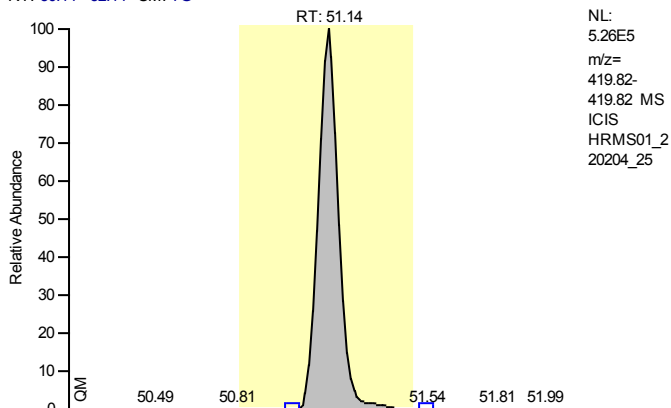
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



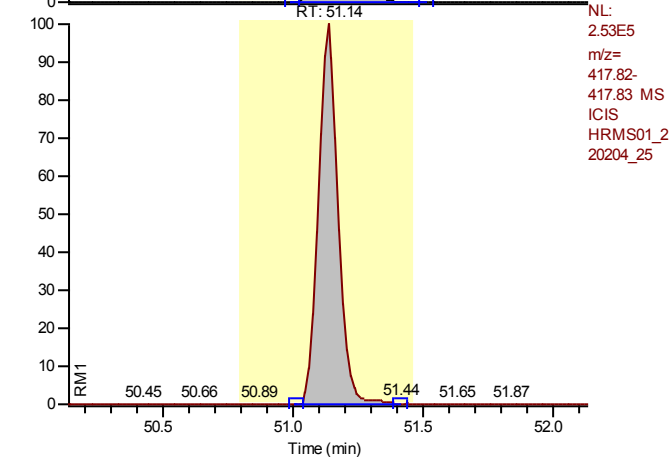
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

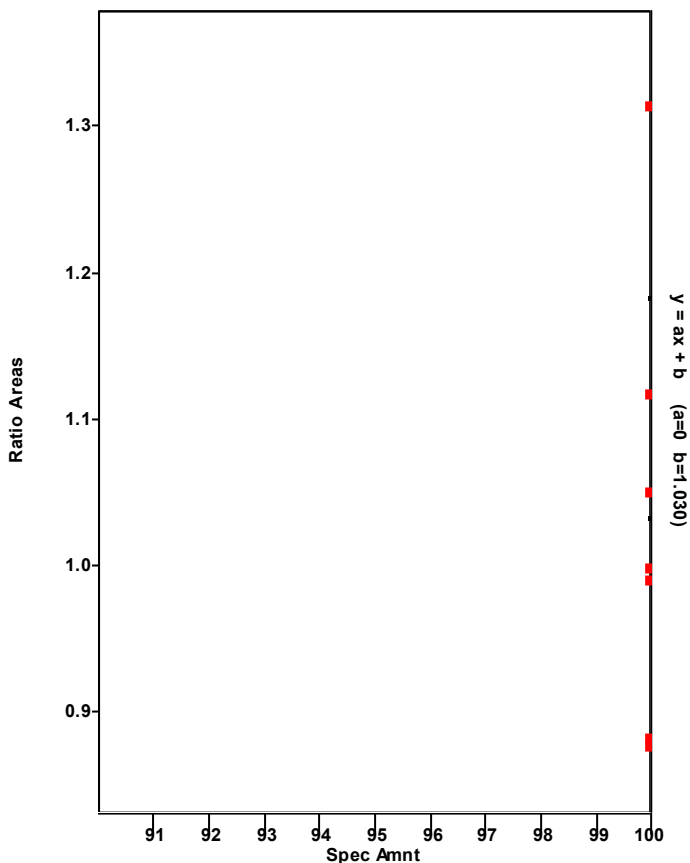


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	2900269
RM1 Area	1348471
RM1 Ratio (A)	0.4649
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

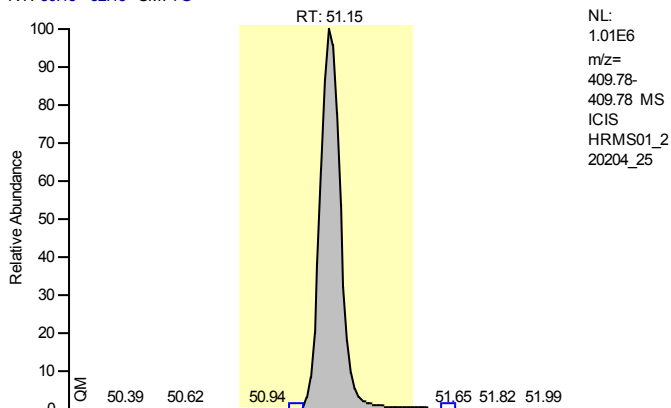
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



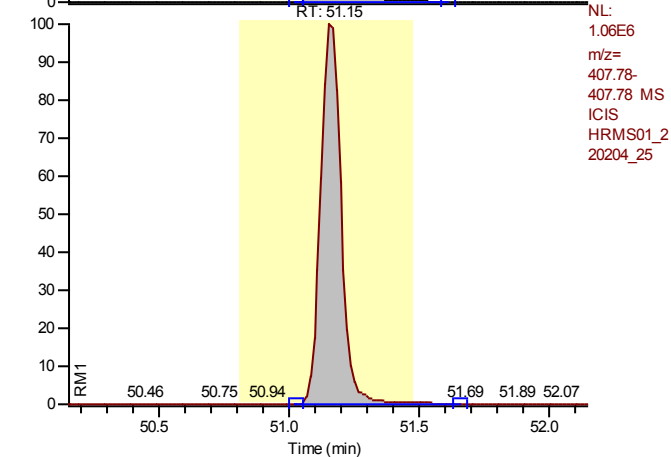
Chromatogram

Entry Parameters

RT: 50.15 - 52.15 SM: 7G



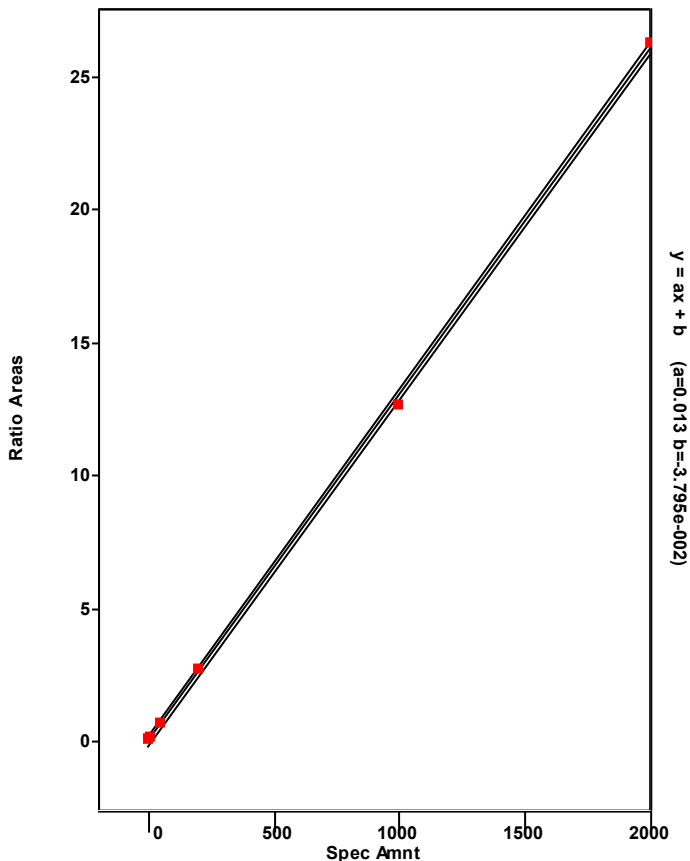
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	5488454
RM1 Area	5796838
RM1 Ratio (A)	1.0562
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

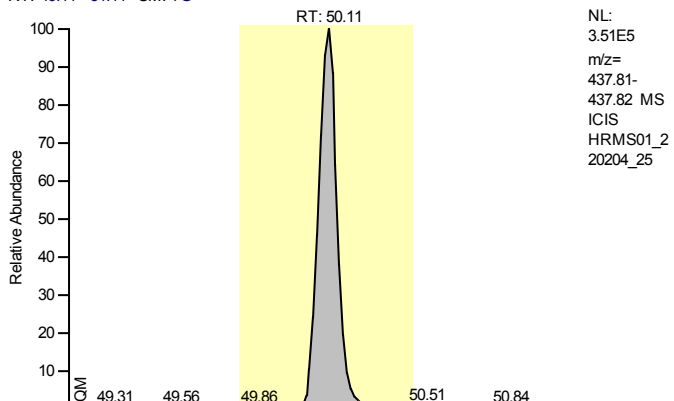
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



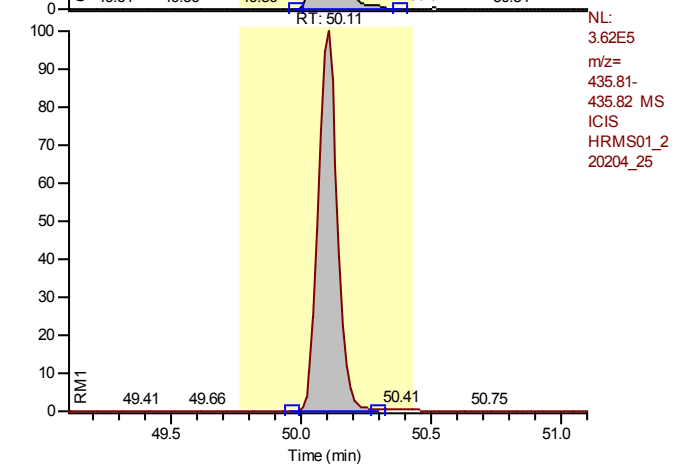
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

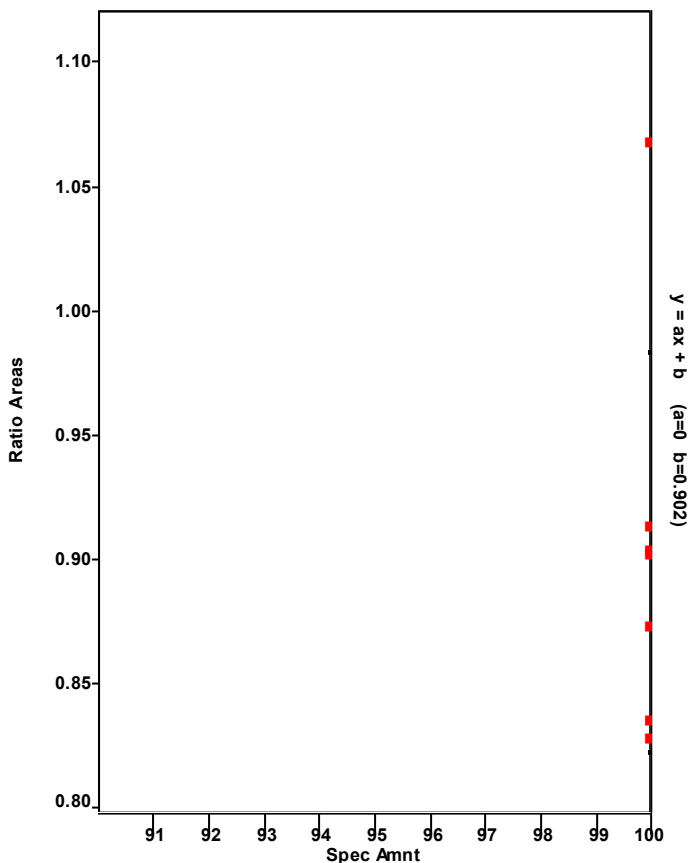


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1784624
RM1 Area	1868306
RM1 Ratio (A)	1.0469
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

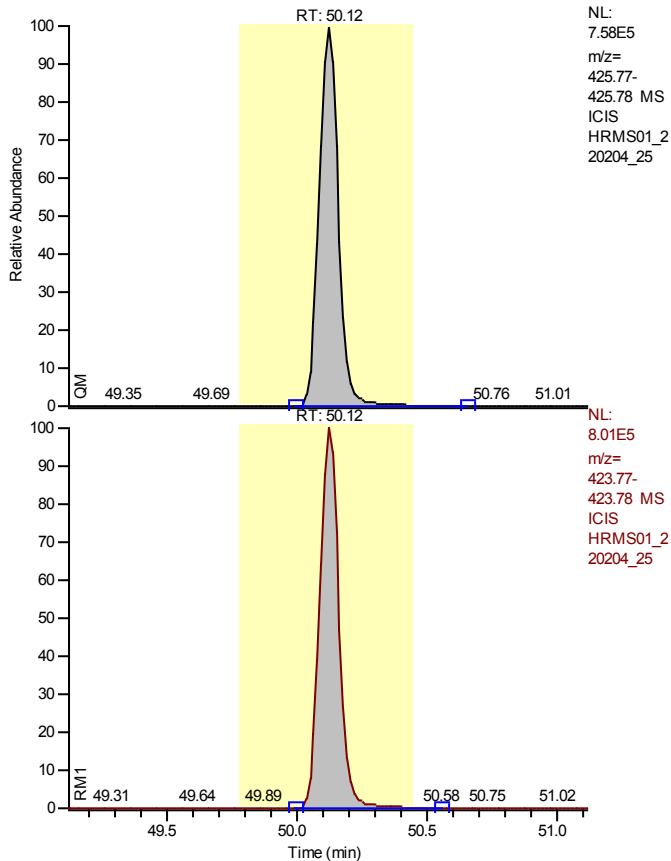
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.12 - 51.12 SM: 7G



NL:
7.58E5
m/z=
425.77-
425.78 MS
ICIS
HRMS01_2
20204_25

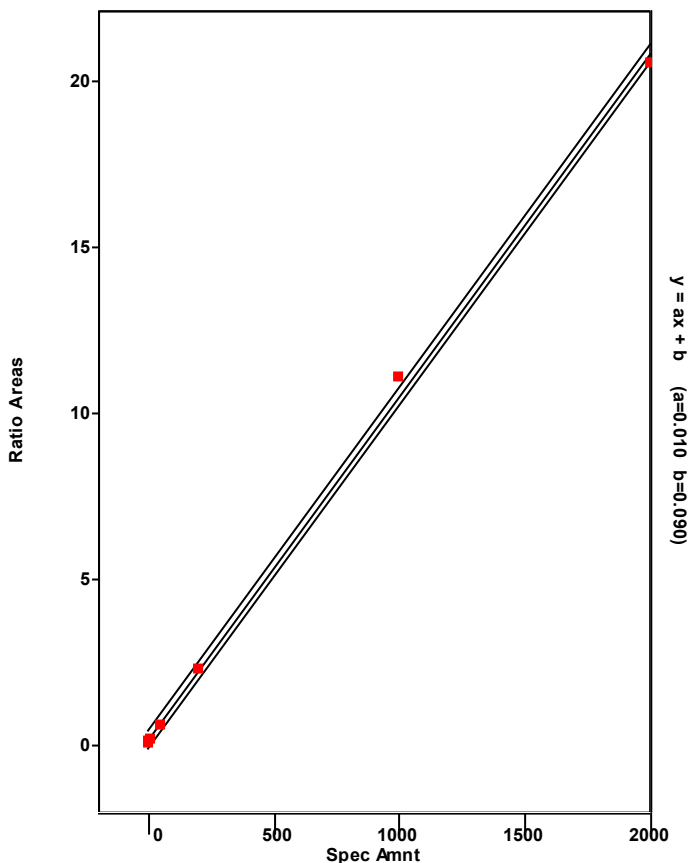
NL:
8.01E5
m/z=
423.77-
423.78 MS
ICIS
HRMS01_2
20204_25

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	3899204
RM1 Area	4127919
RM1 Ratio (A)	1.0587
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	2.0000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

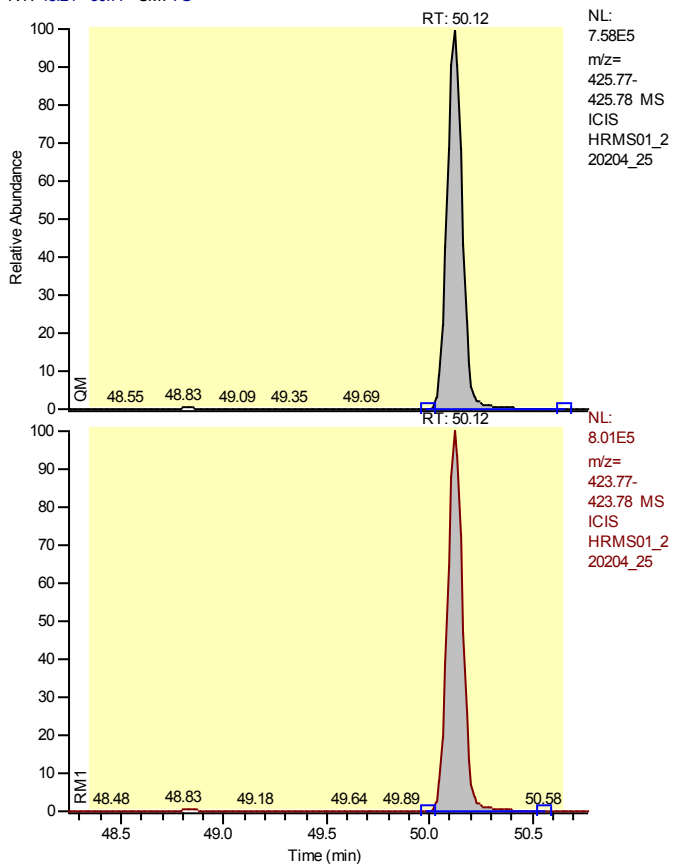
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.24 - 50.77 SM: 7G

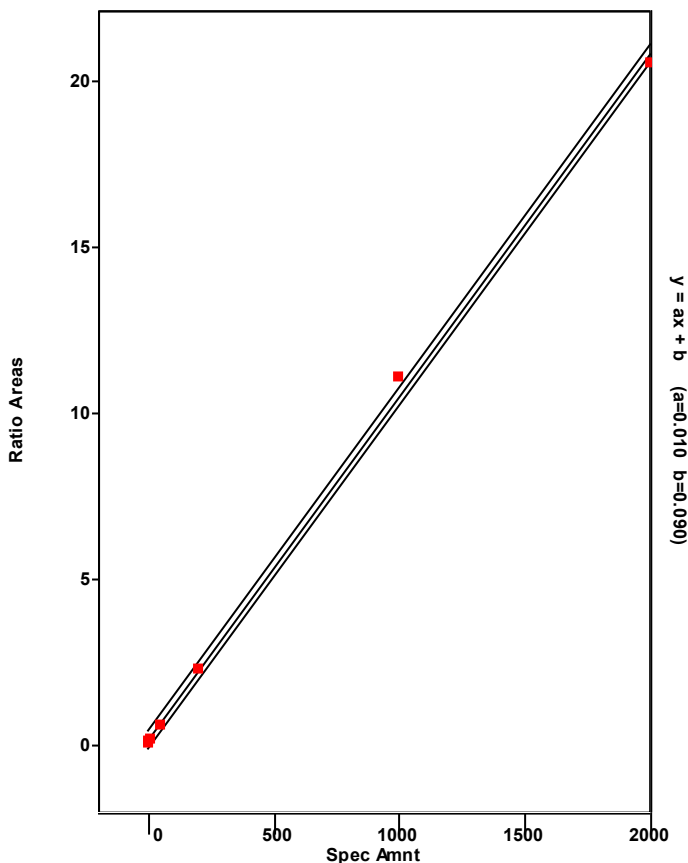


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	3899204
RM1 Area	4127919
RM1 Ratio (A)	1.0587
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

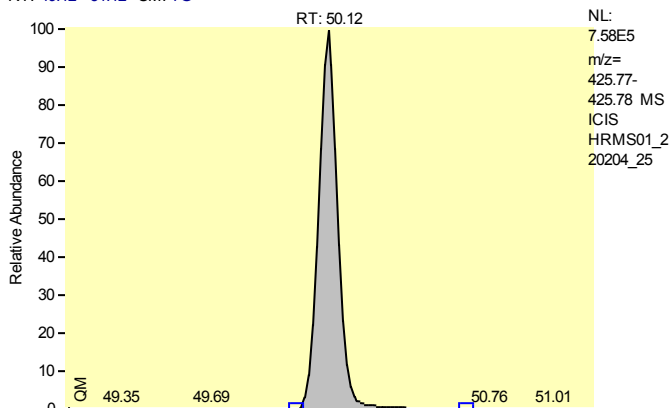
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



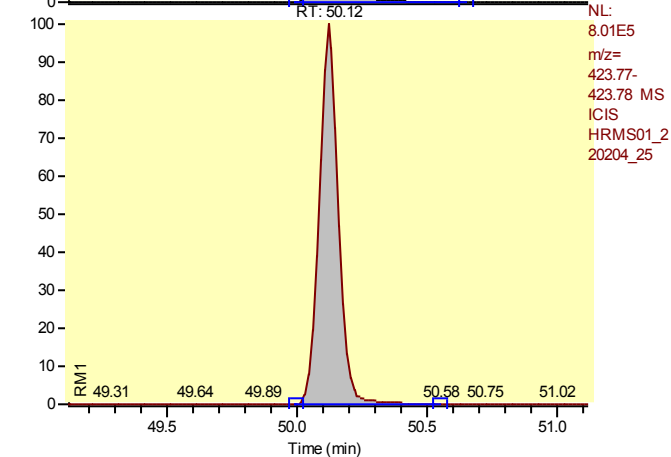
Chromatogram

Entry Parameters

RT: 49.12- 51.12 SM: 7G



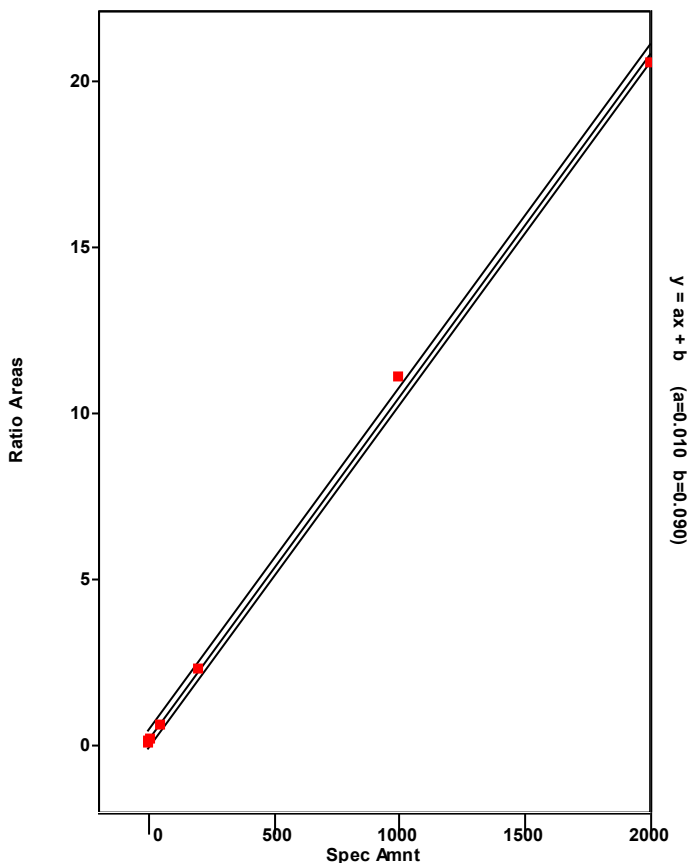
Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	3899204
RM1 Area	4127919
RM1 Ratio (A)	1.0587
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

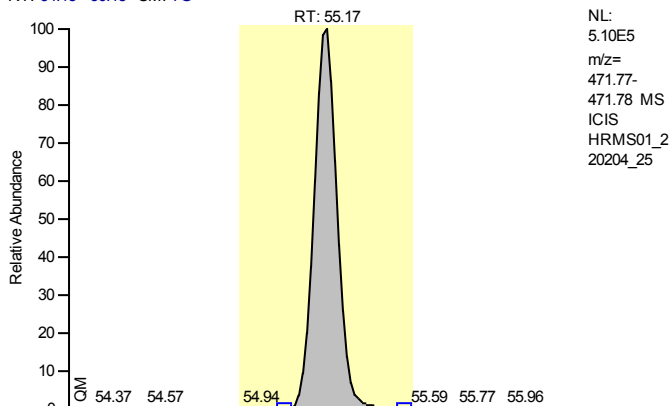
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



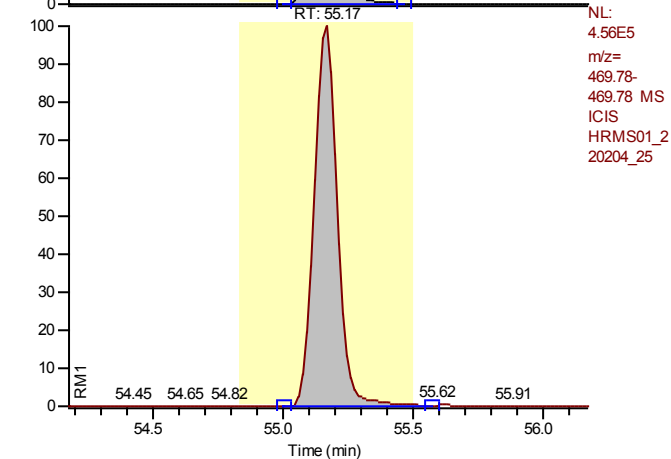
Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



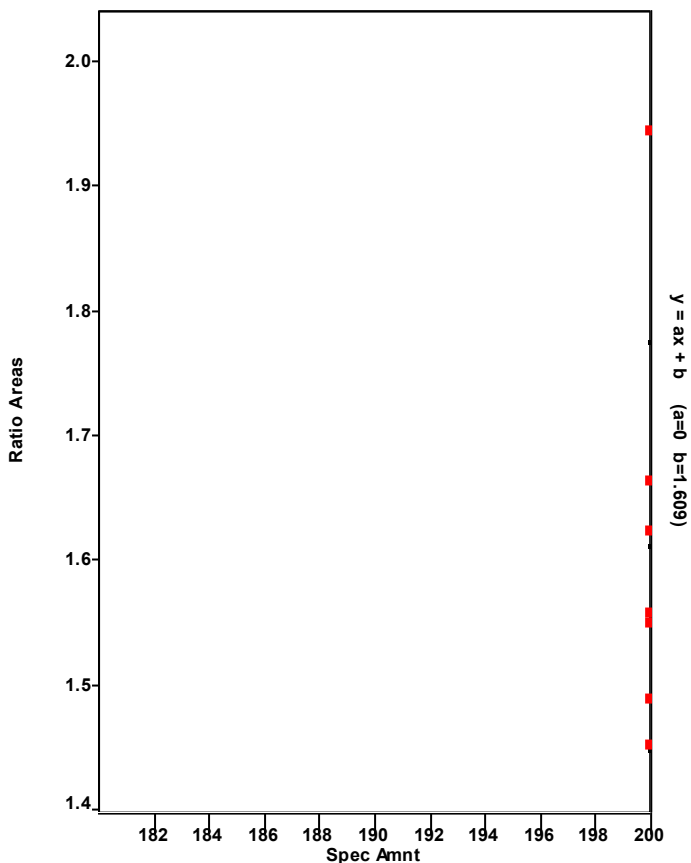
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	3177200
RM1 Area	2853616
RM1 Ratio (A)	0.8982
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

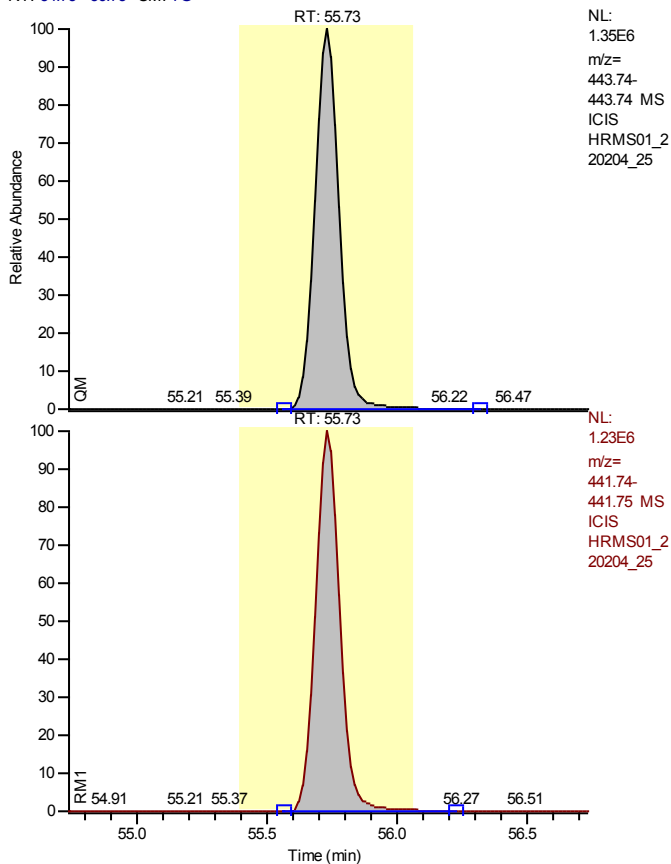
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.73 - 56.73 SM: 7G

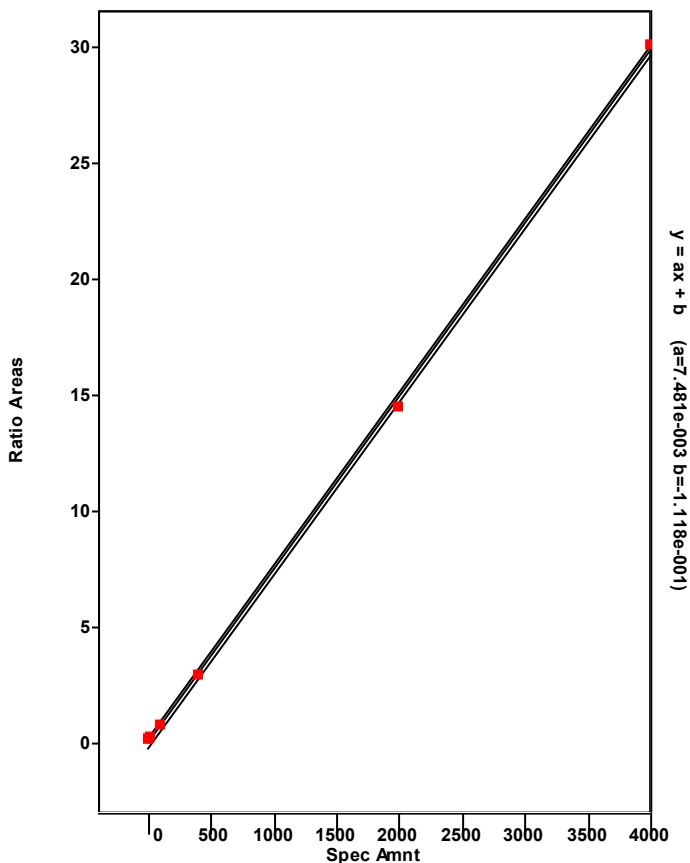


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	8776447
RM1 Area	7976602
RM1 Ratio (A)	0.9089
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.1200
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

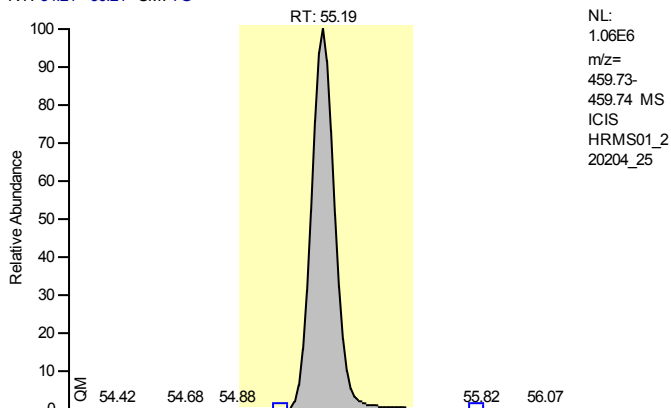
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

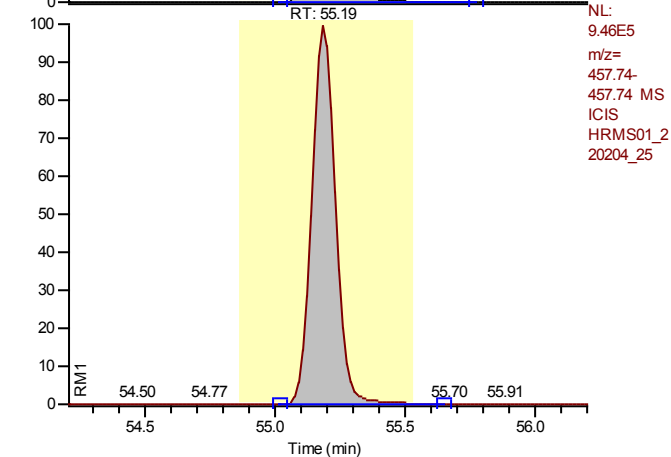
Entry Parameters

RT: 54.21 - 56.21 SM: 7G



NL:
1.06E6
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20204_25

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	6696728
RM1 Area	5993259
RM1 Ratio (A)	0.8950
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.1200
Label2	

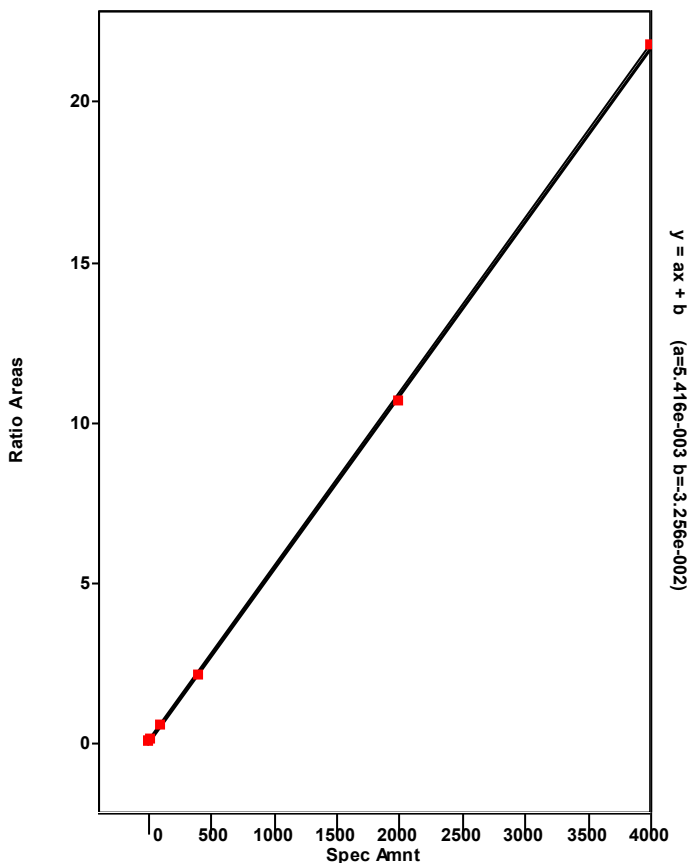


NL:
9.46E5
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20204_25

Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

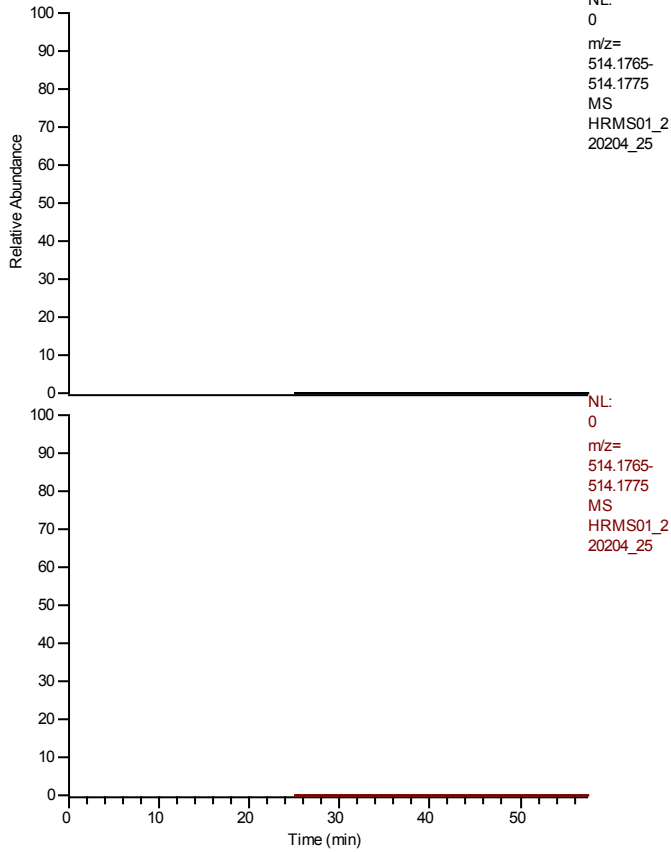
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

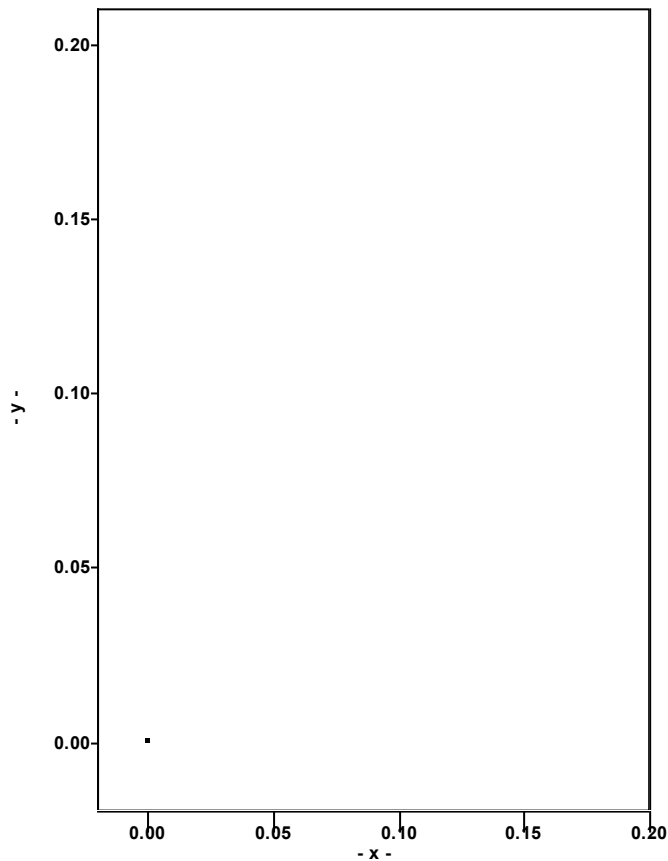
RT: 0.00 - 57.52 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	71797184
RM1 Area	83323362
RM1 Ratio (A)	1.1605
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	3480.00
Percent Recovery (A)	---
TEQ (A)	456.2400
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 08:15
Number of Entries	59
Comment	HRMS200402E
Vial	9
Sample Name	IA1613STD-200
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_27_seq
Data	hrms01_220204_27
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

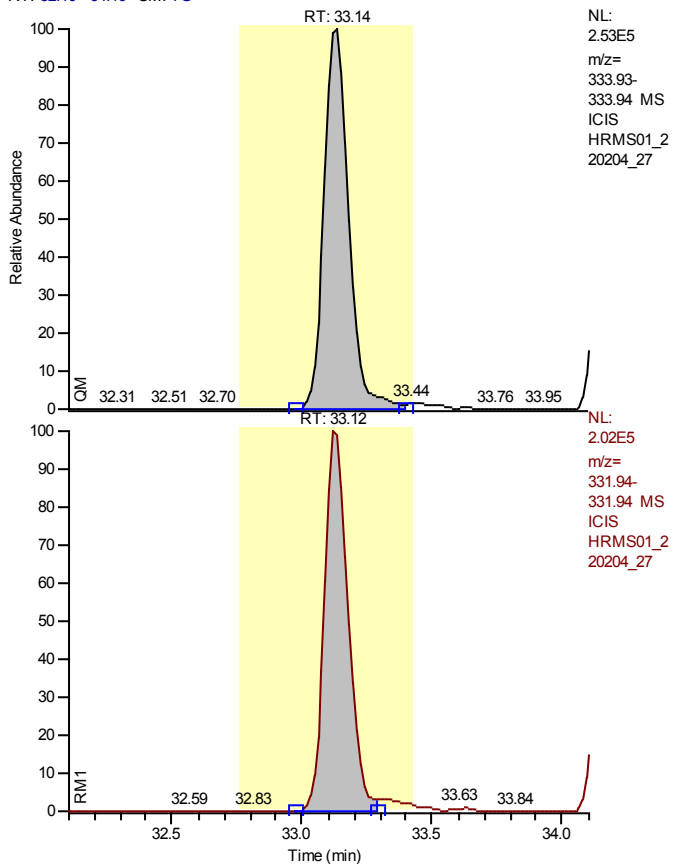
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1703369	1303058	0.7650	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2708238	2090915	0.7721	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	5122110	3880678	0.7576	0.6500 - 0.8900	200.00	200.00	100	20.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	5122110	3880678	0.7576	0.6500 - 0.8900	200.00	200.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	5122110	3880678	0.7576	0.6500 - 0.8900	200.00	200.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1943975	1514729	0.7792	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	4191267	3289151	0.7848	0.6500 - 0.8900	200.00	200.00	100	200.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	4191267	3289151	0.7848	0.6500 - 0.8900	200.00	200.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	4191267	3289151	0.7848	0.6500 - 0.8900	200.00	200.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1706298	2663307	1.5609	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	16425837	25850478	1.5738	1.3200 - 1.7800	1000.00	1000.00	100	30.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	34098143	53497165	1.5689	1.3200 - 1.7800	1000.00	2000.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	17672306	27646687	1.5644	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	16425837	25850478	1.5738	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1673898	2635527	1.5745	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	17672306	27646687	1.5644	1.3200 - 1.7800	1000.00	1000.00	100	300.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1186637	1731002	1.4587	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	11188443	17648349	1.5774	1.3200 - 1.7800	1000.00	1000.00	100	1000.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	11188443	17648349	1.5774	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	11188443	17648349	1.5774	1.3200 - 1.7800	1000.00	1000.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		7037052	7037052	1.0000	0.8500 - 1.1500	200.00	200.00	100	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1558536	1851366	1.1879	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2713210	1496526	0.5516	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	21357308	26200099	1.2268	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	85606208	105307923	1.2301	1.0500 - 1.4300	1000.00	4000.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	22805802	28015044	1.2284	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	21357308	26200099	1.2268	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	21601824	26505966	1.2270	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	19841275	24586815	1.2392	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		3016941	1589466	0.5268	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	22805802	28015044	1.2284	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2724427	1401729	0.5145	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	21601824	26505966	1.2270	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		2696010	1426618	0.5292	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	19841275	24586815	1.2392	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1373637	1846387	1.3442	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	14229435	17875803	1.2563	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	42856609	53682536	1.2526	1.0500 - 1.4300	1000.00	3000.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	14528635	18121172	1.2473	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	14229435	17875803	1.2563	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	14098539	17685562	1.2544	1.0500 - 1.4300	1000.00	1000.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1528432	1877112	1.2281	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	14528635	18121172	1.2473	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	14098539	17685562	1.2544	1.0500 - 1.4300	1000.00	1000.00	100	100.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2770176	1270622	0.4587	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	25436117	26232215	1.0313	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	52781158	55046129	1.0429	0.8800 - 1.2000	1000.00	2000.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	25436117	26232215	1.0313	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	27345041	28813914	1.0537	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		3068957	1404939	0.4578	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	27345041	28813914	1.0537	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1773262	1864341	1.0514	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	19421206	20552983	1.0583	0.8800 - 1.2000	1000.00	1000.00	100	10.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	19421206	20552983	1.0583	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	19421206	20552983	1.0583	0.8800 - 1.2000	1000.00	1000.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		3434270	3188705	0.9285	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	49887559	45478528	0.9116	0.7600 - 1.0200	2000.00	2000.00	100	0.6000
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	37194705	33302768	0.8954	0.7600 - 1.0200	2000.00	2000.00	100	0.6000
59	overall TEQ	overall TEQ test		342347407	391686211	1.1441	0.0000 - 0.0000	0.00	17400.00	---	2281.2000

Chromatogram

Entry Parameters

RT: 32.10-34.10 SM: 7G

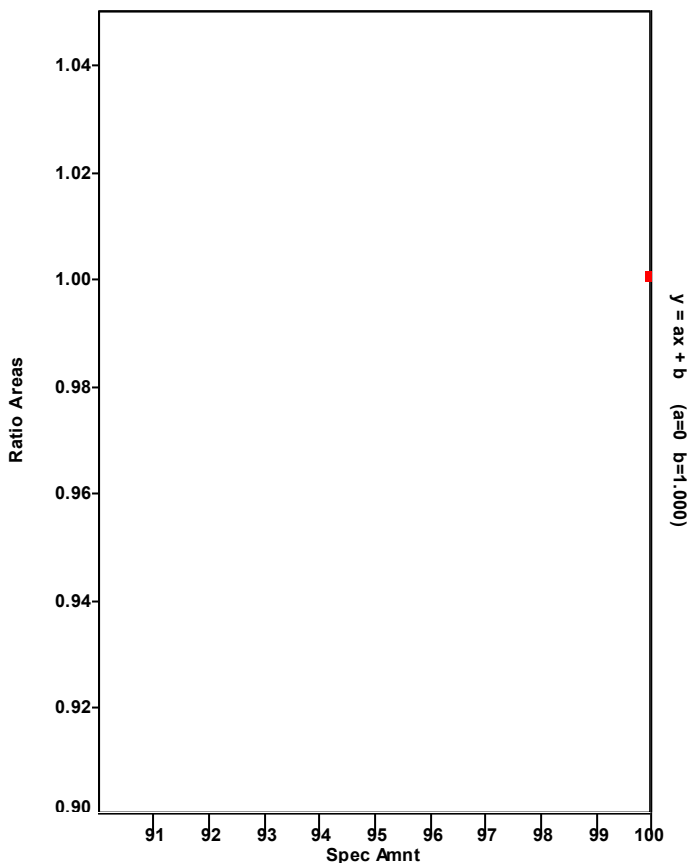


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1703369
RM1 Area	1303058
RM1 Ratio (A)	0.7650
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

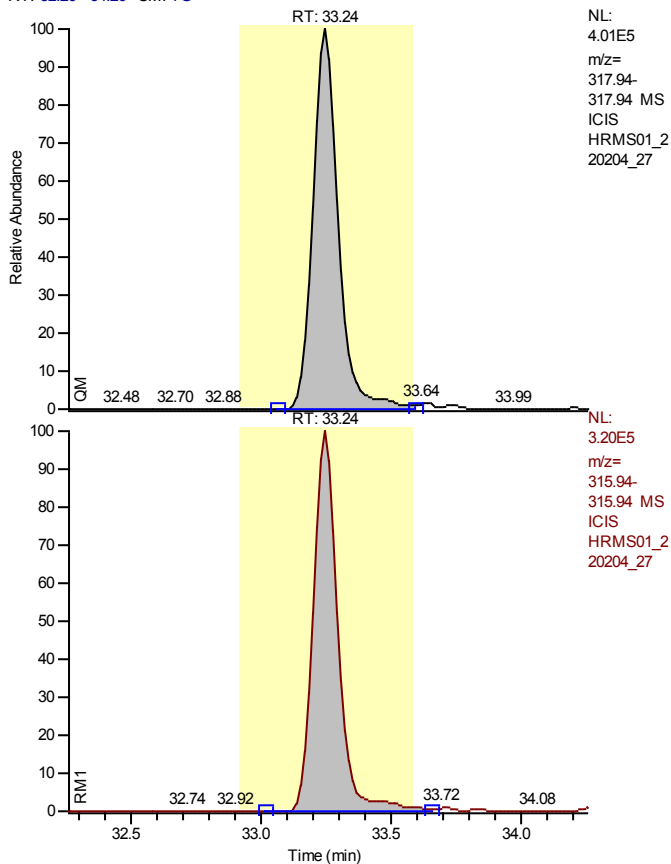
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.26 - 34.26 SM: 7G



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 317.94 MS
 ICIS
 HRMS01_2
 20204_27

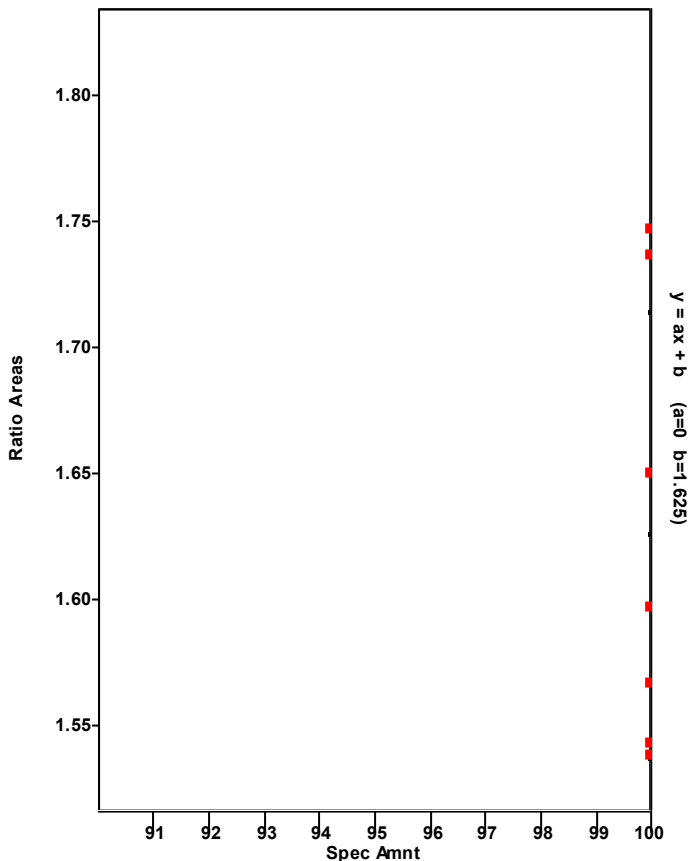
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2708238
RM1 Area	2090915
RM1 Ratio (A)	0.7721
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 3.20E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

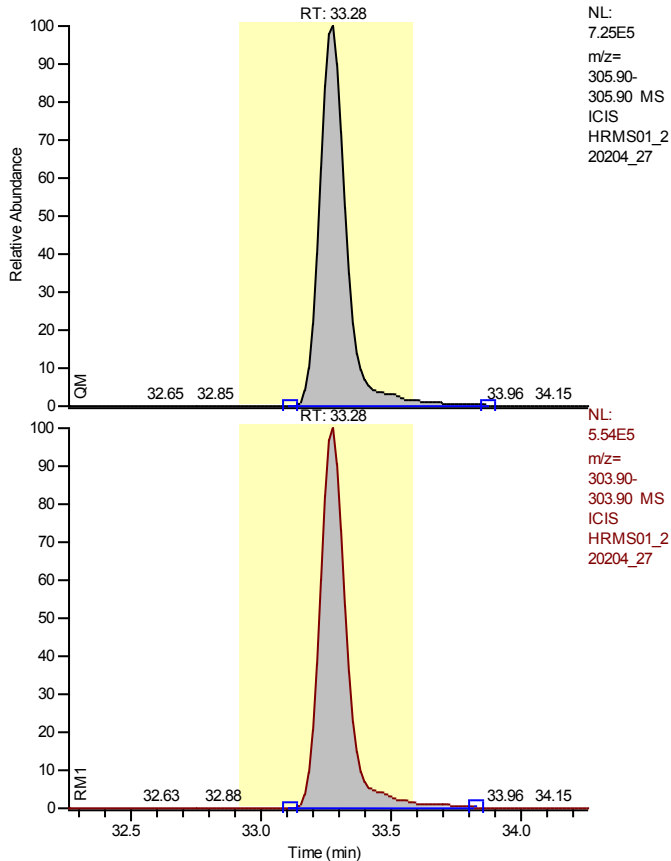
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.26 - 34.26 SM: 7G



NL:
7.25E5
m/z=
305.90-
305.90 MS
ICIS
HRMS01_2
20204_27

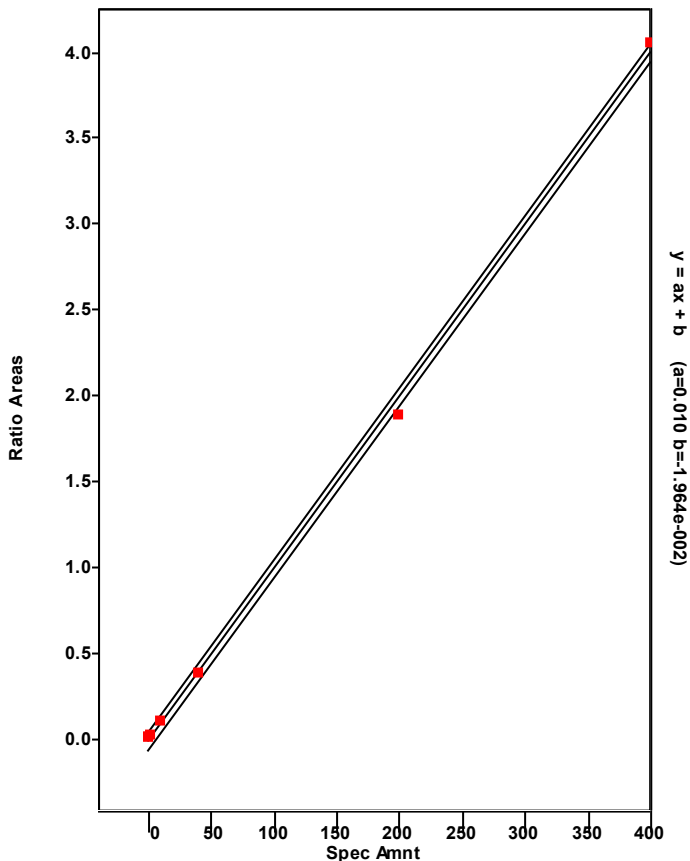
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	5122110
RM1 Area	3880678
RM1 Ratio (A)	0.7576
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

NL:
5.54E5
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20204_27

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

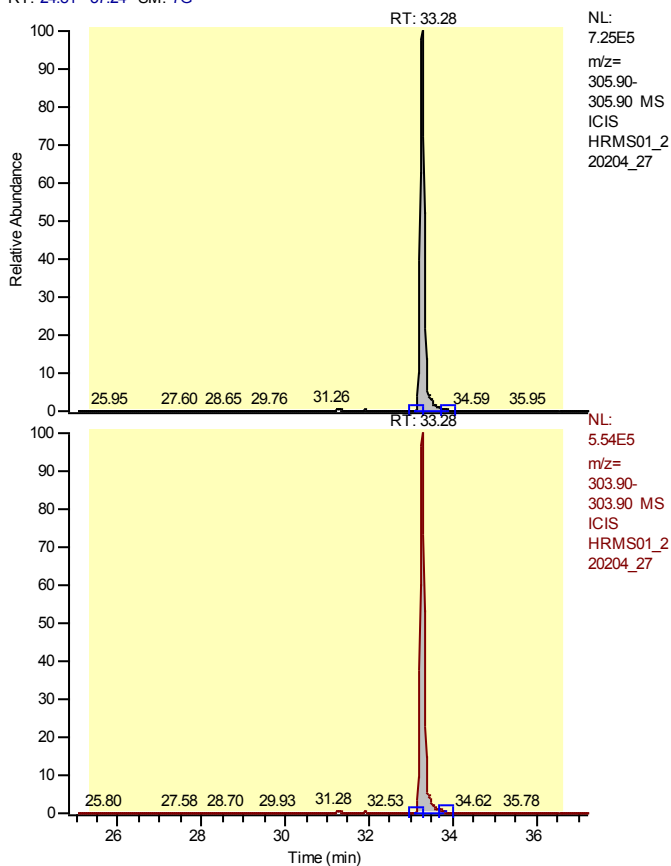
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.81 - 37.24 SM: 7G

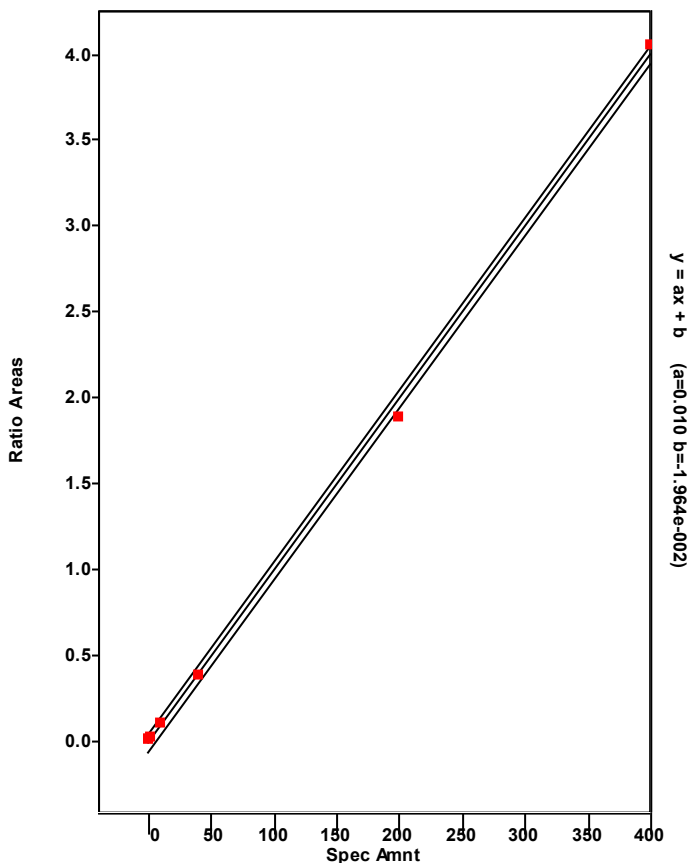


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	5122110
RM1 Area	3880678
RM1 Ratio (A)	0.7576
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

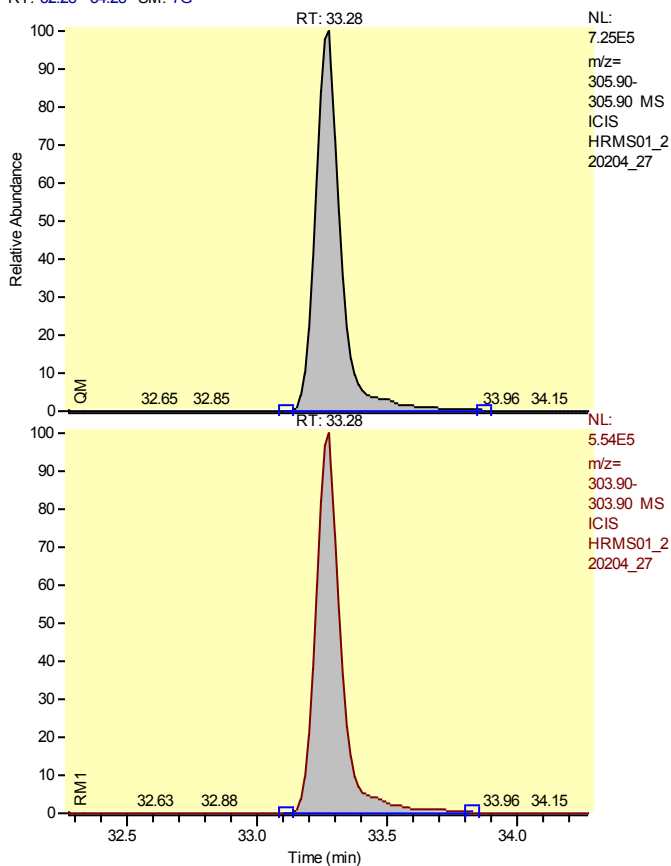
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

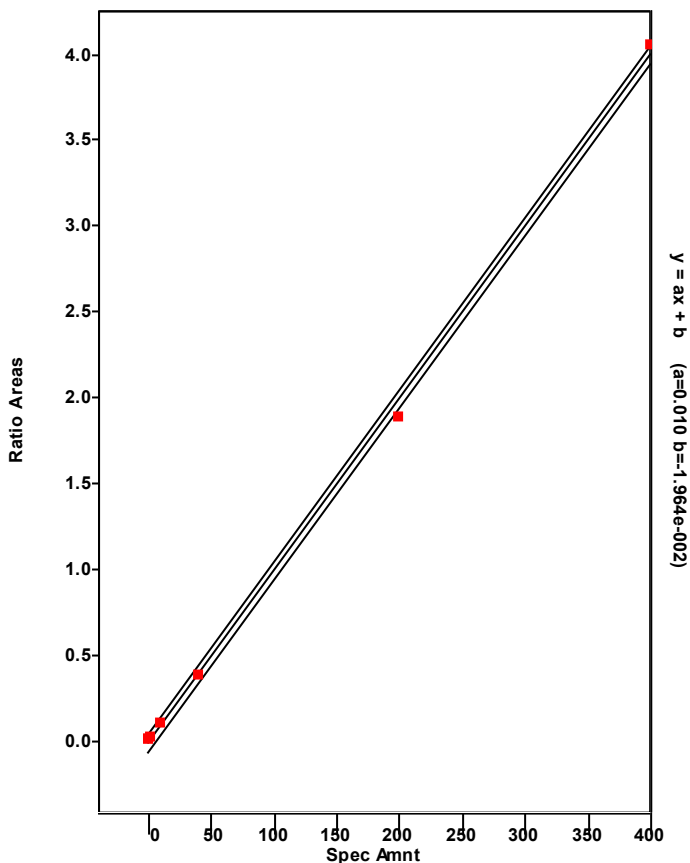


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	5122110
RM1 Area	3880678
RM1 Ratio (A)	0.7576
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

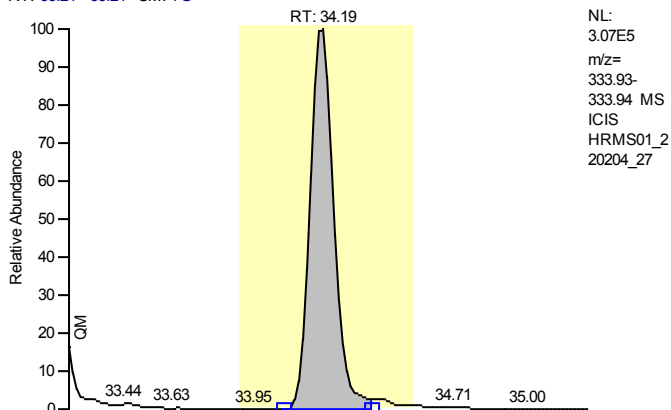
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



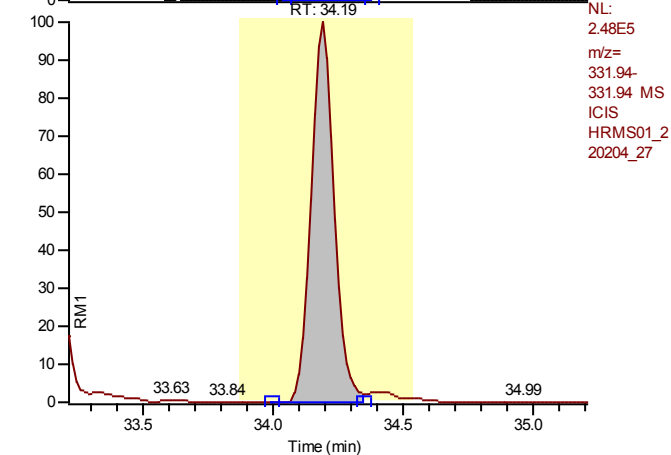
Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G



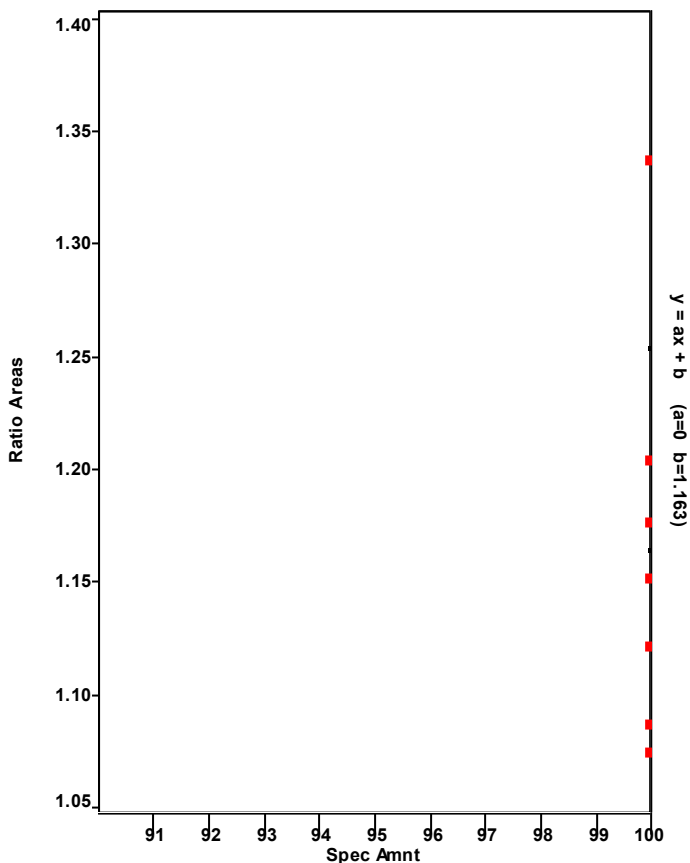
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1943975
RM1 Area	1514729
RM1 Ratio (A)	0.7792
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

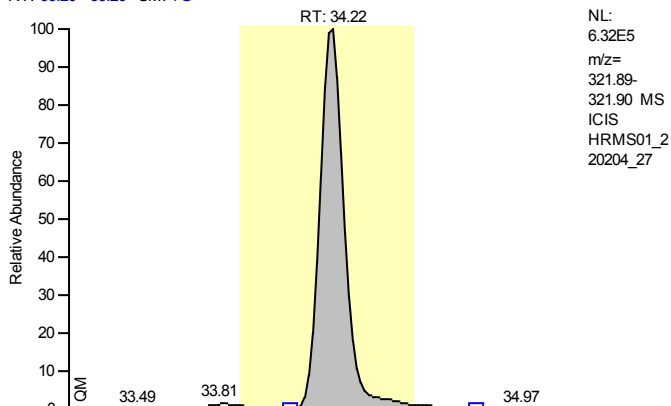
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

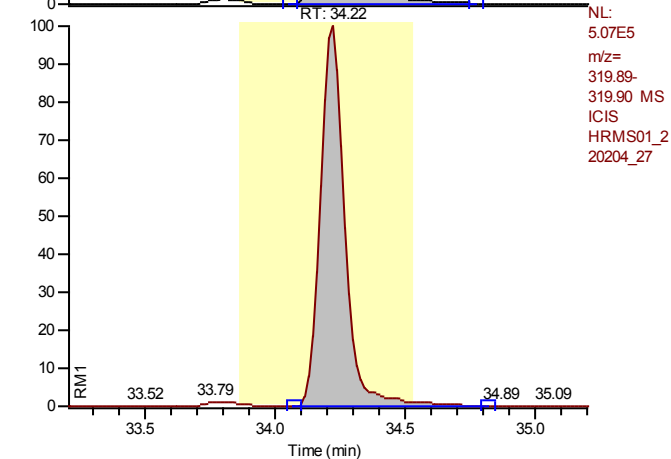
Entry Parameters

RT: 33.20 - 35.20 SM: 7G



NL:
 6.32E5
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	4191267
RM1 Area	3289151
RM1 Ratio (A)	0.7848
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

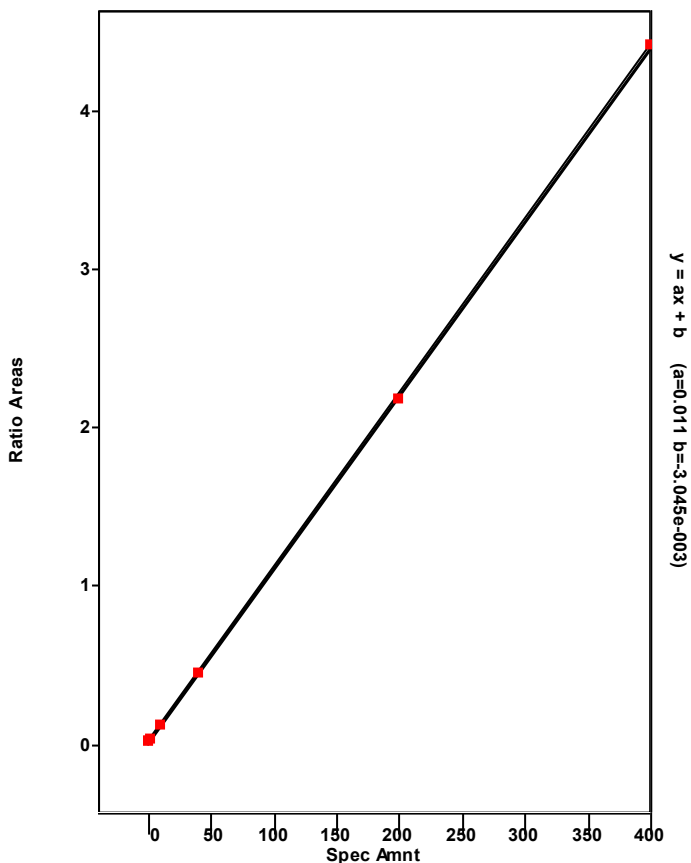


NL:
 5.07E5
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

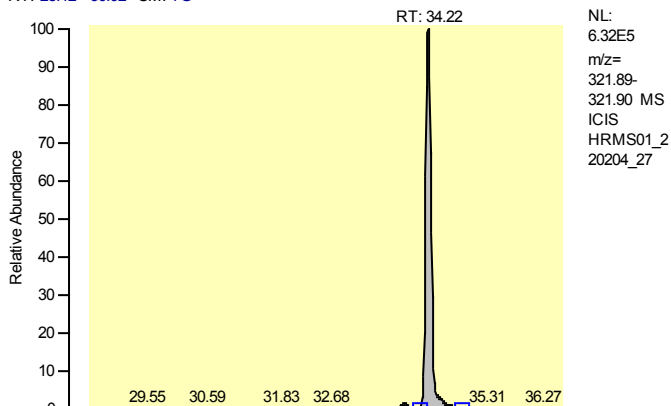
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

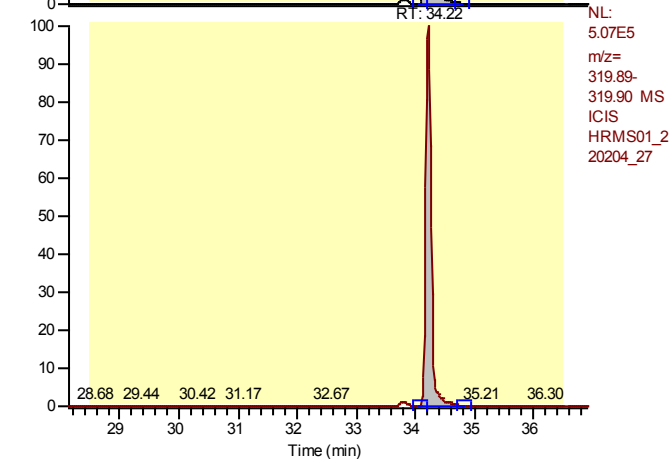
Entry Parameters

RT: 28.12 - 36.92 SM: 7G



NL:
 6.32E5
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	4191267
RM1 Area	3289151
RM1 Ratio (A)	0.7848
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

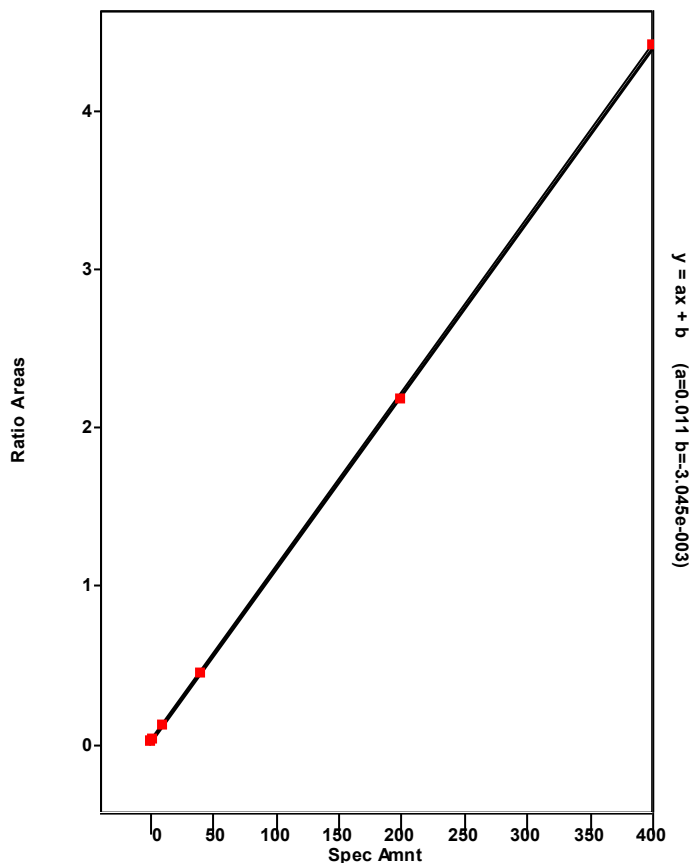


NL:
 5.07E5
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20204_27

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

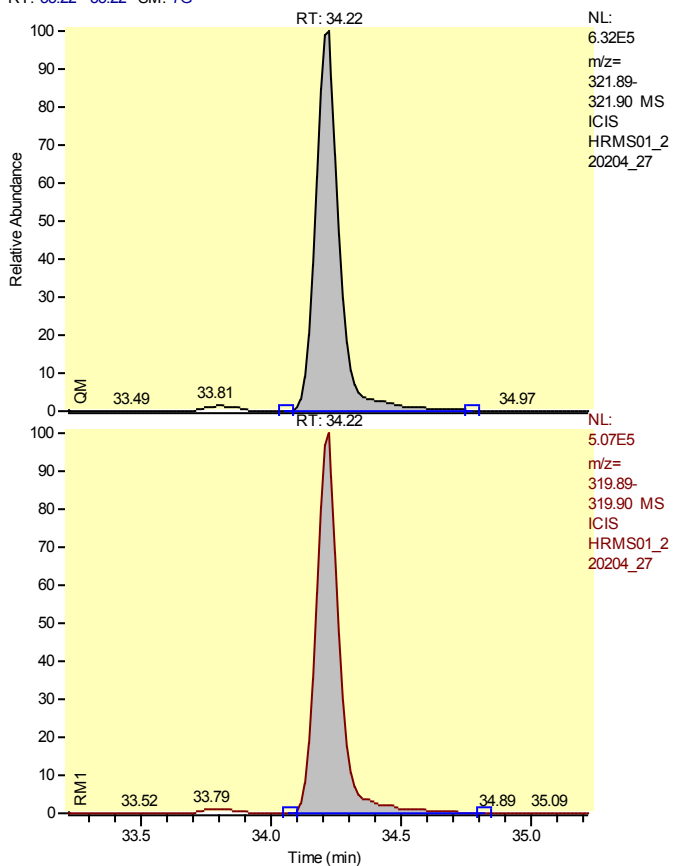
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

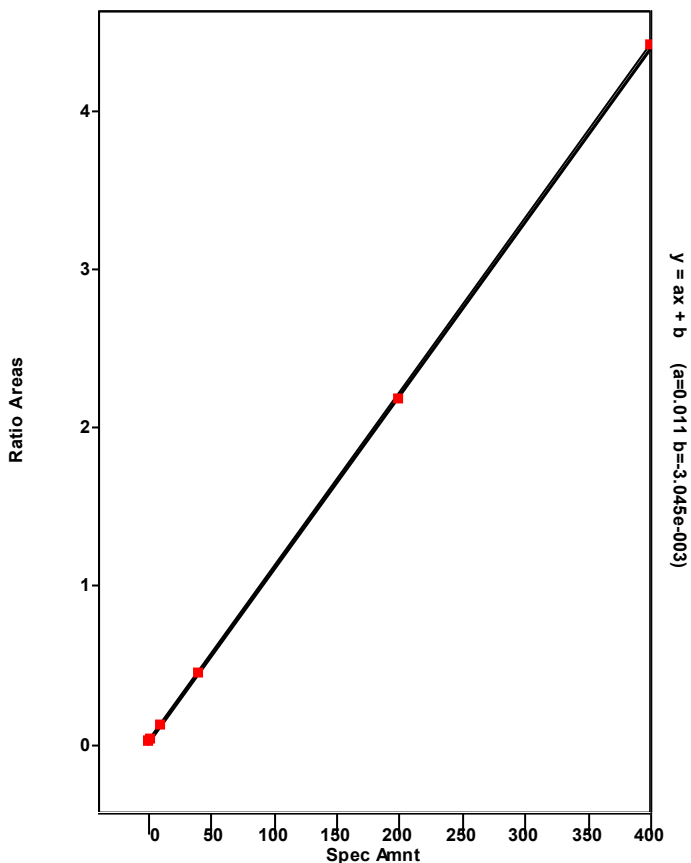


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	4191267
RM1 Area	3289151
RM1 Ratio (A)	0.7848
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

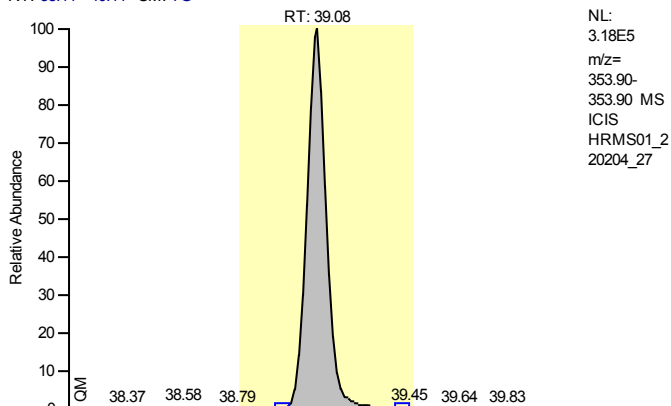
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



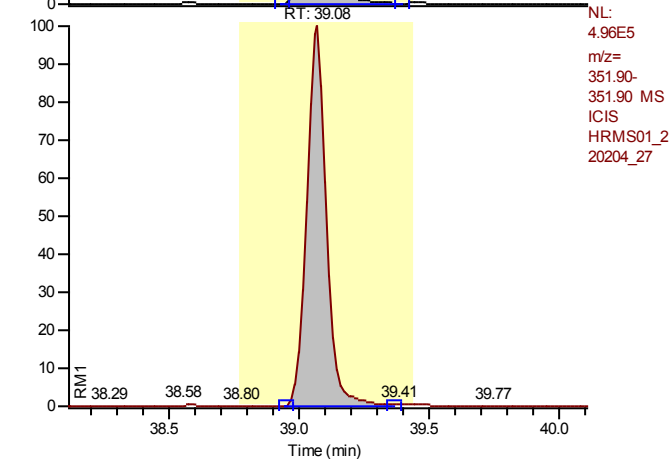
Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G



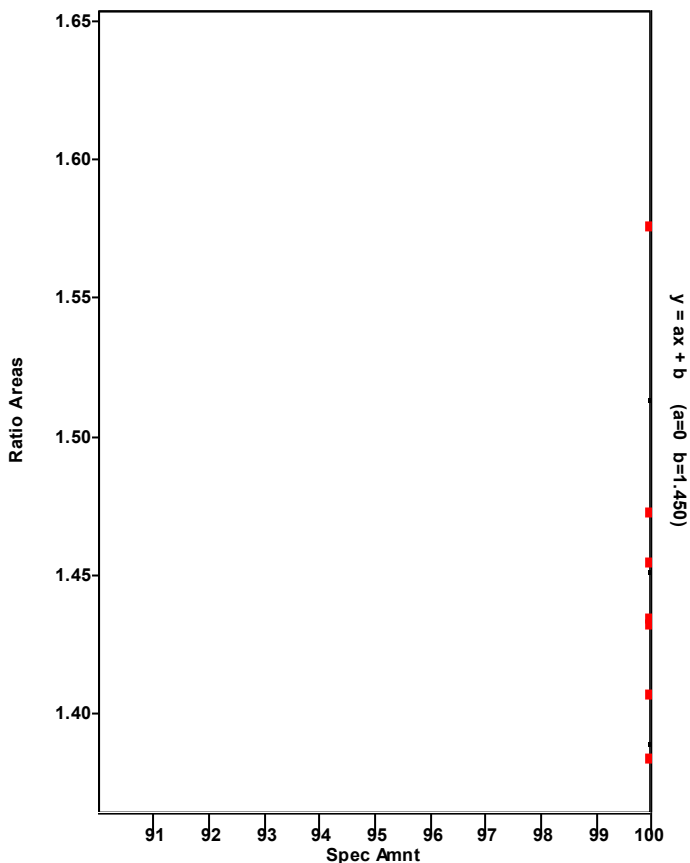
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1706298
RM1 Area	2663307
RM1 Ratio (A)	1.5609
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

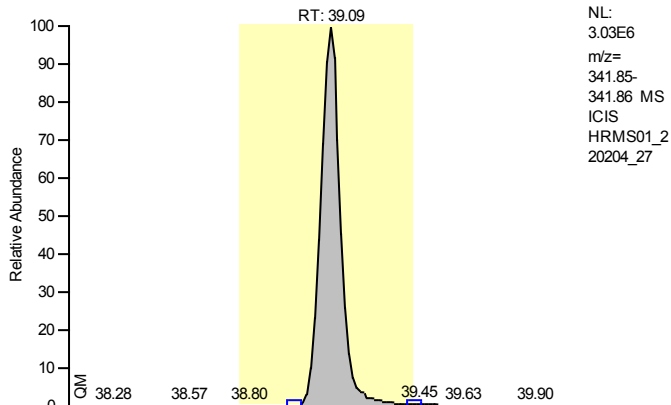
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



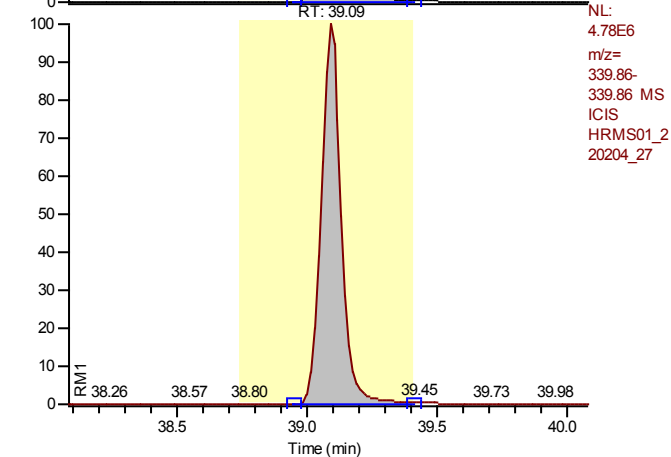
Chromatogram

Entry Parameters

RT: 38.08 - 40.08 SM: 7G



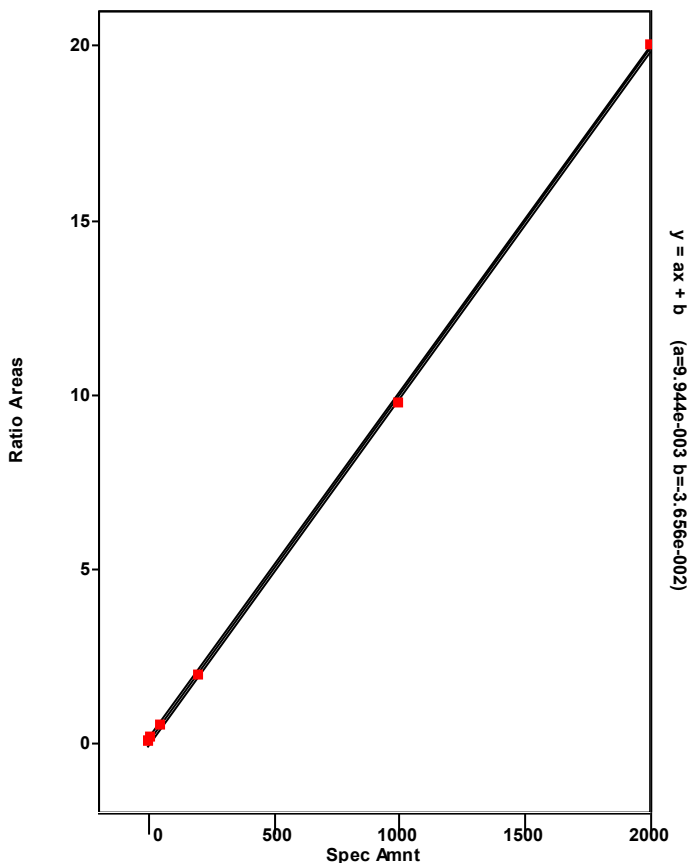
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	16425837
RM1 Area	25850478
RM1 Ratio (A)	1.5738
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	30.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

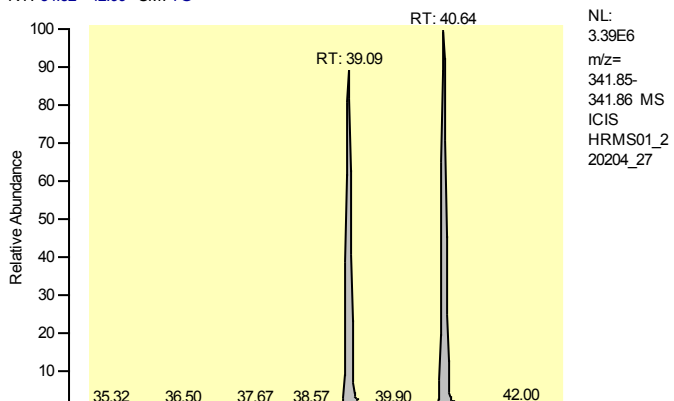
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



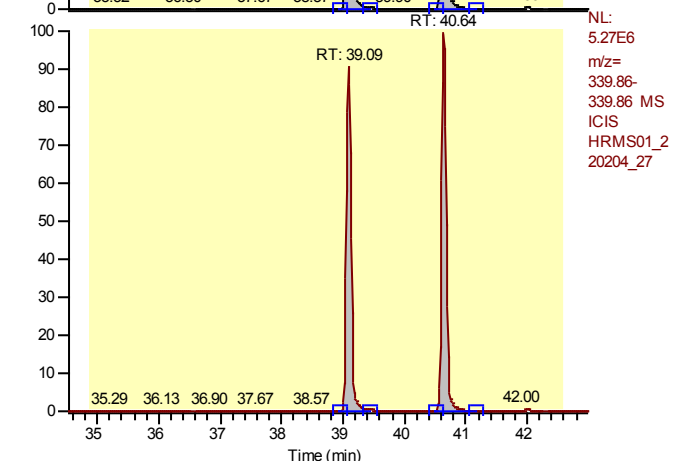
Chromatogram

Entry Parameters

RT: 34.52 - 42.99 SM: 7G



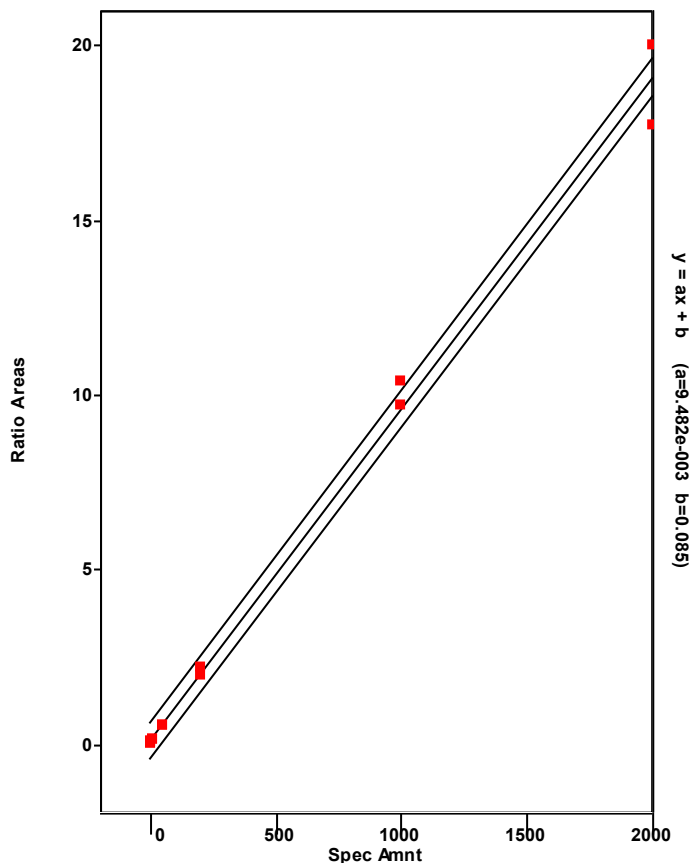
Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	34098143
RM1 Area	53497165
RM1 Ratio (A)	1.5689
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

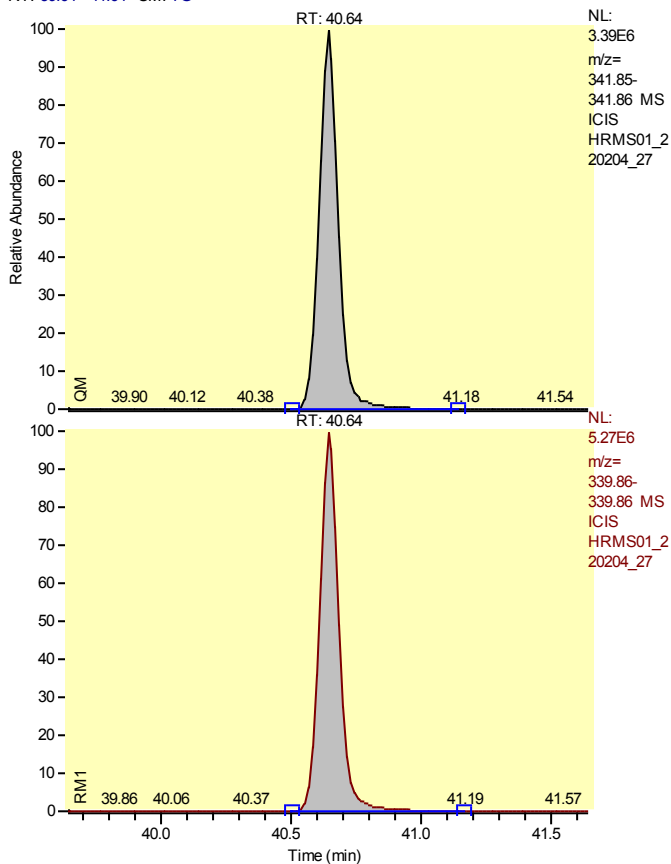
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G

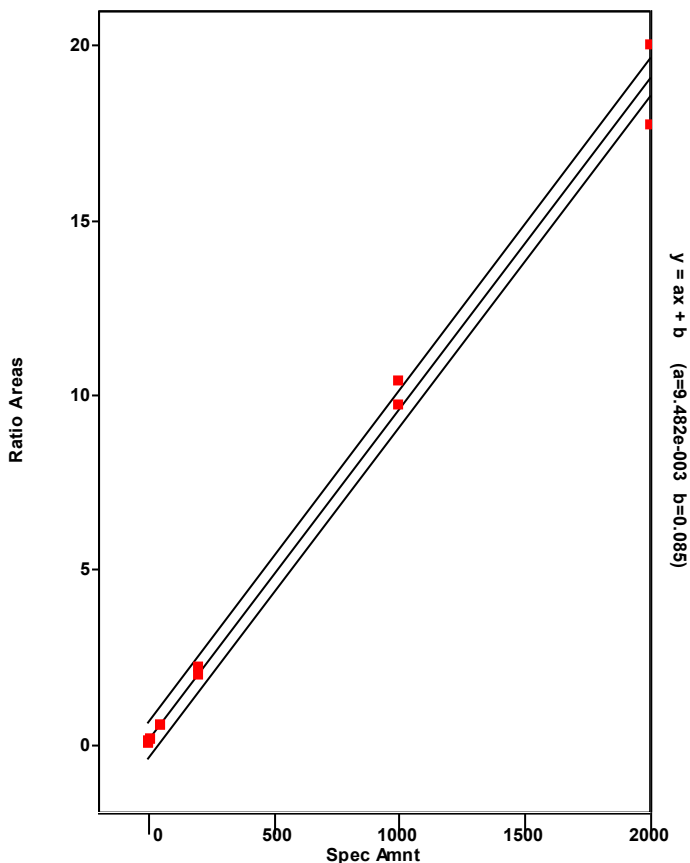


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	17672306
RM1 Area	27646687
RM1 Ratio (A)	1.5644
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

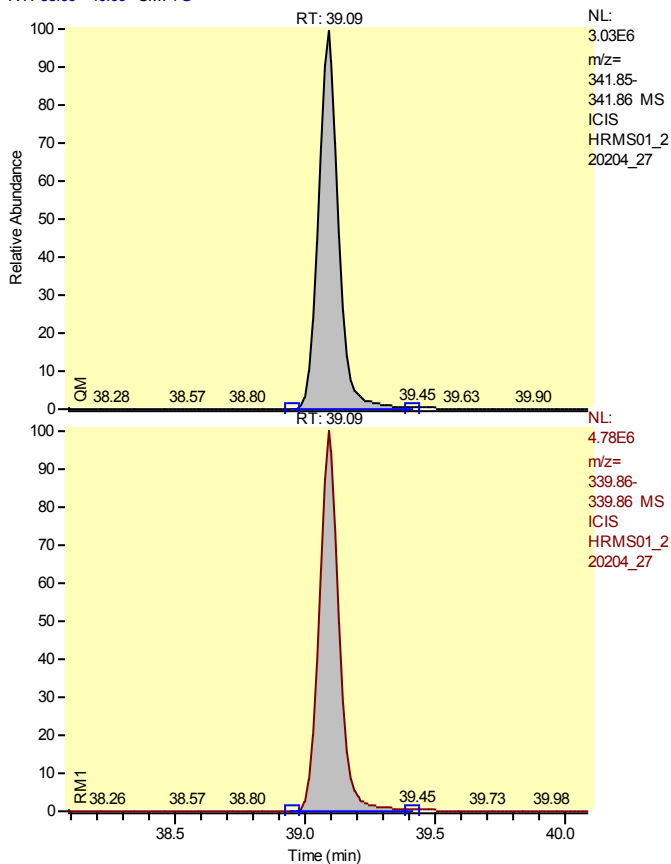
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G

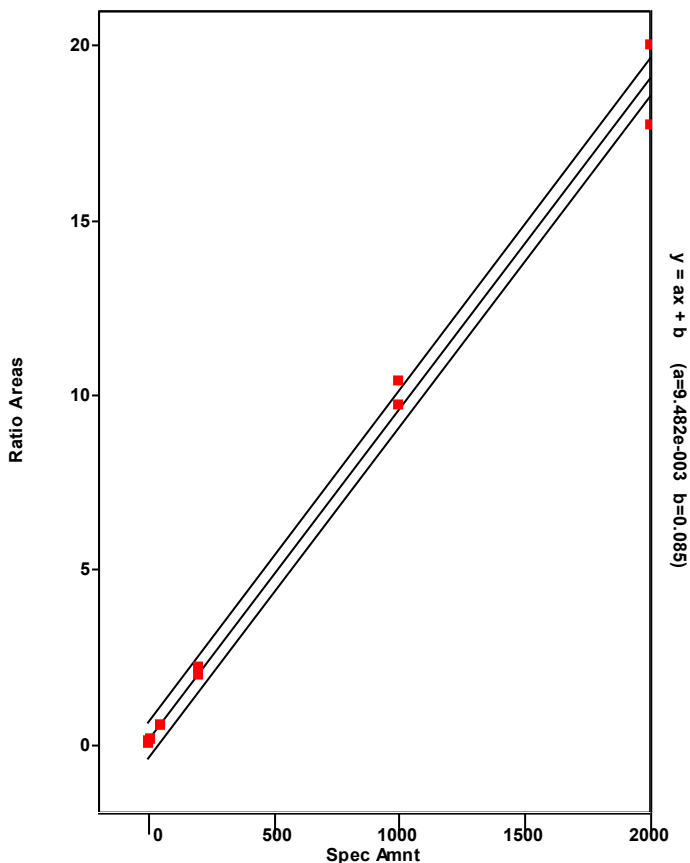


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	16425837
RM1 Area	25850478
RM1 Ratio (A)	1.5738
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

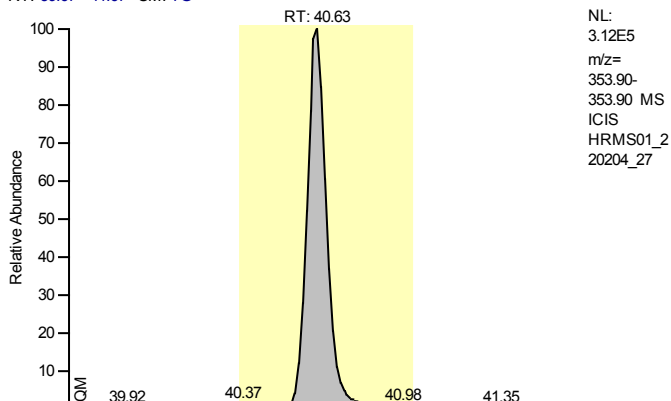
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



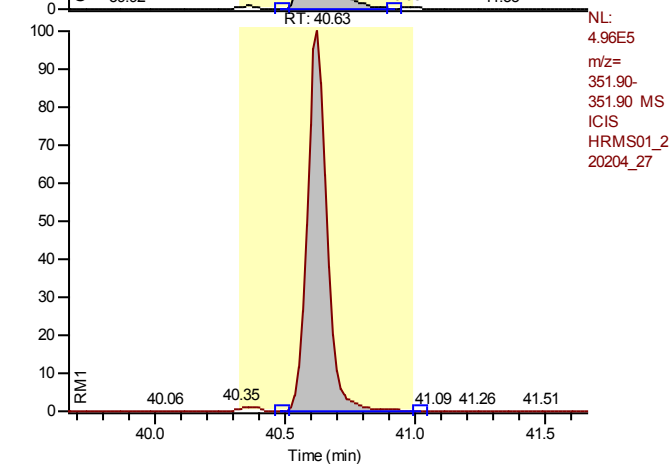
Chromatogram

Entry Parameters

RT: 39.67 - 41.67 SM: 7G



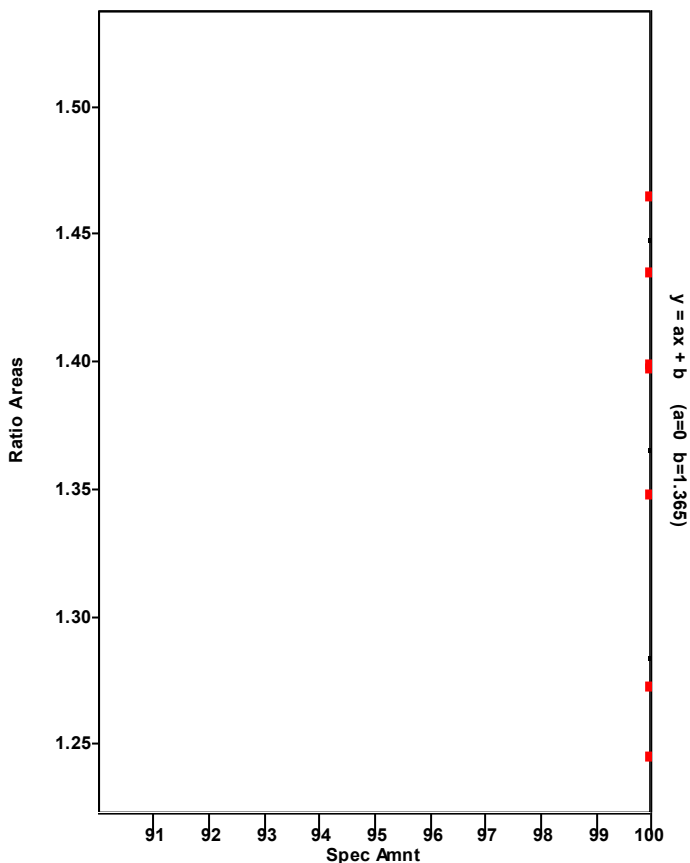
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1673898
RM1 Area	2635527
RM1 Ratio (A)	1.5745
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

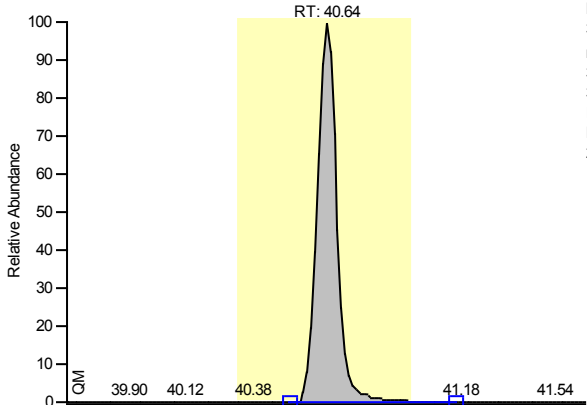
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

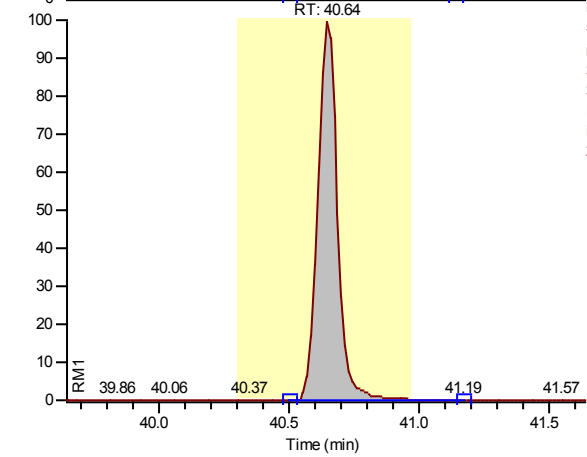
Entry Parameters

RT: 39.64 - 41.64 SM: 7G



NL:
 3.39E6
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	17672306
RM1 Area	27646687
RM1 Ratio (A)	1.5644
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	300.0000
Label2	

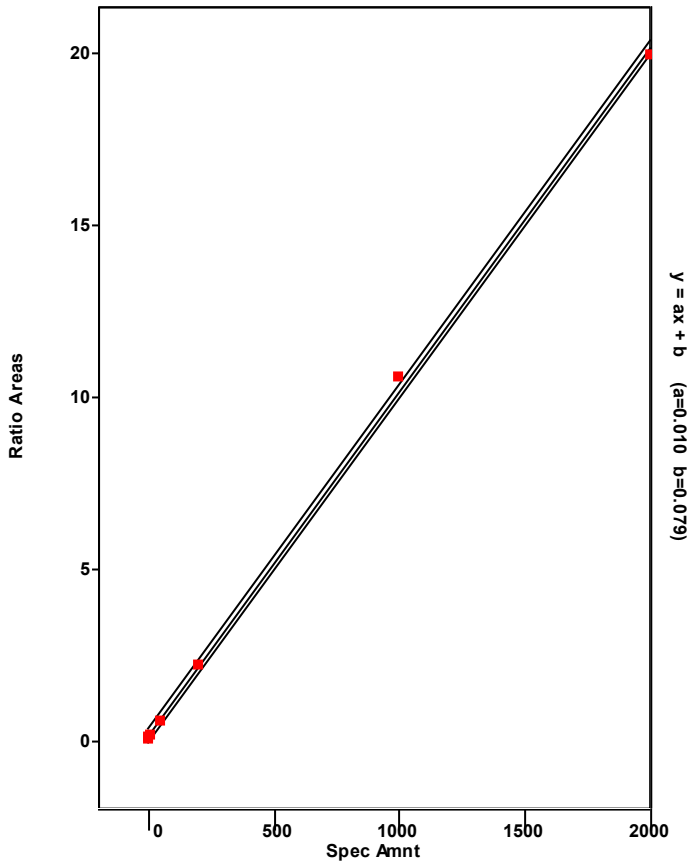


NL:
 5.27E6
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

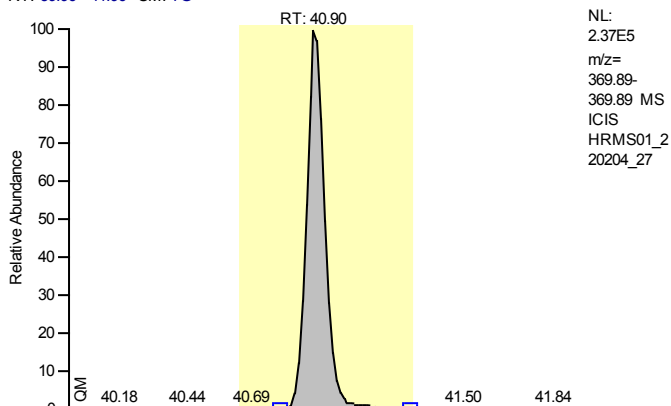
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



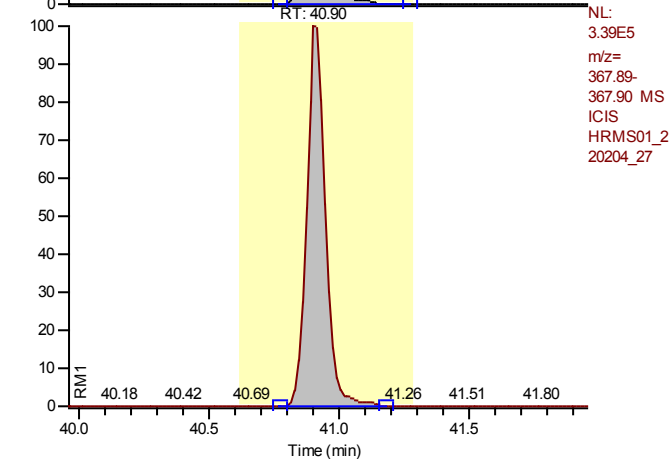
Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G



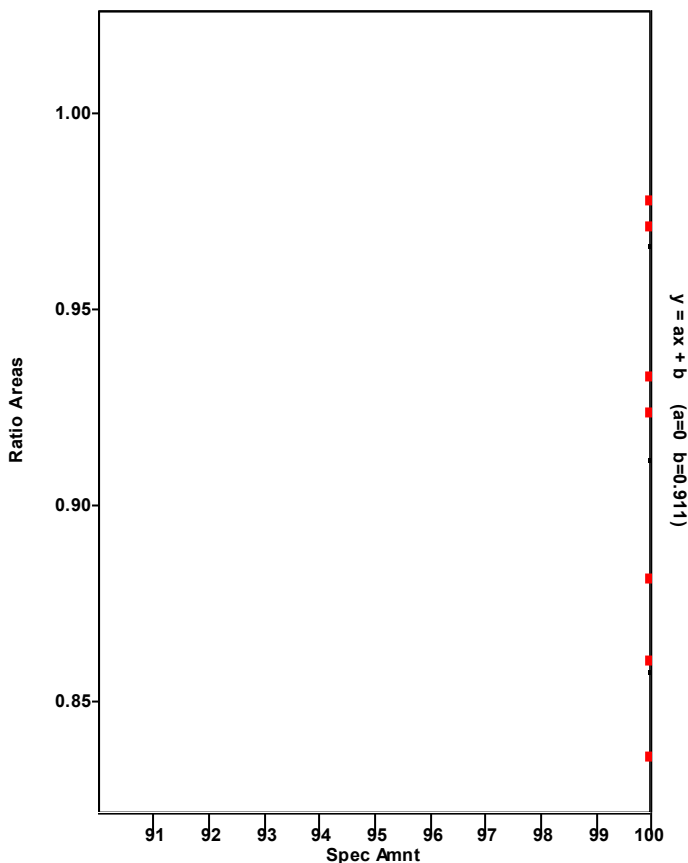
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1186637
RM1 Area	1731002
RM1 Ratio (A)	1.4587
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

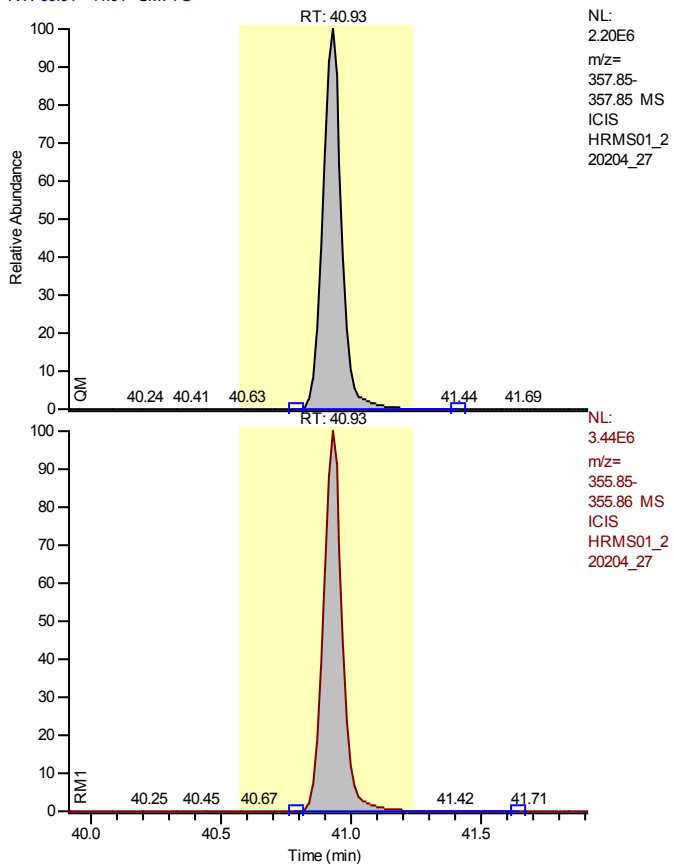
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.91 - 41.91 SM: 7G



NL:
 2.20E6
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20204_27

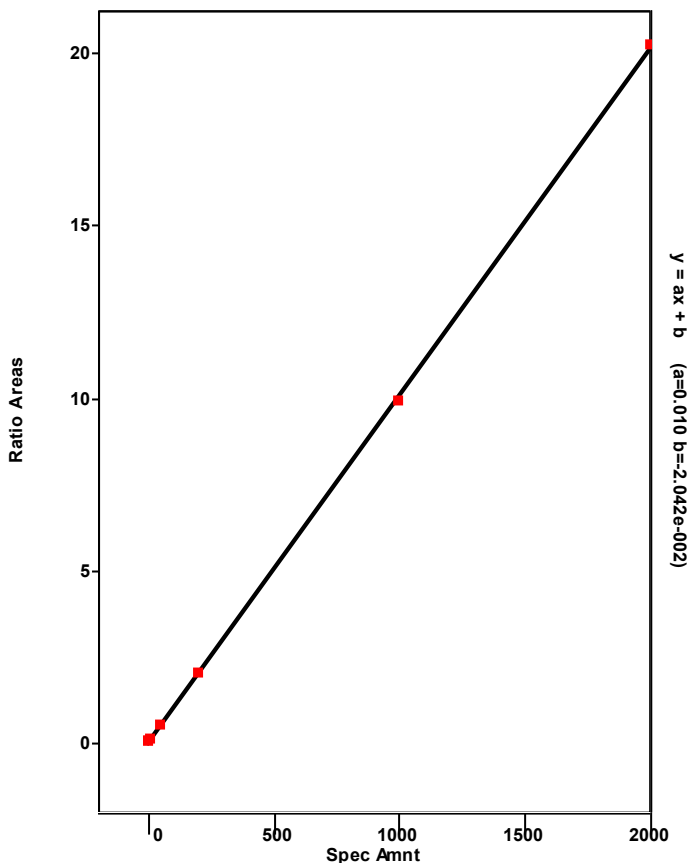
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	11188443
RM1 Area	17648349
RM1 Ratio (A)	1.5774
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	1000.0000
Label2	

NL:
 3.44E6
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

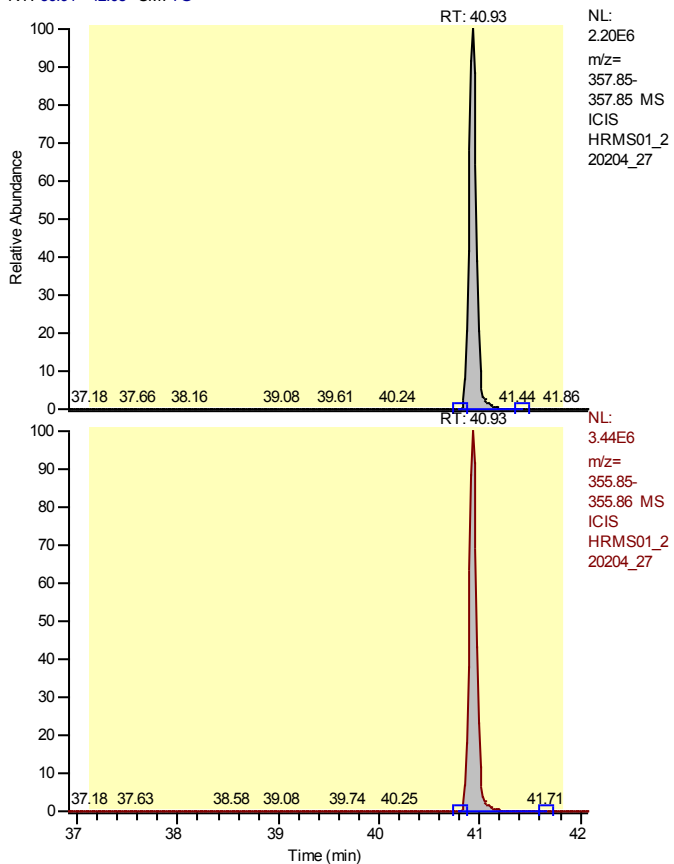
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.91 - 42.08 SM: 7G

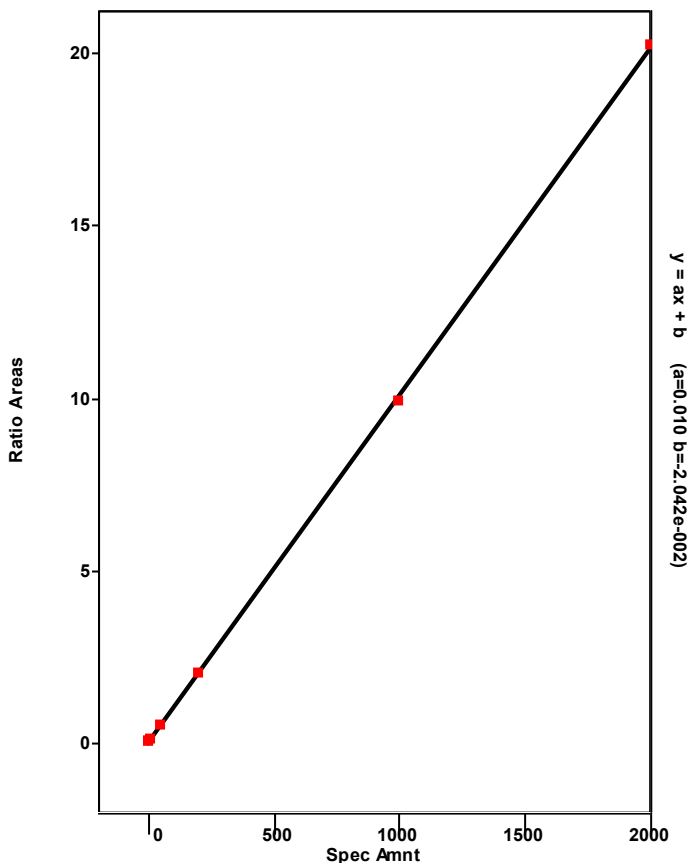


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	11188443
RM1 Area	17648349
RM1 Ratio (A)	1.5774
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

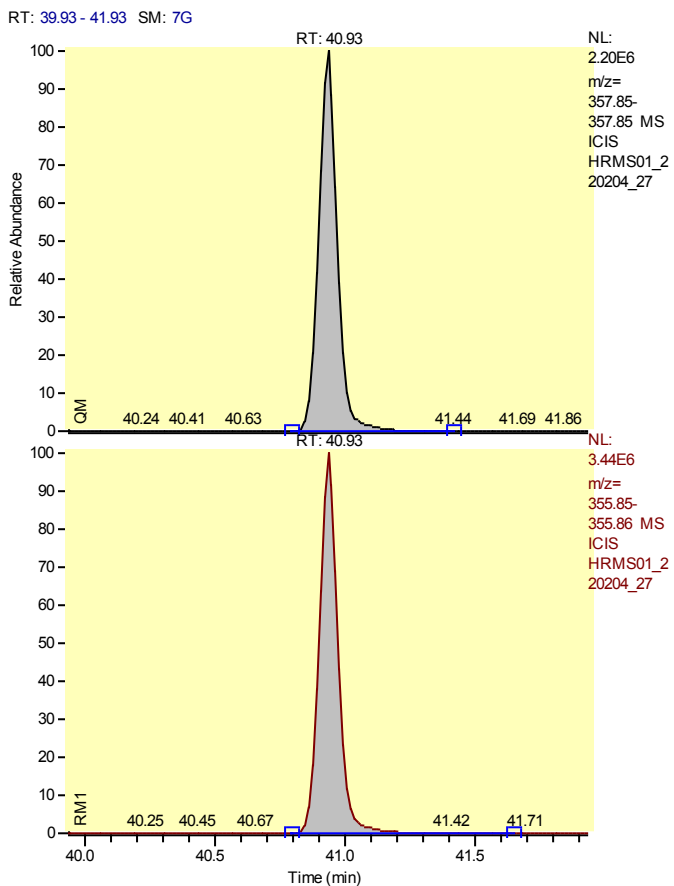
Calibration Points of Total Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

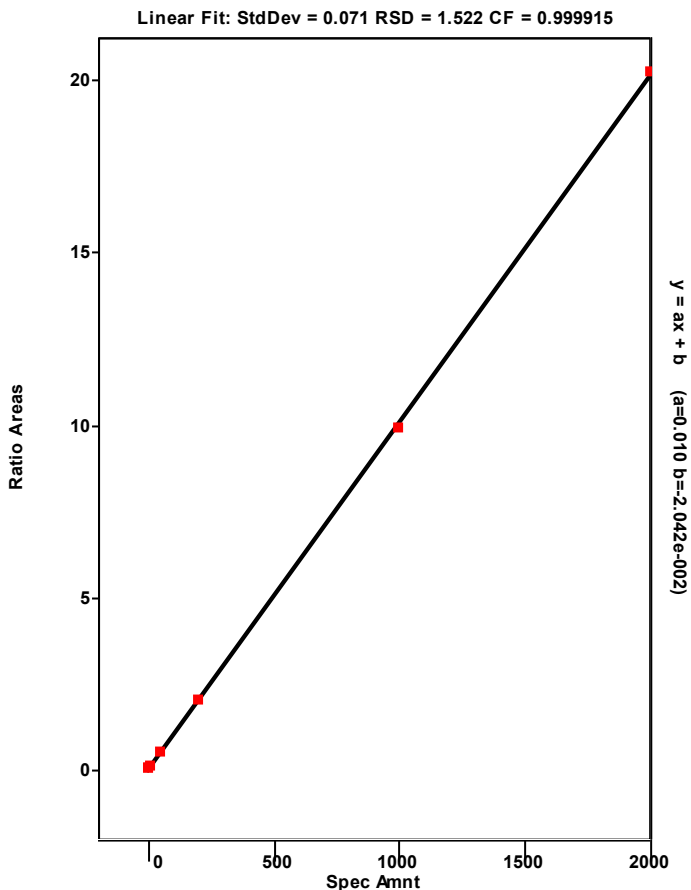
Entry Parameters



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	11188443
RM1 Area	17648349
RM1 Ratio (A)	1.5774
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

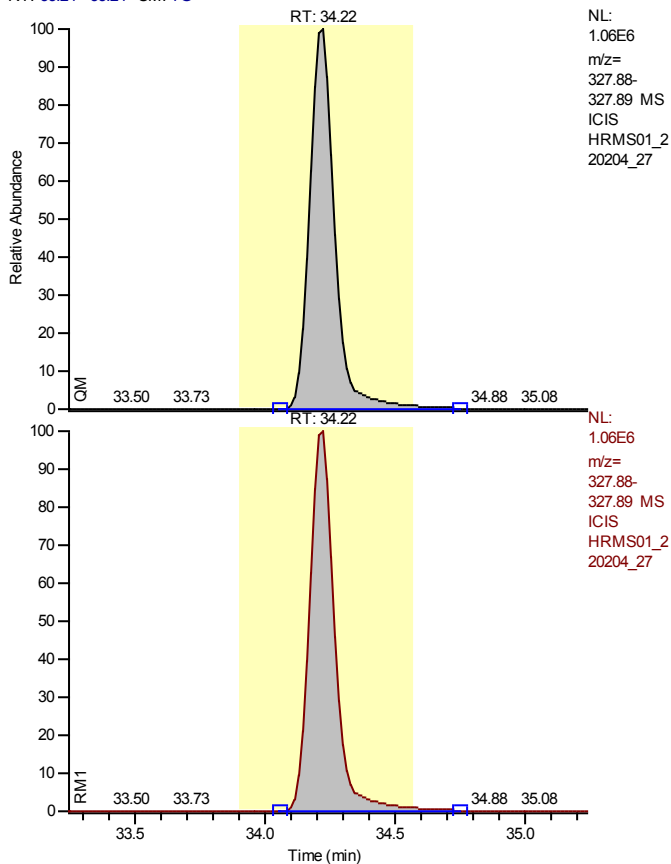
Calibration Points of Total Pentachlorodibenzo-p-dioxin__1



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G

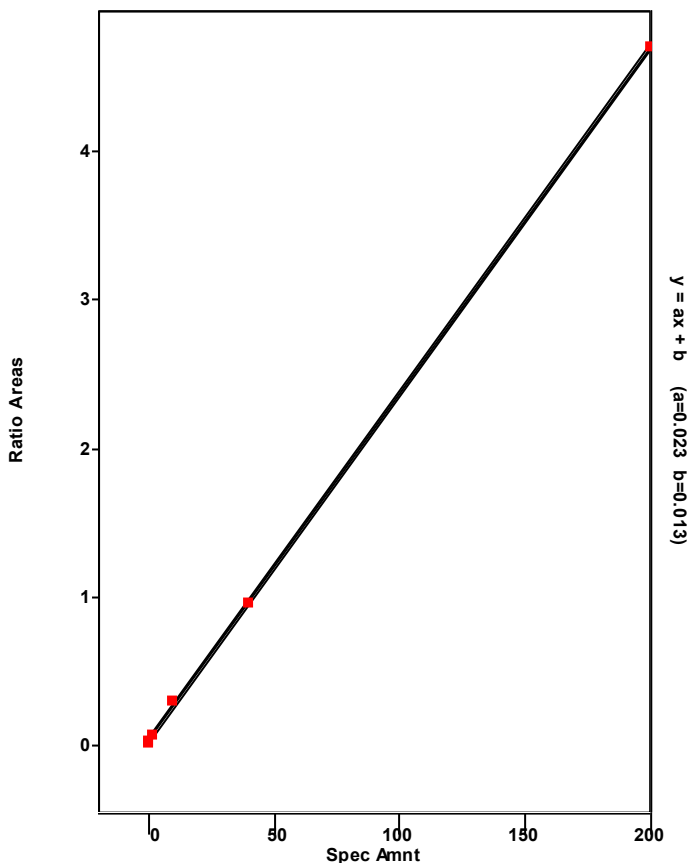


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	7037052
RM1 Area	7037052
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

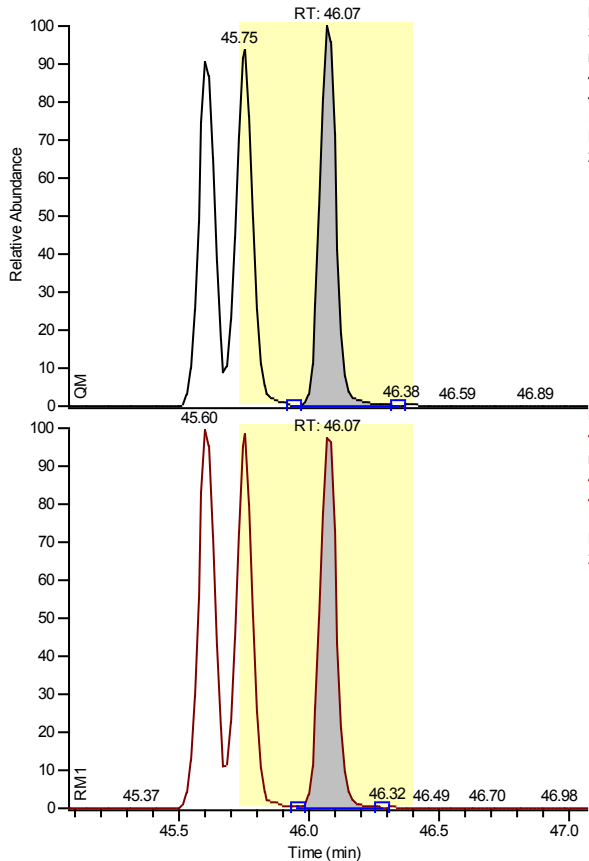
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 3.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_27

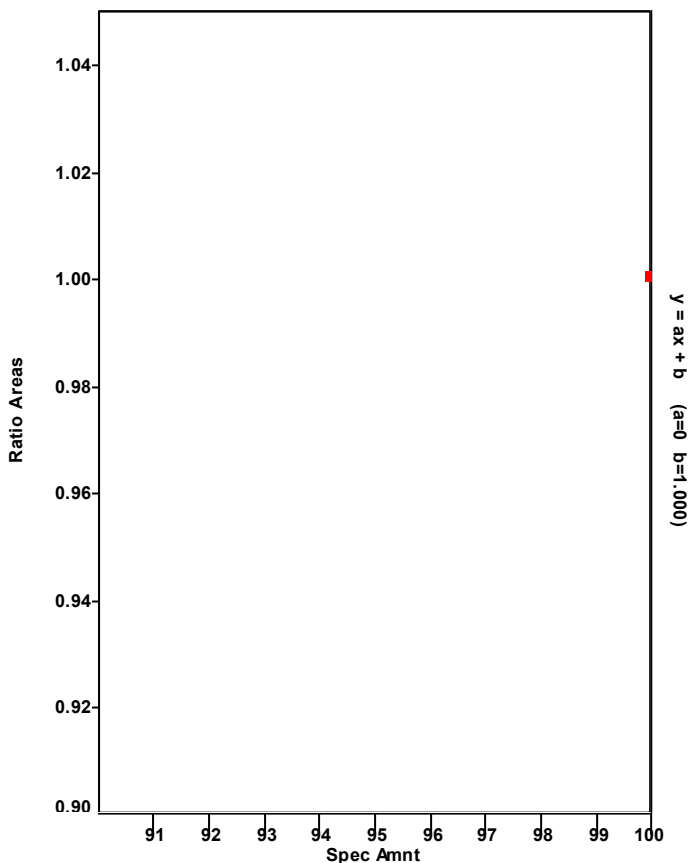
NL:
 4.16E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1558536
RM1 Area	1851366
RM1 Ratio (A)	1.1879
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

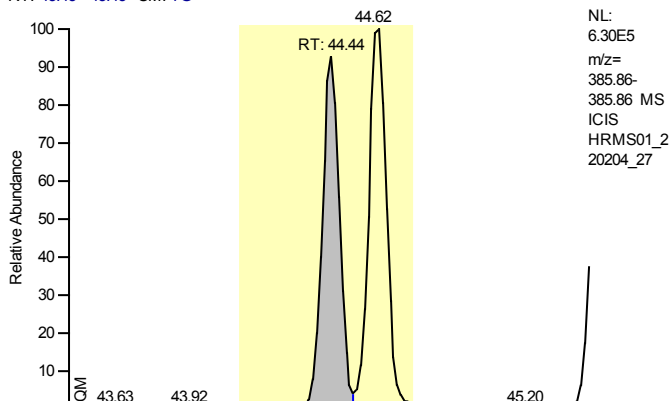
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



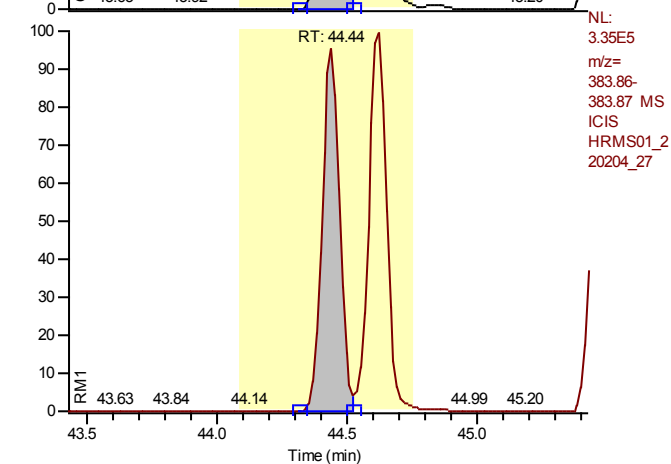
Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G



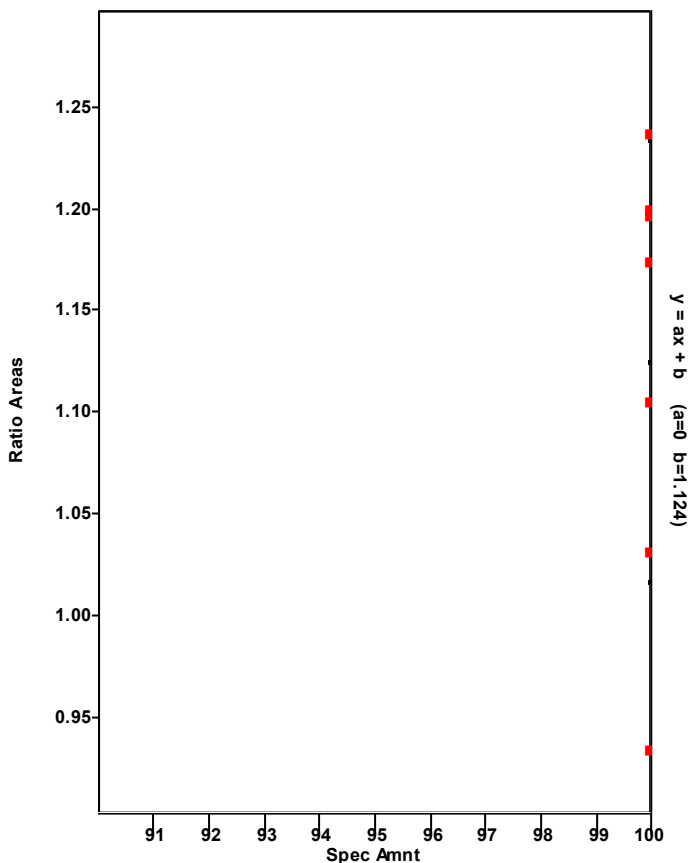
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2713210
RM1 Area	1496526
RM1 Ratio (A)	0.5516
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

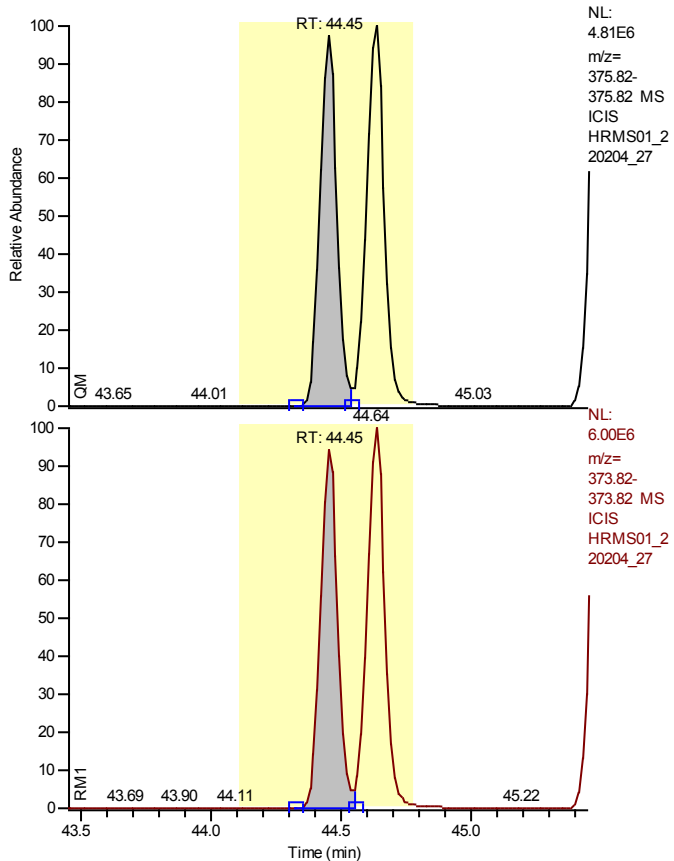
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

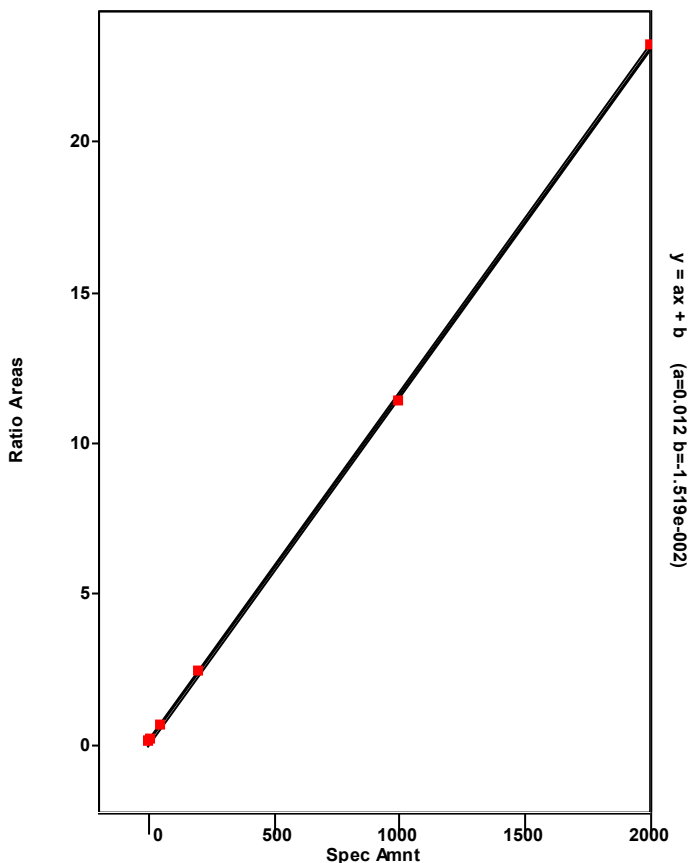


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	21357308
RM1 Area	26200099
RM1 Ratio (A)	1.2268
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

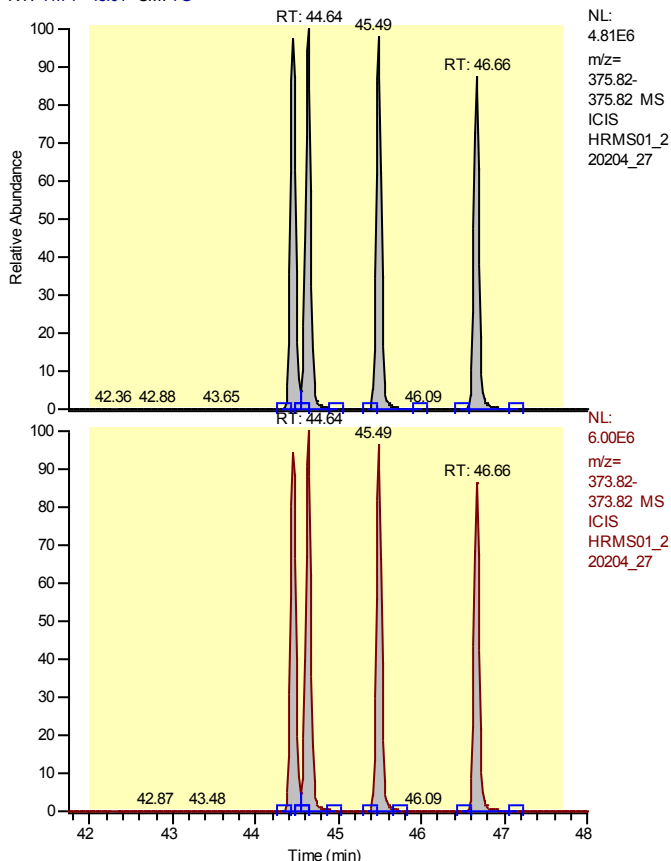
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.74 - 48.01 SM: 7G

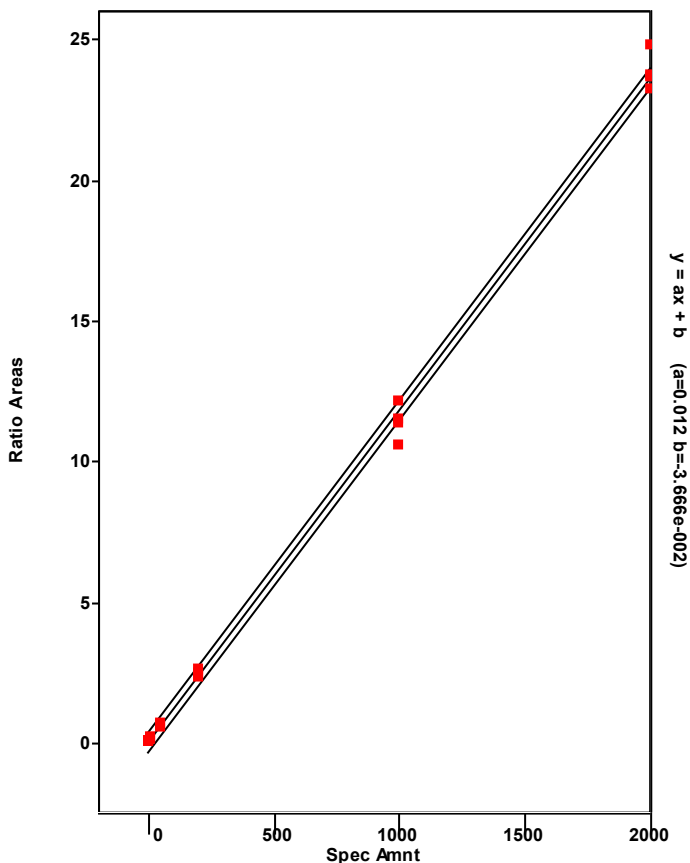


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	85606208
RM1 Area	105307923
RM1 Ratio (A)	1.2301
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

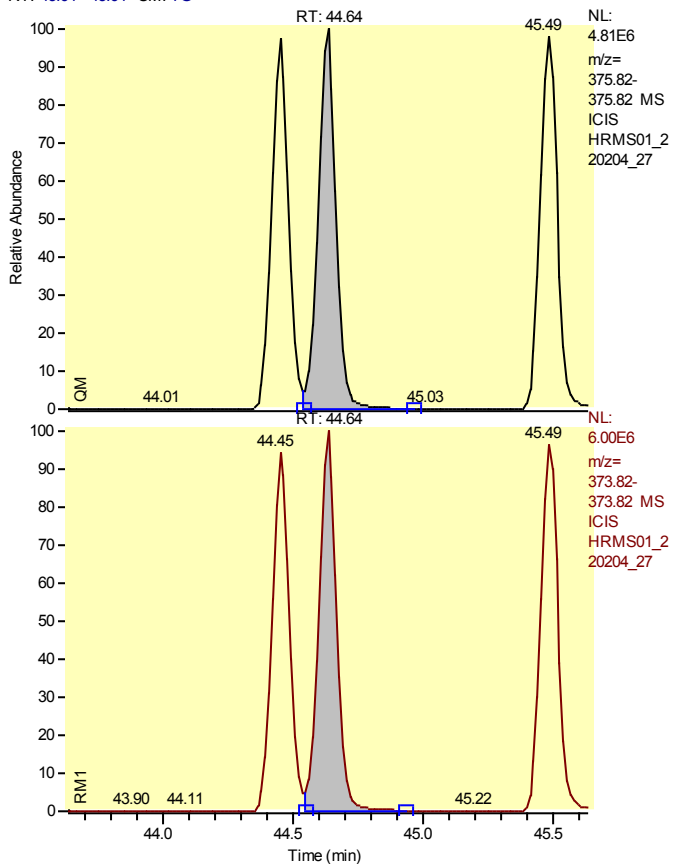
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.64 - 45.64 SM: 7G

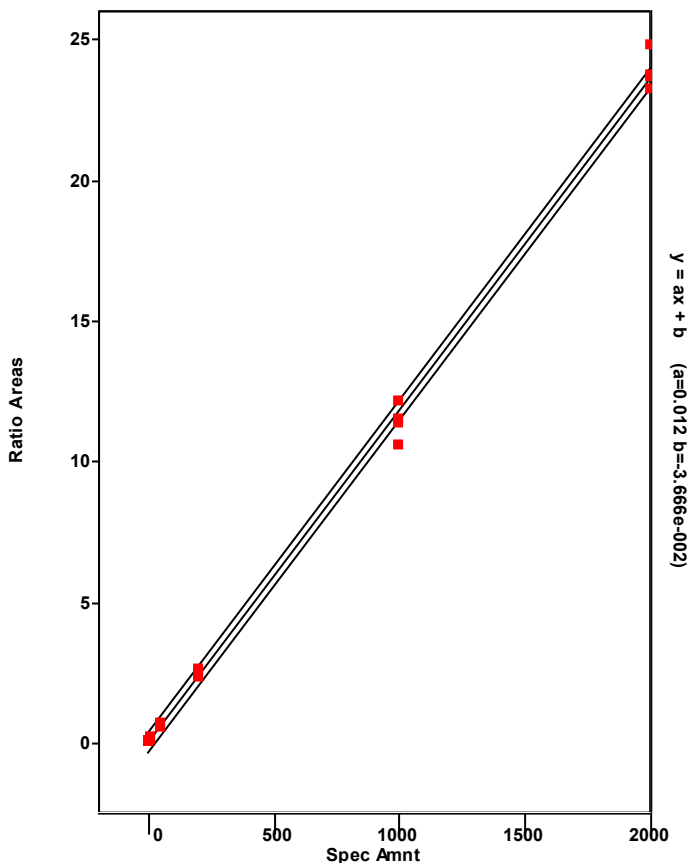


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	22805802
RM1 Area	28015044
RM1 Ratio (A)	1.2284
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

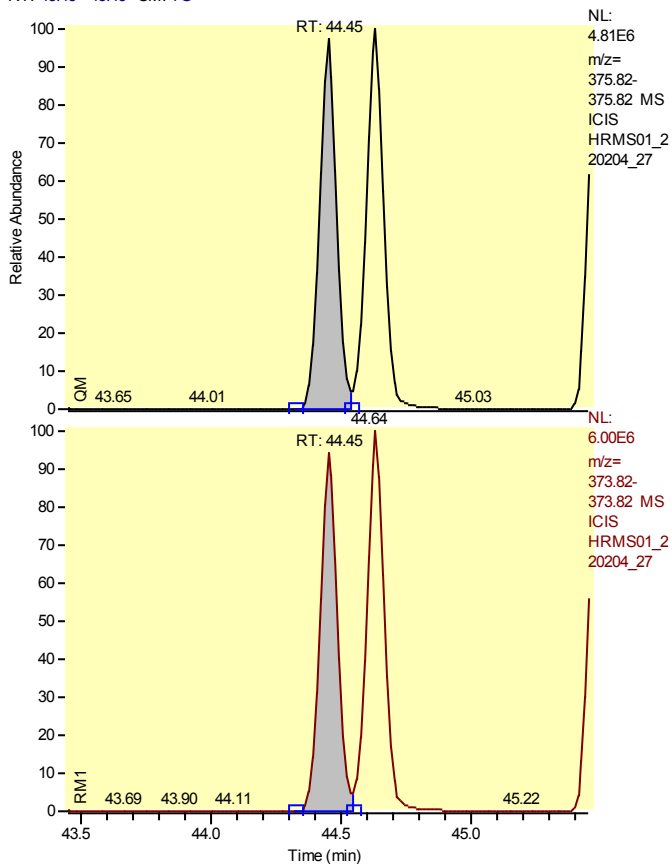
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

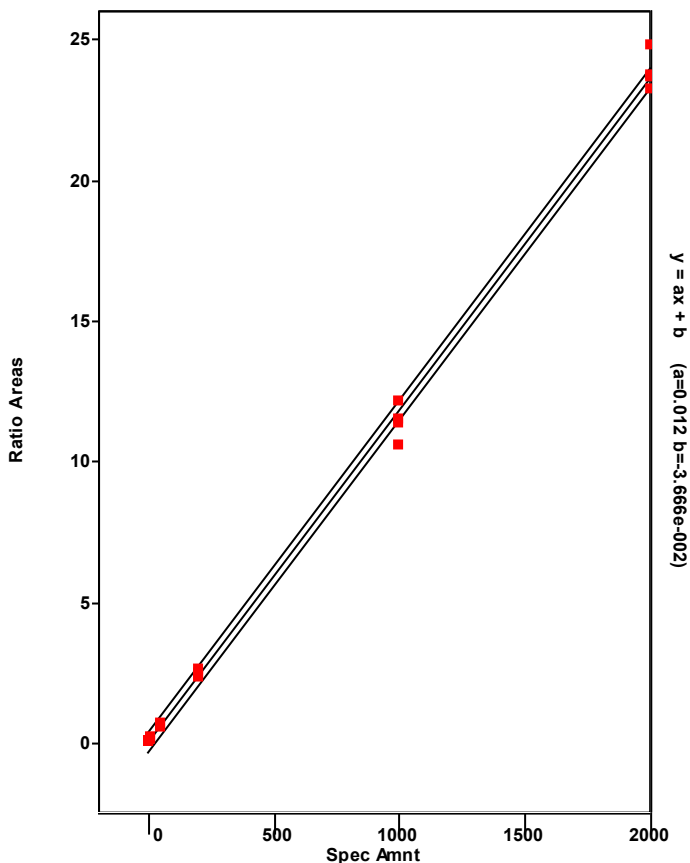


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	21357308
RM1 Area	26200099
RM1 Ratio (A)	1.2268
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

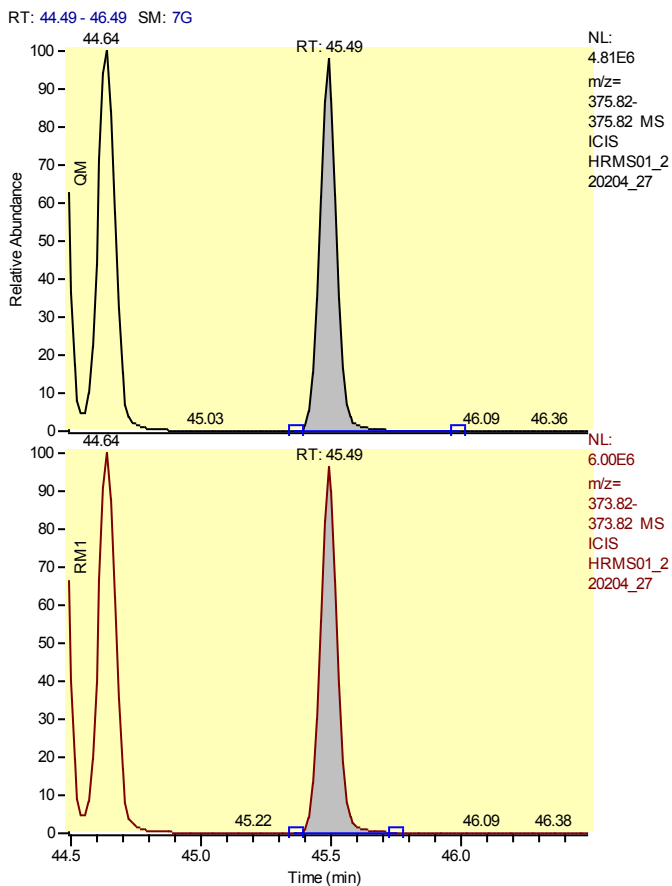
Calibration Points of Total Hexachlorodibenzofuran__2

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

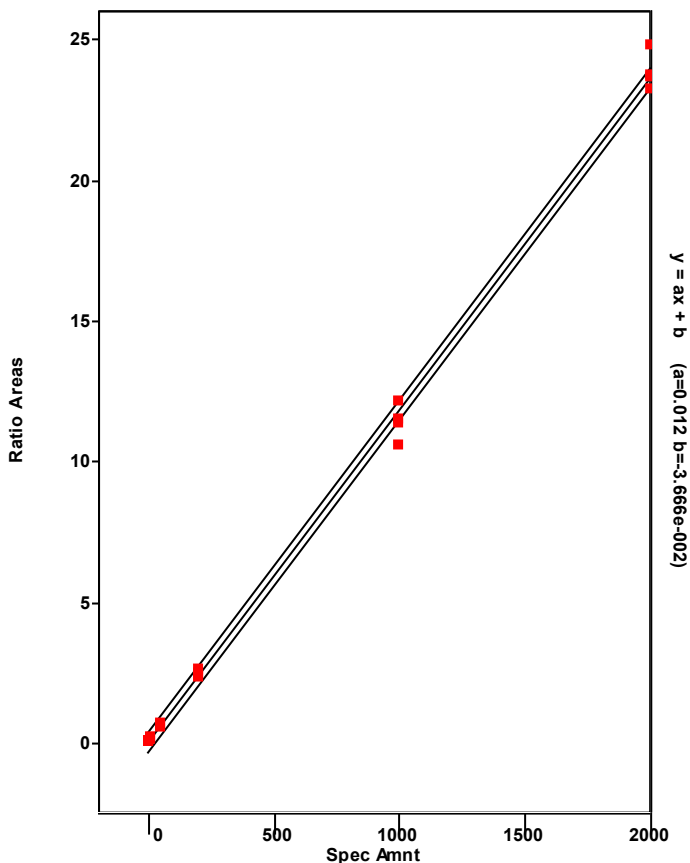


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	21601824
RM1 Area	26505966
RM1 Ratio (A)	1.2270
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

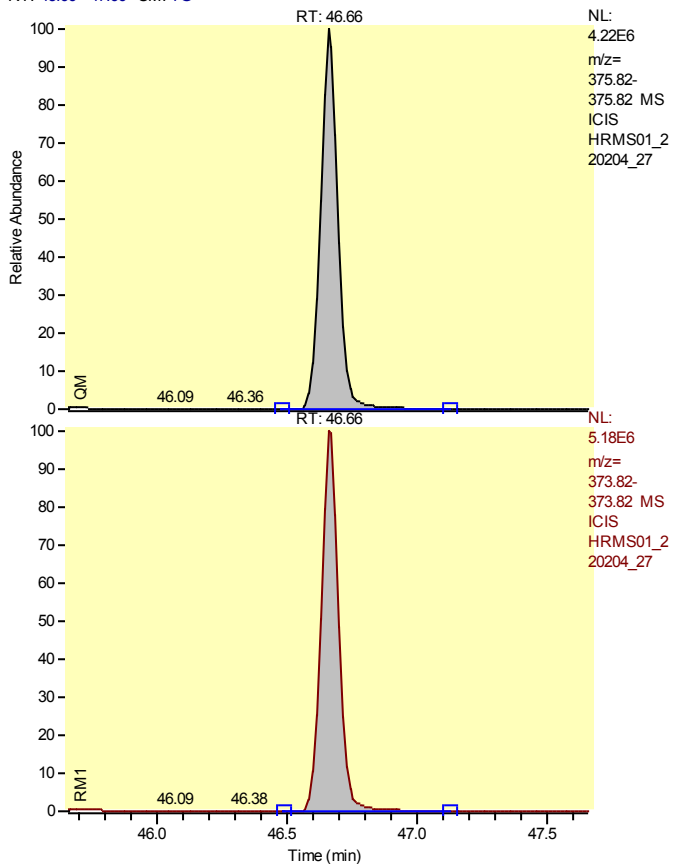
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

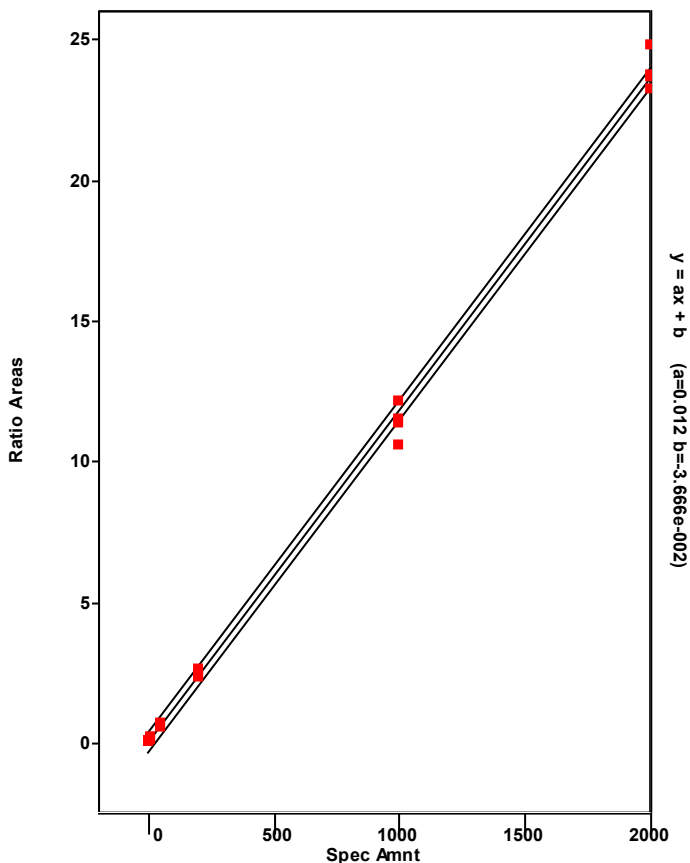


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	19841275
RM1 Area	24586815
RM1 Ratio (A)	1.2392
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

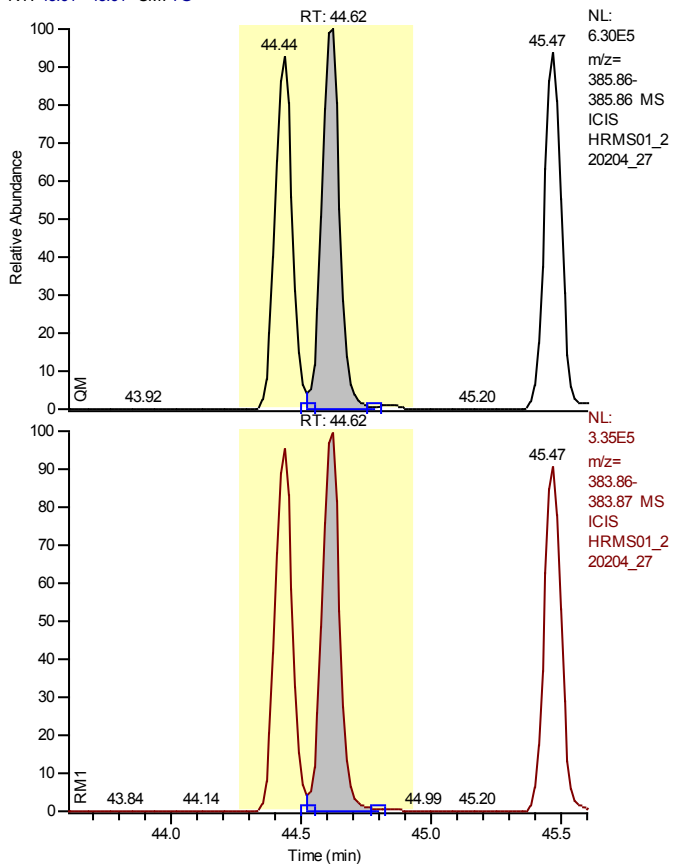
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.61 - 45.61 SM: 7G

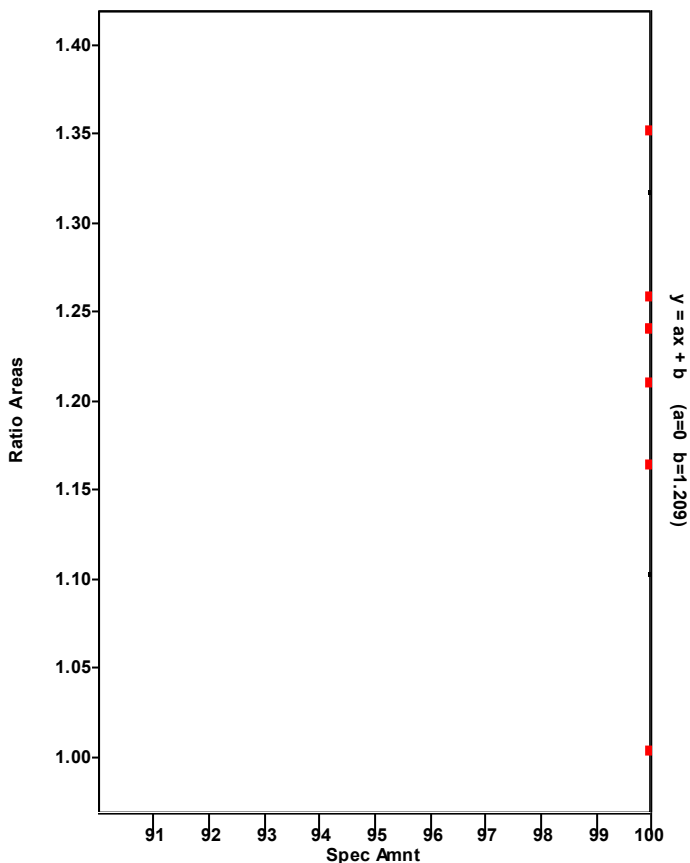


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	3016941
RM1 Area	1589466
RM1 Ratio (A)	0.5268
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

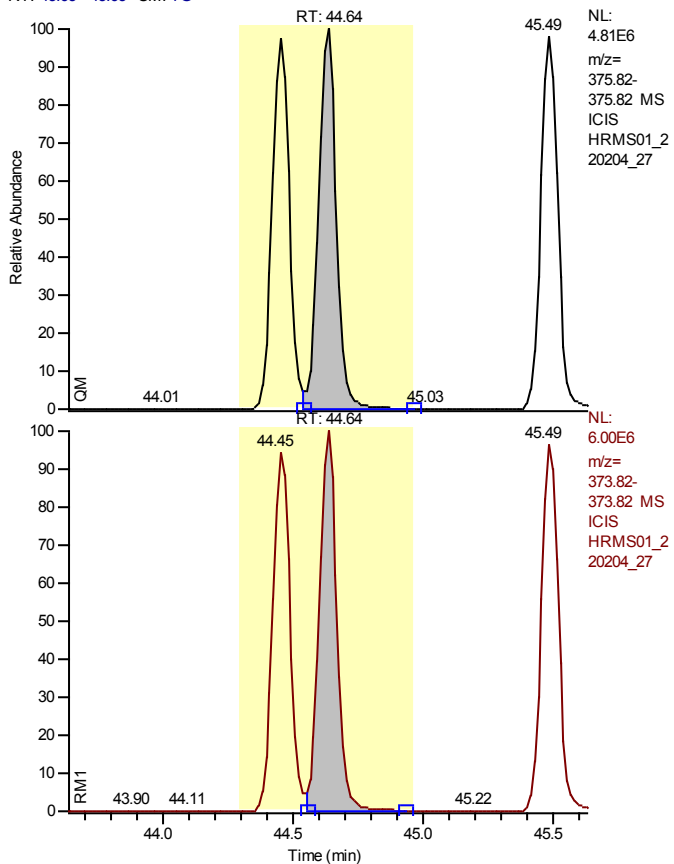
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

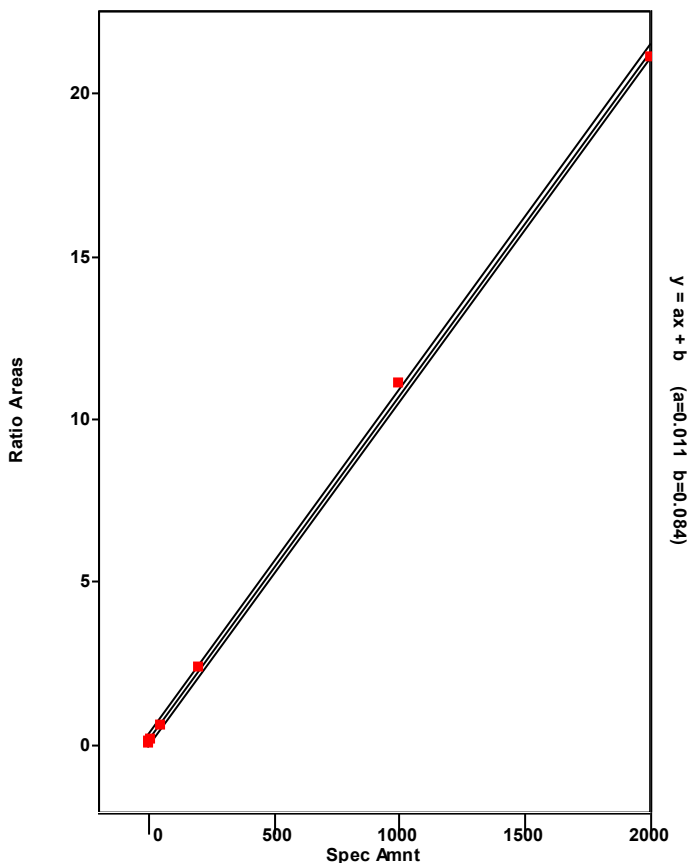


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	22805802
RM1 Area	28015044
RM1 Ratio (A)	1.2284
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

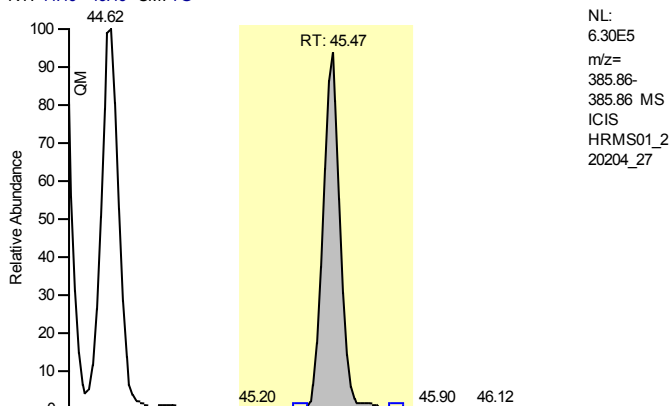
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

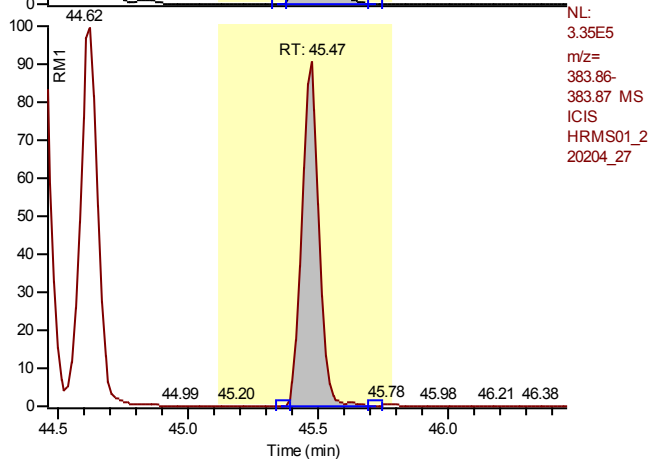
Entry Parameters

RT: 44.46 - 46.46 SM: 7G



NL:
 6.30E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2724427
RM1 Area	1401729
RM1 Ratio (A)	0.5145
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

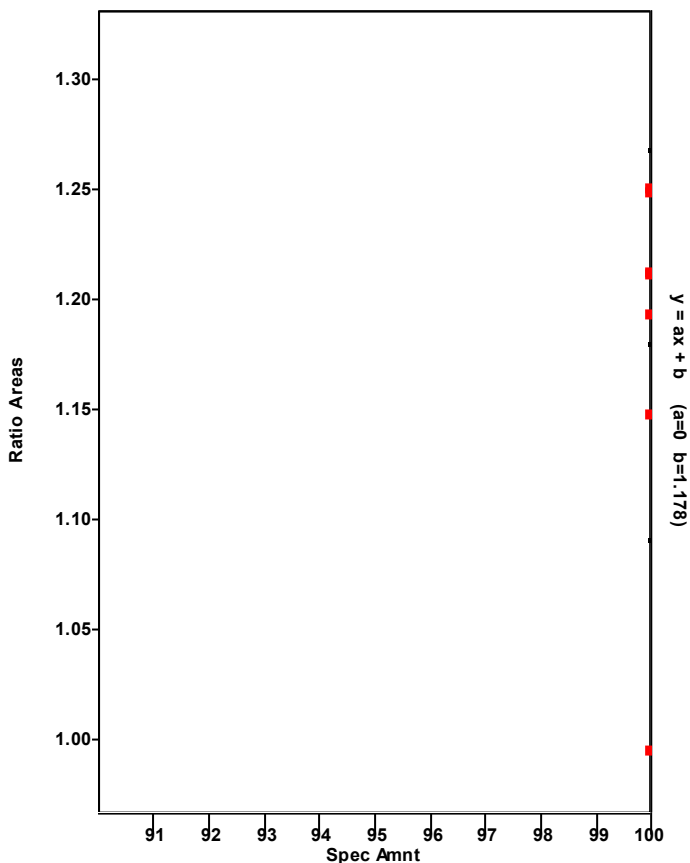


NL:
 3.35E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

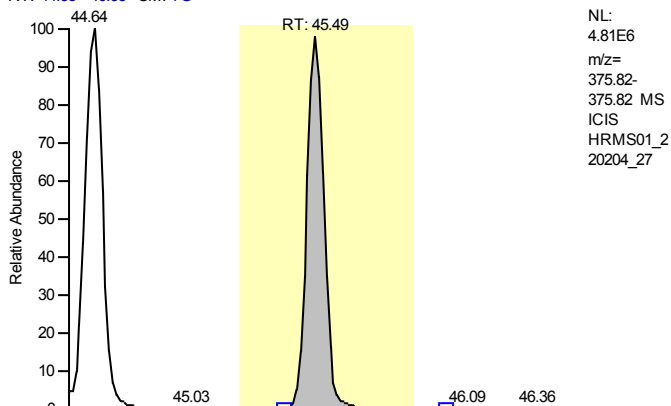
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

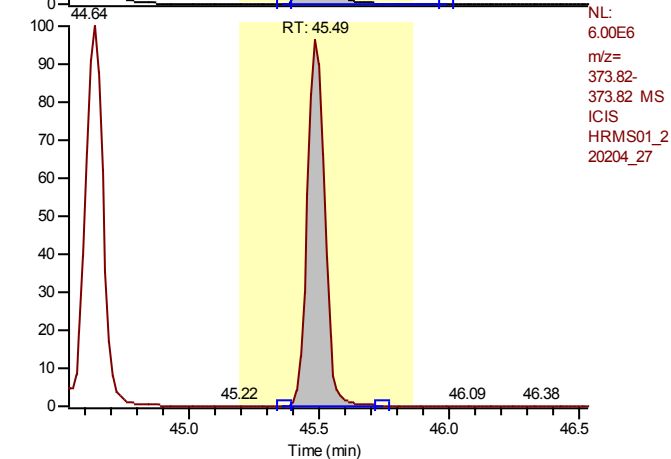
Entry Parameters

RT: 44.53 - 46.53 SM: 7G



NL:
 4.81E6
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	21601824
RM1 Area	26505966
RM1 Ratio (A)	1.2270
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

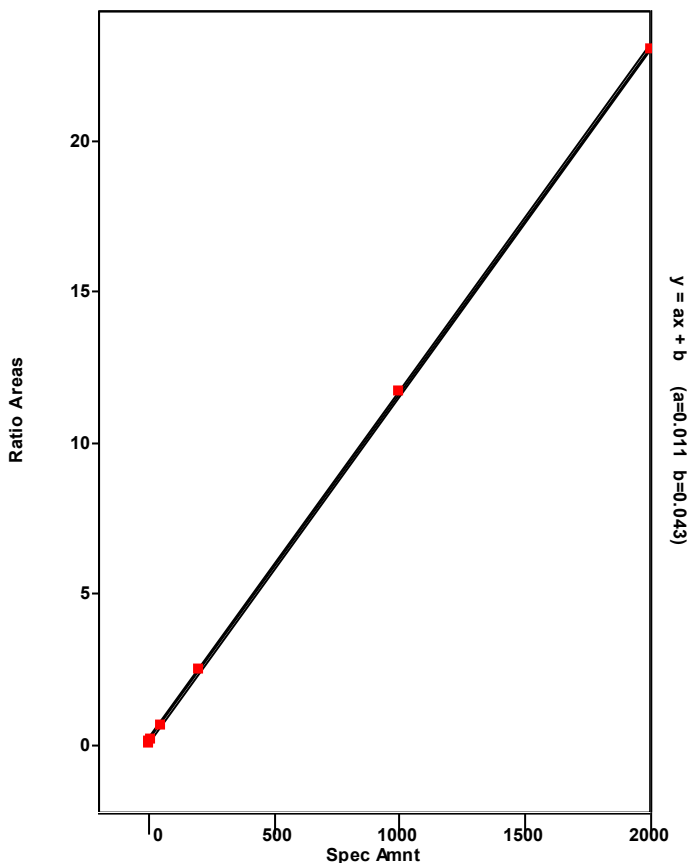


NL:
 6.00E6
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

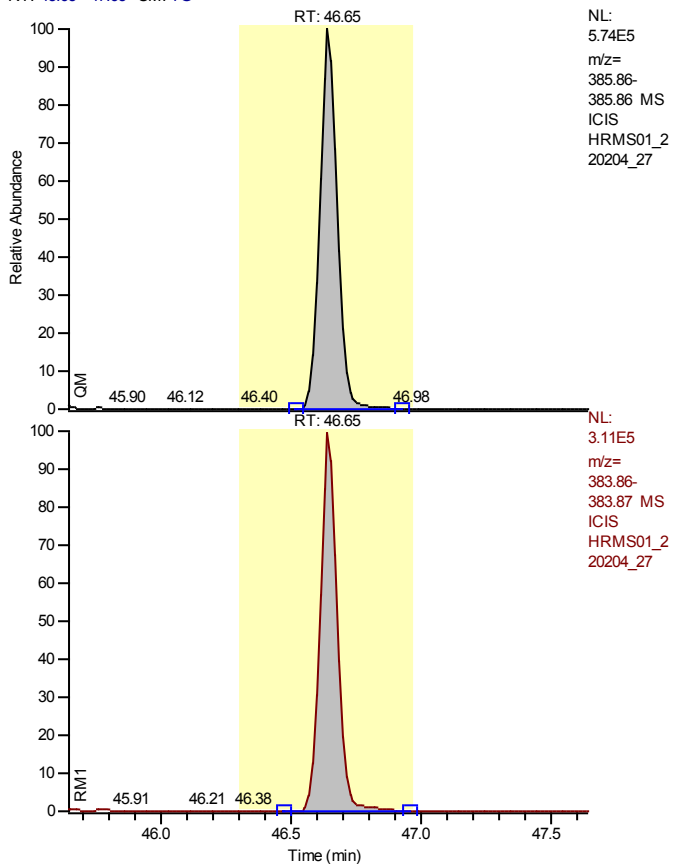
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G

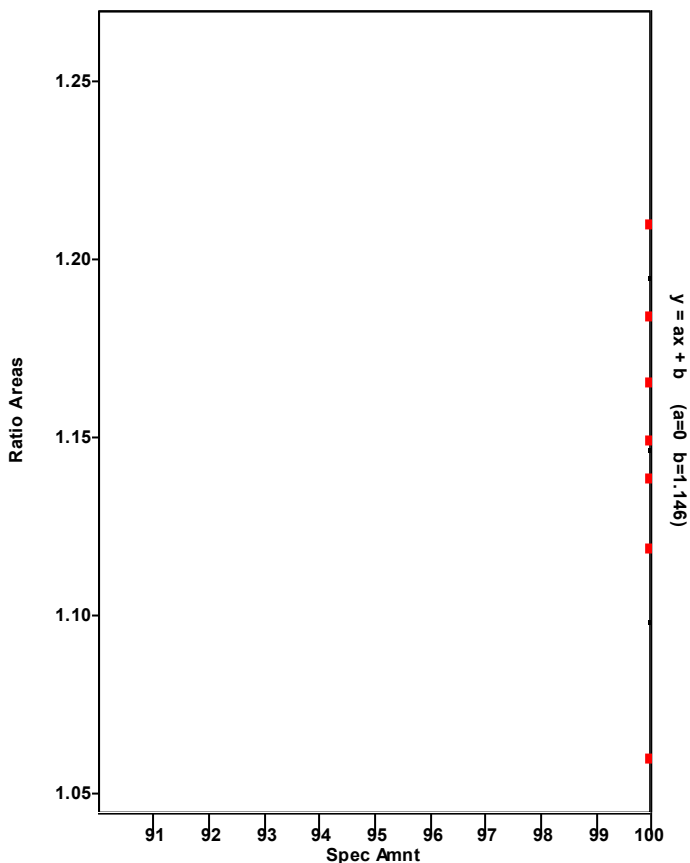


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	2696010
RM1 Area	1426618
RM1 Ratio (A)	0.5292
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

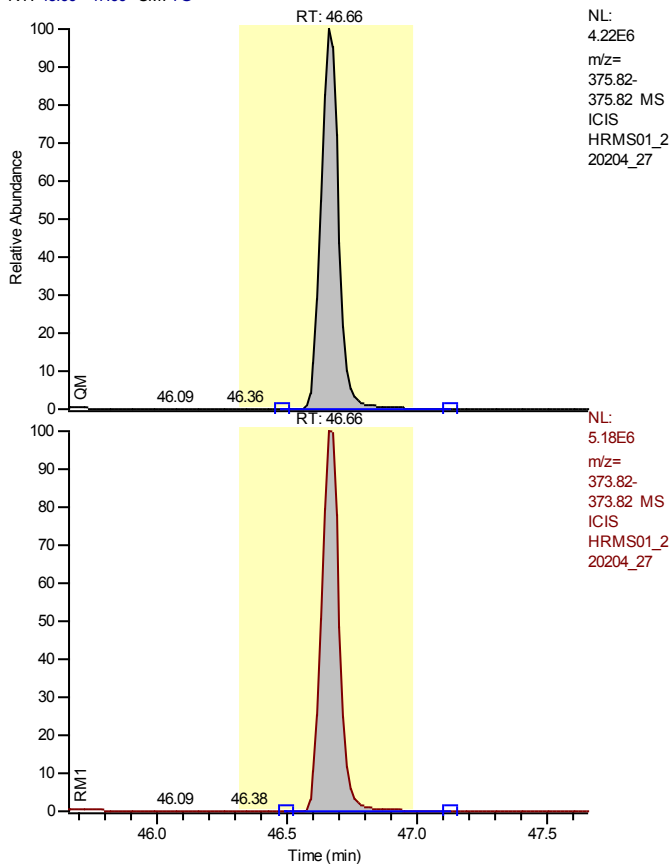
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



NL:
 4.22E6
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_27

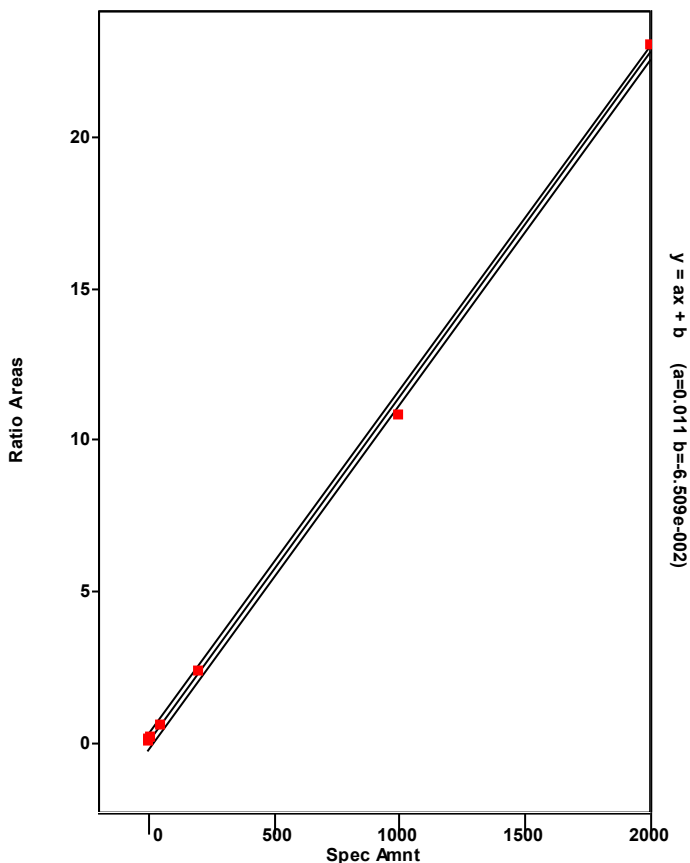
NL:
 5.18E6
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	19841275
RM1 Area	24586815
RM1 Ratio (A)	1.2392
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

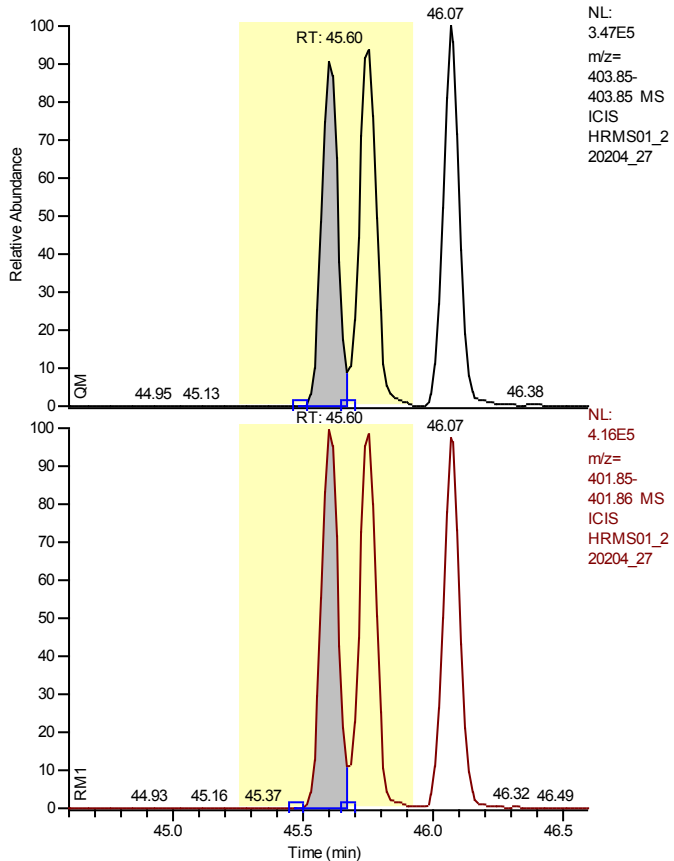
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.60 - 46.60 SM: 7G



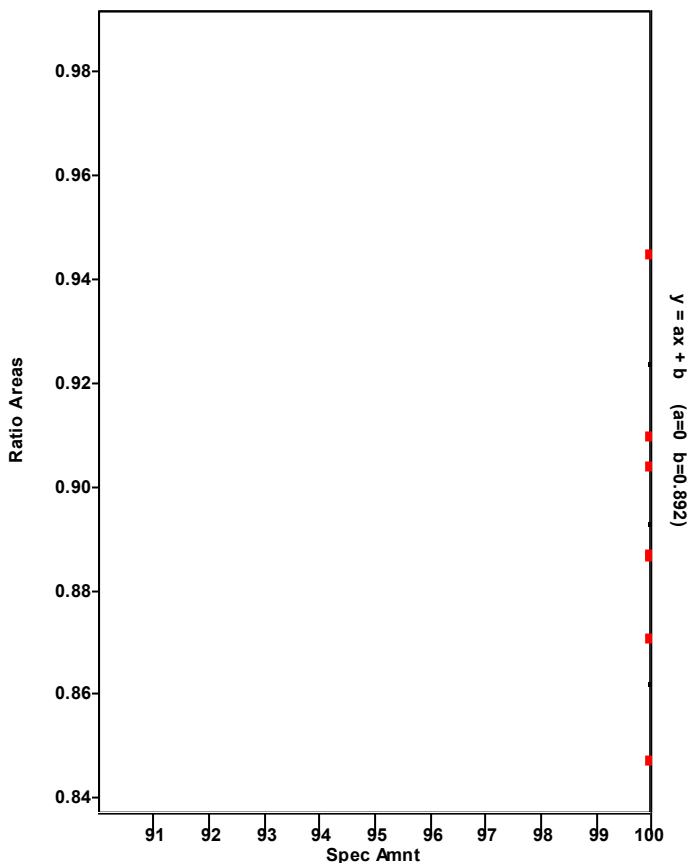
NL:
 3.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1373637
RM1 Area	1846387
RM1 Ratio (A)	1.3442
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 4.16E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_27

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

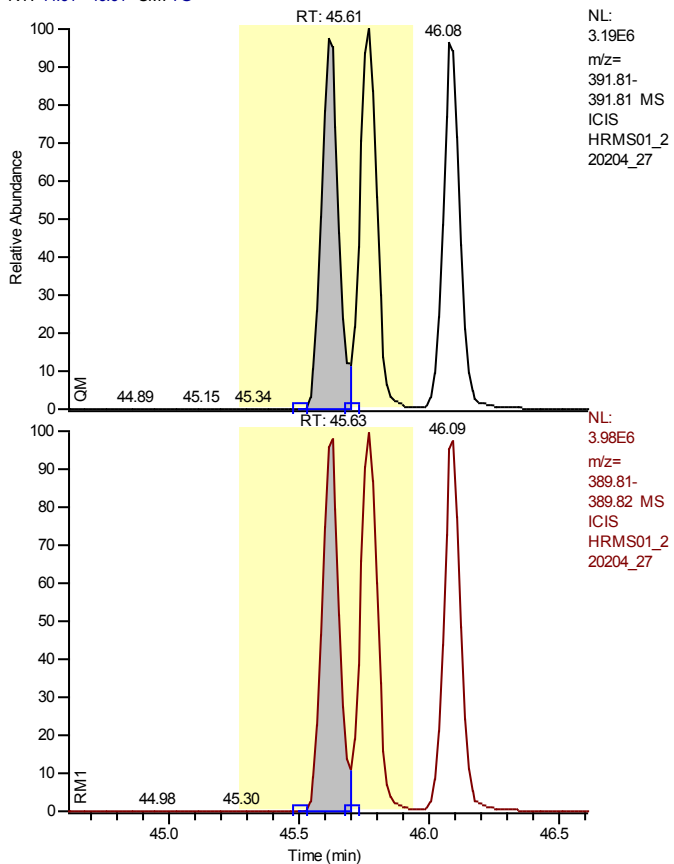
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G

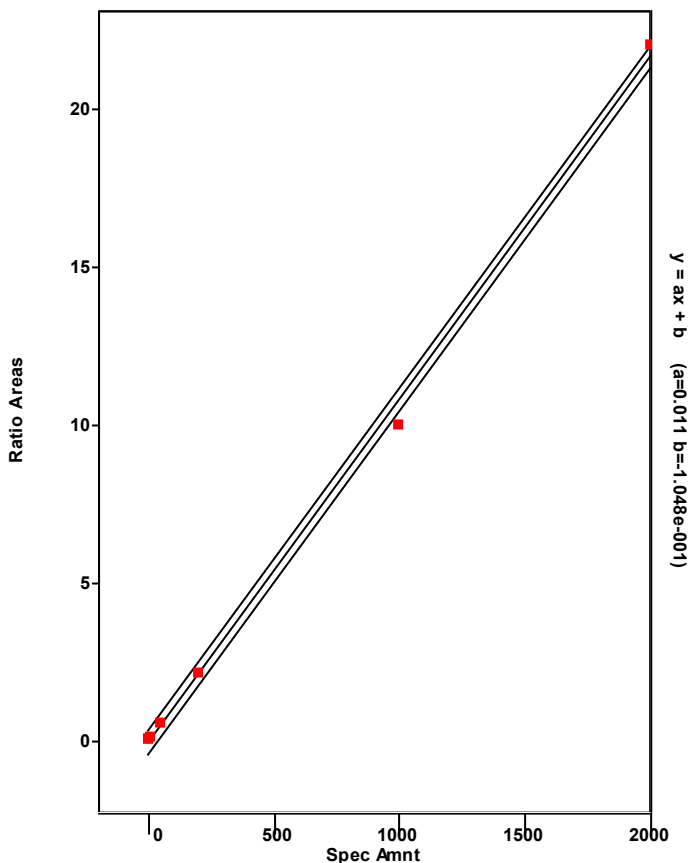


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	14229435
RM1 Area	17875803
RM1 Ratio (A)	1.2563
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

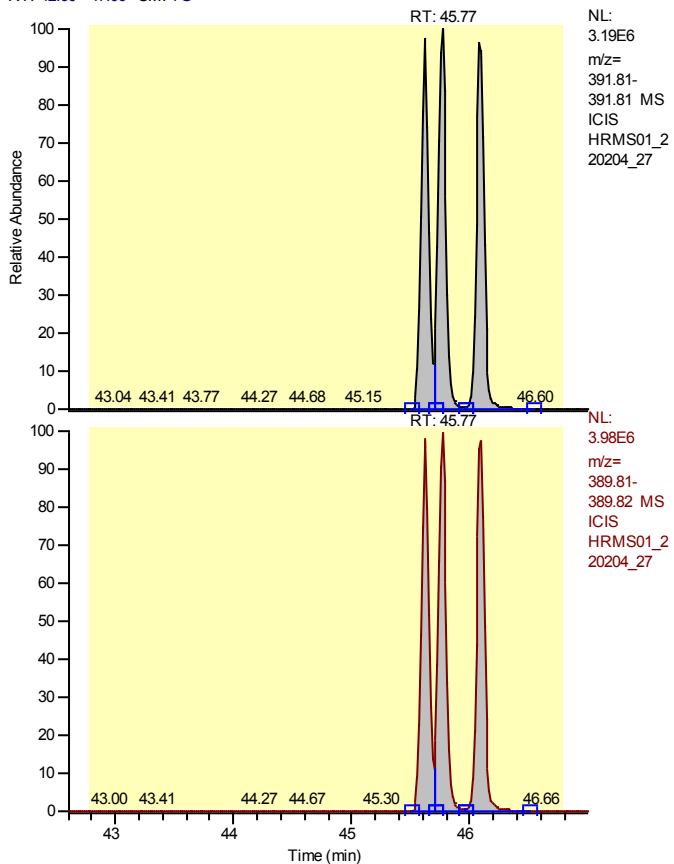
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.60 - 47.00 SM: 7G

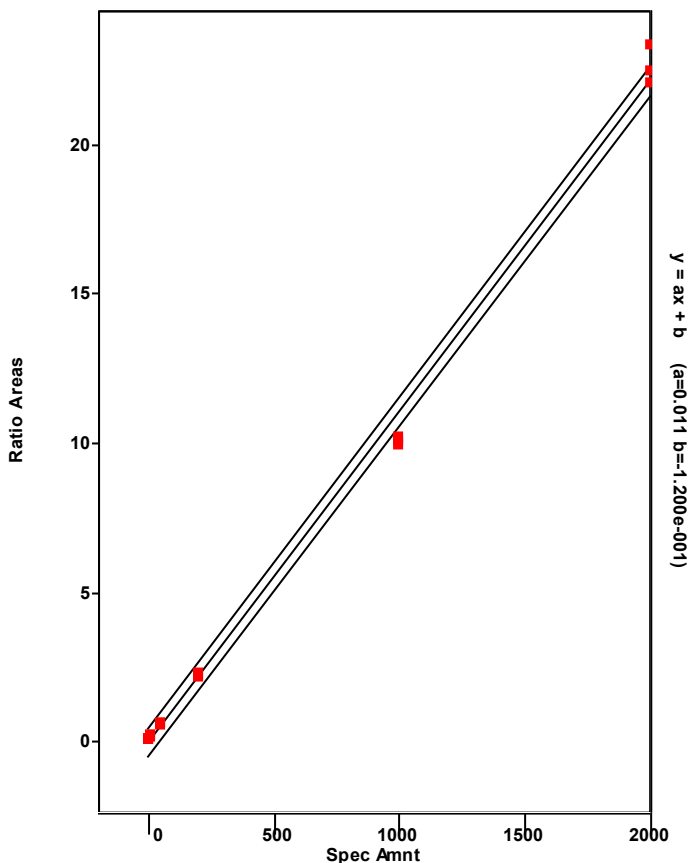


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	42856609
RM1 Area	53682536
RM1 Ratio (A)	1.2526
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	3000.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

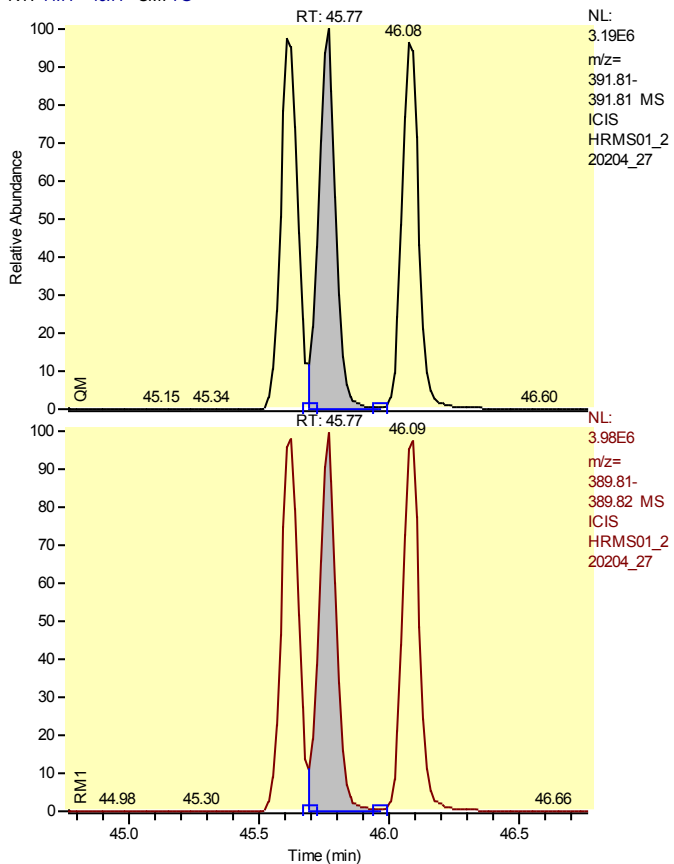
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.77 - 46.77 SM: 7G

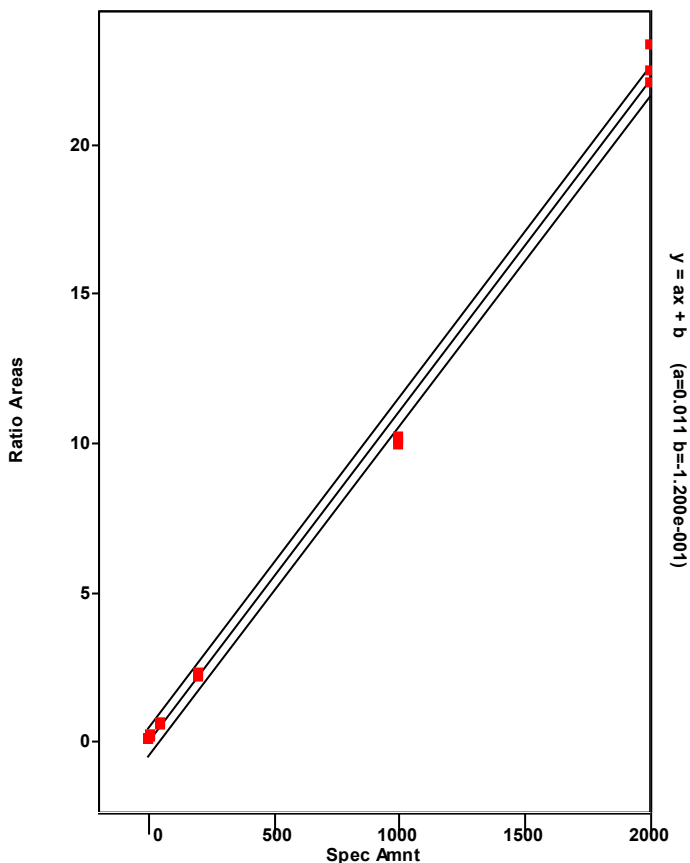


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	14528635
RM1 Area	18121172
RM1 Ratio (A)	1.2473
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

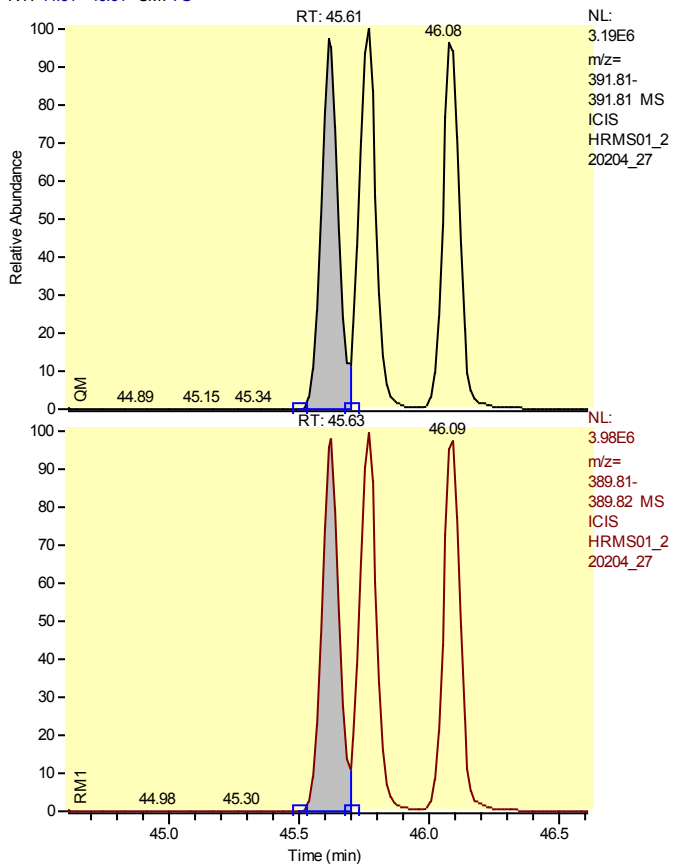
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G

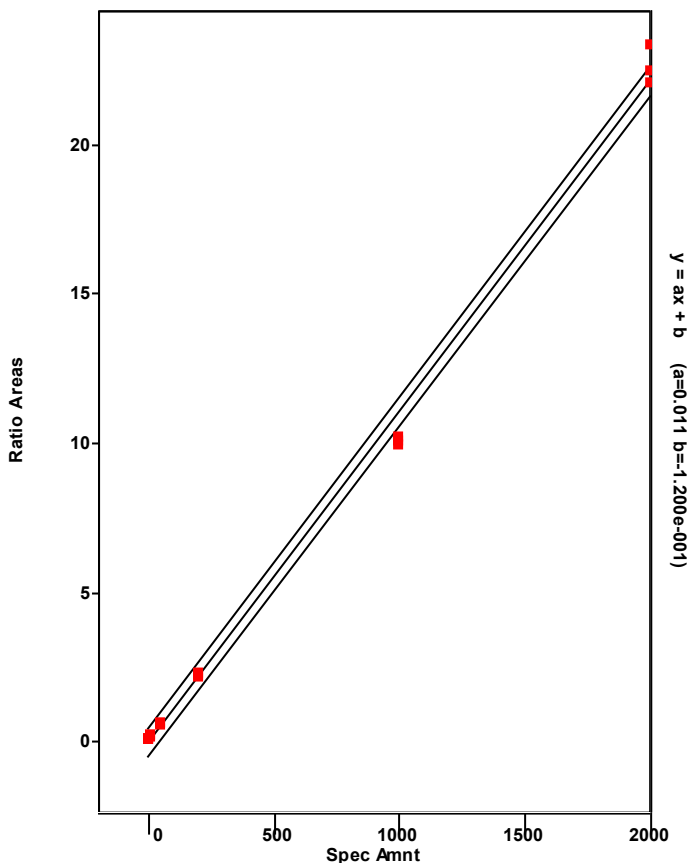


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	14229435
RM1 Area	17875803
RM1 Ratio (A)	1.2563
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

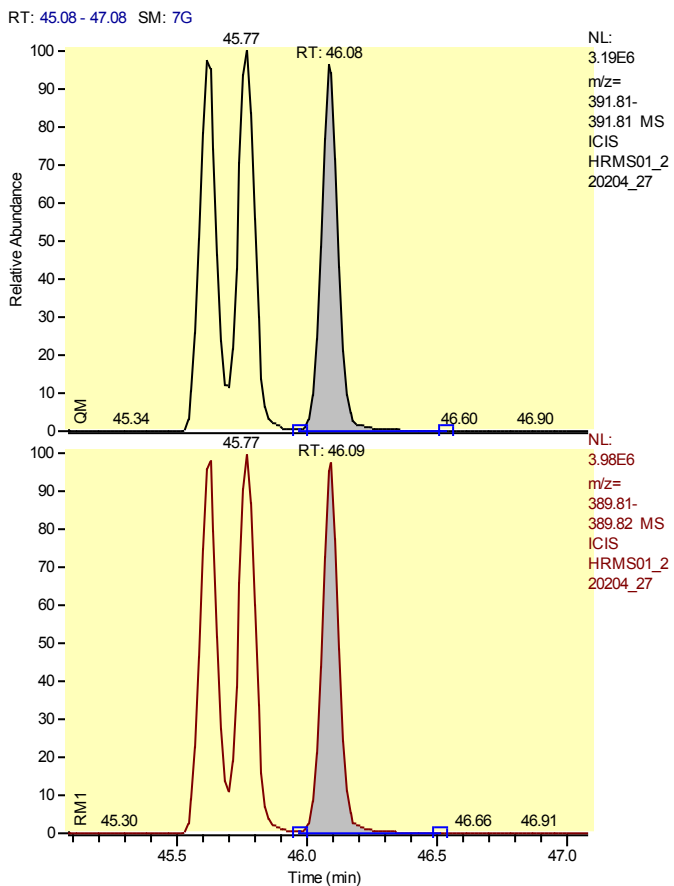
Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

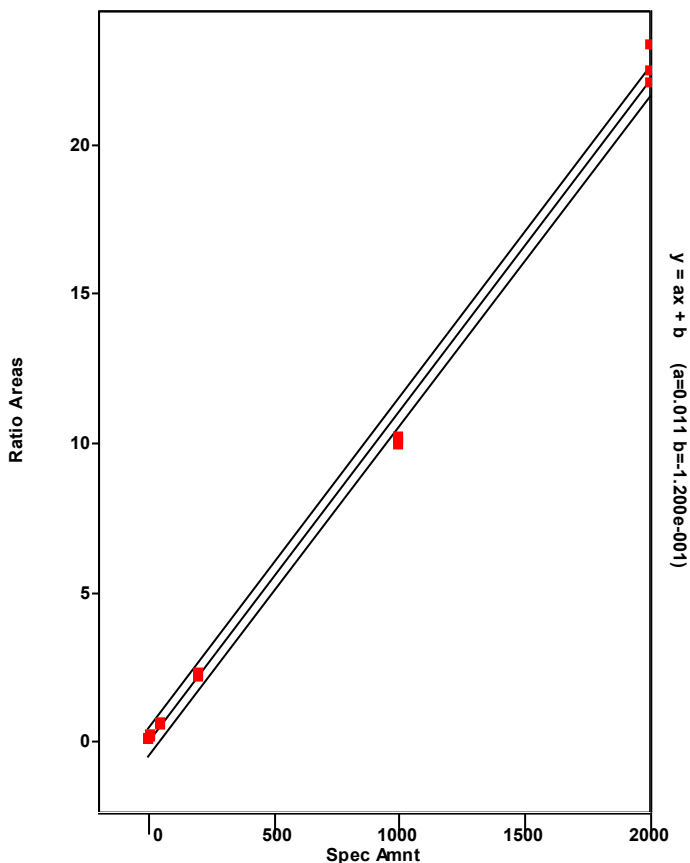


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	14098539
RM1 Area	17685562
RM1 Ratio (A)	1.2544
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

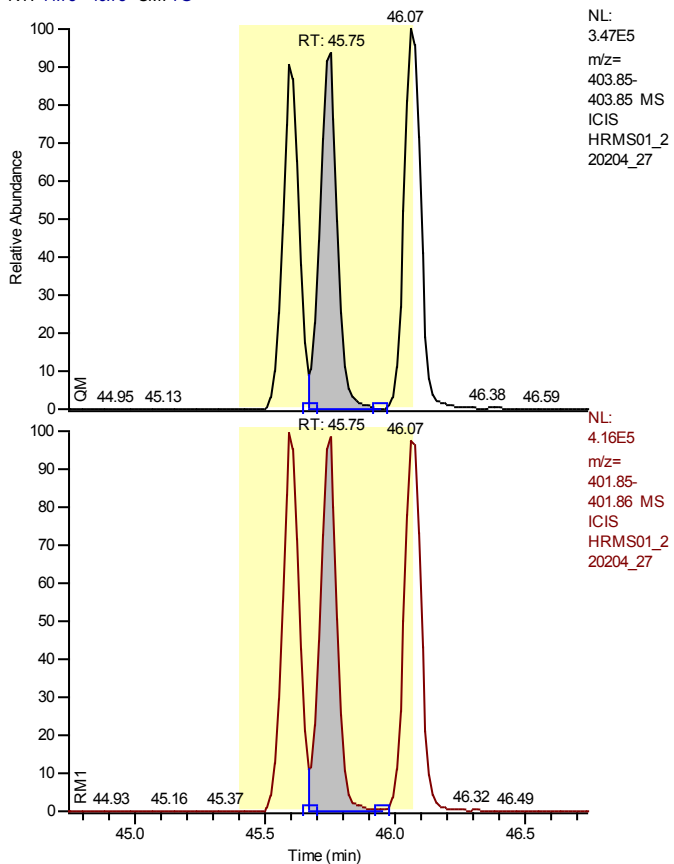
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G



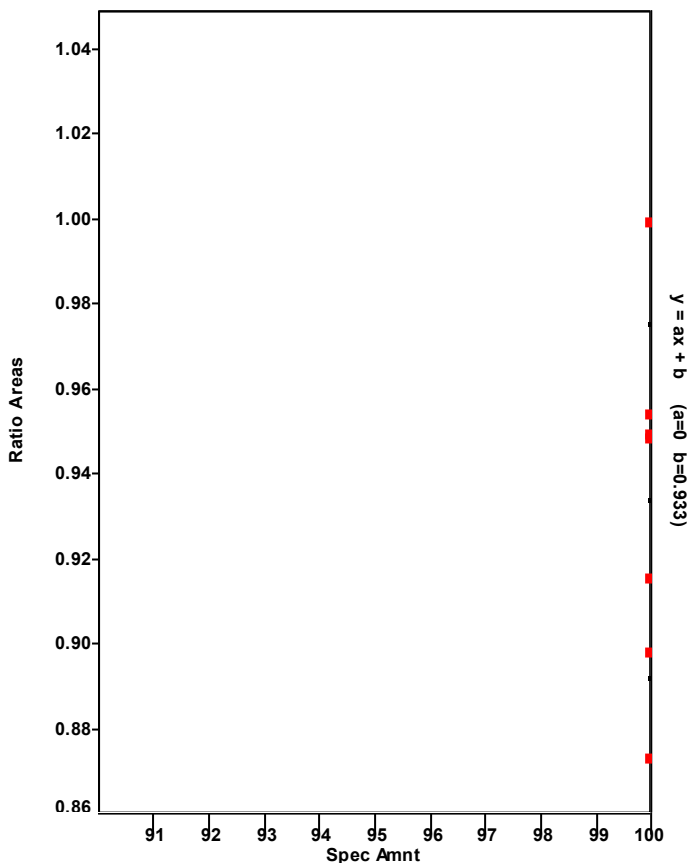
NL:
 3.47E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_27

NL:
 4.16E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1528432
RM1 Area	1877112
RM1 Ratio (A)	1.2281
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

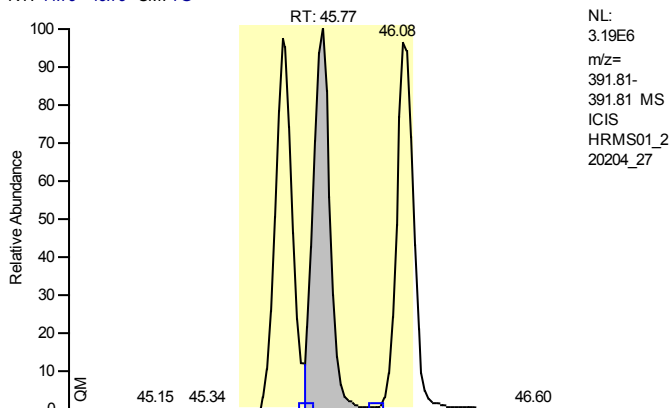
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

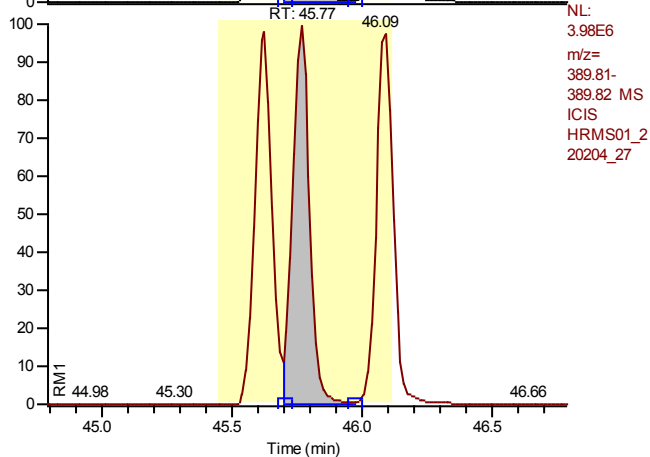
Entry Parameters

RT: 44.79 - 46.79 SM: 7G



NL:
 3.19E6
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	14528635
RM1 Area	18121172
RM1 Ratio (A)	1.2473
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

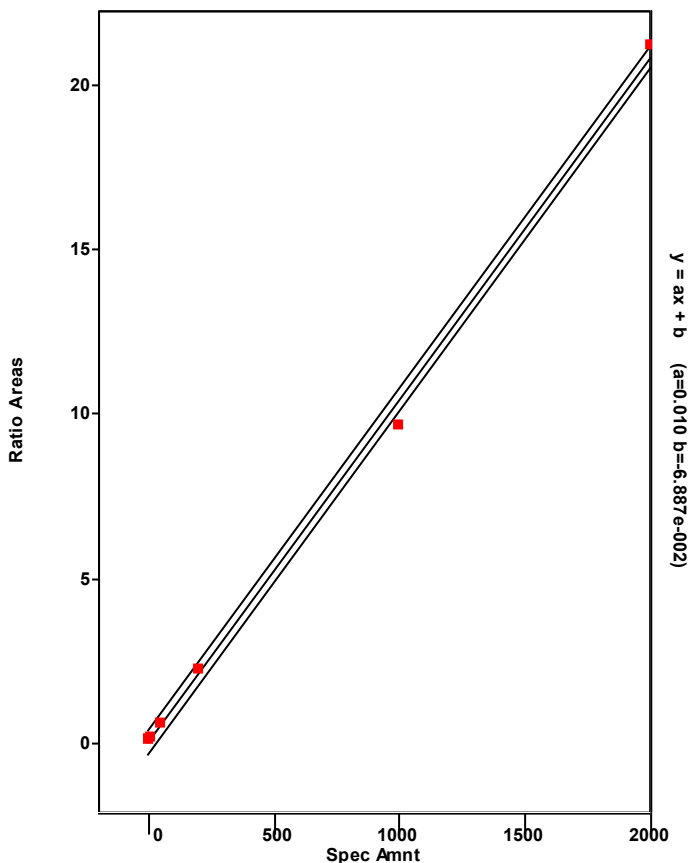


NL:
 3.98E6
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

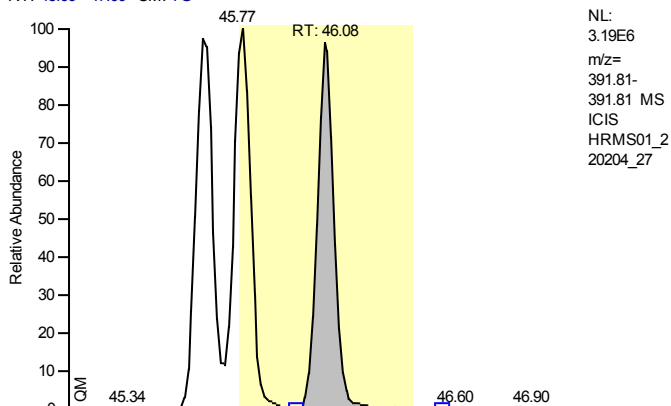
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

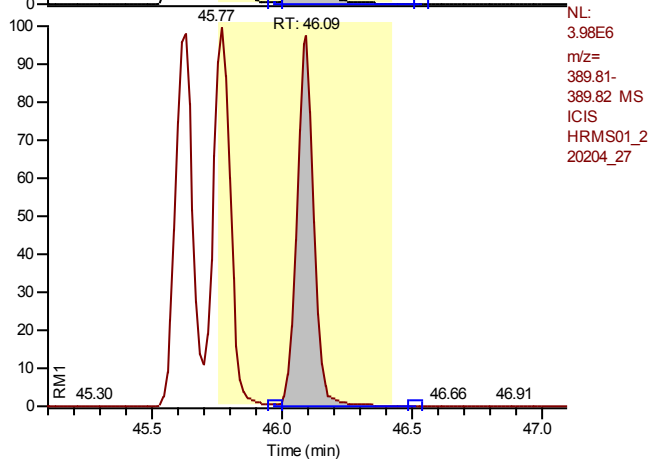
Entry Parameters

RT: 45.09 - 47.09 SM: 7G



NL:
 3.19E6
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_27

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	14098539
RM1 Area	17685562
RM1 Ratio (A)	1.2544
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	100.0000
Label2	

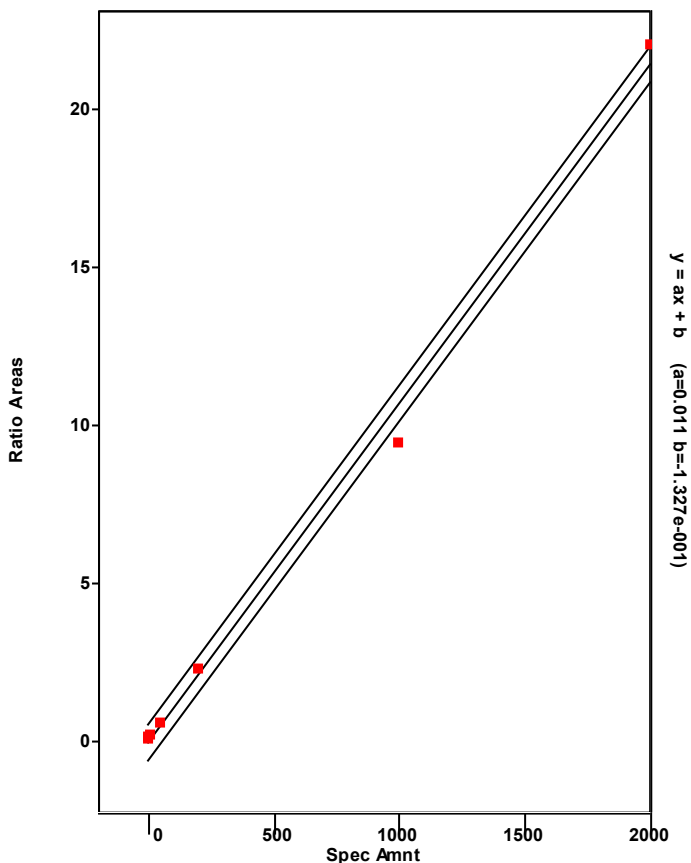


NL:
 3.98E6
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_27

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

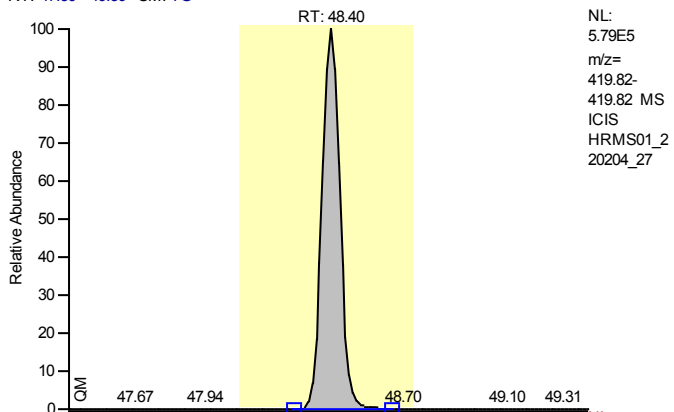
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



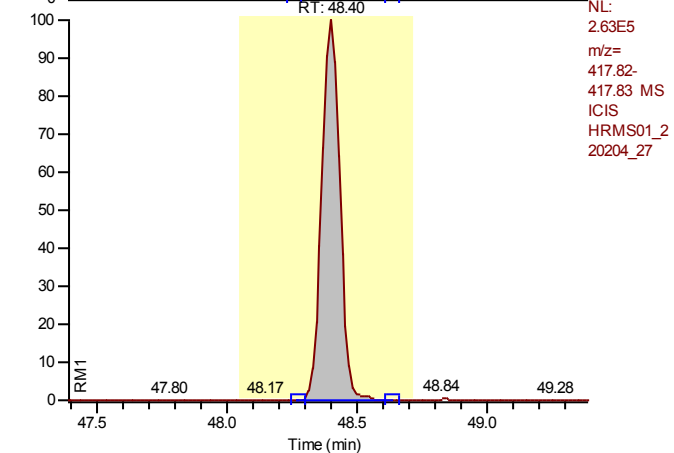
Chromatogram

Entry Parameters

RT: 47.39 - 49.39 SM: 7G

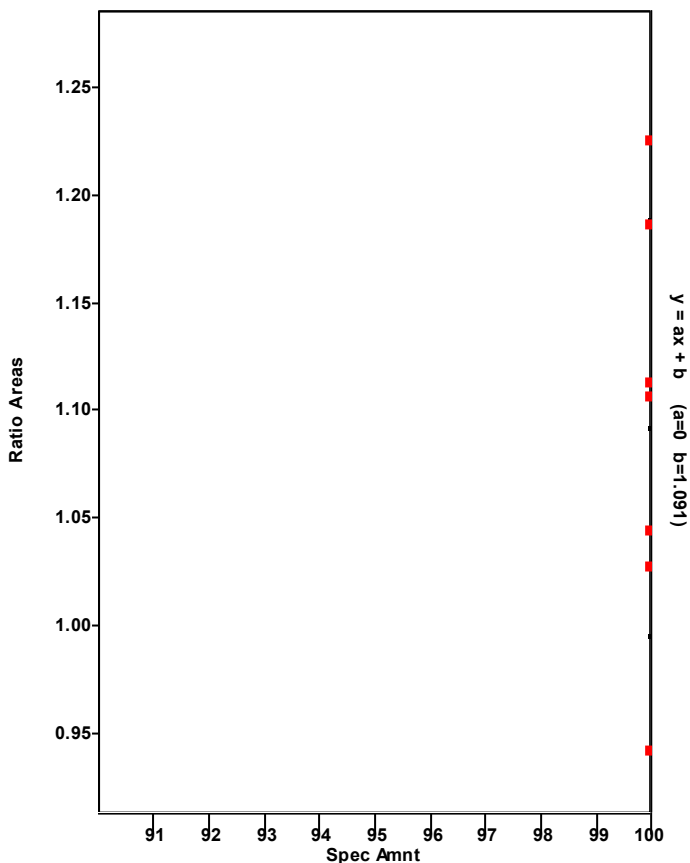


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2770176
RM1 Area	1270622
RM1 Ratio (A)	0.4587
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

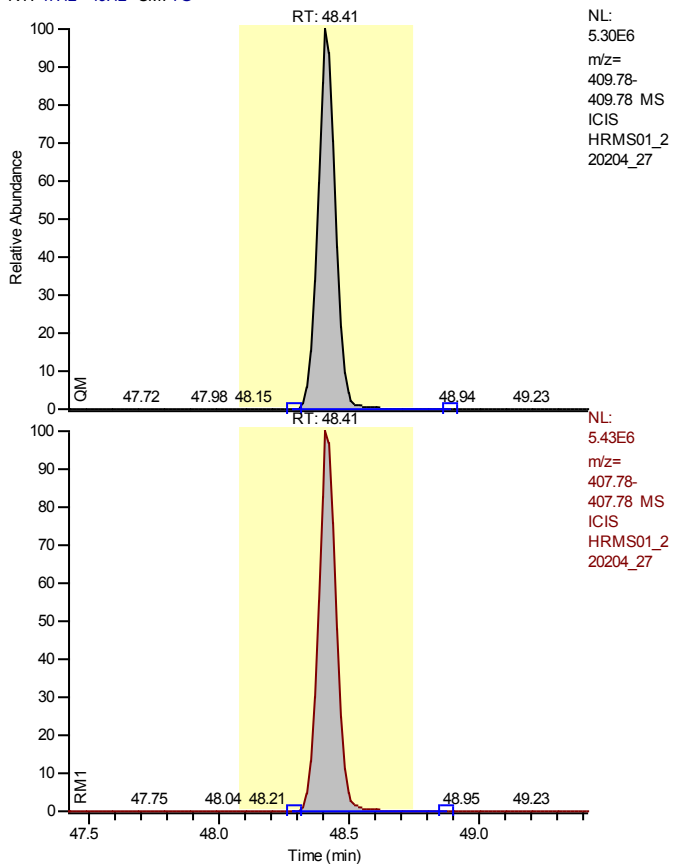
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.42 - 49.42 SM: 7G

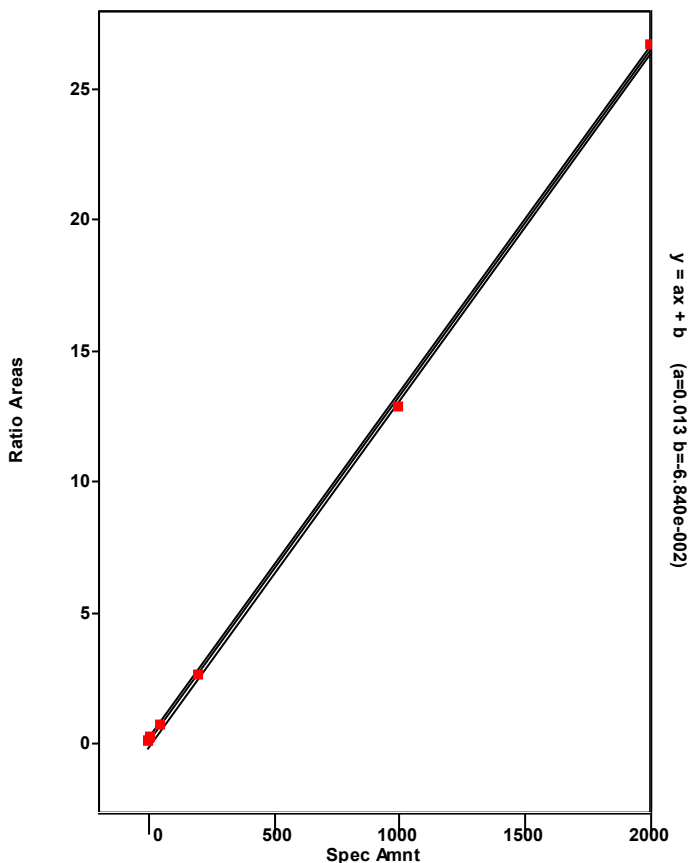


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	25436117
RM1 Area	26232215
RM1 Ratio (A)	1.0313
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

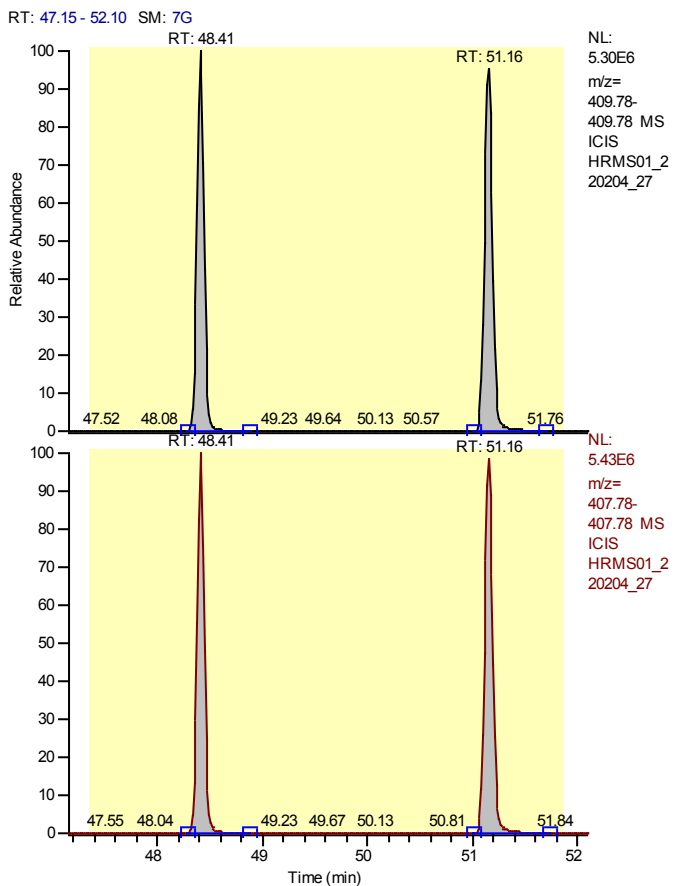
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

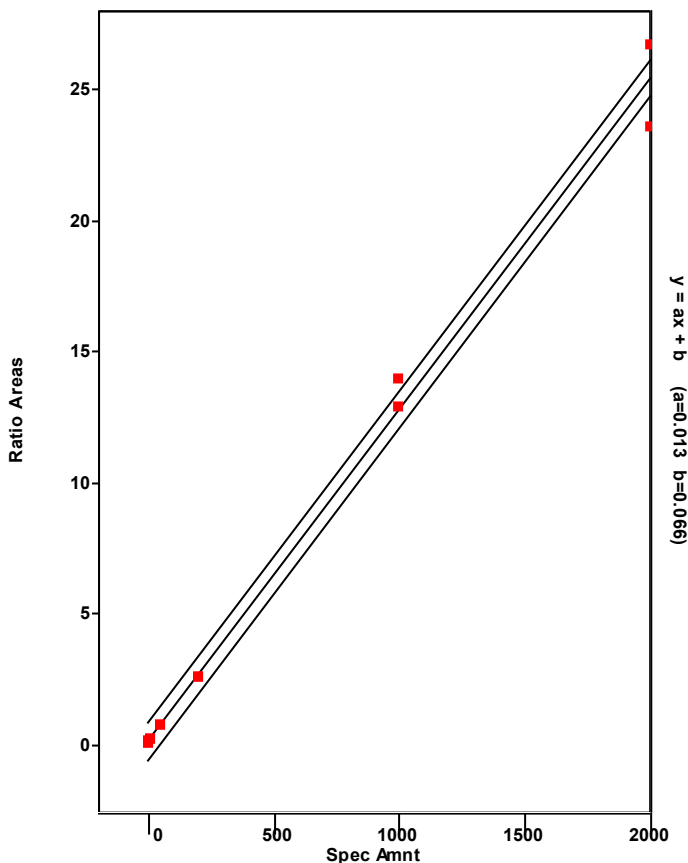


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	52781158
RM1 Area	55046129
RM1 Ratio (A)	1.0429
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

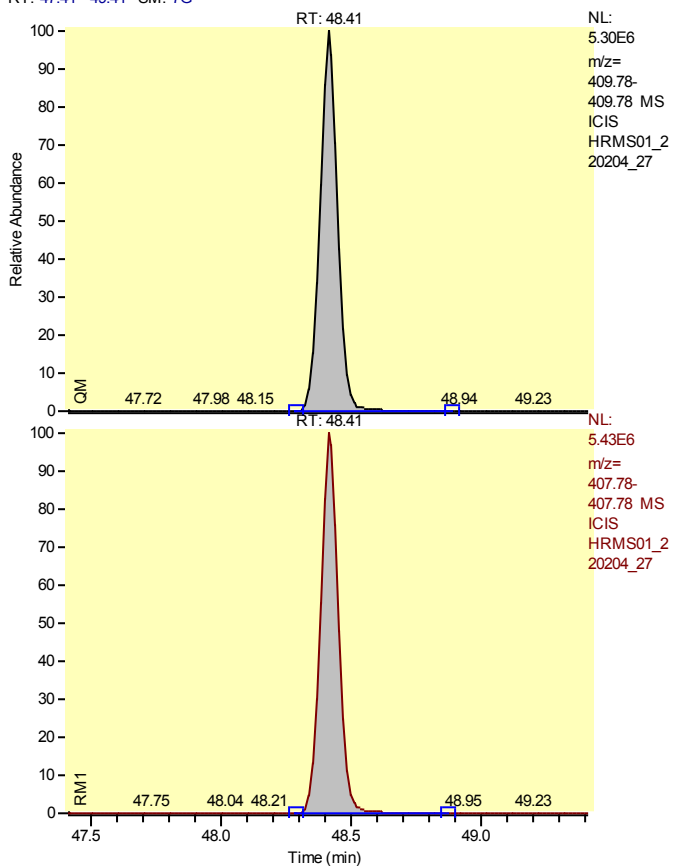
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

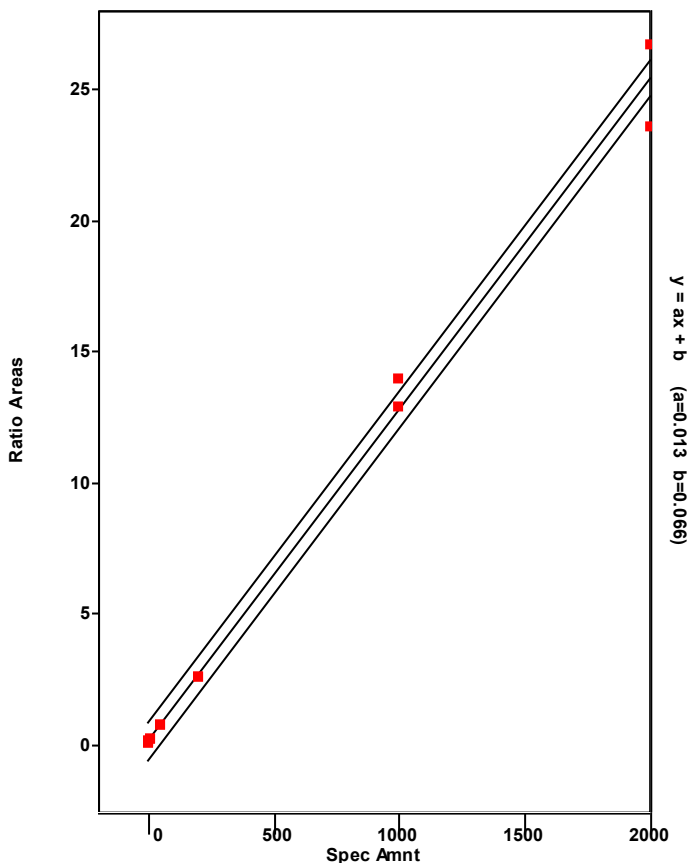


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	25436117
RM1 Area	26232215
RM1 Ratio (A)	1.0313
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

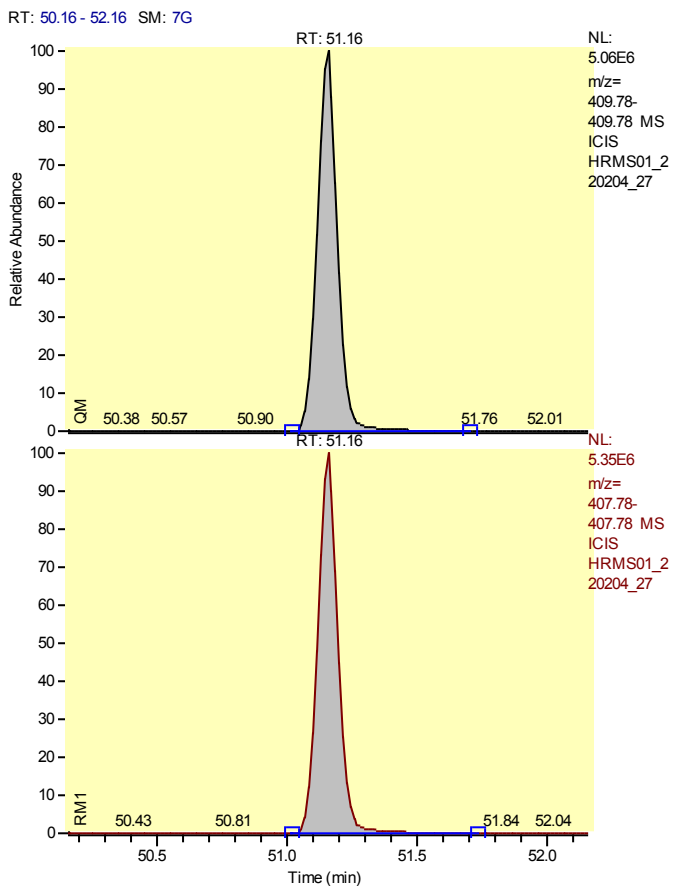
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

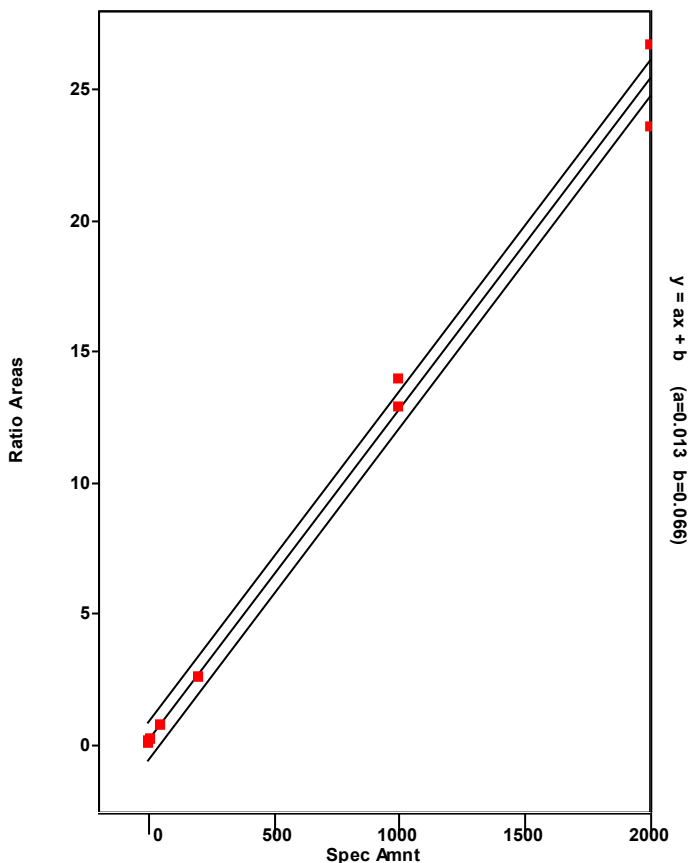


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	27345041
RM1 Area	28813914
RM1 Ratio (A)	1.0537
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

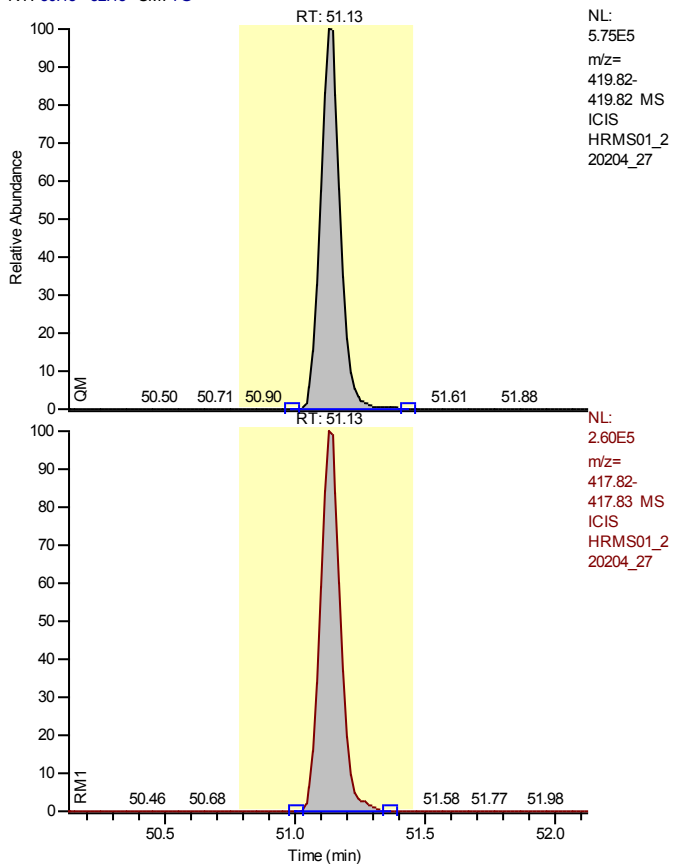
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

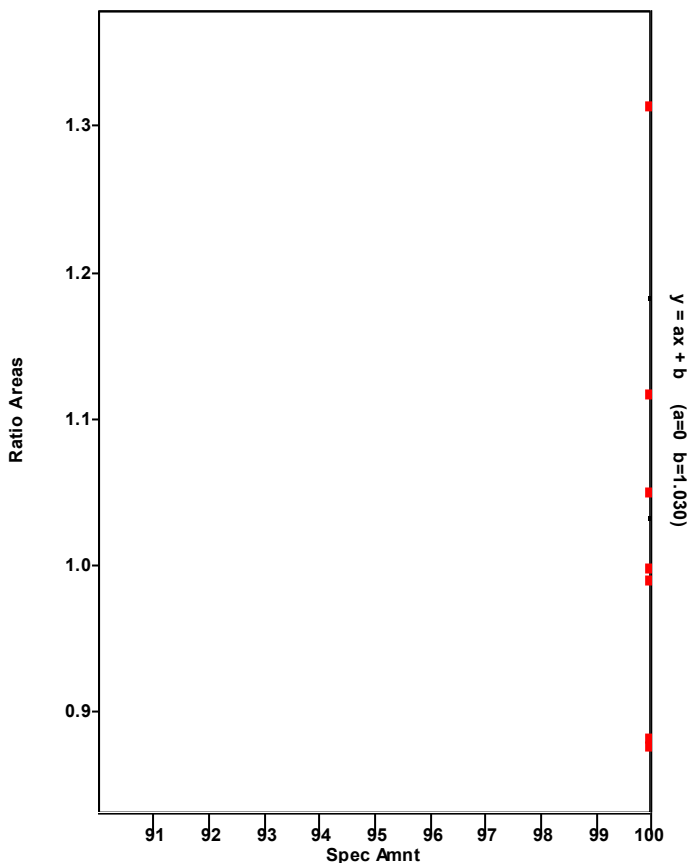
RT: 50.13 - 52.13 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	3068957
RM1 Area	1404939
RM1 Ratio (A)	0.4578
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

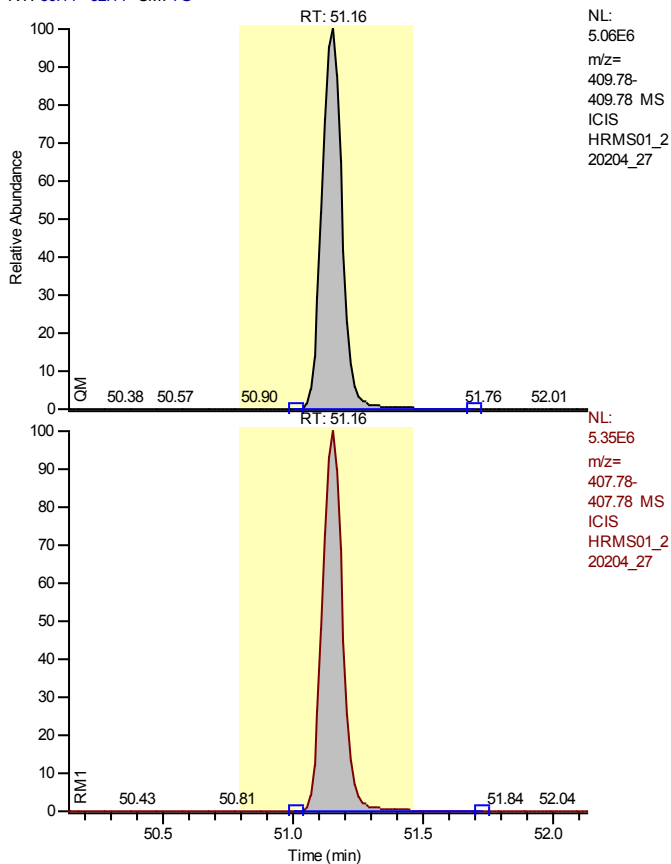
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

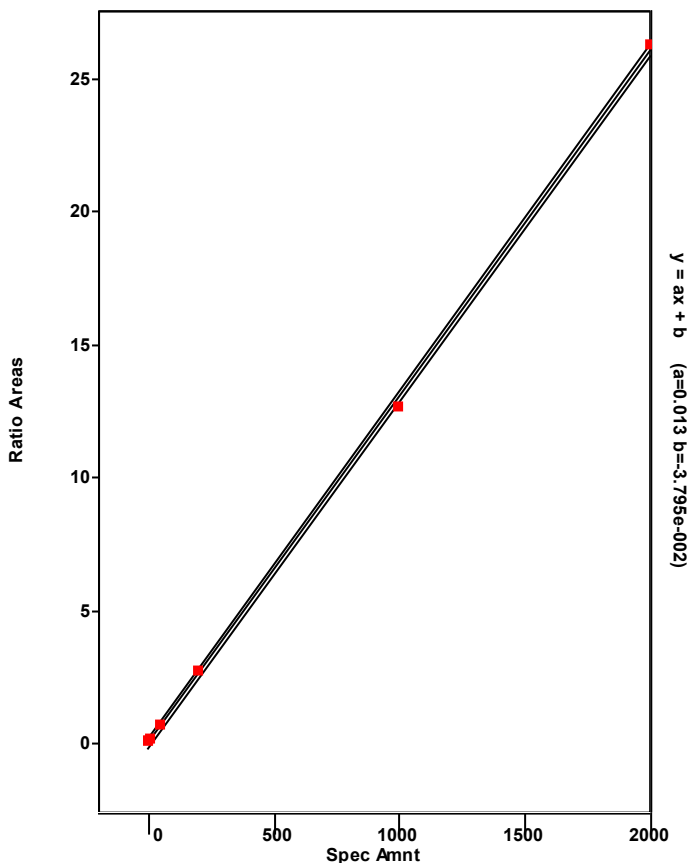


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	27345041
RM1 Area	28813914
RM1 Ratio (A)	1.0537
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

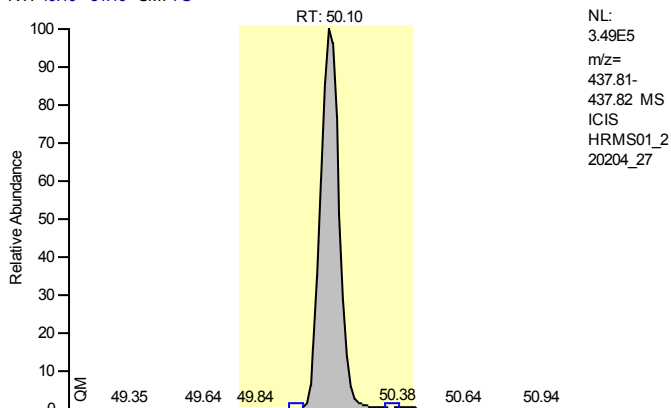
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



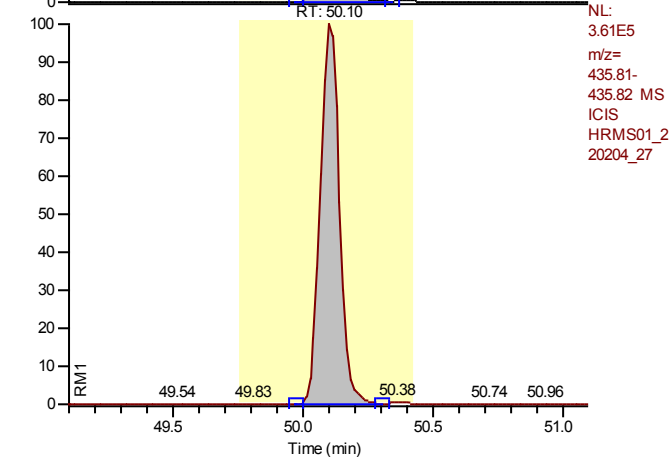
Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

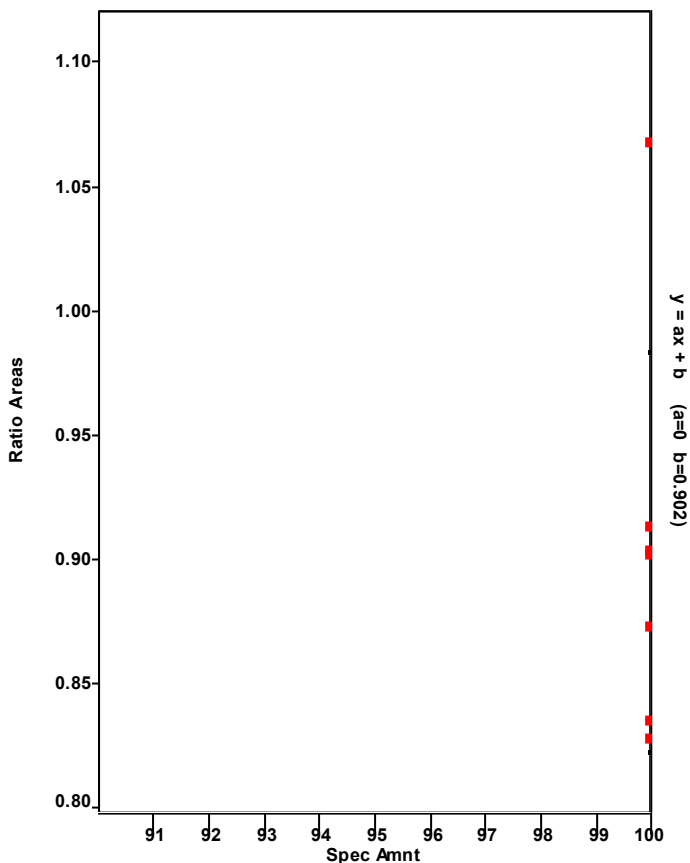


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1773262
RM1 Area	1864341
RM1 Ratio (A)	1.0514
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

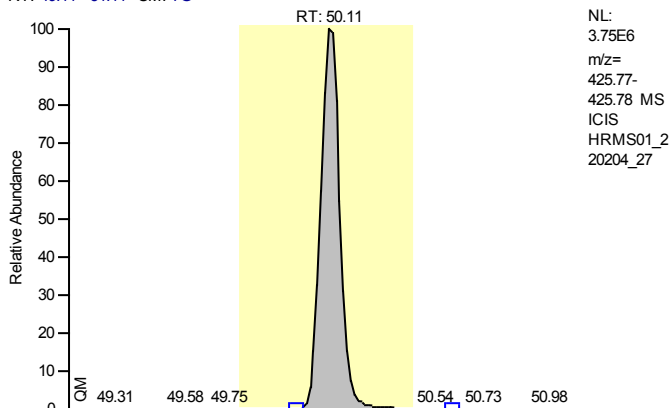
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



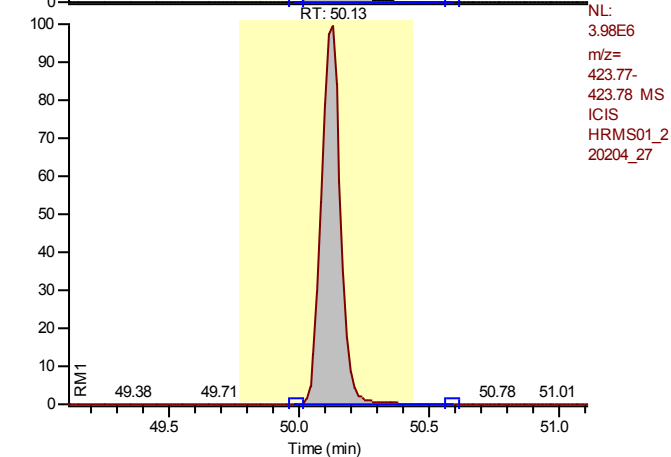
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G



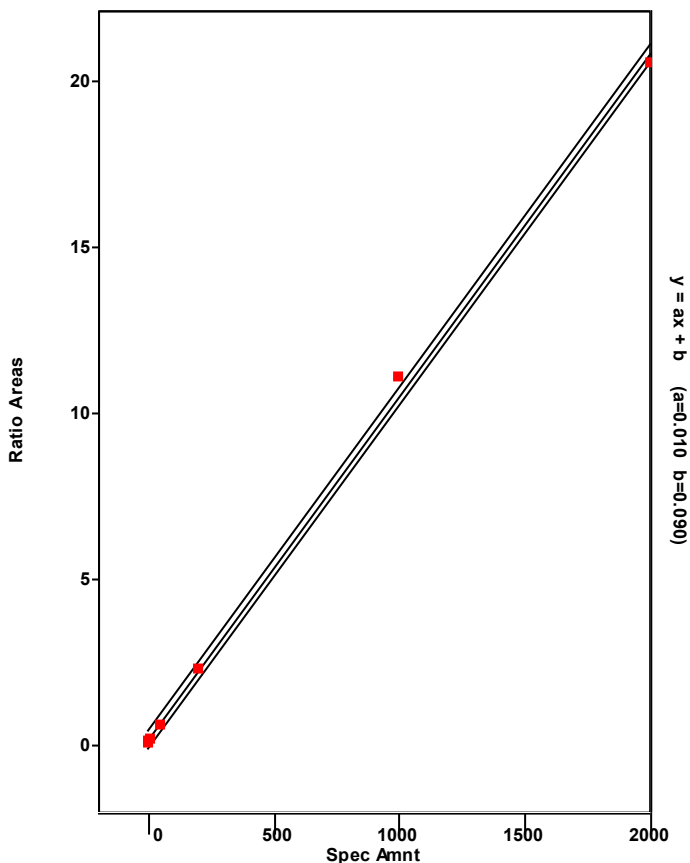
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	19421206
RM1 Area	20552983
RM1 Ratio (A)	1.0583
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	10.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

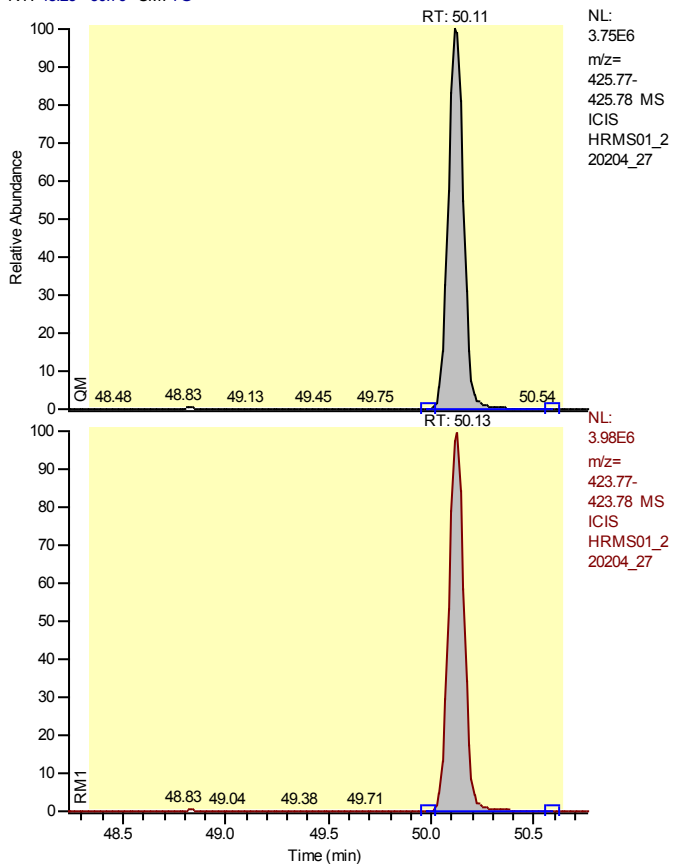
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.23 - 50.76 SM: 7G

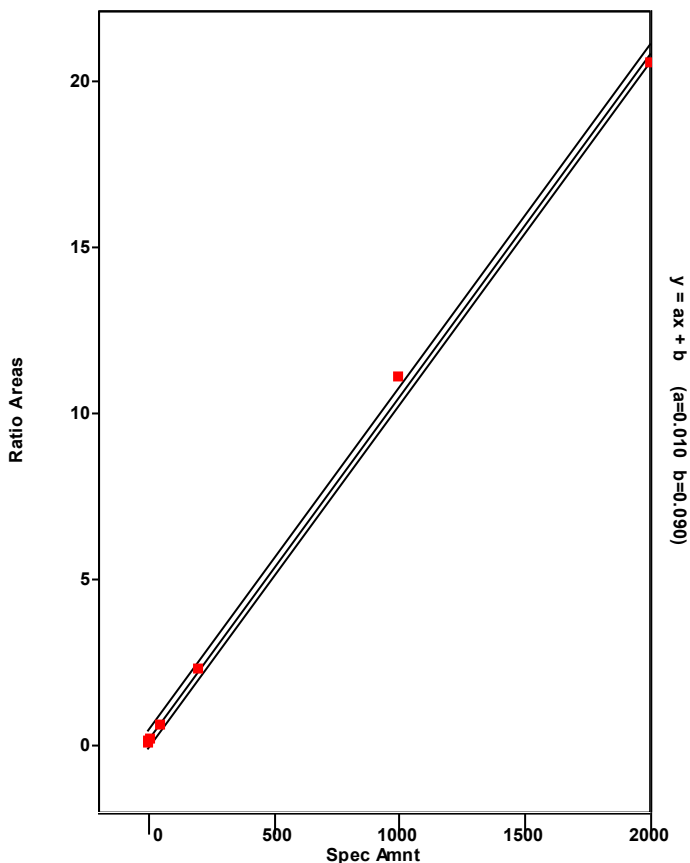


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	19421206
RM1 Area	20552983
RM1 Ratio (A)	1.0583
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

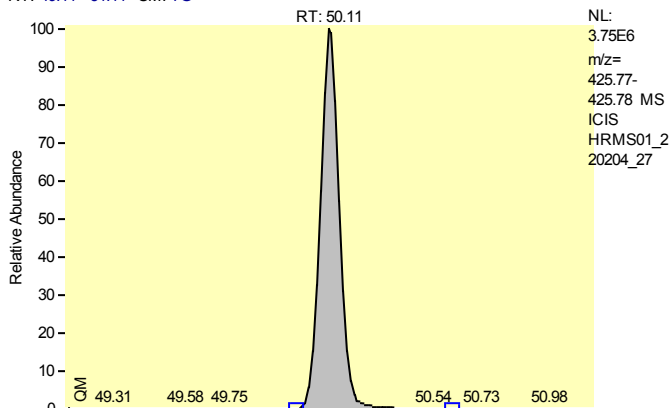
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



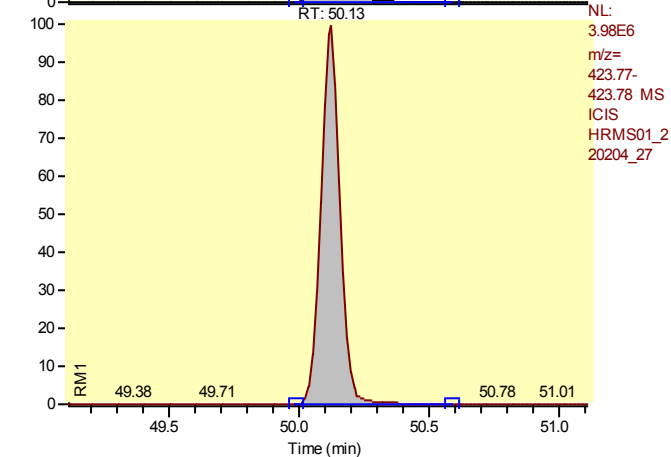
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G



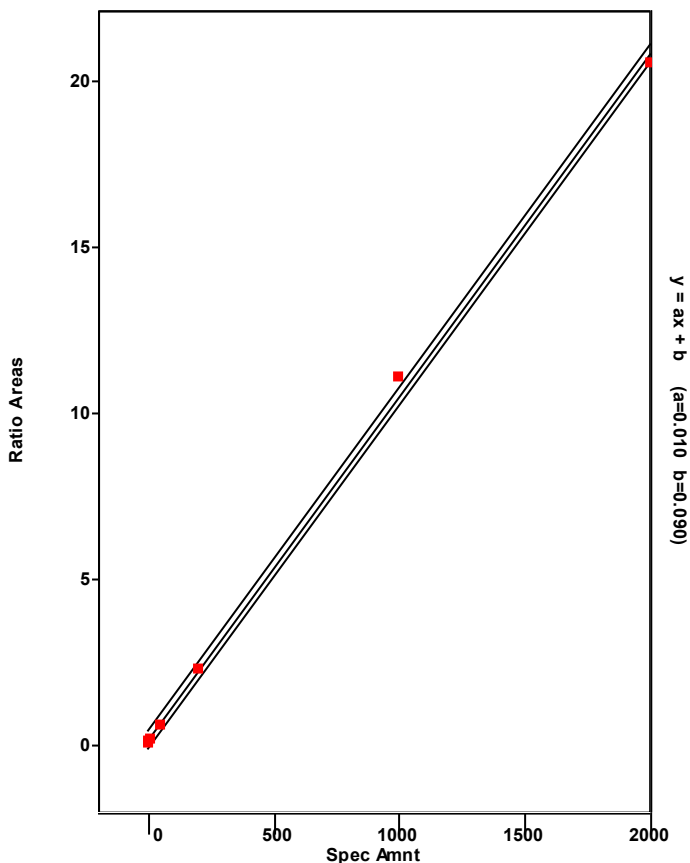
Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	19421206
RM1 Area	20552983
RM1 Ratio (A)	1.0583
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	1000.00
Calculated Amount (A)	1000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

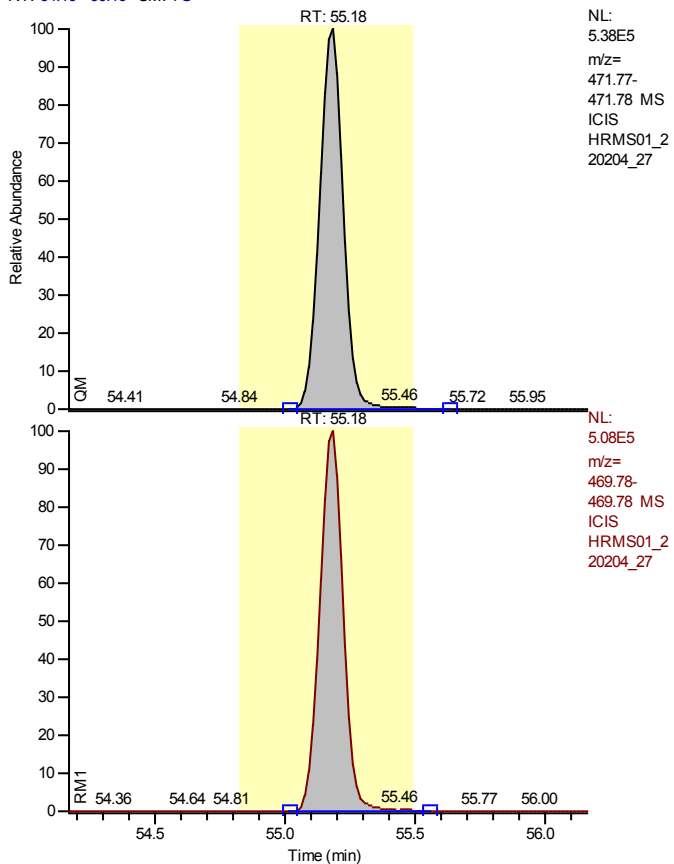
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 54.16 - 56.16 SM: 7G

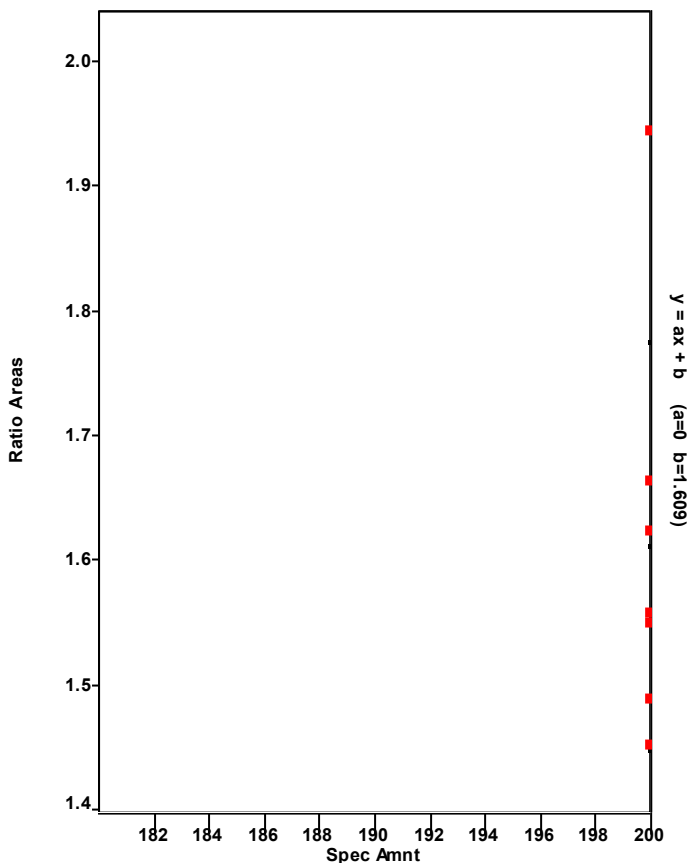


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	3434270
RM1 Area	3188705
RM1 Ratio (A)	0.9285
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

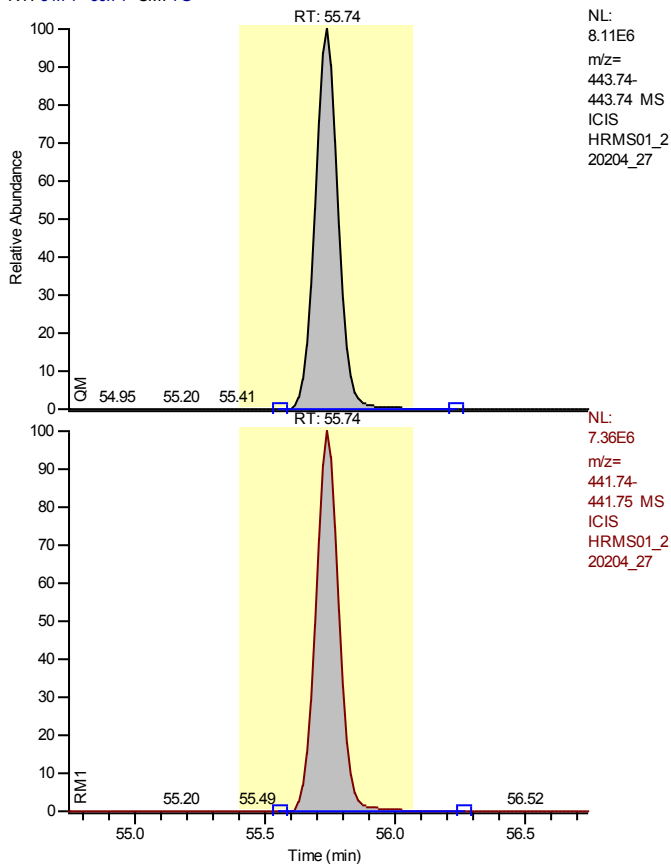
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.74 - 56.74 SM: 7G



NL:
8.11E6
m/z=
443.74-
443.74 MS
ICIS
HRMS01_2
20204_27

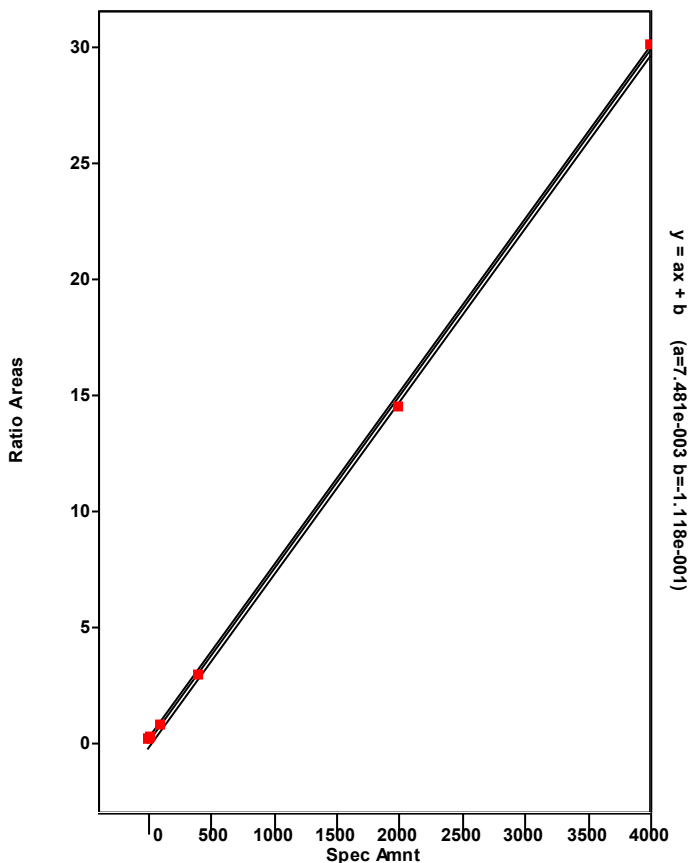
NL:
7.36E6
m/z=
441.74-
441.75 MS
ICIS
HRMS01_2
20204_27

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	49887559
RM1 Area	45478528
RM1 Ratio (A)	0.9116
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.6000
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

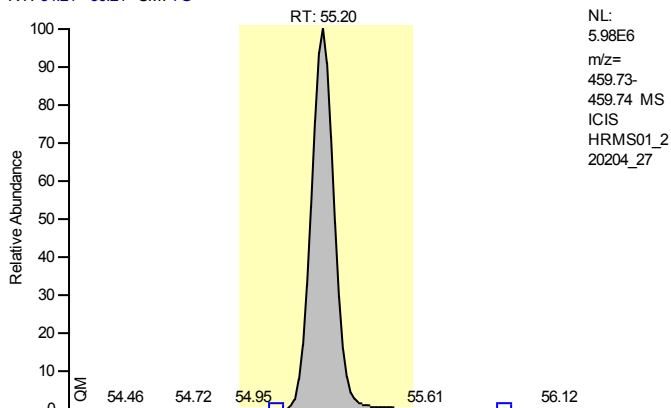
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



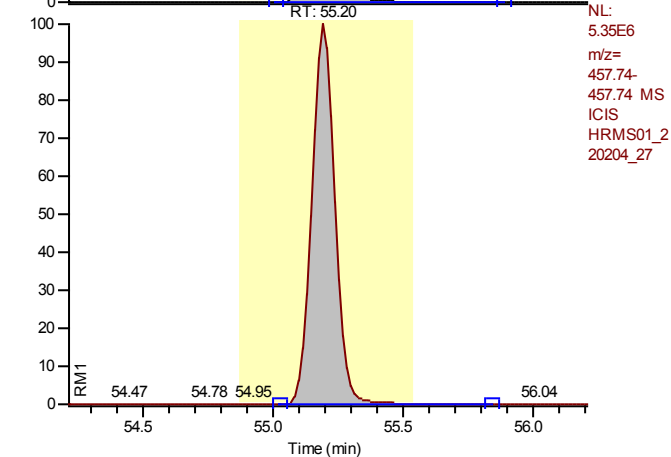
Chromatogram

Entry Parameters

RT: 54.21 - 56.21 SM: 7G



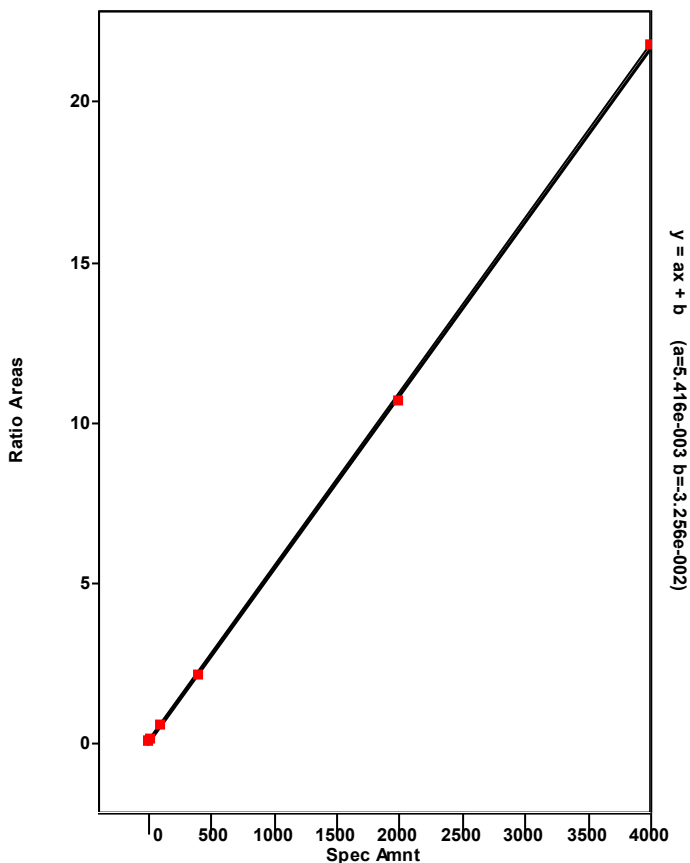
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	37194705
RM1 Area	33302768
RM1 Ratio (A)	0.8954
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.6000
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

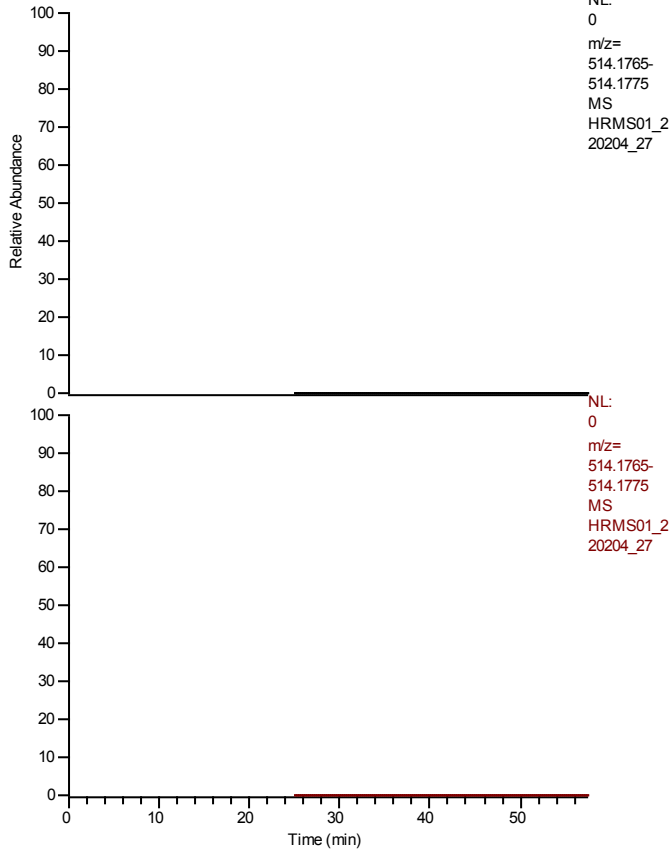
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

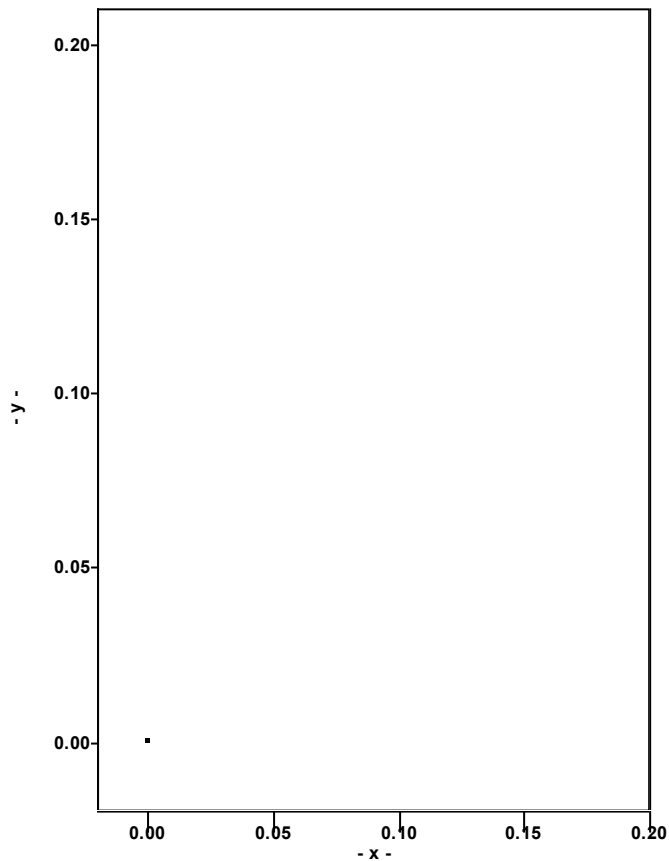
RT: 0.00 - 57.49 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	342347407
RM1 Area	391686211
RM1 Ratio (A)	1.1441
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	17400.00
Percent Recovery (A)	---
TEQ (A)	2281.2000
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 09:26
Number of Entries	59
Comment	HRMS200917A
Vial	10
Sample Name	IA1613STD-400
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_29_seq
Data	hrms01_220204_29
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Single Point (Spec. RF)
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

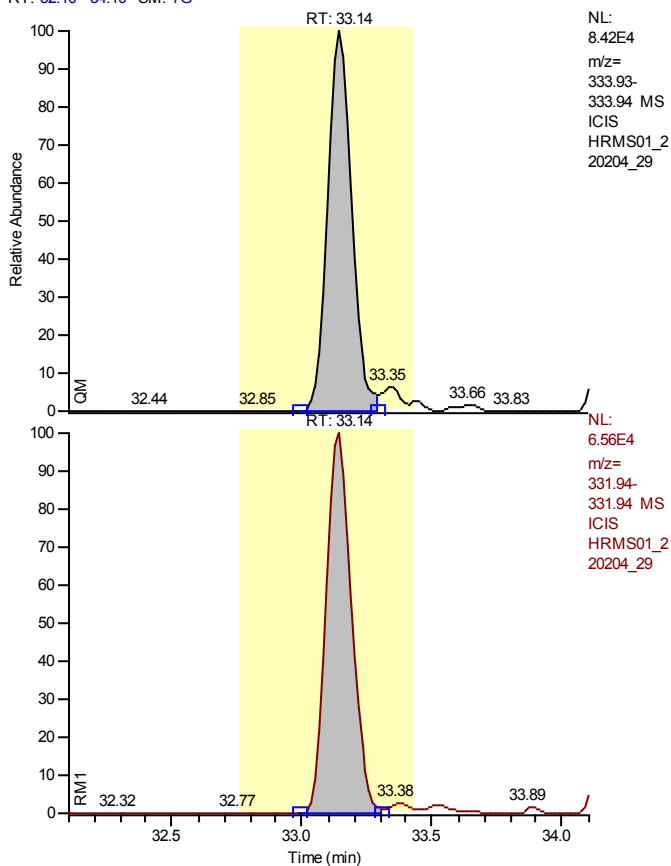
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		542926	446692	0.8227	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		922049	795902	0.8632	0.6500 - 0.8900	100.00	100.00	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	3880037	3065459	0.7901	0.6500 - 0.8900	400.00	400.00	100	40.0000
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	3880037	3065459	0.7901	0.6500 - 0.8900	400.00	400.00	100	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	3880037	3065459	0.7901	0.6500 - 0.8900	400.00	400.00	100	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		687728	475485	0.6914	0.6500 - 0.8900	100.00	100.00	100	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	2853101	2273243	0.7968	0.6500 - 0.8900	400.00	400.00	100	400.0000
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	2853101	2273243	0.7968	0.6500 - 0.8900	400.00	400.00	100	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	2853101	2273243	0.7968	0.6500 - 0.8900	400.00	400.00	100	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		583074	975372	1.6728	1.3200 - 1.7800	100.00	100.00	100	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	12090585	19030268	1.5740	1.3200 - 1.7800	2000.00	2000.00	100	60.0000
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	22819390	35823729	1.5699	1.3200 - 1.7800	2000.00	4000.00	200	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	12090585	19030268	1.5740	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	10728805	16793461	1.5653	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		534283	848580	1.5883	1.3200 - 1.7800	100.00	100.00	100	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	10728805	16793461	1.5653	1.3200 - 1.7800	2000.00	2000.00	100	600.0000
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		350027	572255	1.6349	1.3200 - 1.7800	100.00	100.00	100	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	7226874	11371785	1.5735	1.3200 - 1.7800	2000.00	2000.00	100	2000.0000
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	7226874	11371785	1.5735	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	7226874	11371785	1.5735	1.3200 - 1.7800	2000.00	2000.00	100	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		0	0	---	0.8500 - 1.1500	1.00	n.d.	0	n.d.
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		486996	640173	1.3145	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		830333	413722	0.4983	0.4300 - 0.5900	100.00	100.00	100	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	12945094	15843062	1.2239	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	52652560	65747298	1.2487	1.0500 - 1.4300	2000.00	8000.00	400	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	13514145	17257794	1.2770	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	12945094	15843062	1.2239	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	13078302	16289768	1.2456	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	13115019	16356674	1.2472	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		897762	498818	0.5556	0.4300 - 0.5900	100.00	100.00	100	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	13078302	16289768	1.2456	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		880005	462654	0.5257	0.4300 - 0.5900	100.00	100.00	100	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	13514145	17257794	1.2770	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		809601	472616	0.5838	0.4300 - 0.5900	100.00	100.00	100	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	13115019	16356674	1.2472	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		417844	536417	1.2838	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	9303164	11668820	1.2543	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	28618354	36000824	1.2580	1.0500 - 1.4300	2000.00	6000.00	300	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	9894775	12334484	1.2466	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	9303164	11668820	1.2543	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	9420416	11997520	1.2736	1.0500 - 1.4300	2000.00	2000.00	100	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		446739	564931	1.2646	1.0500 - 1.4300	100.00	100.00	100	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	9420416	11997520	1.2736	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	9894775	12334484	1.2466	1.0500 - 1.4300	2000.00	2000.00	100	200.0000
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		848016	405043	0.4776	0.3700 - 0.5100	100.00	100.00	100	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	16295061	17047666	1.0462	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	30690497	32036081	1.0438	0.8800 - 1.2000	2000.00	4000.00	200	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	16295061	17047666	1.0462	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	14395436	14988415	1.0412	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		754567	367616	0.4872	0.3700 - 0.5100	100.00	100.00	100	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	14395436	14988415	1.0412	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		485841	530726	1.0924	0.8800 - 1.2000	100.00	100.00	100	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	10129933	10660233	1.0523	0.8800 - 1.2000	2000.00	2000.00	100	20.0000
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	10129933	10660233	1.0523	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	10129933	10660233	1.0523	0.8800 - 1.2000	2000.00	2000.00	100	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		846831	787724	0.9302	0.7600 - 1.0200	200.00	200.00	100	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	25548107	23564507	0.9224	0.7600 - 1.0200	4000.00	4000.00	100	1.2000
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	18655811	16830917	0.9022	0.7600 - 1.0200	4000.00	4000.00	100	1.2000
59	overall TEQ	overall TEQ test		203074667	237374075	1.1689	0.0000 - 0.0000	0.00	34800.00	---	4562.4000

Chromatogram

Entry Parameters

RT: 32.10 - 34.10 SM: 7G

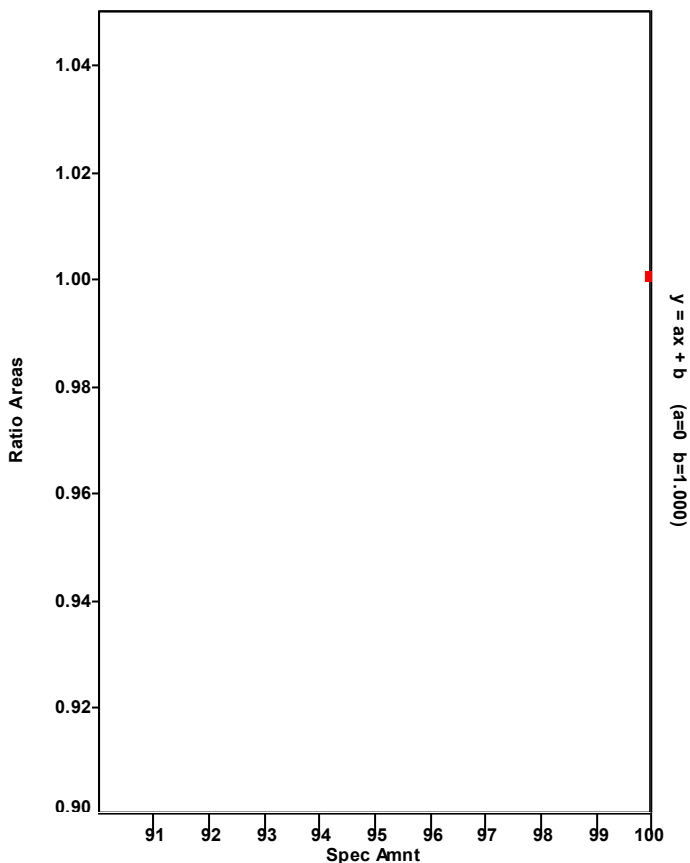


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	542926
RM1 Area	446692
RM1 Ratio (A)	0.8227
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

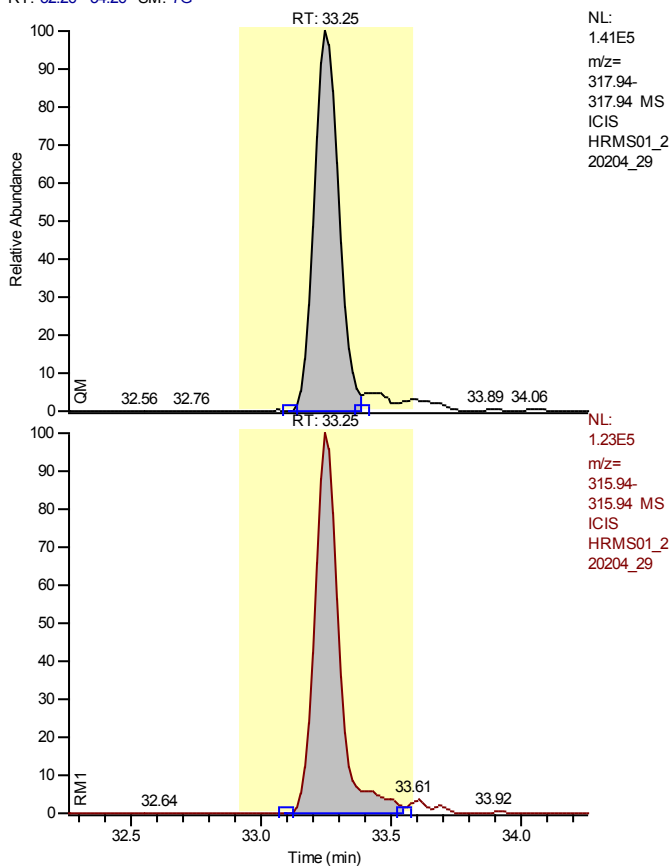
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.26 - 34.26 SM: 7G



NL:
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 m/z=
 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20204_29

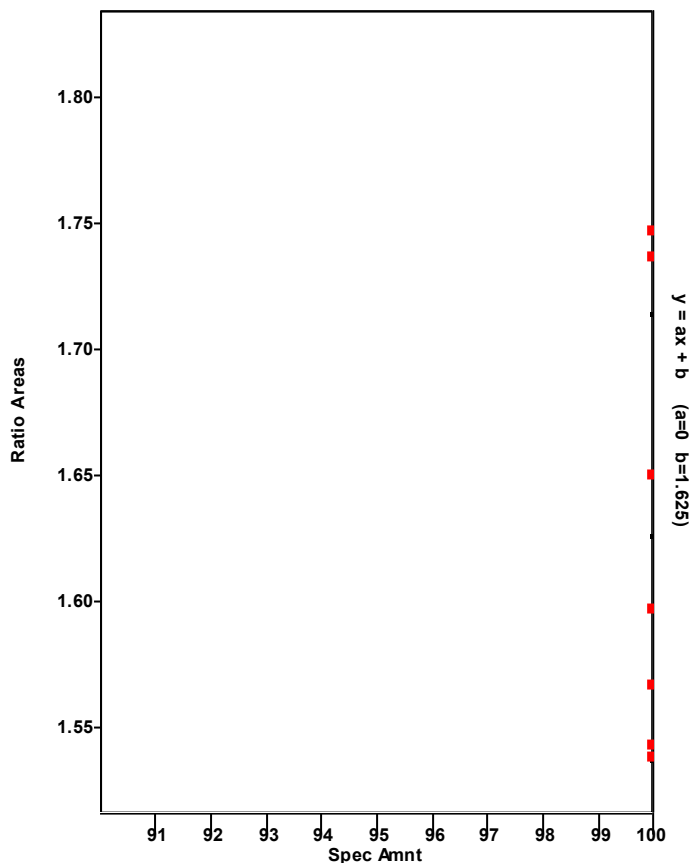
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	922049
RM1 Area	795902
RM1 Ratio (A)	0.8632
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
 1.23E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20204_29

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

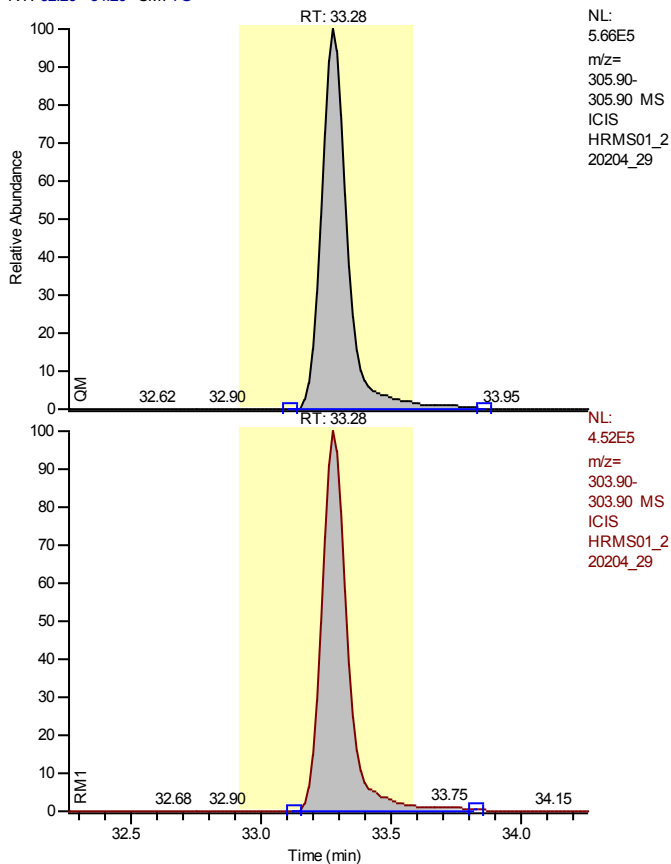
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.26 - 34.26 SM: 7G

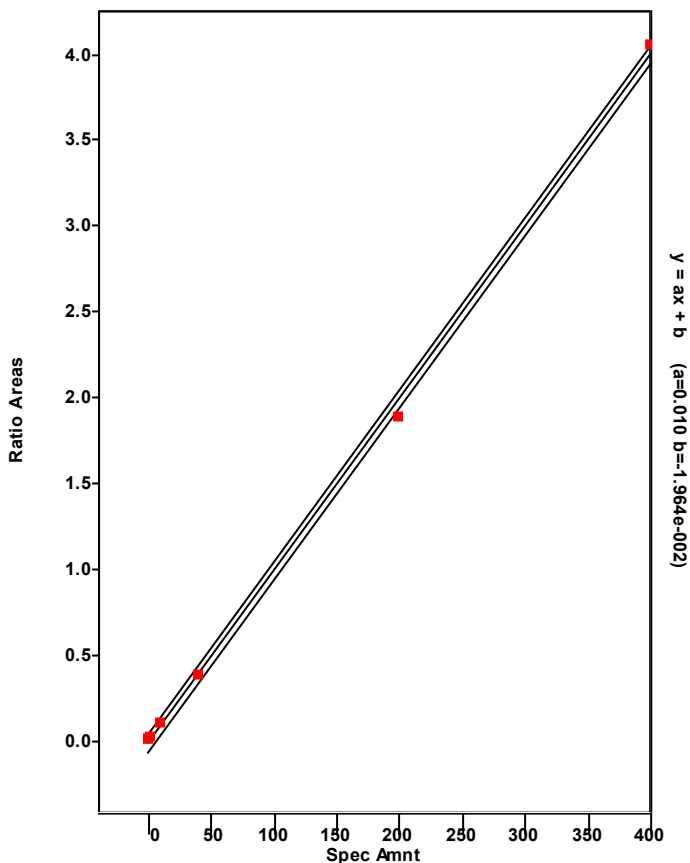


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	3880037
RM1 Area	3065459
RM1 Ratio (A)	0.7901
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	40.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

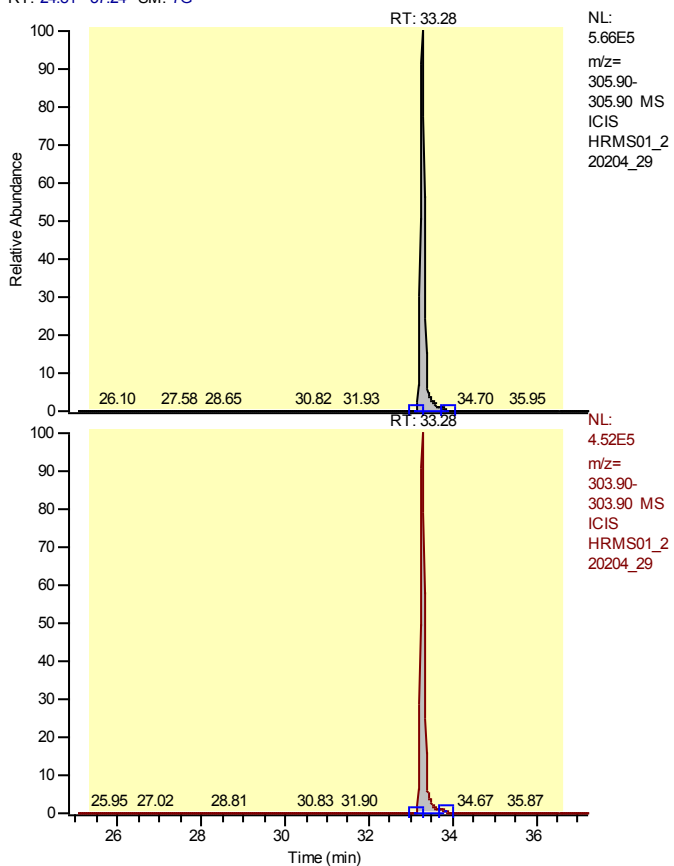
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.81 - 37.24 SM: 7G

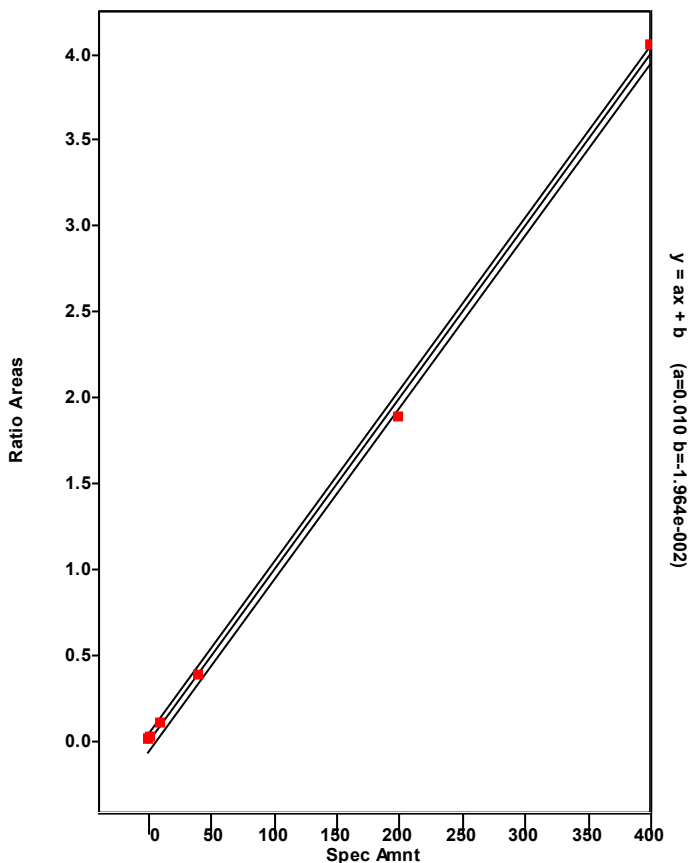


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	3880037
RM1 Area	3065459
RM1 Ratio (A)	0.7901
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

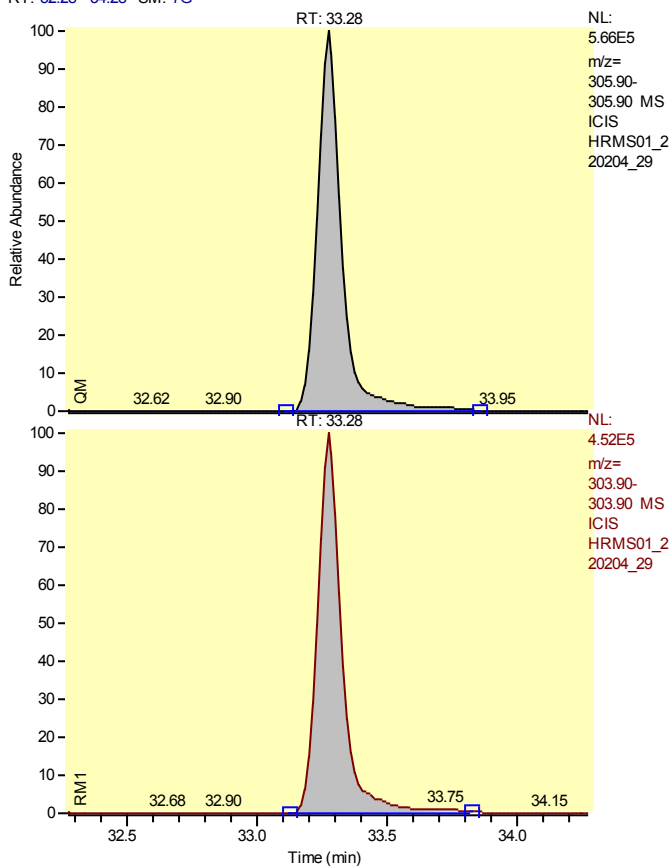
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

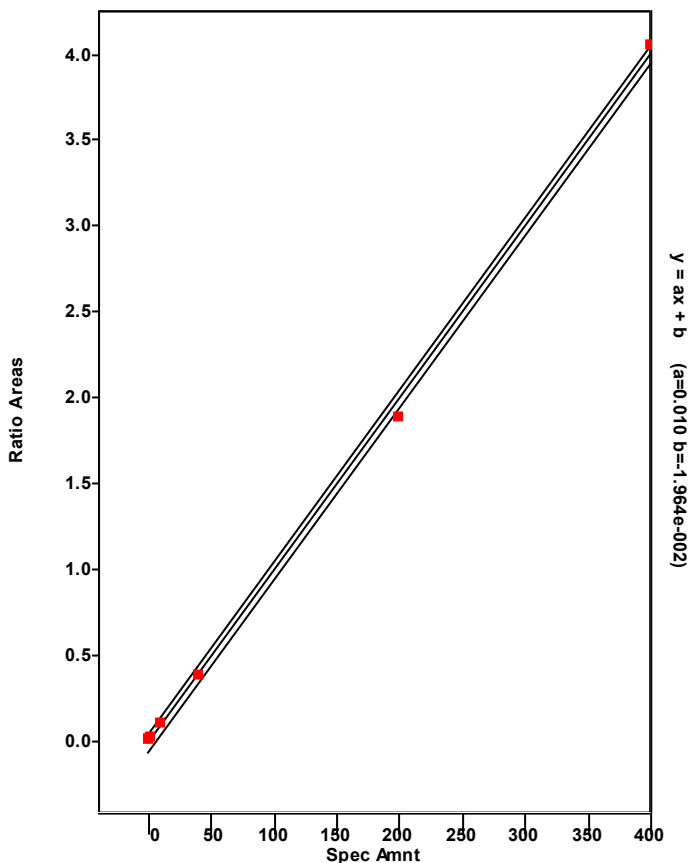


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	3880037
RM1 Area	3065459
RM1 Ratio (A)	0.7901
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

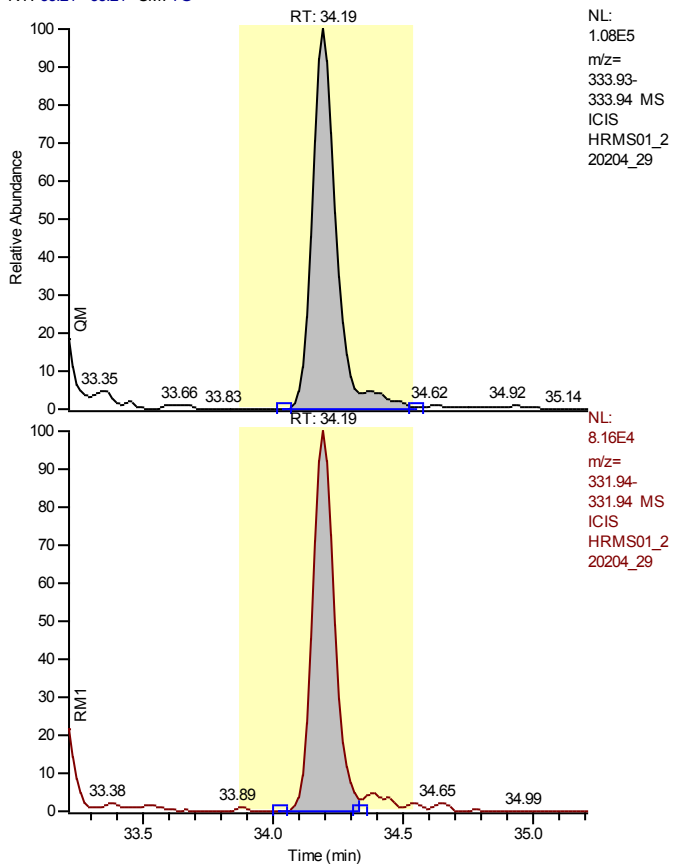
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G

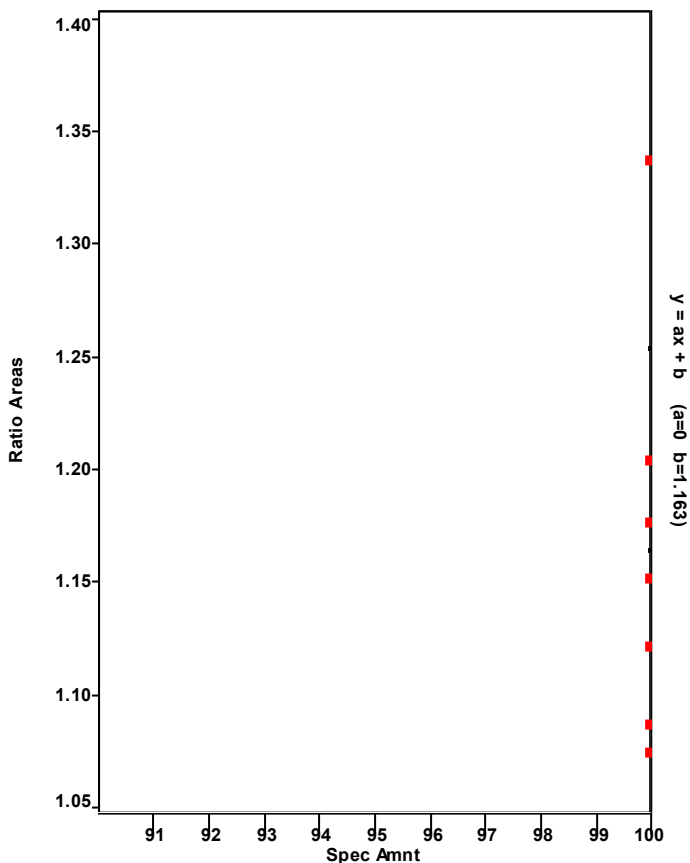


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	687728
RM1 Area	475485
RM1 Ratio (A)	0.6914
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

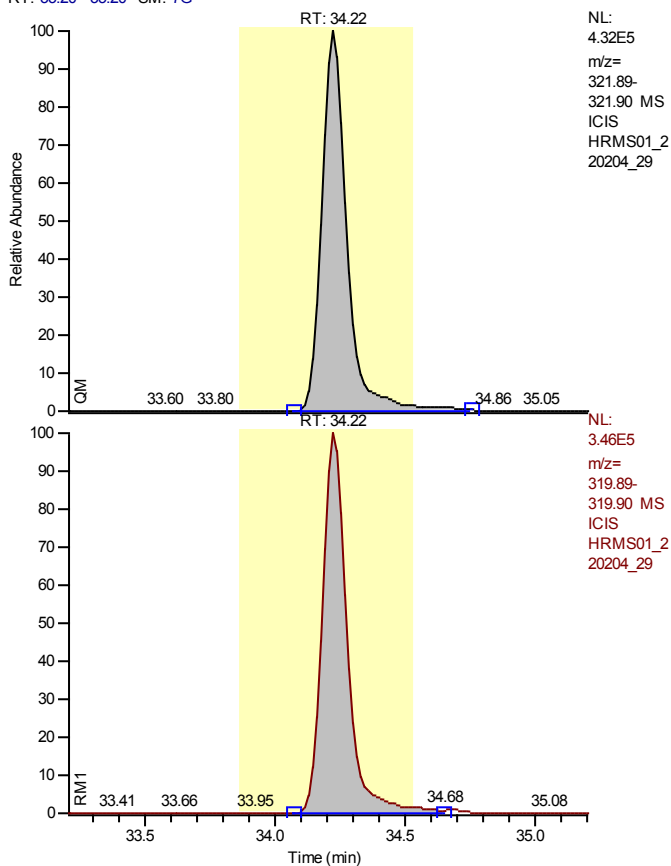
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.20 - 35.20 SM: 7G

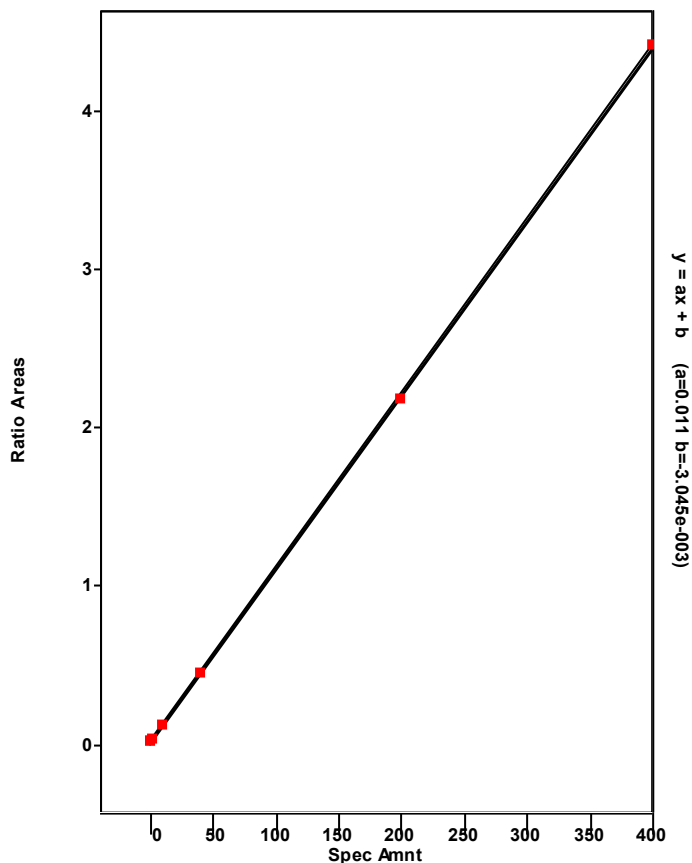


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	2853101
RM1 Area	2273243
RM1 Ratio (A)	0.7968
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	400.0000
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

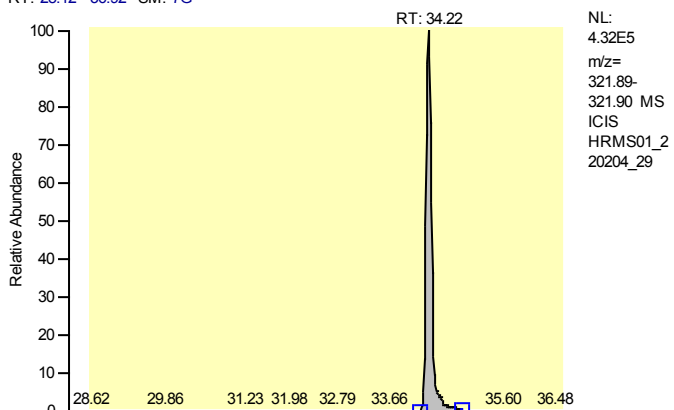
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

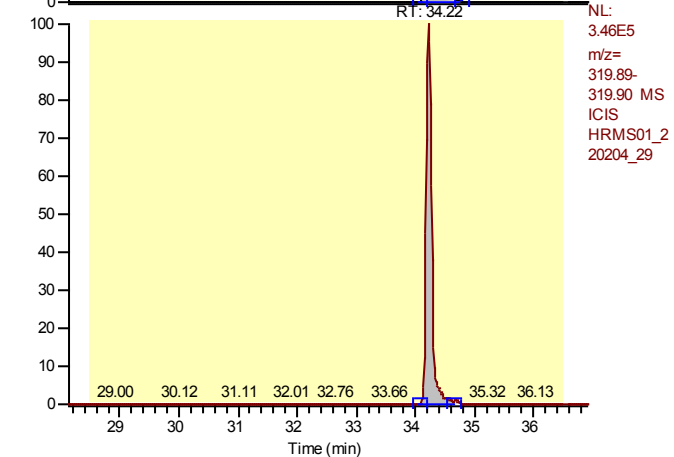
Entry Parameters

RT: 28.12- 36.92 SM: 7G



NL:
 4.32E5
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	2853101
RM1 Area	2273243
RM1 Ratio (A)	0.7968
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

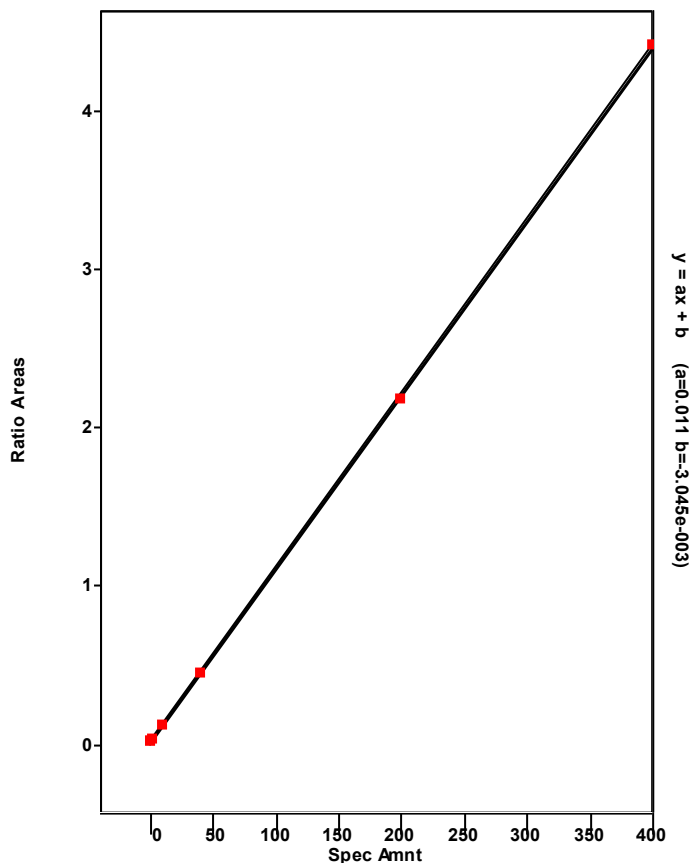


NL:
 3.46E5
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20204_29

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

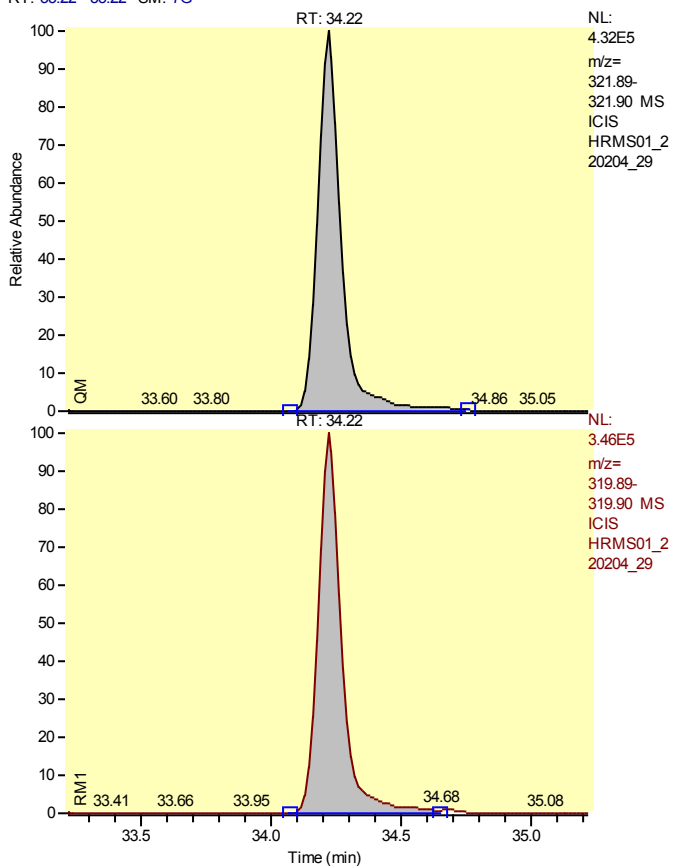
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

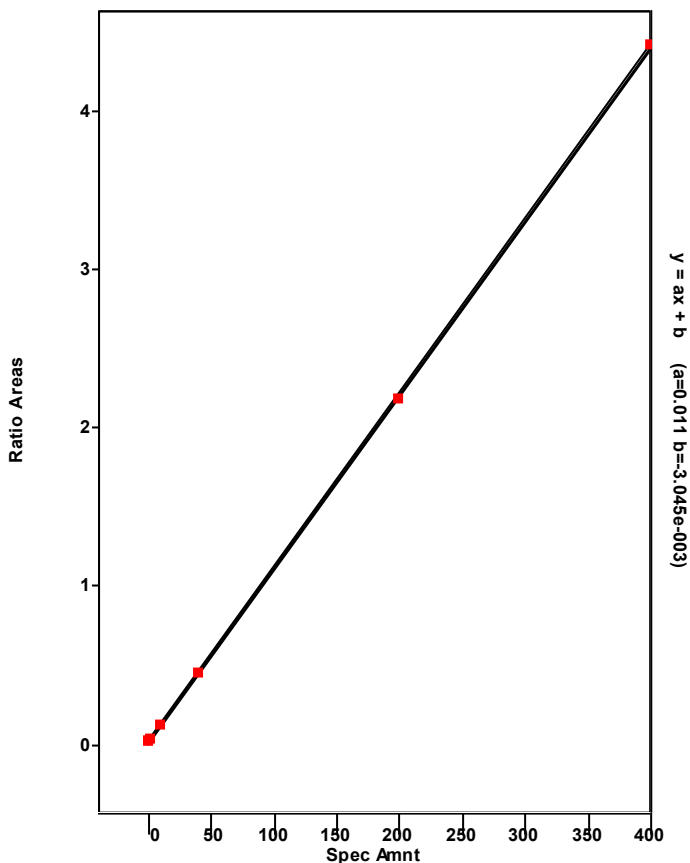


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	2853101
RM1 Area	2273243
RM1 Ratio (A)	0.7968
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	400.00
Calculated Amount (A)	400.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

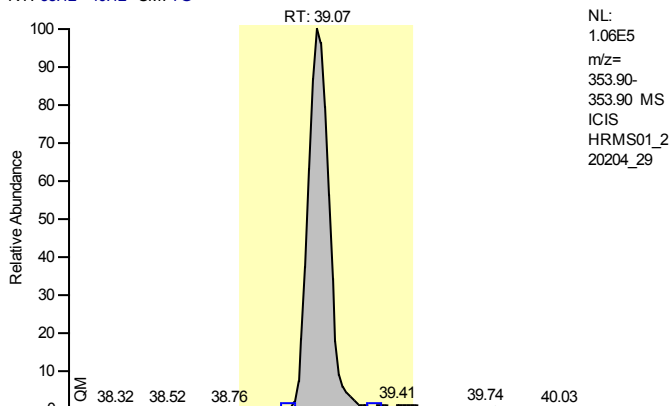
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



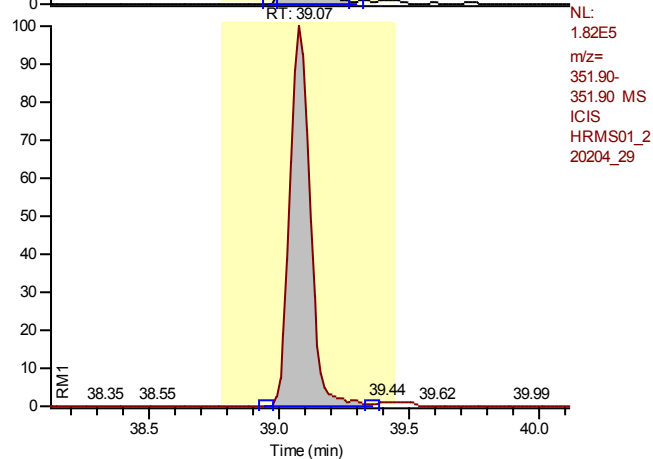
Chromatogram

Entry Parameters

RT: 38.12 - 40.12 SM: 7G



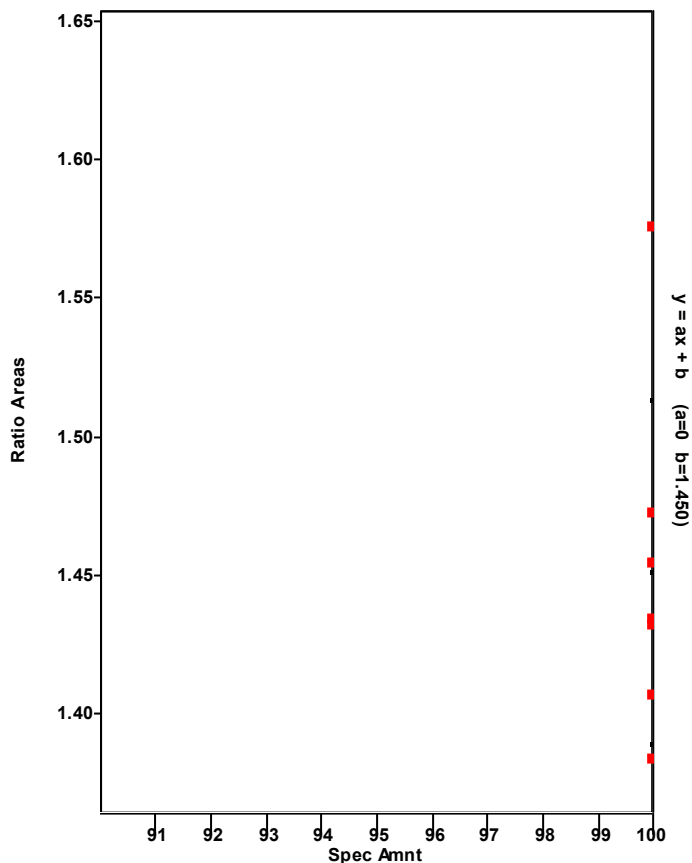
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	583074
RM1 Area	975372
RM1 Ratio (A)	1.6728
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

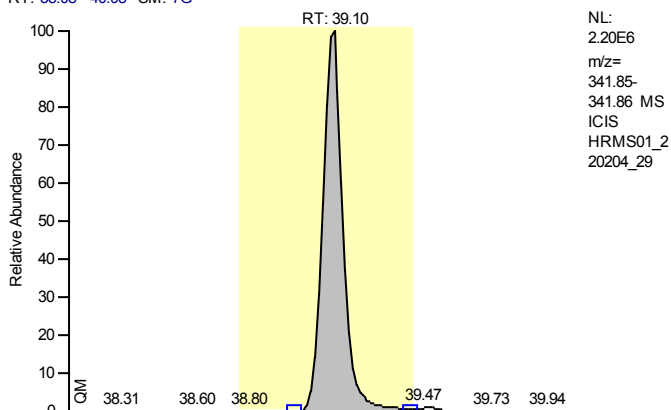
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



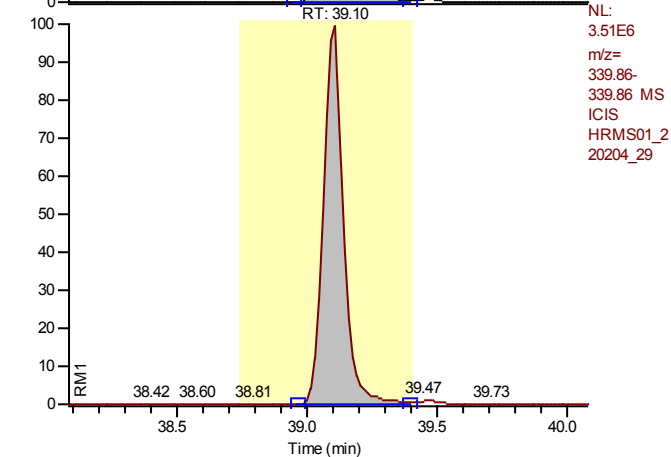
Chromatogram

Entry Parameters

RT: 38.08 - 40.08 SM: 7G



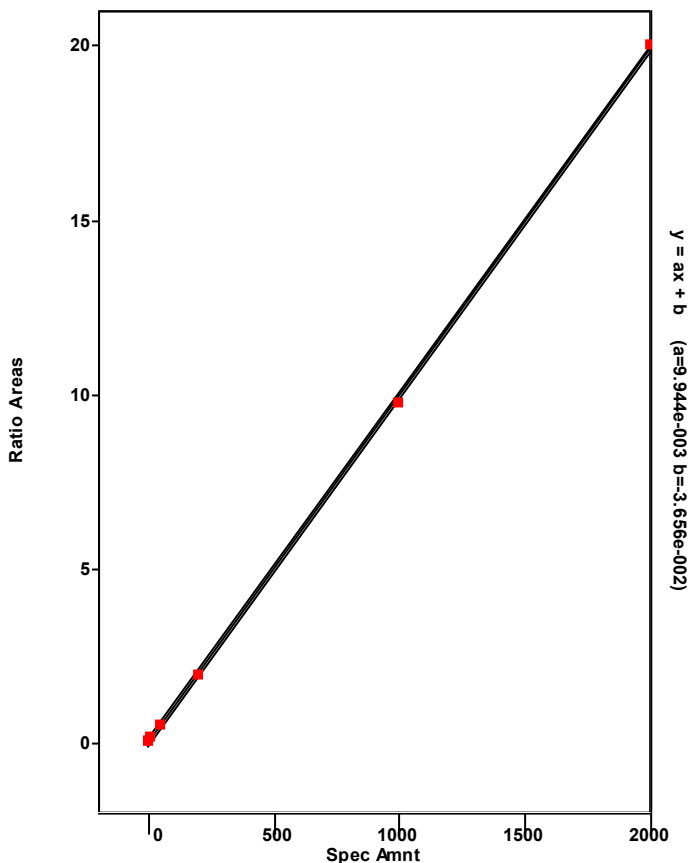
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	12090585
RM1 Area	19030268
RM1 Ratio (A)	1.5740
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	60.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

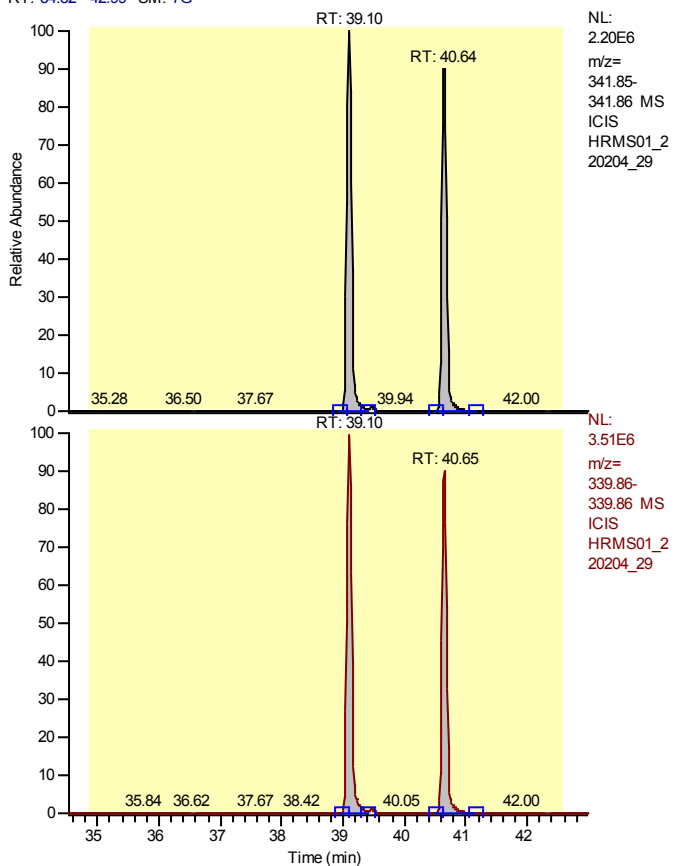
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.52 - 42.99 SM: 7G

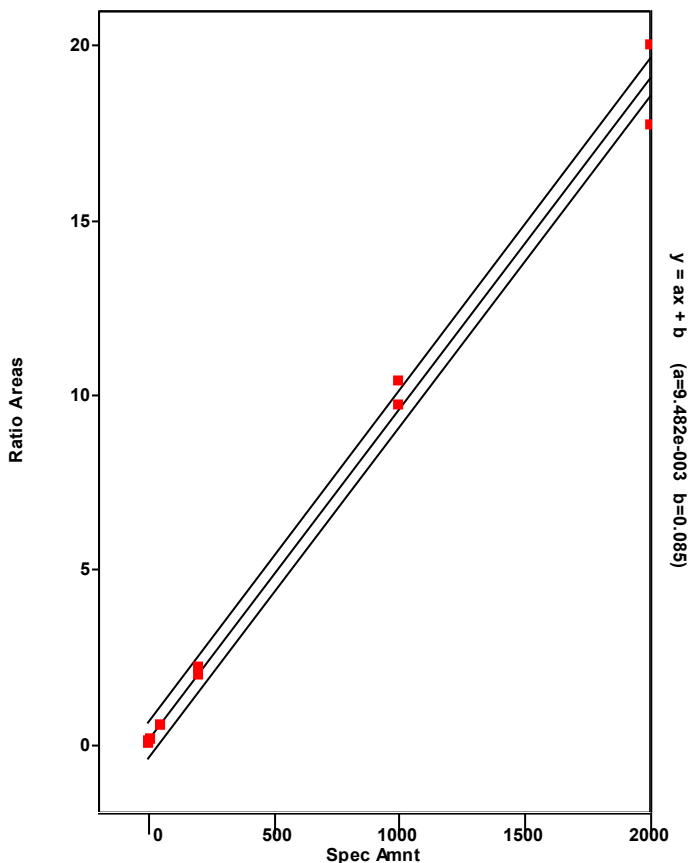


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	22819390
RM1 Area	35823729
RM1 Ratio (A)	1.5699
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

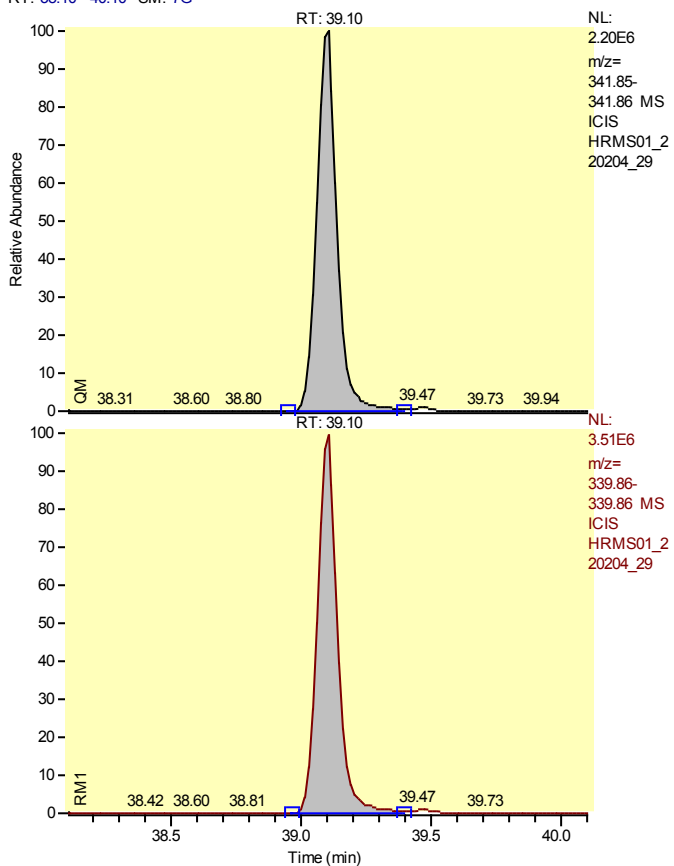
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G

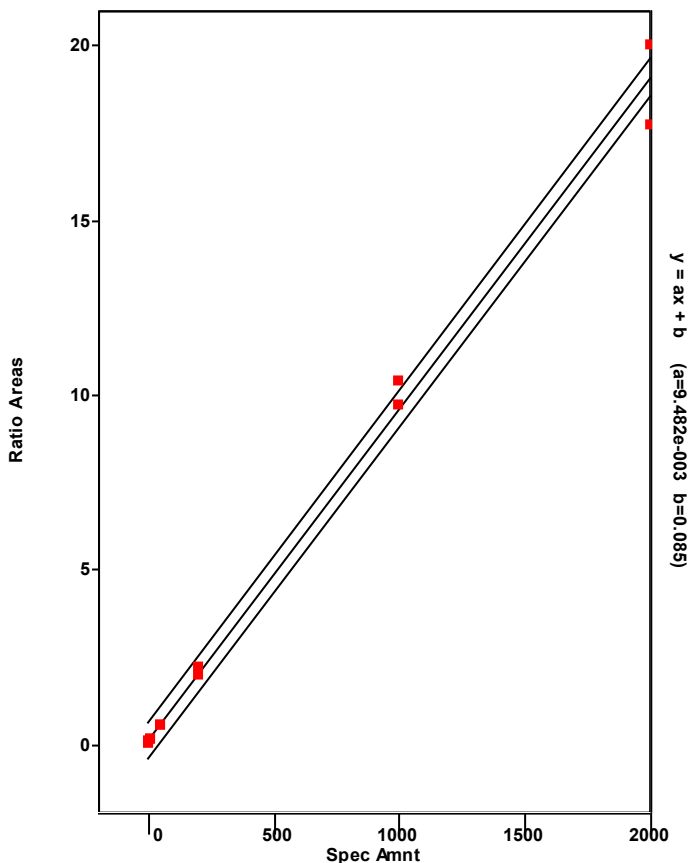


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	12090585
RM1 Area	19030268
RM1 Ratio (A)	1.5740
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

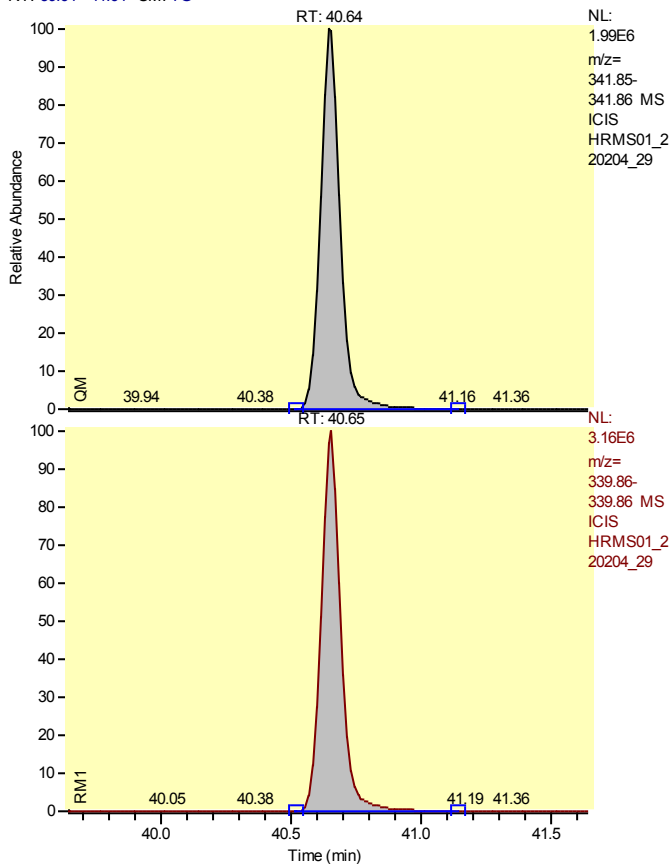
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G

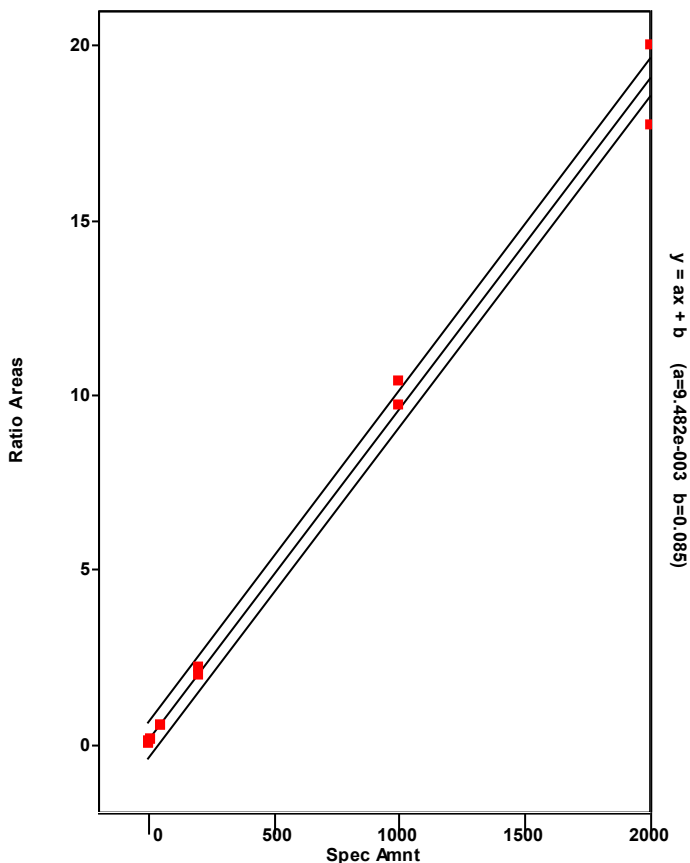


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	10728805
RM1 Area	16793461
RM1 Ratio (A)	1.5653
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

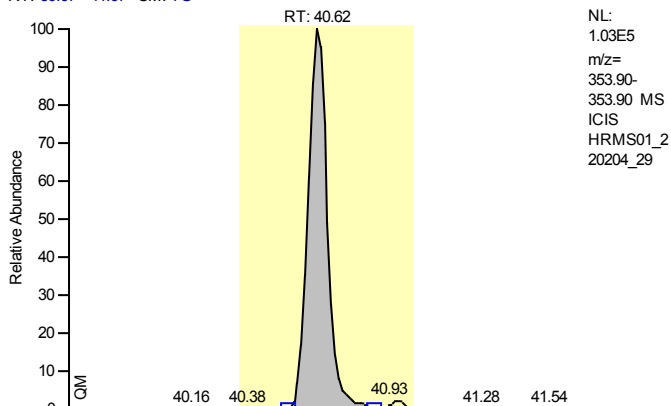
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

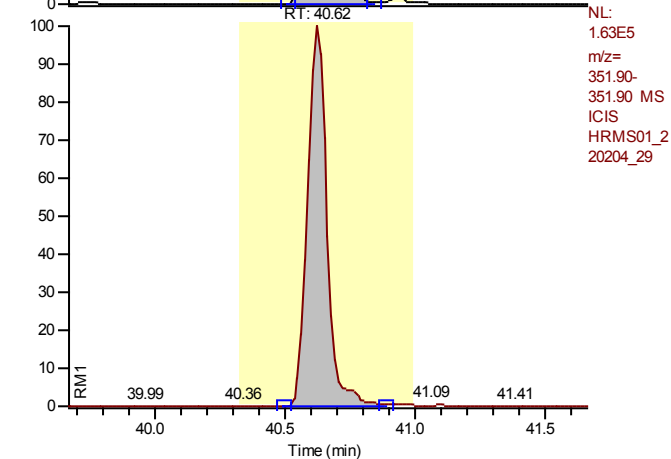
Entry Parameters

RT: 39.67 - 41.67 SM: 7G



NL:
1.03E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20204_29

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	534283
RM1 Area	848580
RM1 Ratio (A)	1.5883
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

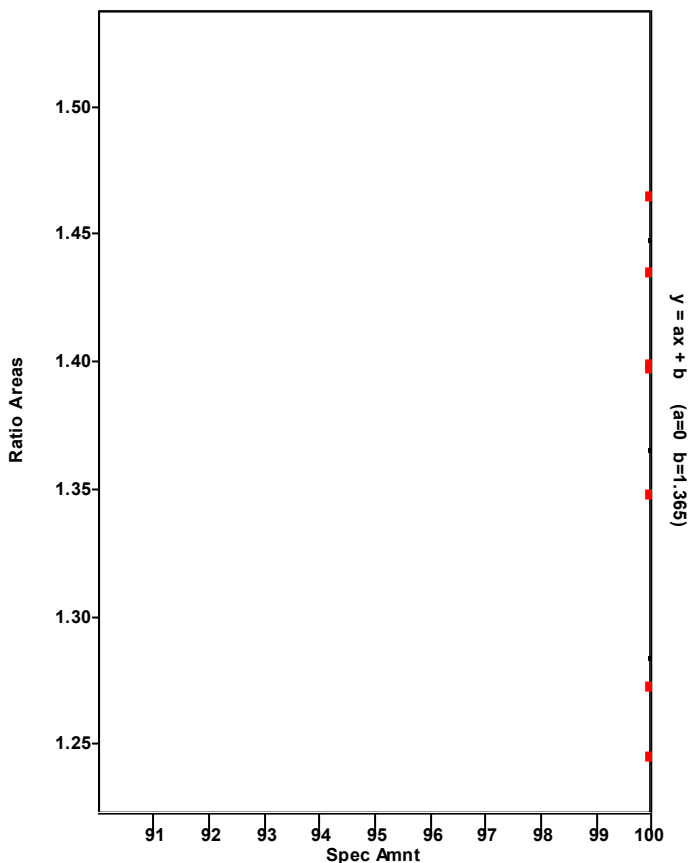


NL:
1.63E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20204_29

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

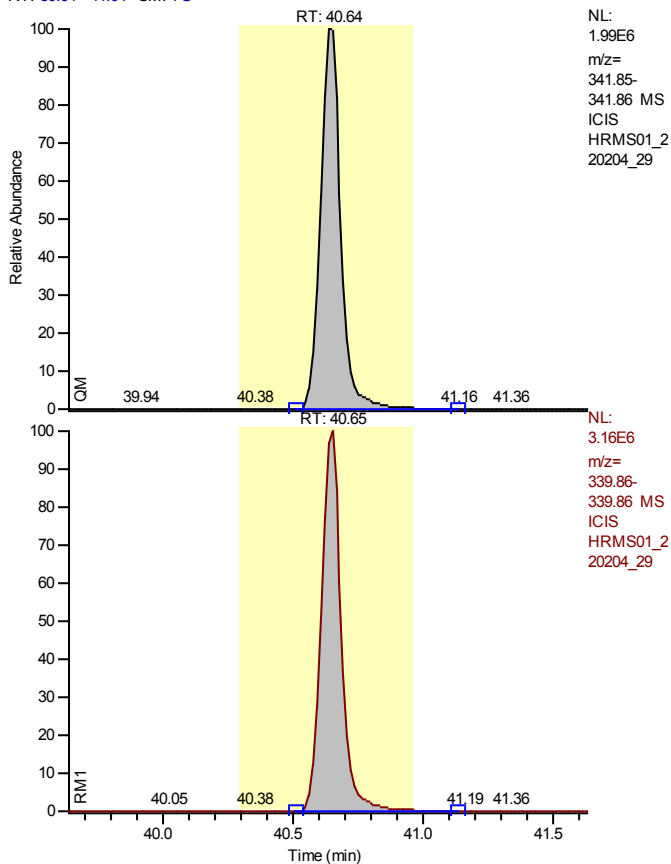
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G



NL:
 1.99E6
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_29

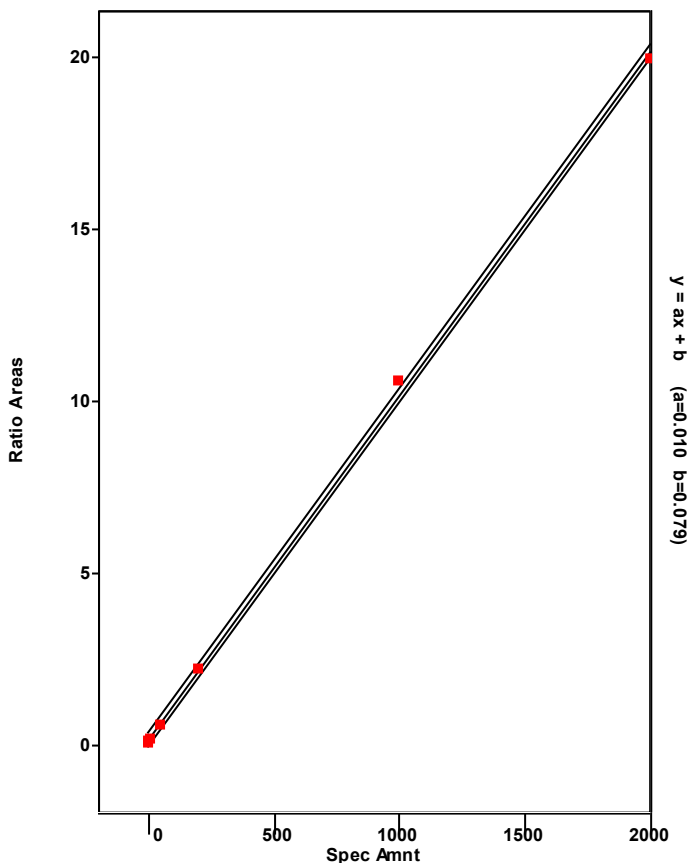
NL:
 3.16E6
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	10728805
RM1 Area	16793461
RM1 Ratio (A)	1.5653
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	600.0000
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

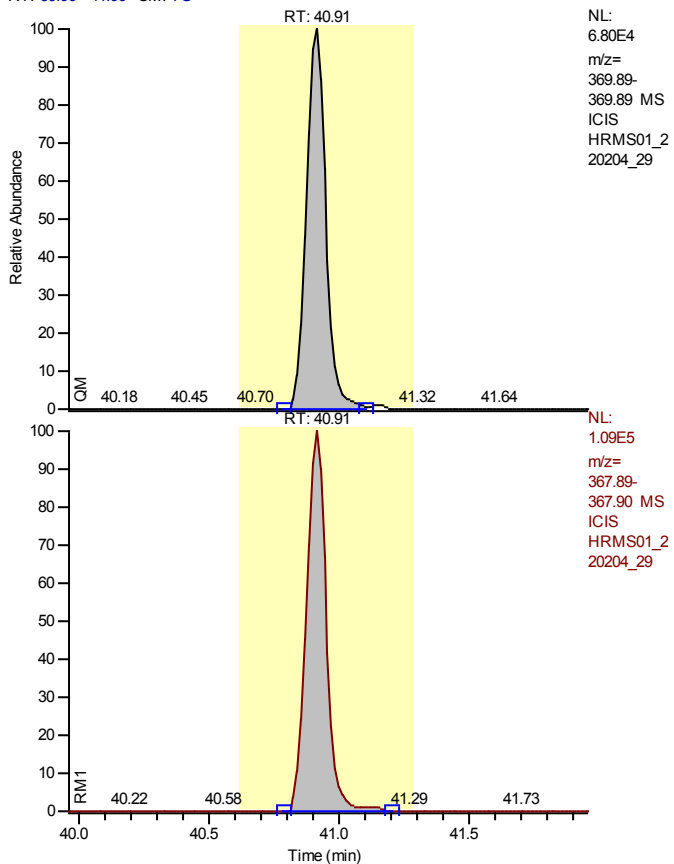
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G

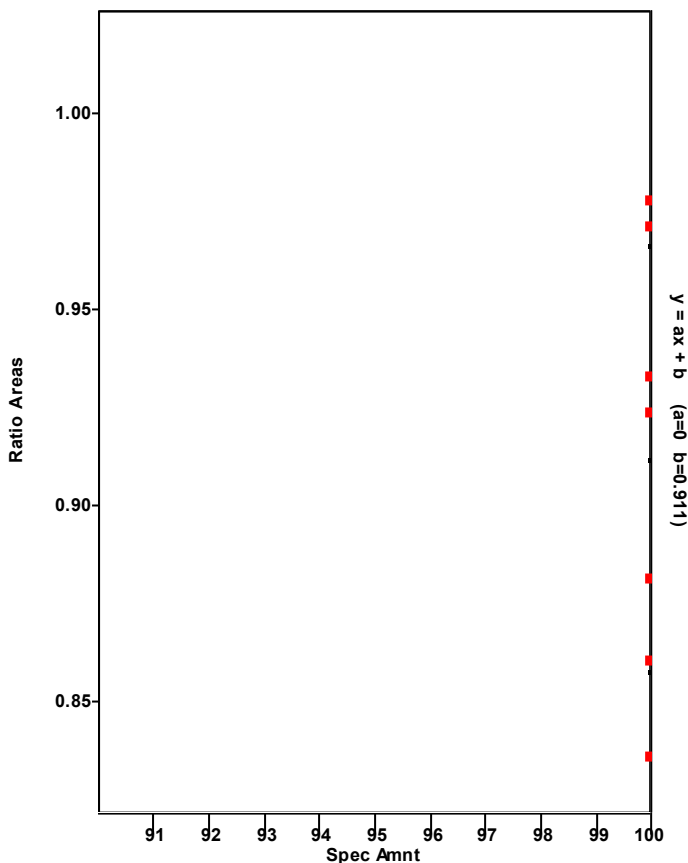


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	350027
RM1 Area	572255
RM1 Ratio (A)	1.6349
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

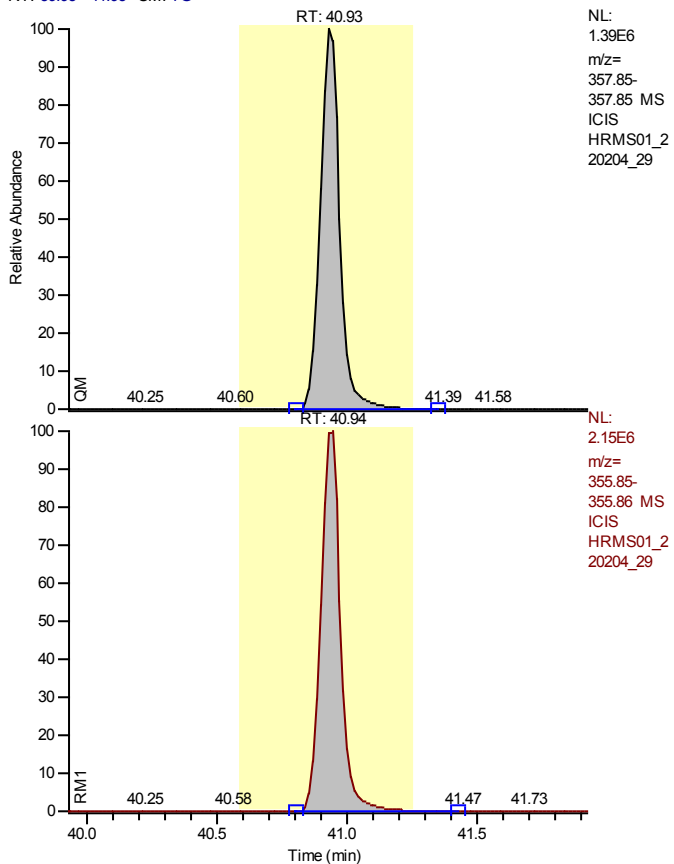
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.93 - 41.93 SM: 7G

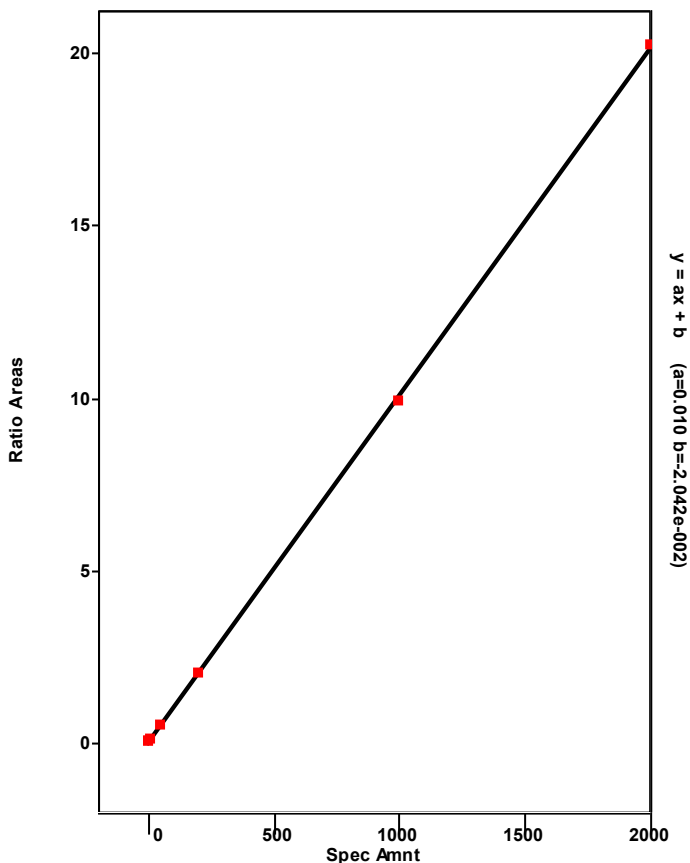


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	7226874
RM1 Area	11371785
RM1 Ratio (A)	1.5735
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	2000.0000
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

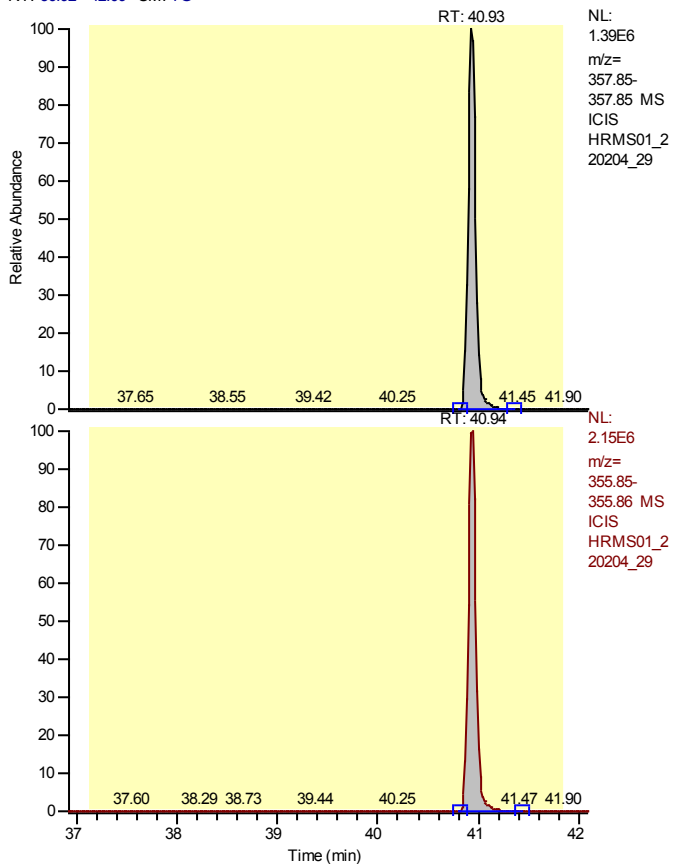
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.92 - 42.09 SM: 7G

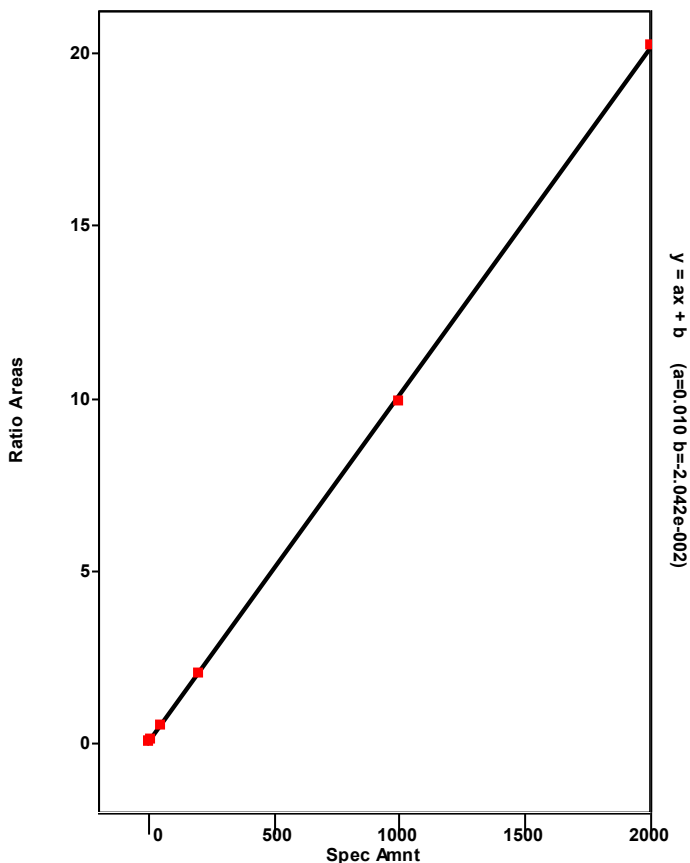


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	7226874
RM1 Area	11371785
RM1 Ratio (A)	1.5735
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

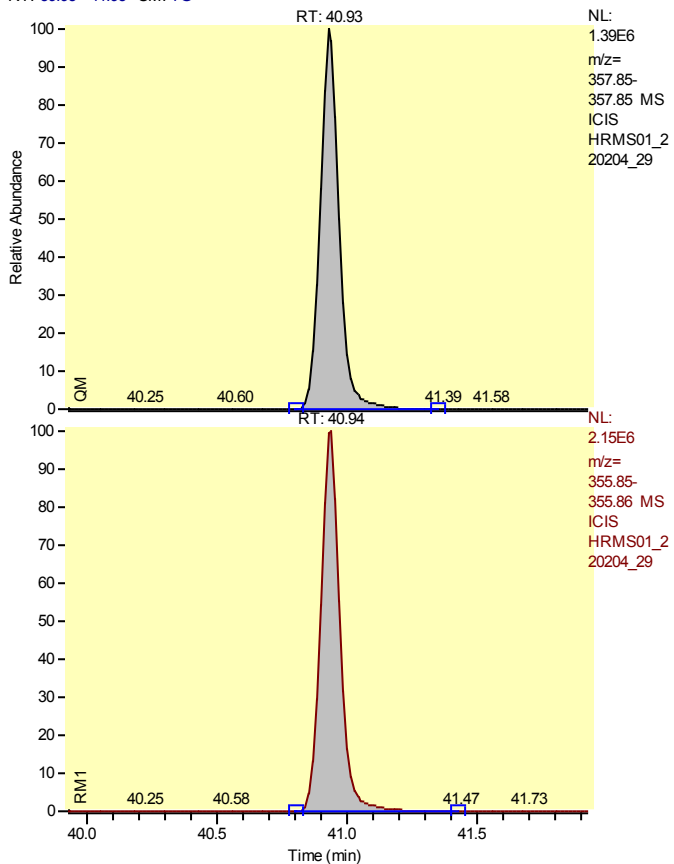
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.93 - 41.93 SM: 7G

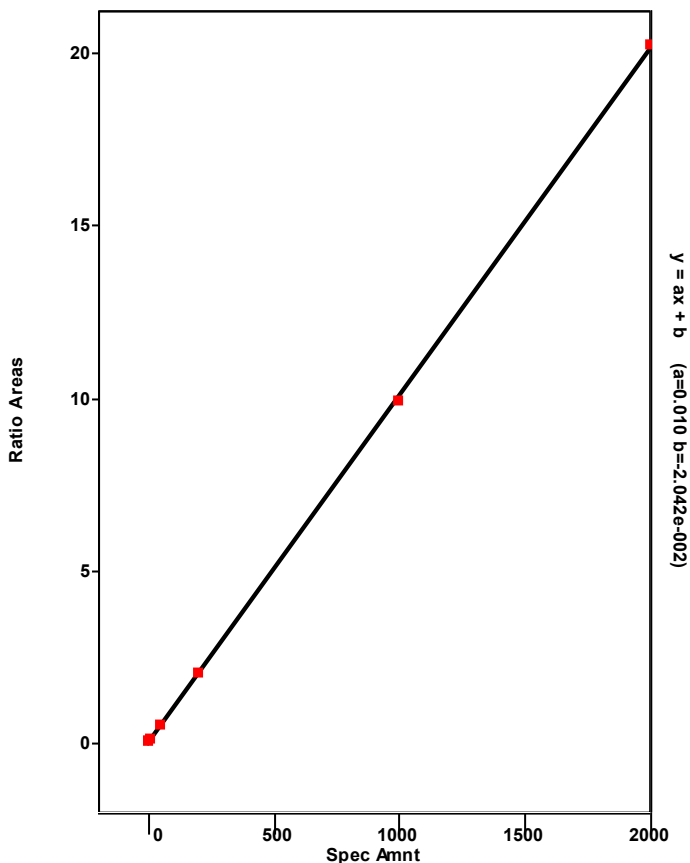


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	7226874
RM1 Area	11371785
RM1 Ratio (A)	1.5735
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

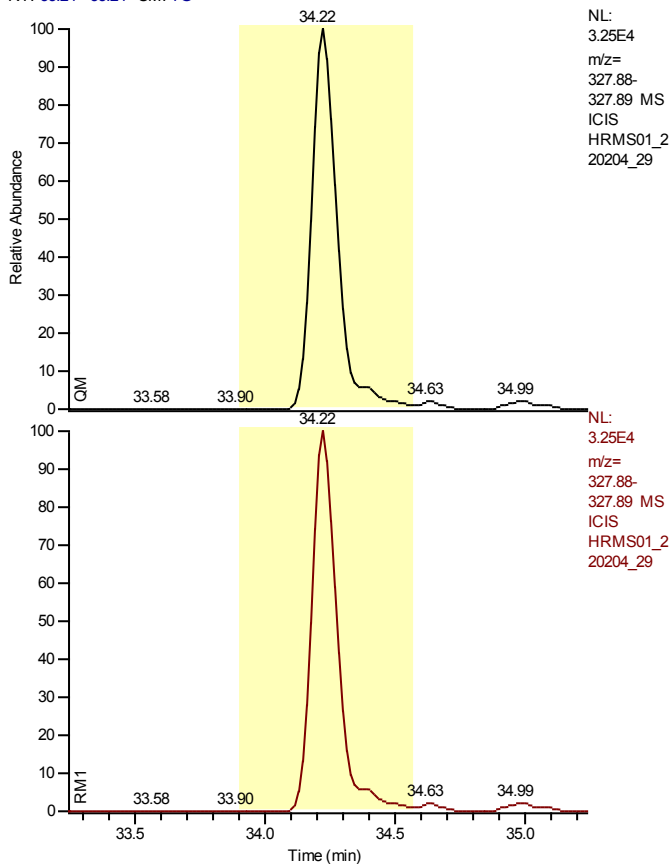
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G



NL:
 3.25E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_29

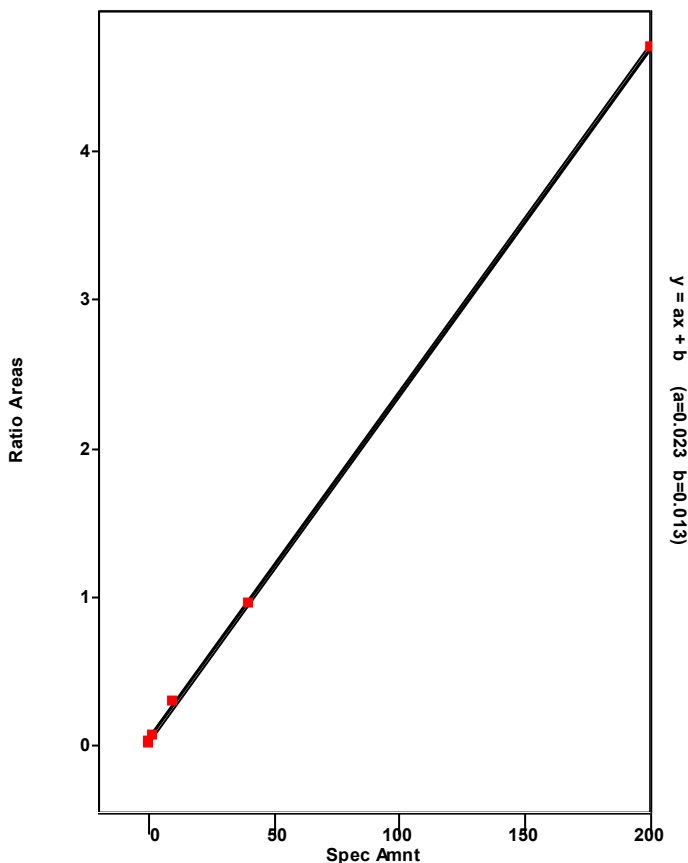
NL:
 3.25E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	1.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	0
TEQ (A)	n.d.
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

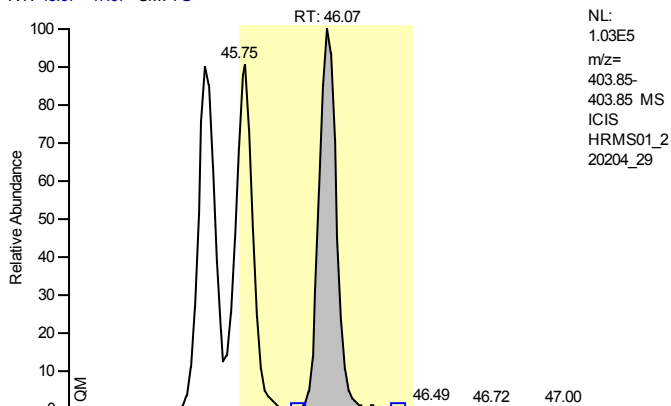
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

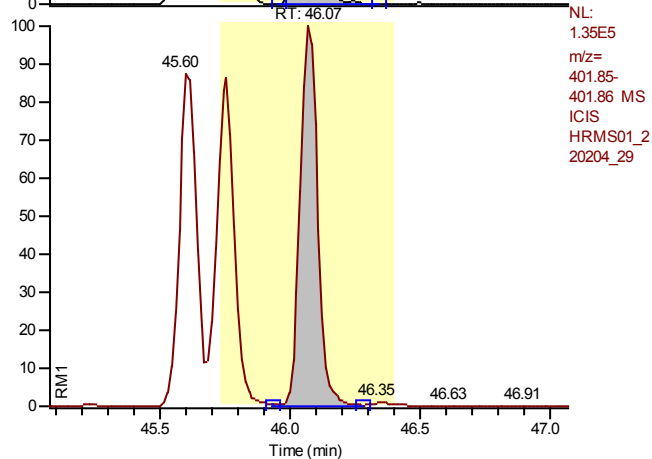
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL: 1.03E5
 m/z= 403.85-403.85 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	486996
RM1 Area	640173
RM1 Ratio (A)	1.3145
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

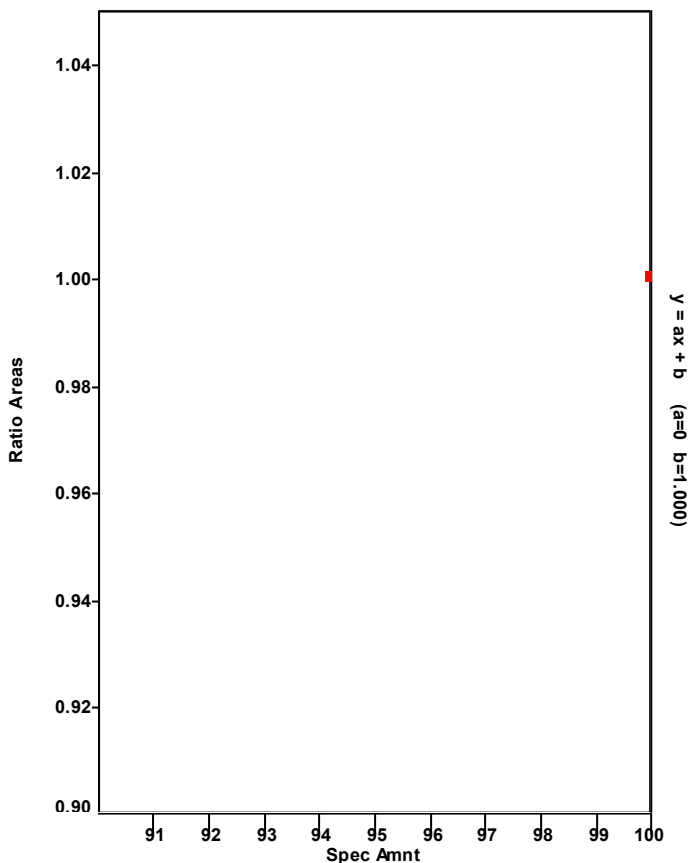


NL: 1.35E5
 m/z= 401.85-401.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

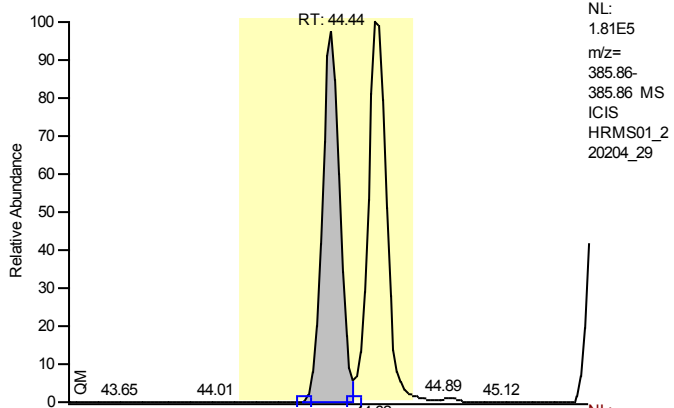
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

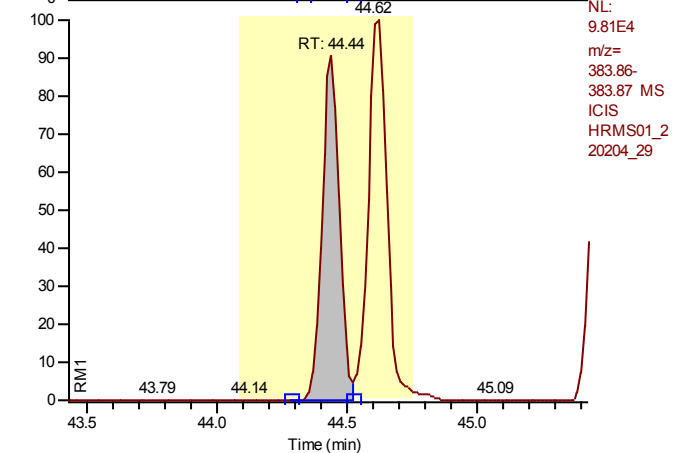
Entry Parameters

RT: 43.43 - 45.43 SM: 7G



NL:
 1.81E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	830333
RM1 Area	413722
RM1 Ratio (A)	0.4983
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

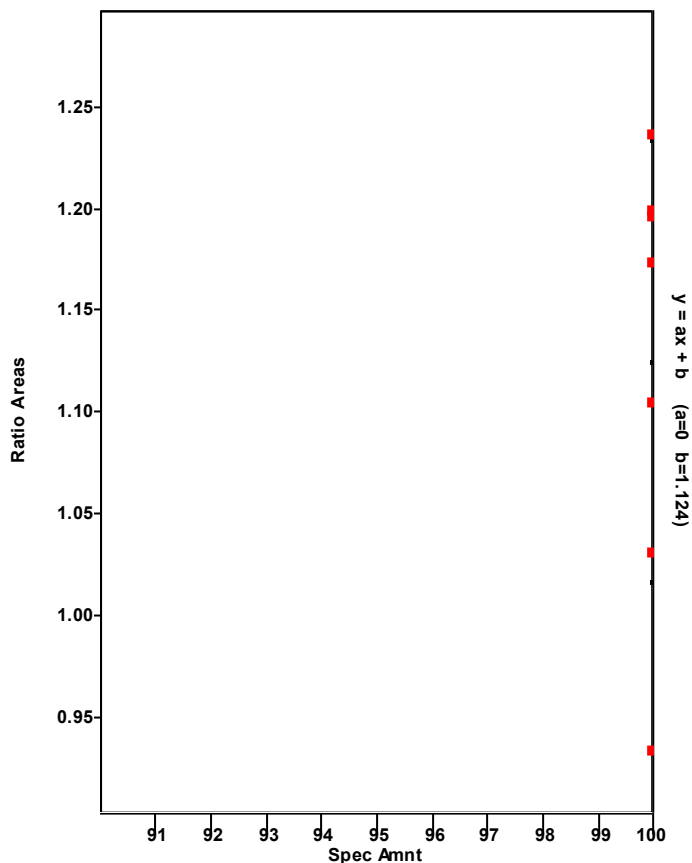


NL:
 9.81E4
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_29

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

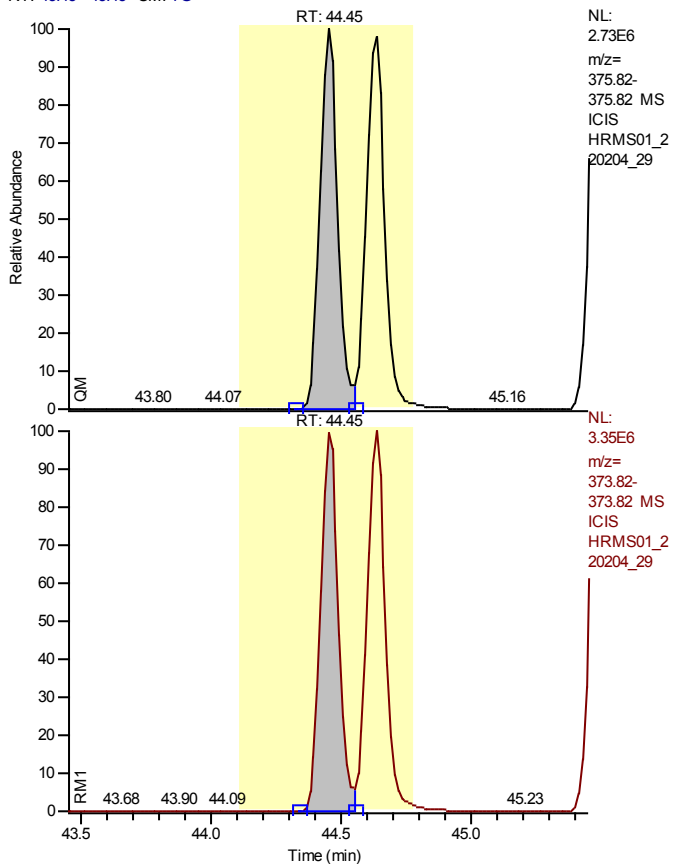
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

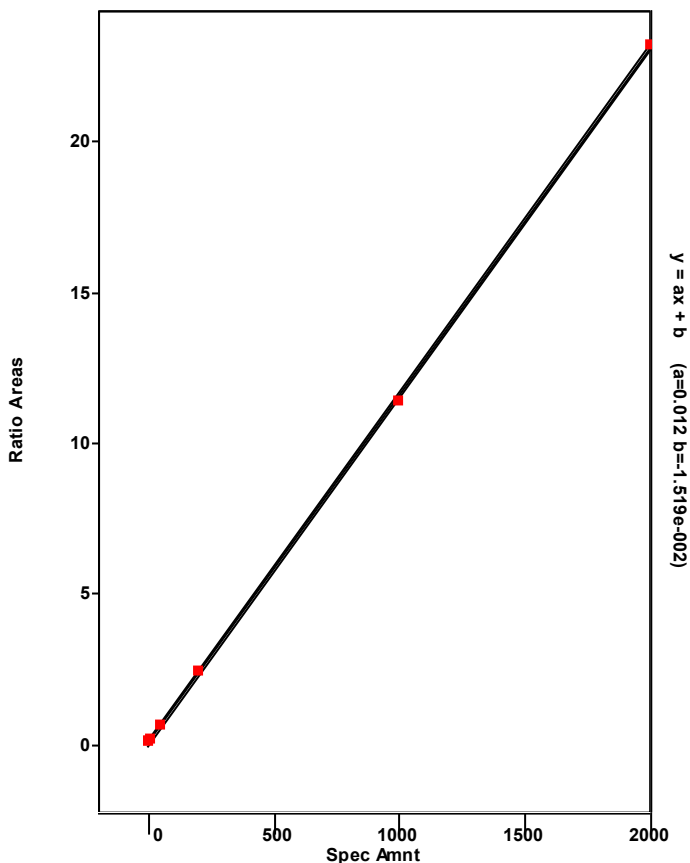


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	12945094
RM1 Area	15843062
RM1 Ratio (A)	1.2239
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

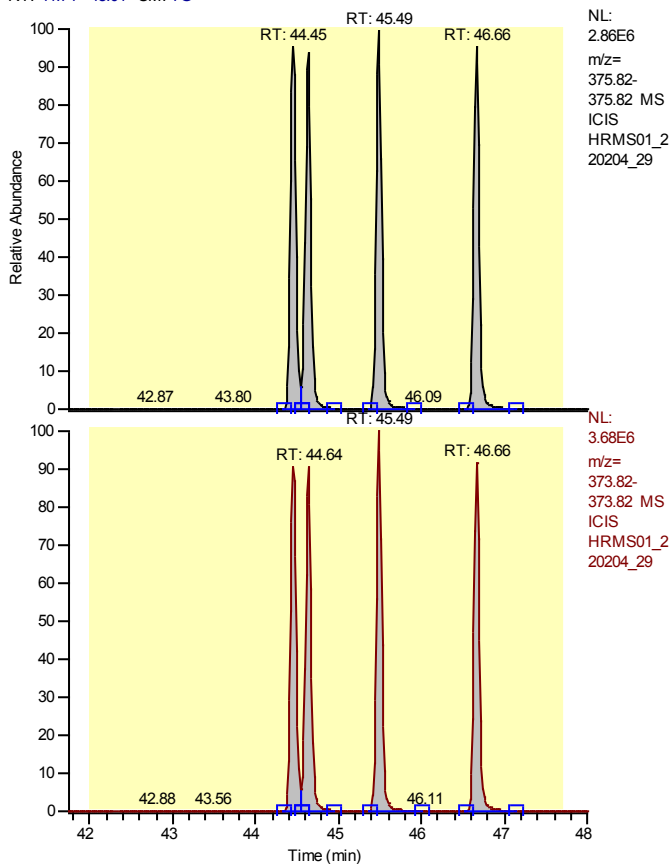
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.74 - 48.01 SM: 7G

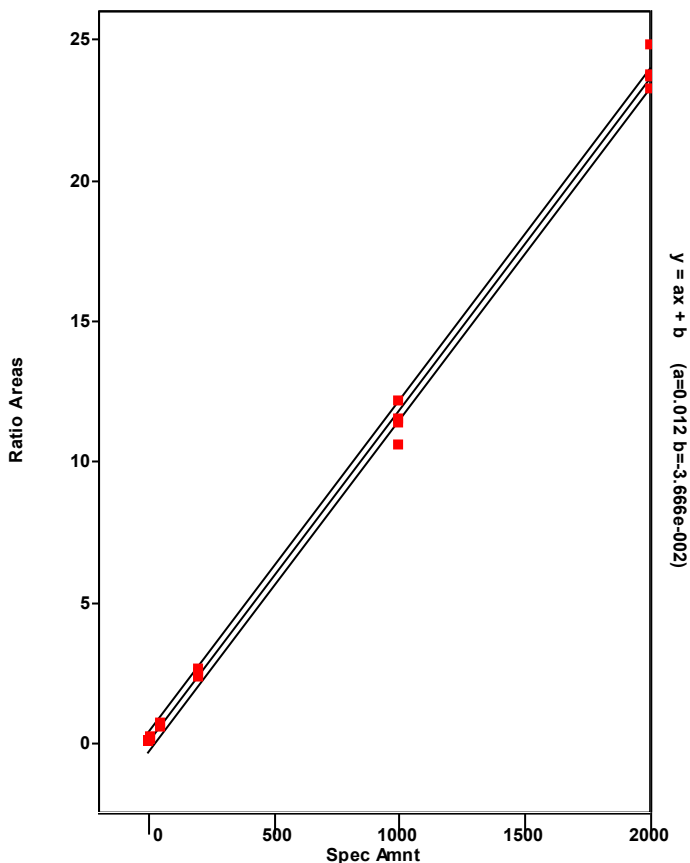


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	52652560
RM1 Area	65747298
RM1 Ratio (A)	1.2487
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	8000.00
Percent Recovery (A)	400
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

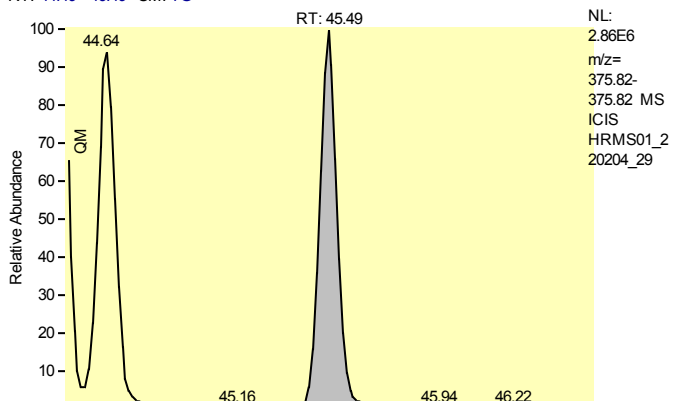
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

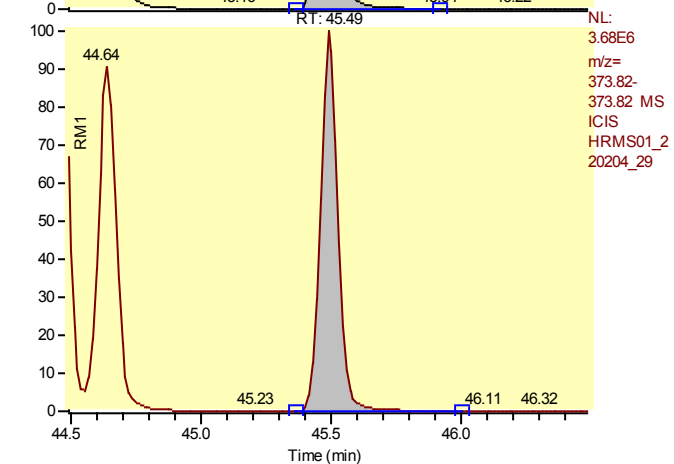
Entry Parameters

RT: 44.49 - 46.49 SM: 7G



NL:
2.86E6
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20204_29

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	13514145
RM1 Area	17257794
RM1 Ratio (A)	1.2770
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

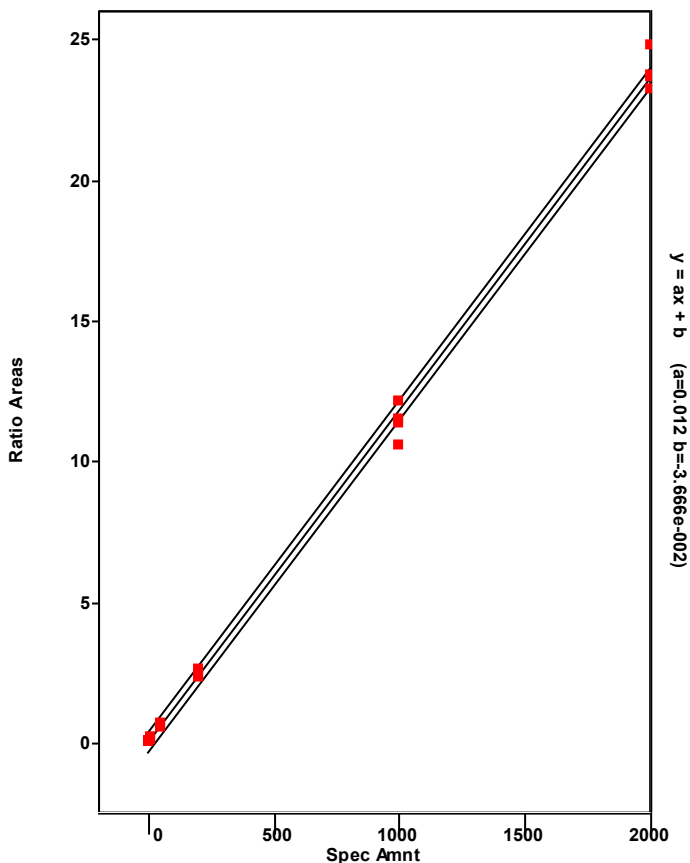


NL:
3.68E6
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20204_29

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

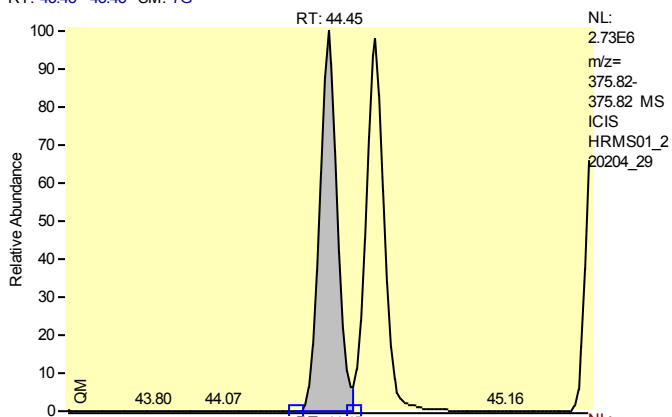
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



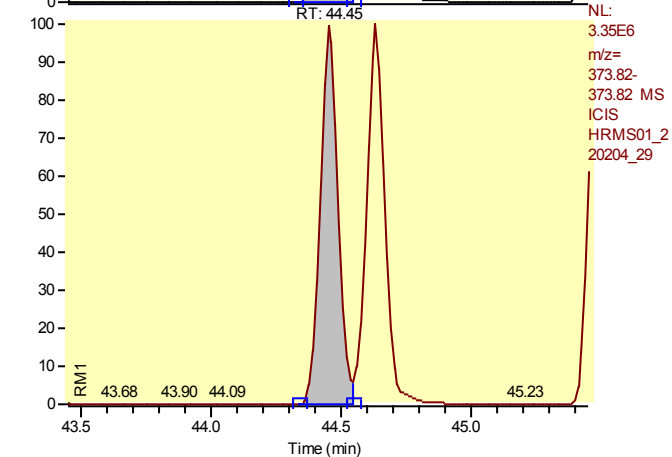
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G



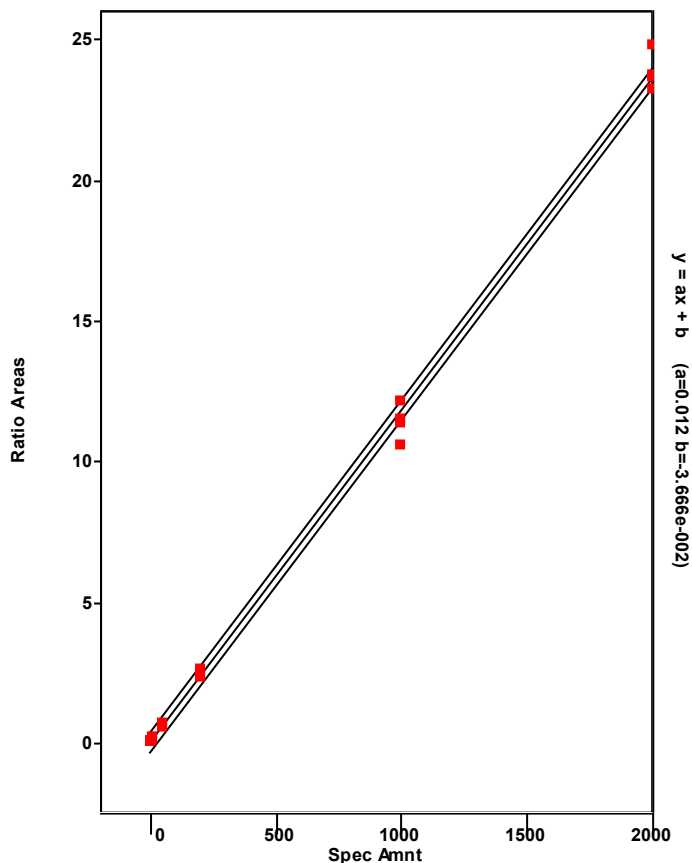
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	12945094
RM1 Area	15843062
RM1 Ratio (A)	1.2239
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

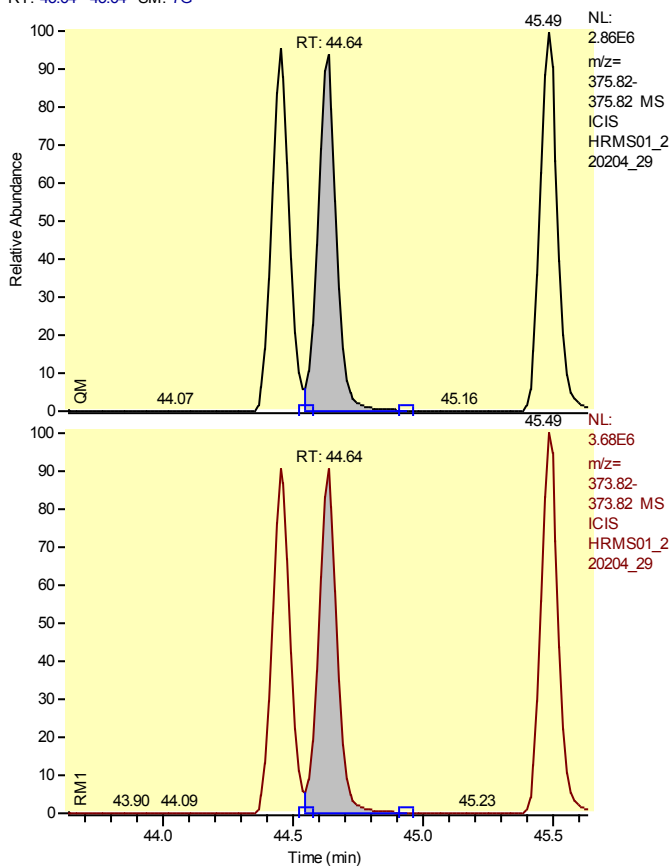
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.64 - 45.64 SM: 7G

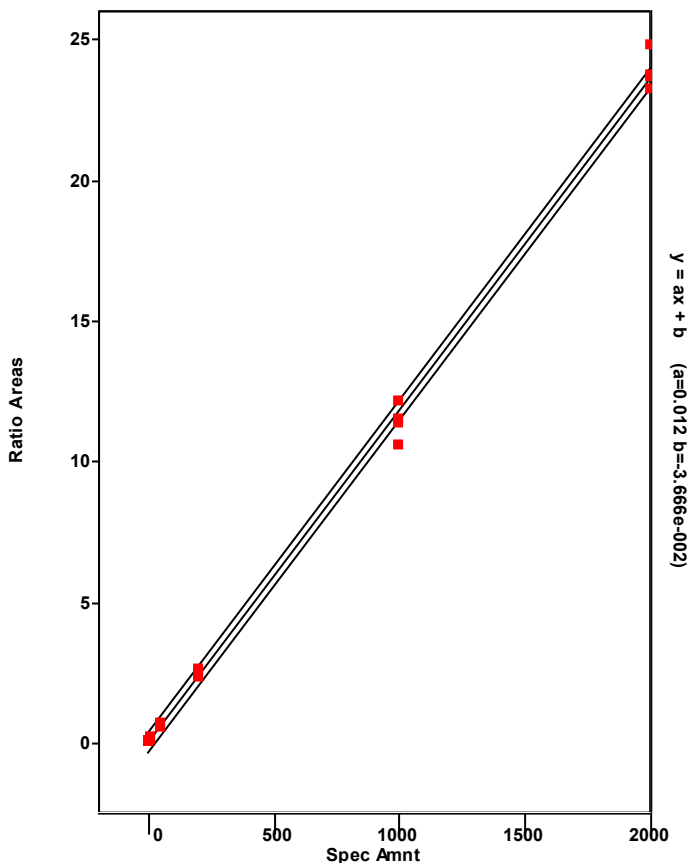


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	13078302
RM1 Area	16289768
RM1 Ratio (A)	1.2456
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

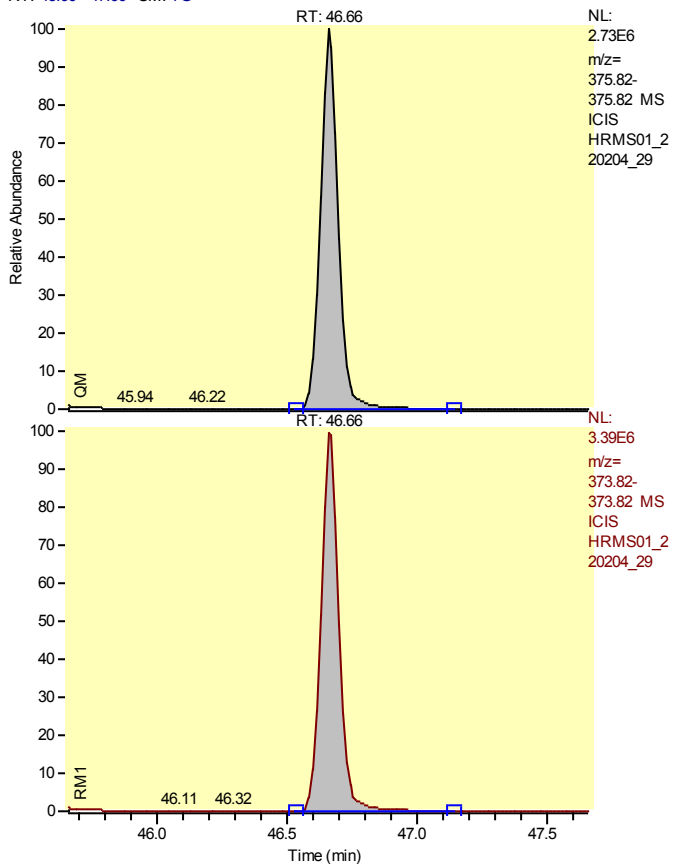
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

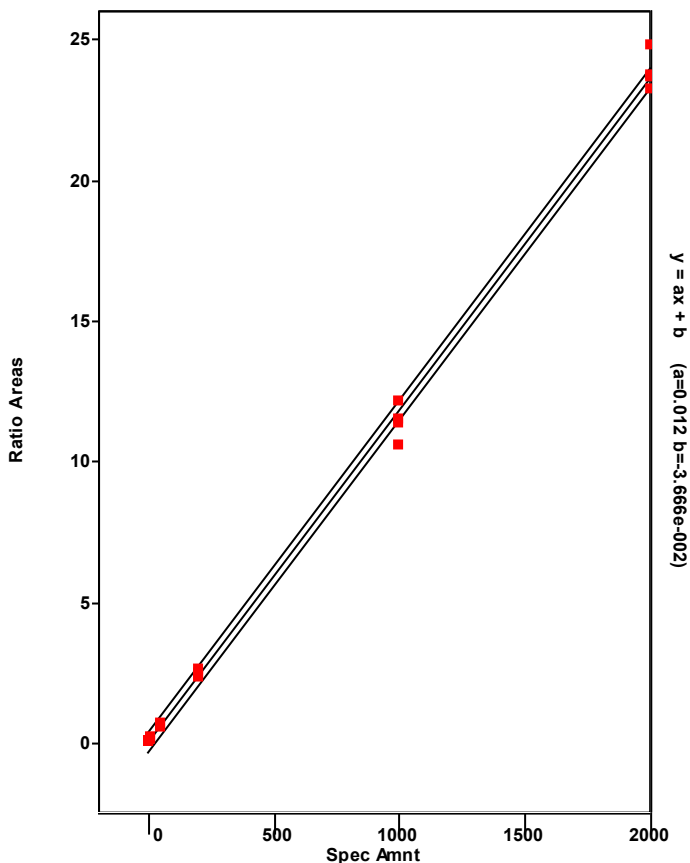


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	13115019
RM1 Area	16356674
RM1 Ratio (A)	1.2472
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

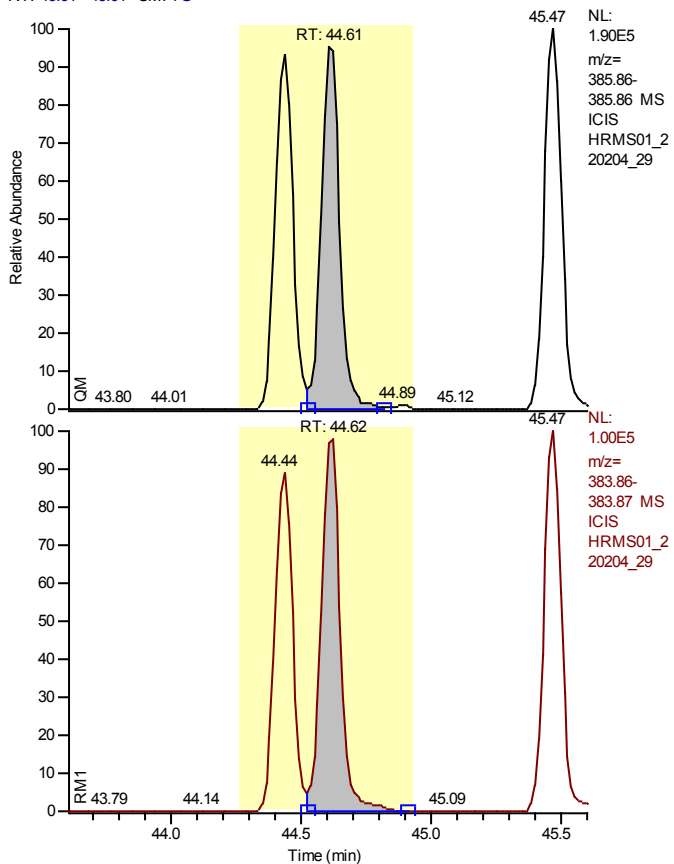
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.61 - 45.61 SM: 7G

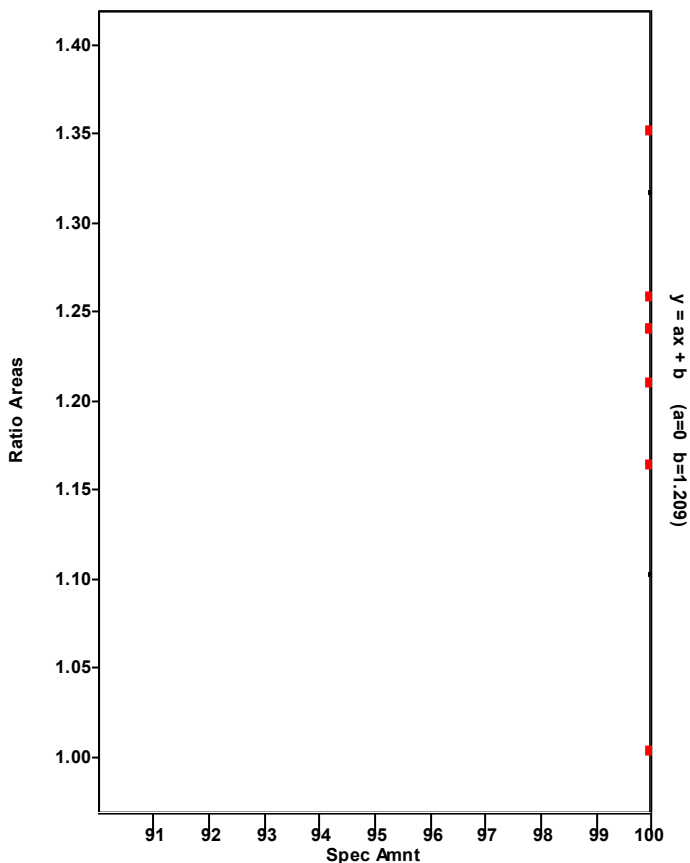


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	897762
RM1 Area	498818
RM1 Ratio (A)	0.5556
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

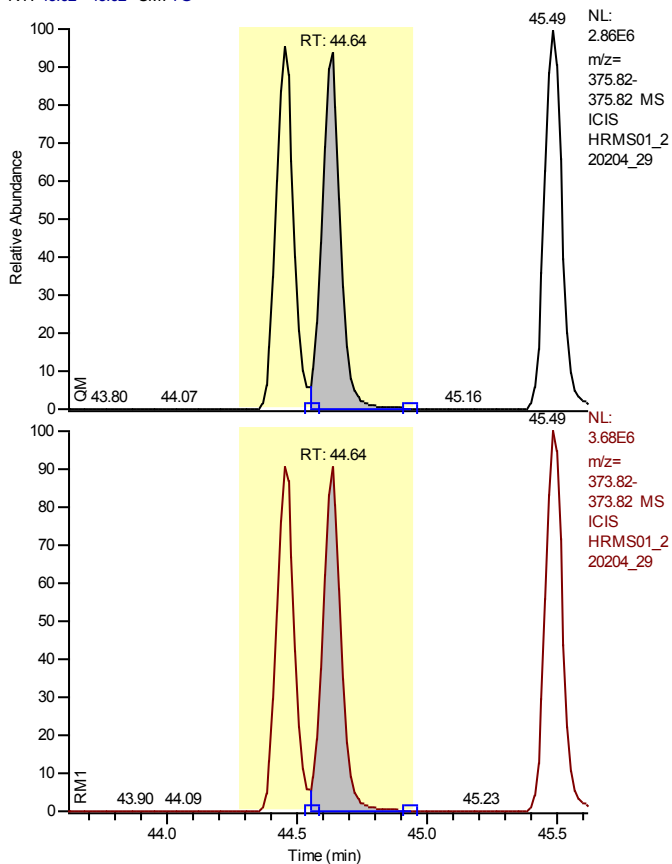
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

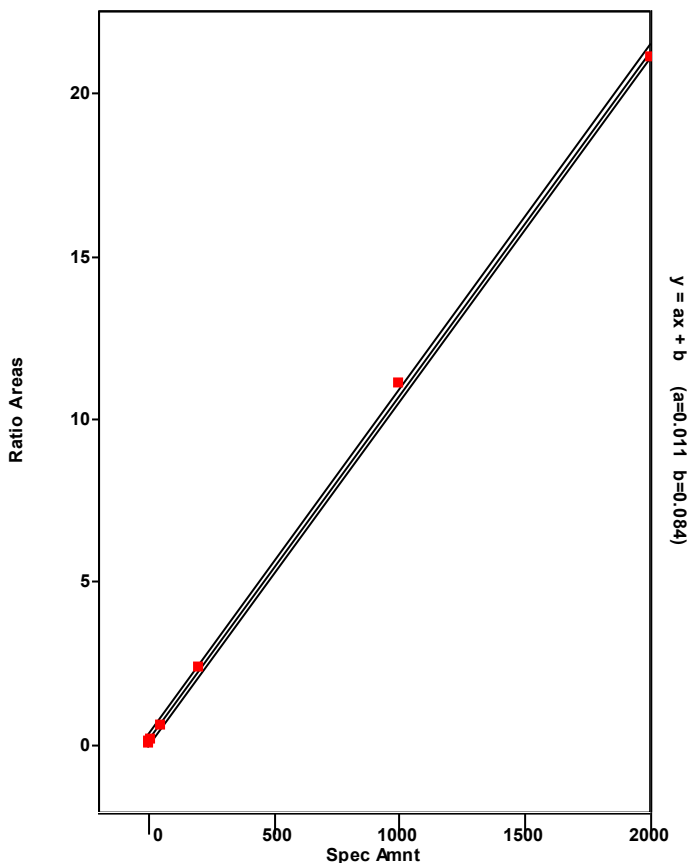


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	13078302
RM1 Area	16289768
RM1 Ratio (A)	1.2456
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

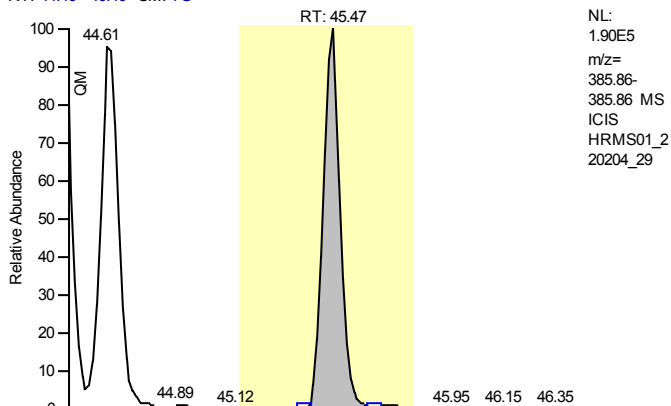
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

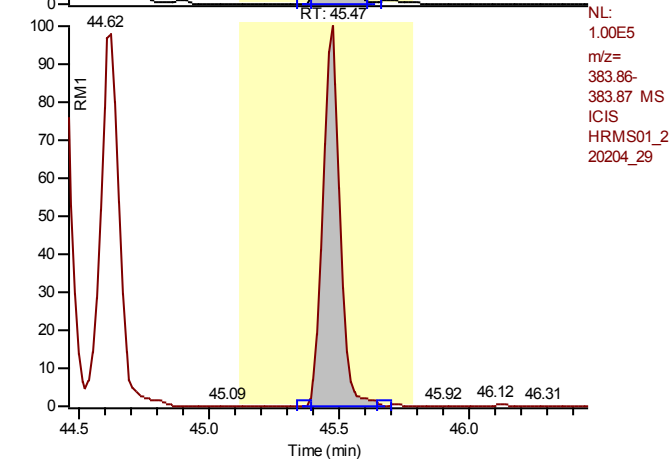
Entry Parameters

RT: 44.46 - 46.46 SM: 7G



NL:
 1.90E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	880005
RM1 Area	462654
RM1 Ratio (A)	0.5257
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

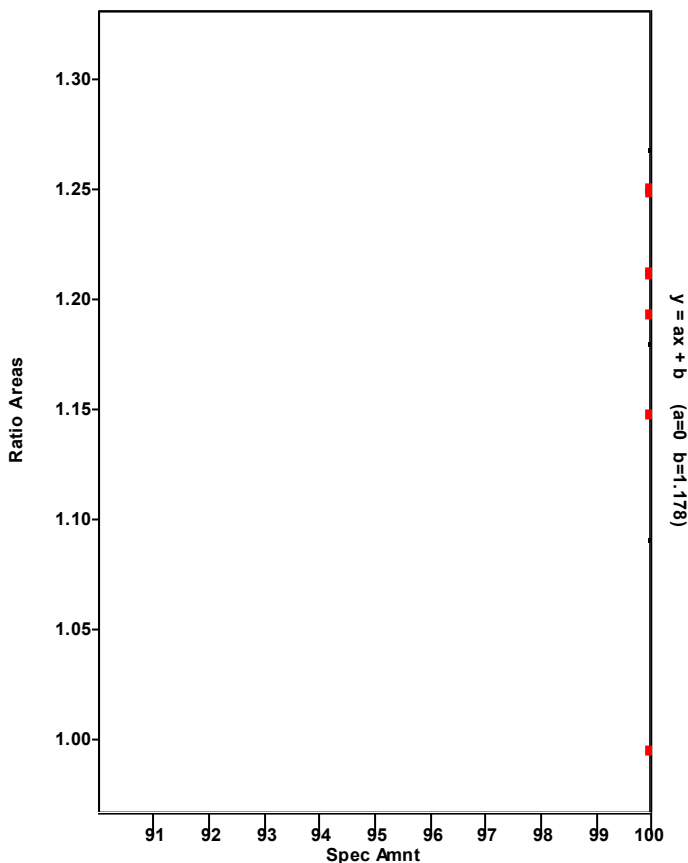


NL:
 1.00E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_29

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

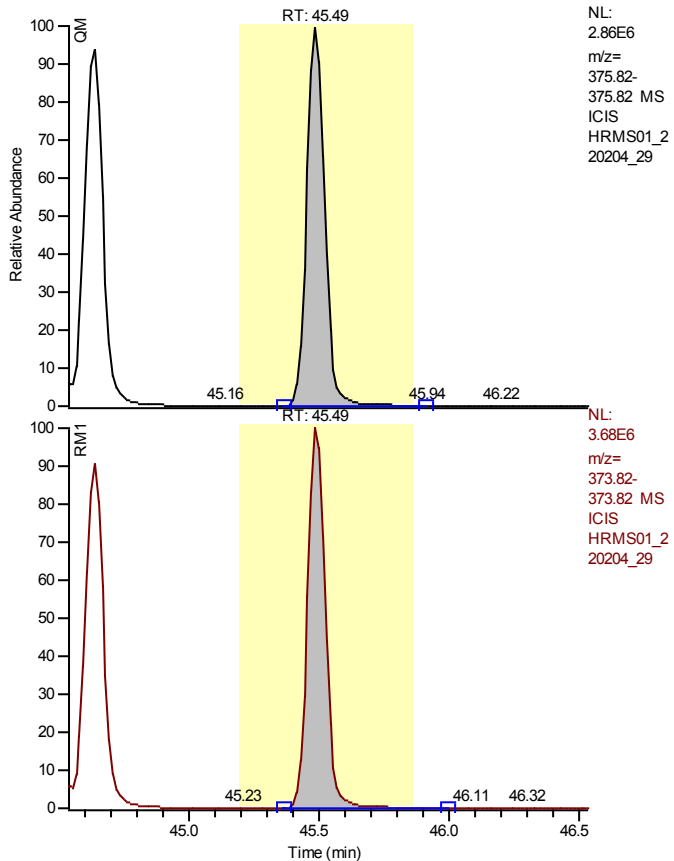
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.53 - 46.53 SM: 7G

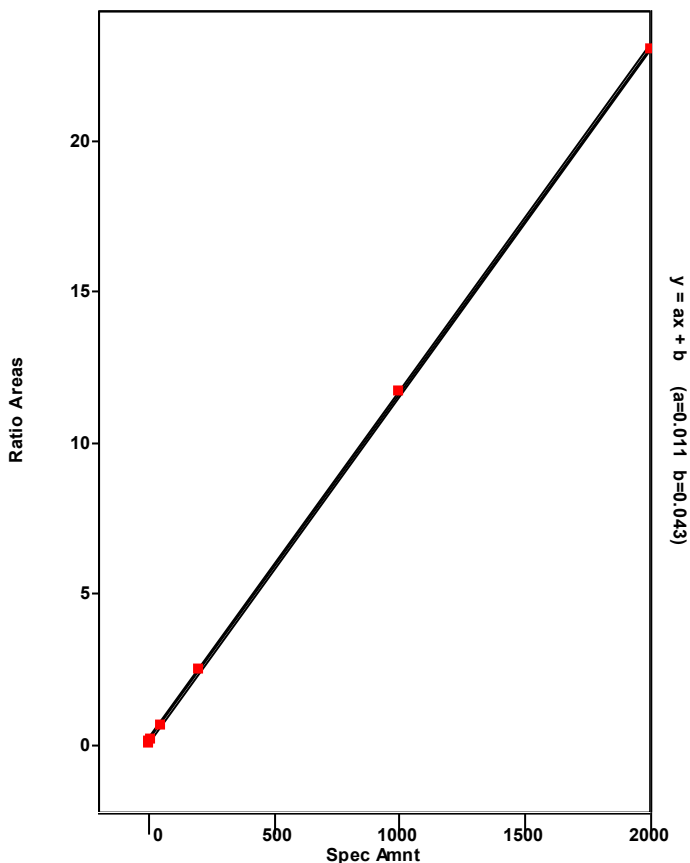


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	13514145
RM1 Area	17257794
RM1 Ratio (A)	1.2770
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

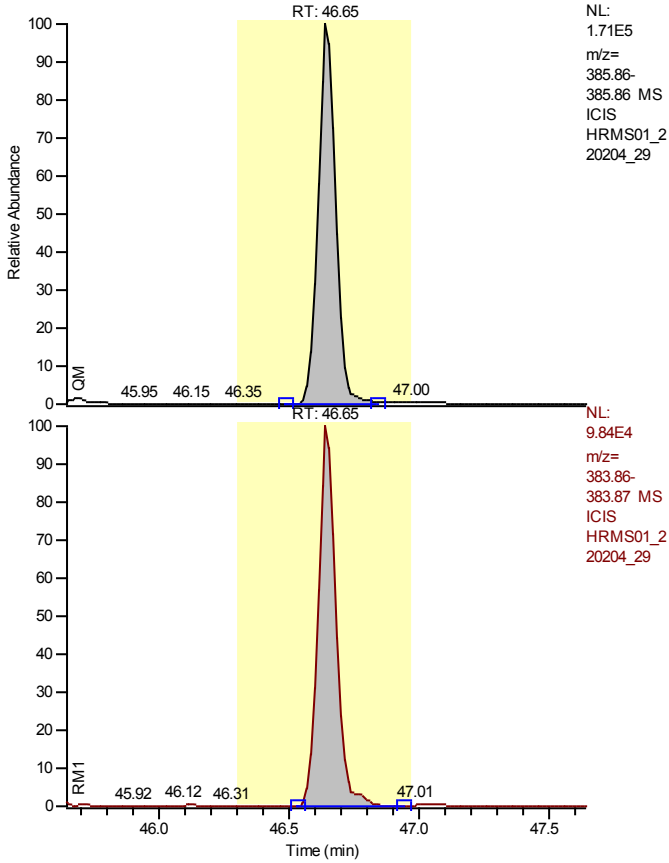
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G



NL:
1.71E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20204_29

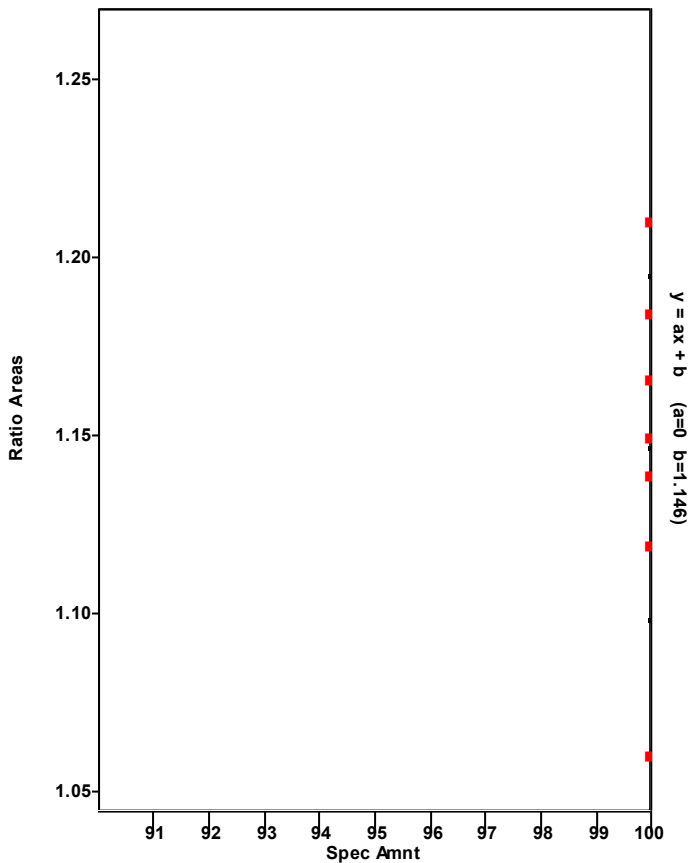
NL:
9.84E4
m/z=
383.86-
383.87 MS
ICIS
HRMS01_2
20204_29

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	809601
RM1 Area	472616
RM1 Ratio (A)	0.5838
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

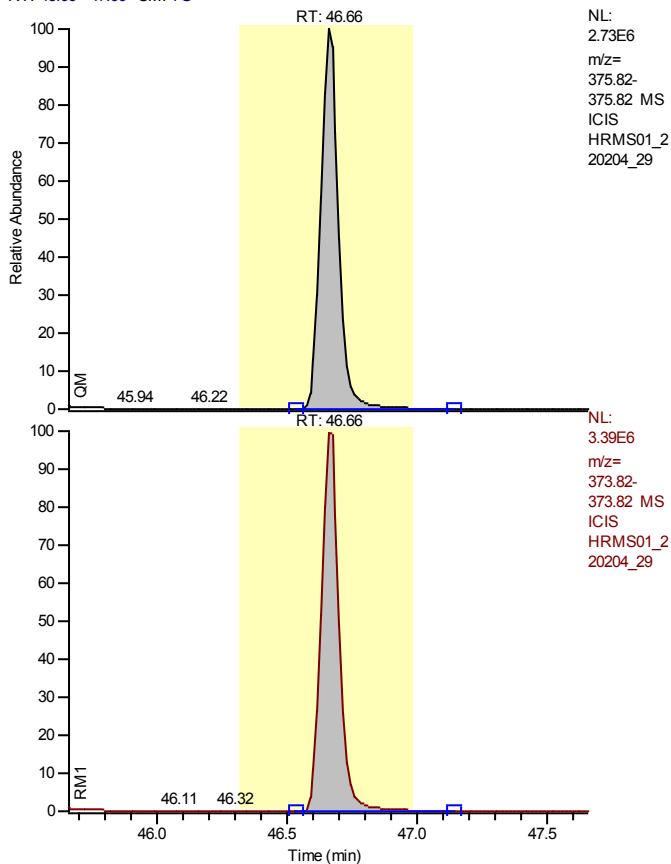
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



NL:
 2.73E6
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_29

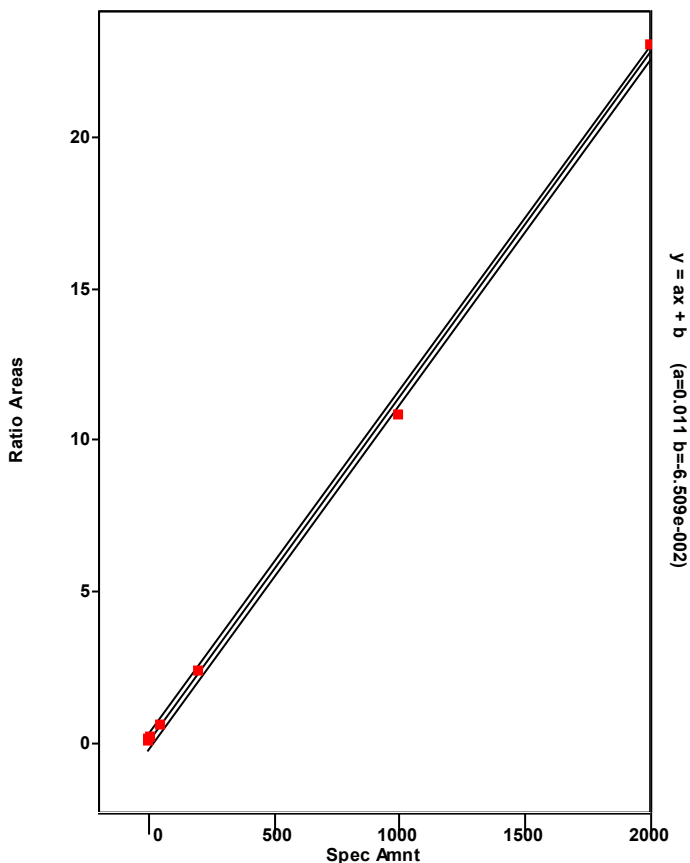
NL:
 3.39E6
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	13115019
RM1 Area	16356674
RM1 Ratio (A)	1.2472
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

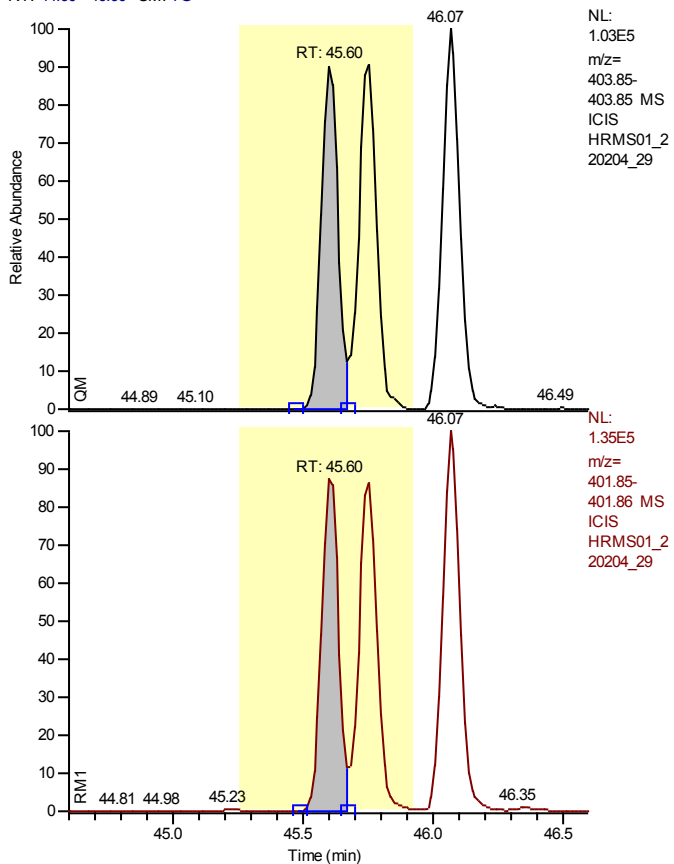
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.60 - 46.60 SM: 7G



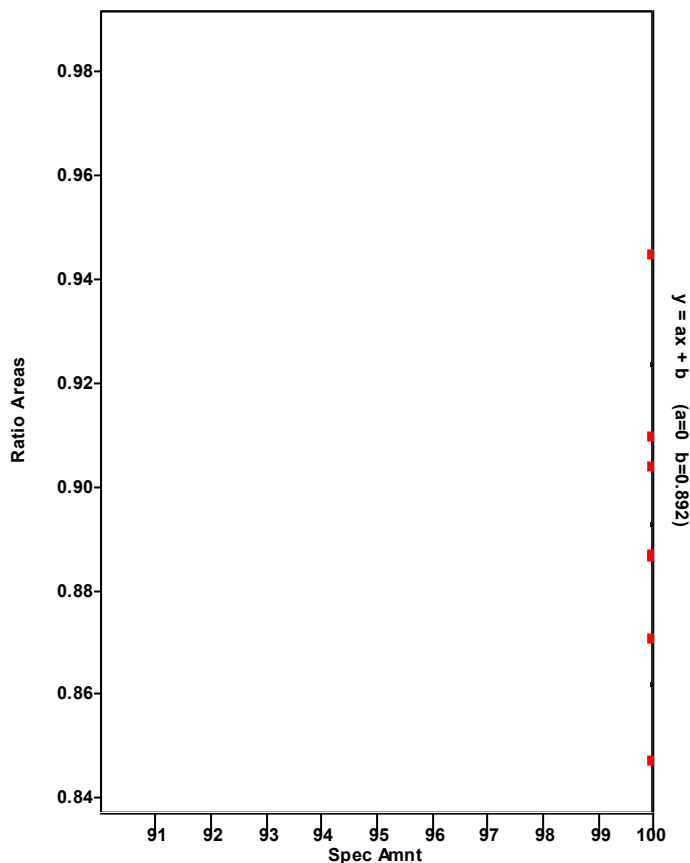
NL:
 1.03E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_29

NL:
 1.35E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	417844
RM1 Area	536417
RM1 Ratio (A)	1.2838
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

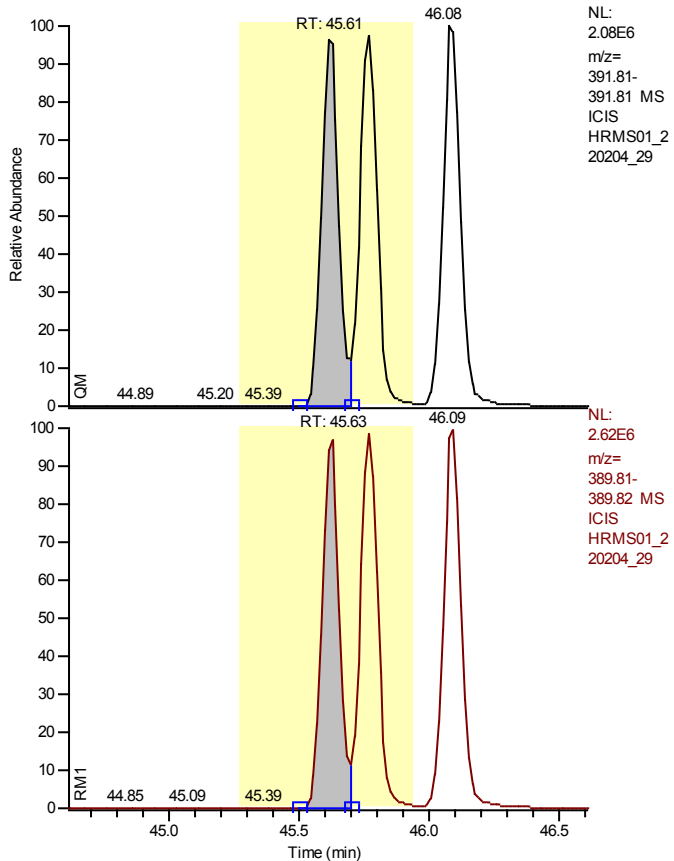
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G

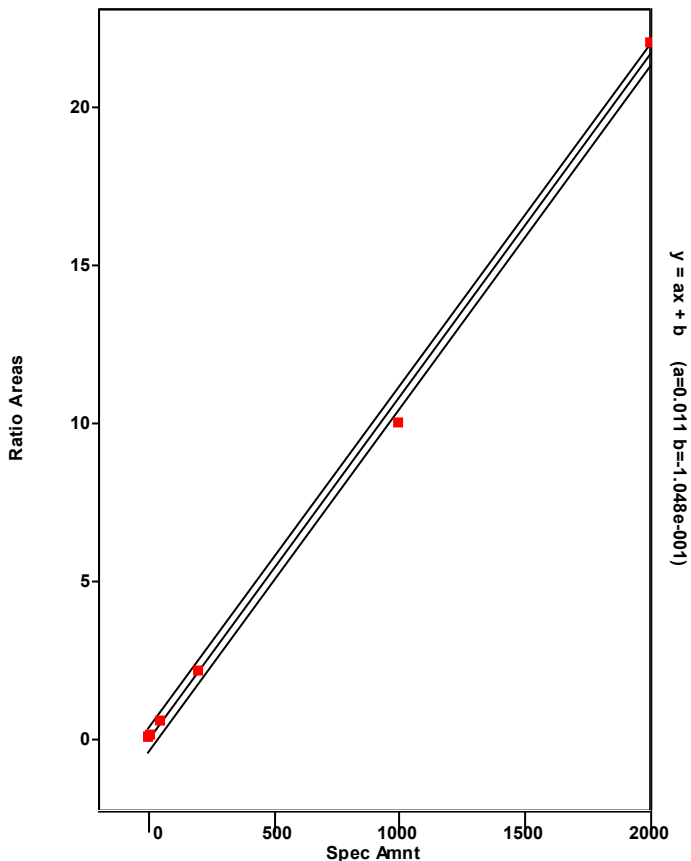


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	9303164
RM1 Area	11668820
RM1 Ratio (A)	1.2543
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

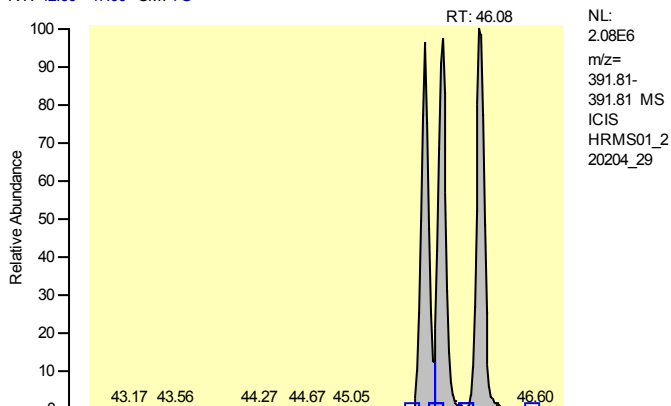
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



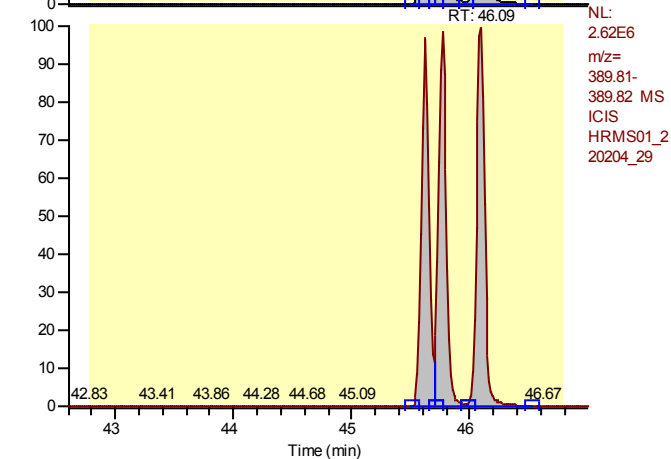
Chromatogram

Entry Parameters

RT: 42.60 - 47.00 SM: 7G



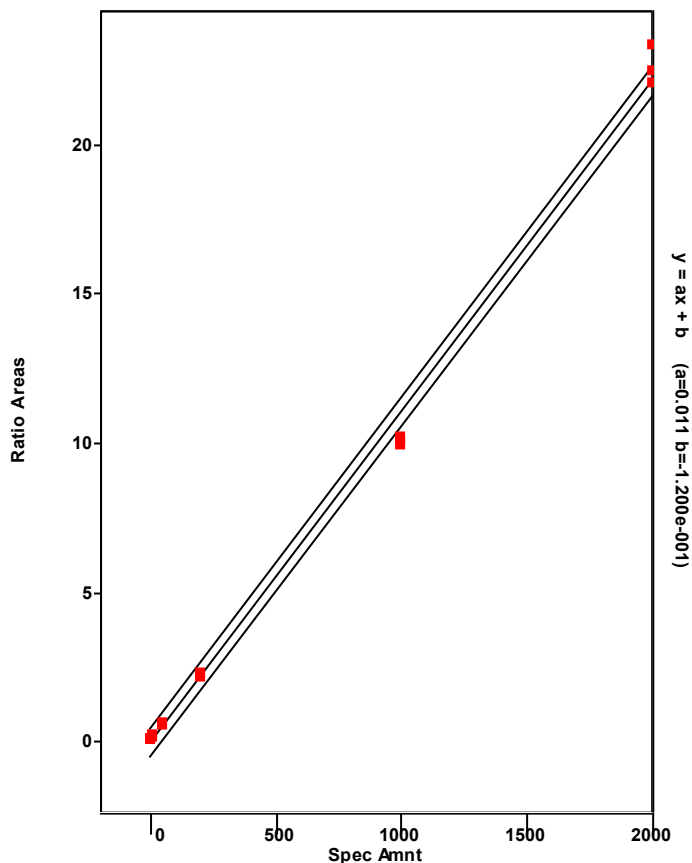
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	28618354
RM1 Area	36000824
RM1 Ratio (A)	1.2580
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	6000.00
Percent Recovery (A)	300
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

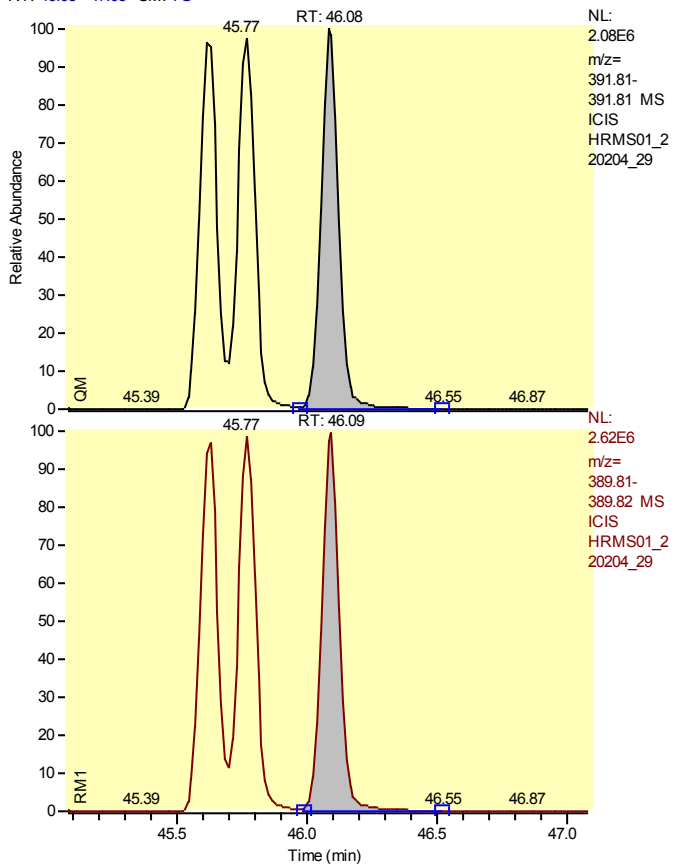
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.08 - 47.08 SM: 7G

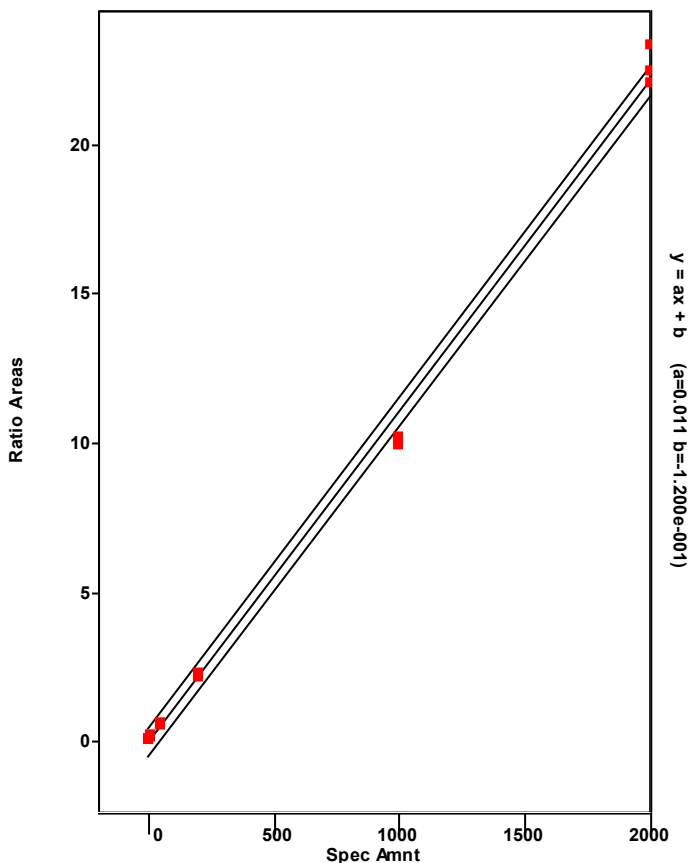


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	9894775
RM1 Area	12334484
RM1 Ratio (A)	1.2466
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

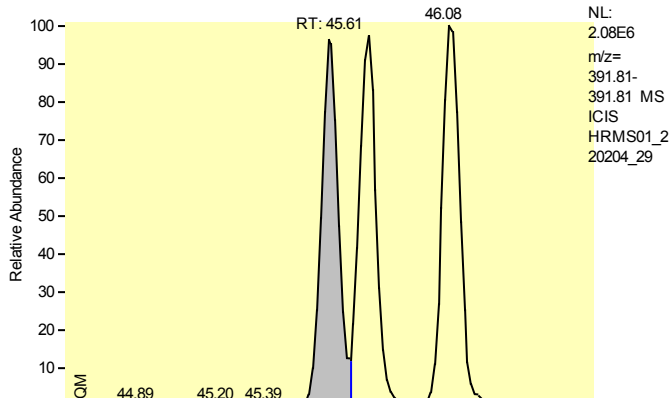
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



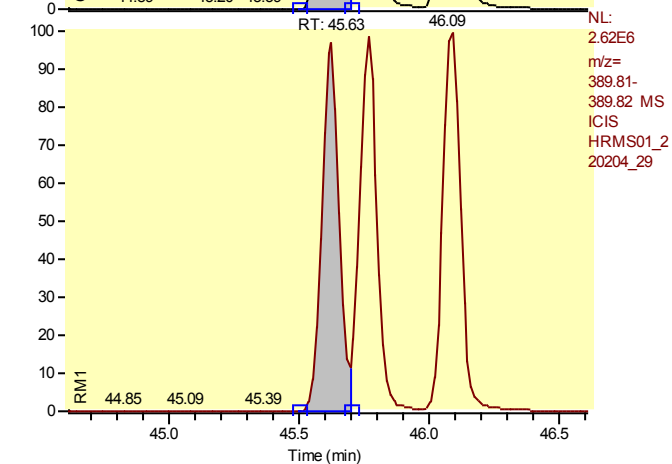
Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G



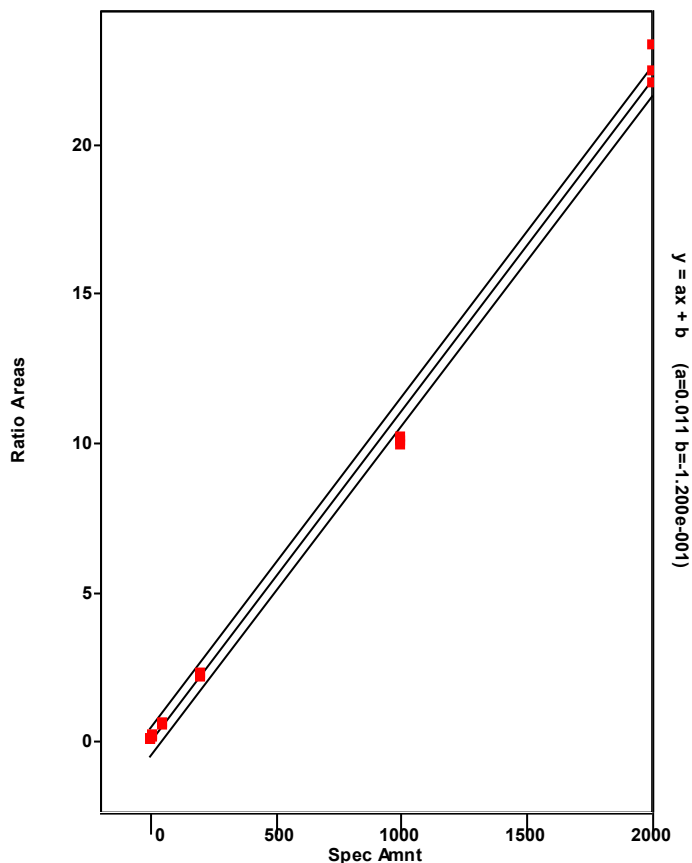
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	9303164
RM1 Area	11668820
RM1 Ratio (A)	1.2543
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

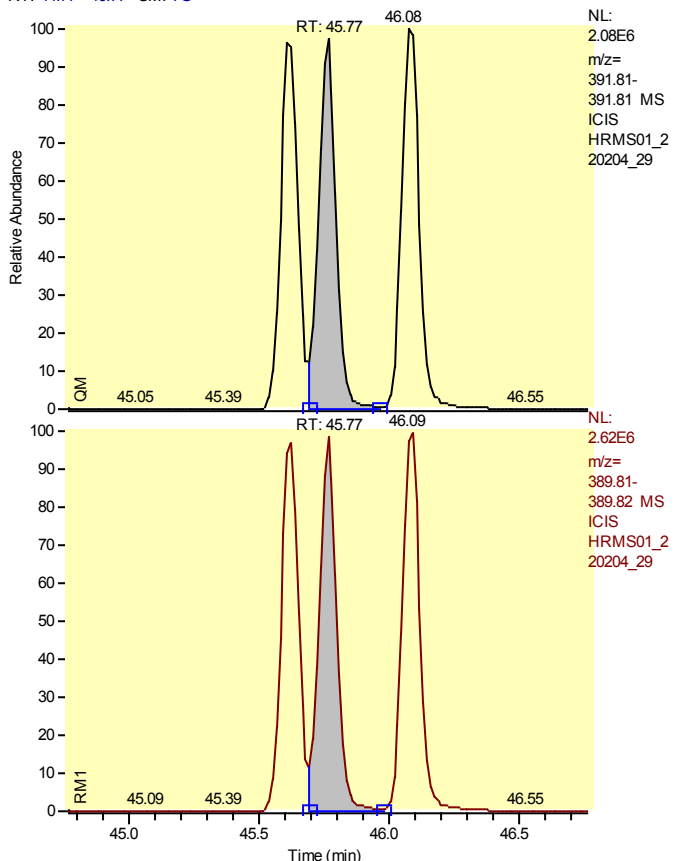
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.77 - 46.77 SM: 7G

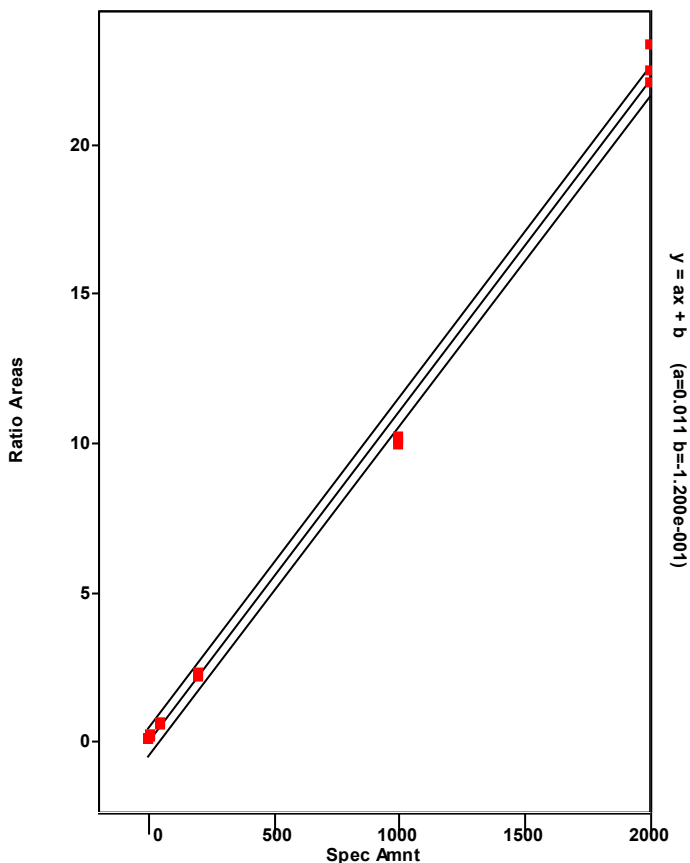


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	9420416
RM1 Area	11997520
RM1 Ratio (A)	1.2736
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

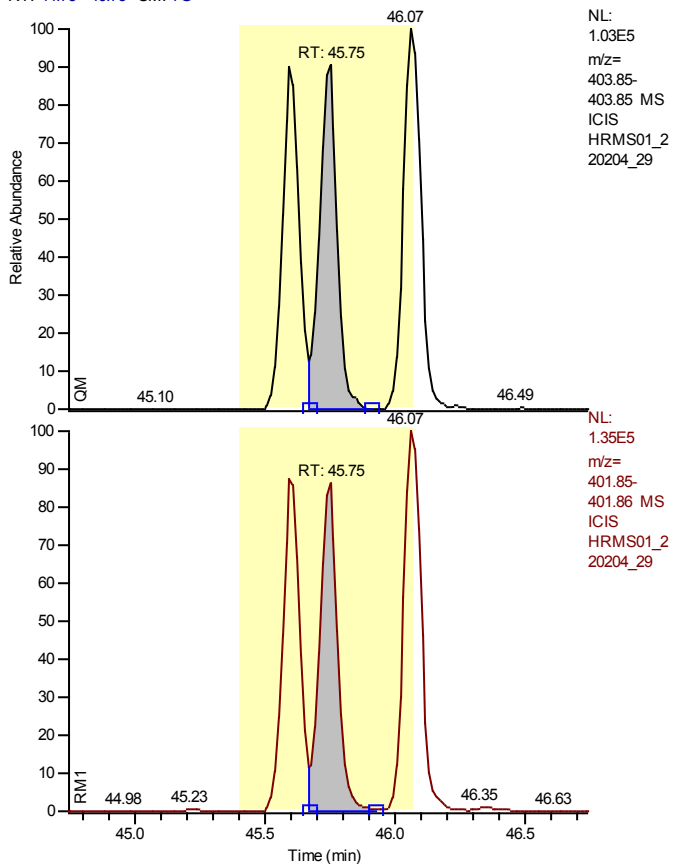
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G



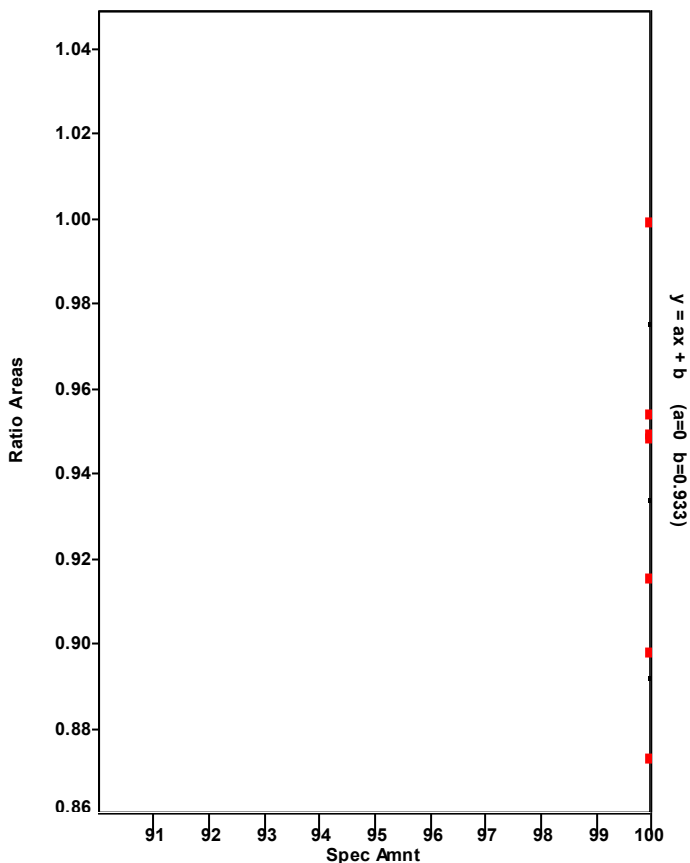
NL:
 1.03E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_29

NL:
 1.35E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	446739
RM1 Area	564931
RM1 Ratio (A)	1.2646
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

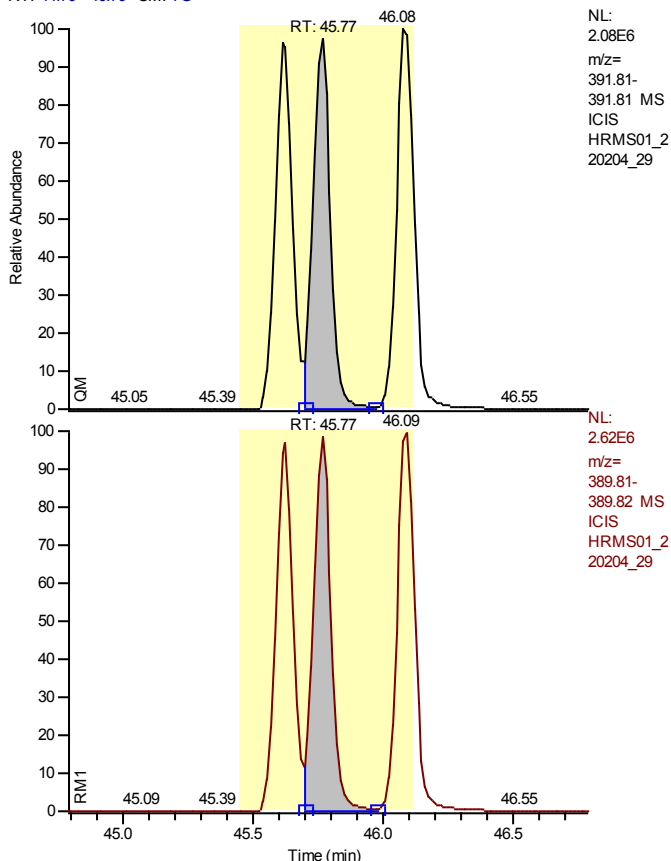
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.79 - 46.79 SM: 7G

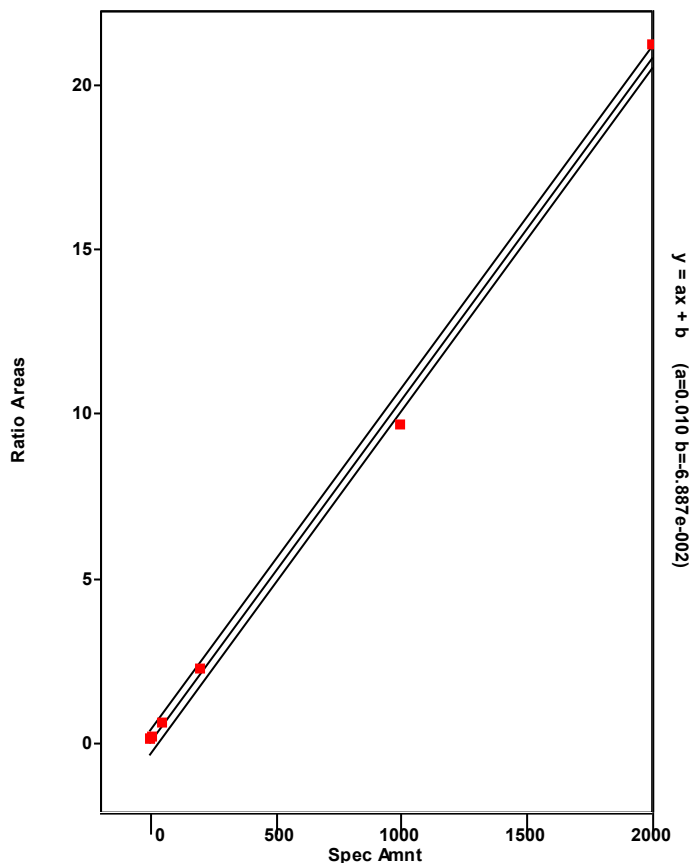


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	9420416
RM1 Area	11997520
RM1 Ratio (A)	1.2736
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

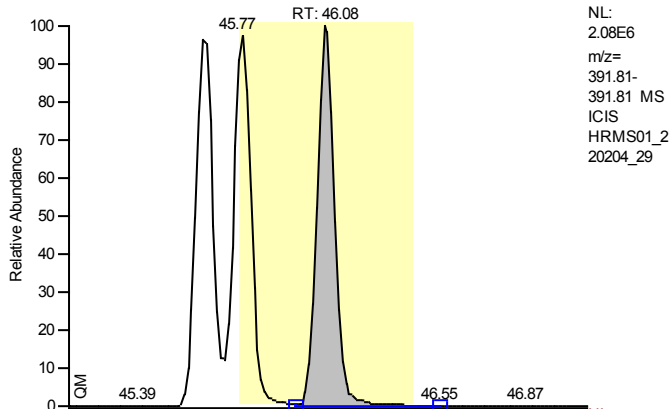
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

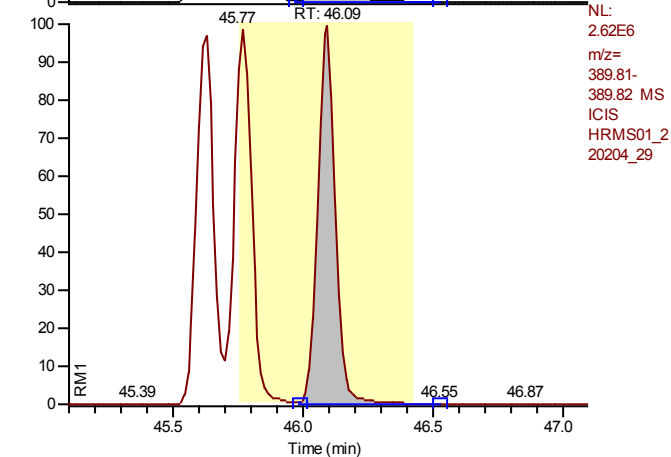
Entry Parameters

RT: 45.09 - 47.09 SM: 7G



NL:
2.08E6
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_29

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	9894775
RM1 Area	12334484
RM1 Ratio (A)	1.2466
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	200.0000
Label2	

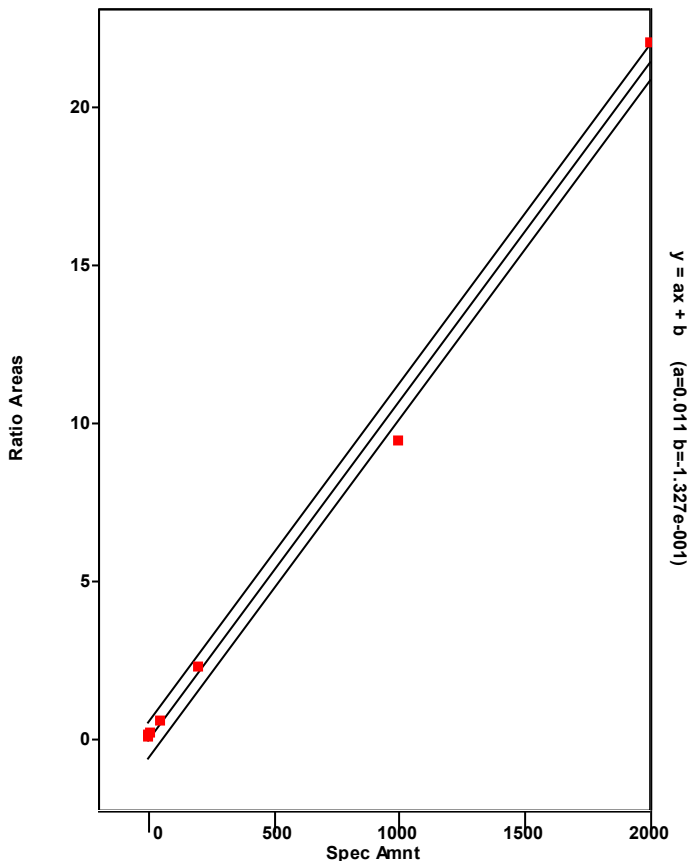


NL:
2.62E6
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_29

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

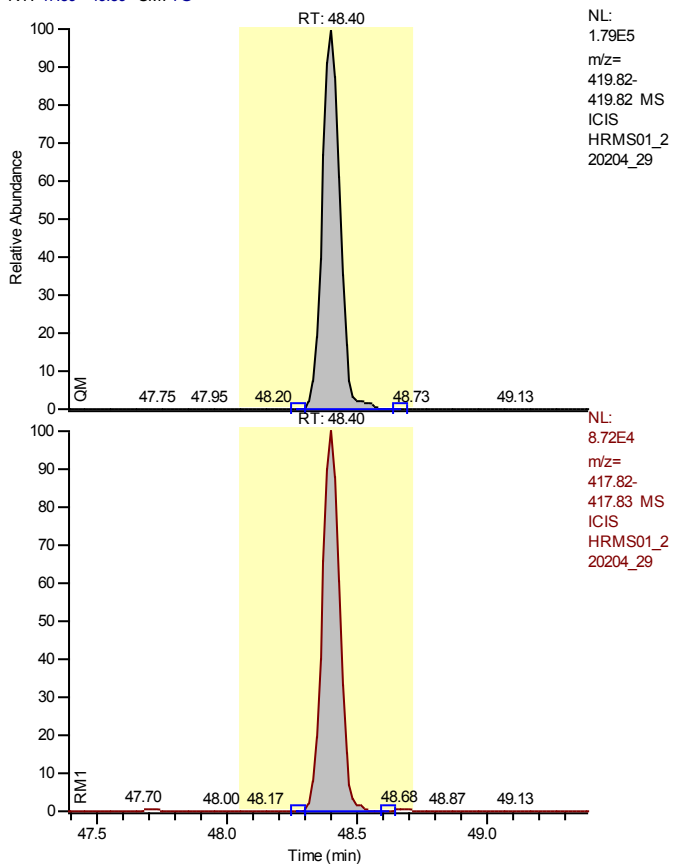
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

Entry Parameters

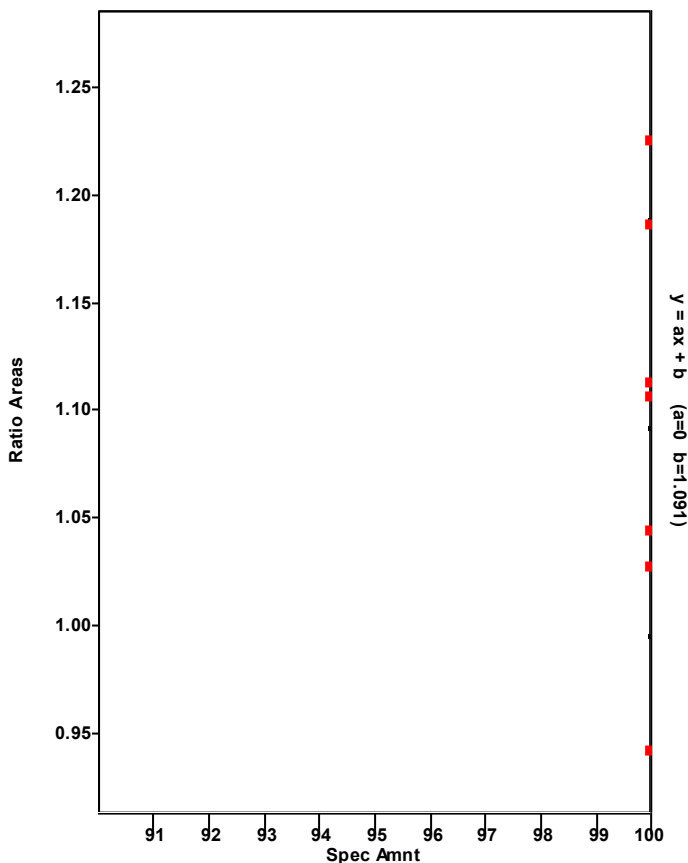
RT: 47.39 - 49.39 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	848016
RM1 Area	405043
RM1 Ratio (A)	0.4776
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

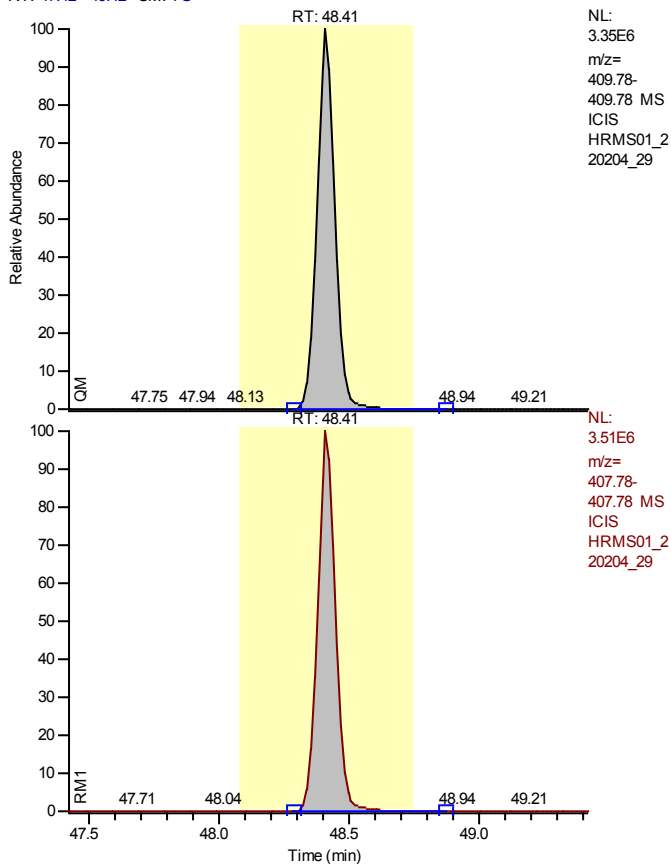
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.42 - 49.42 SM: 7G



NL:
3.35E6
m/z=
409.78-
409.78 MS
ICIS
HRMS01_2
20204_29

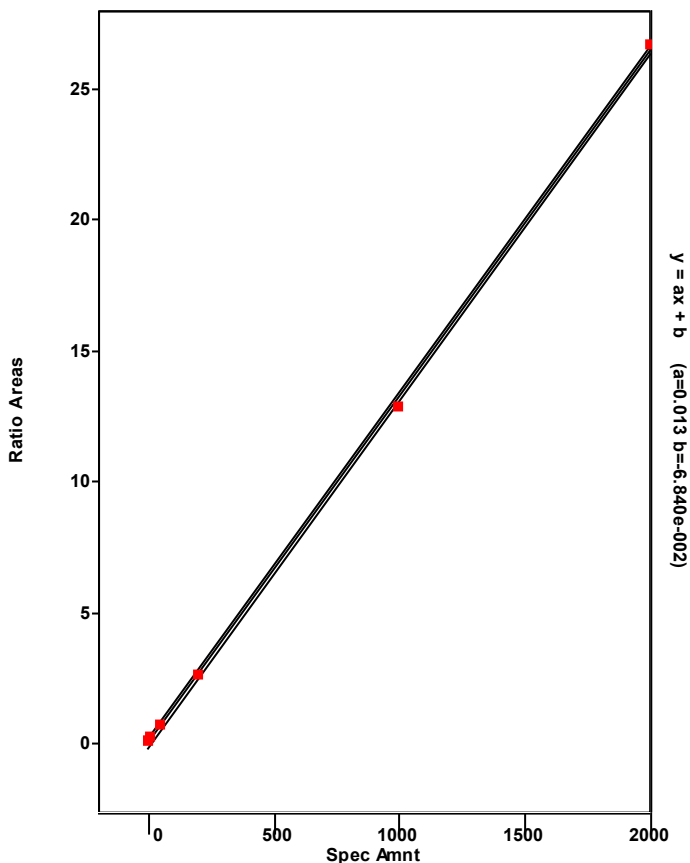
NL:
3.51E6
m/z=
407.78-
407.78 MS
ICIS
HRMS01_2
20204_29

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	16295061
RM1 Area	17047666
RM1 Ratio (A)	1.0462
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

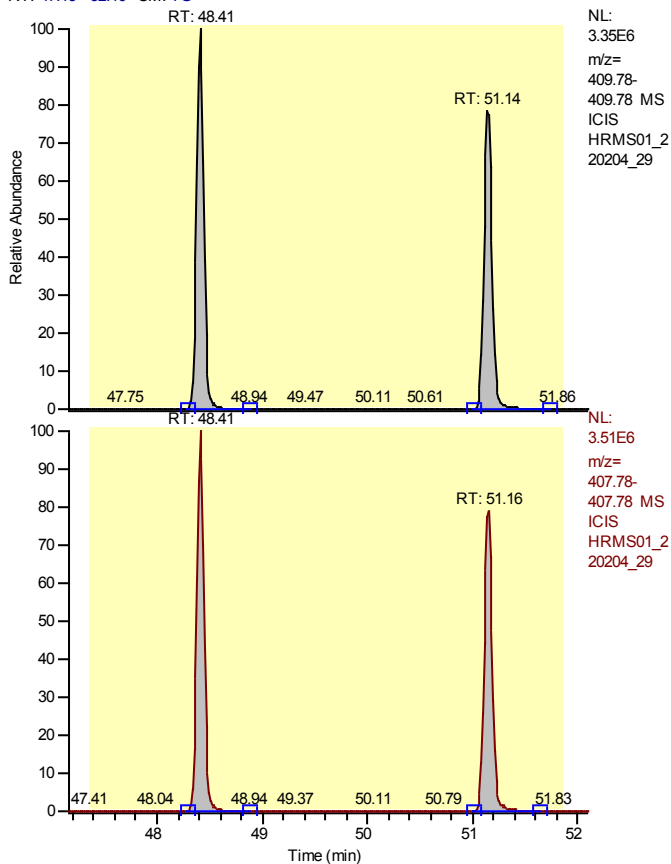
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

RT: 47.15 - 52.10 SM: 7G

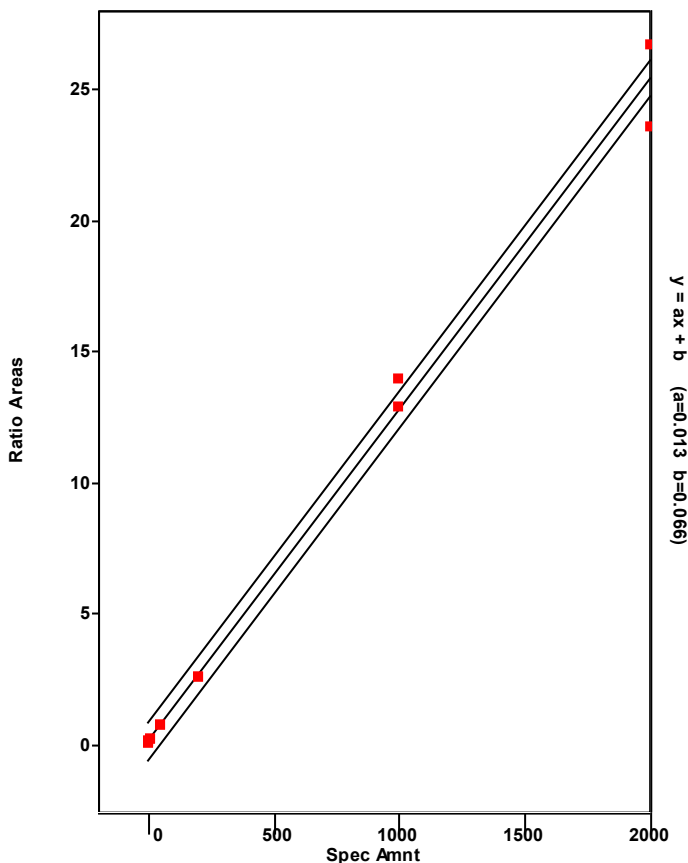


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	30690497
RM1 Area	32036081
RM1 Ratio (A)	1.0438
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

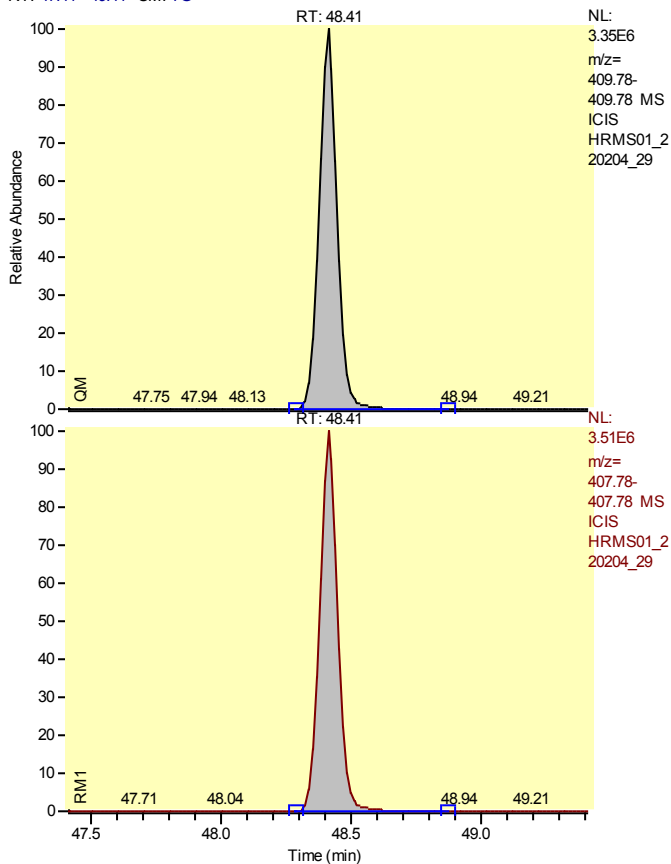
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

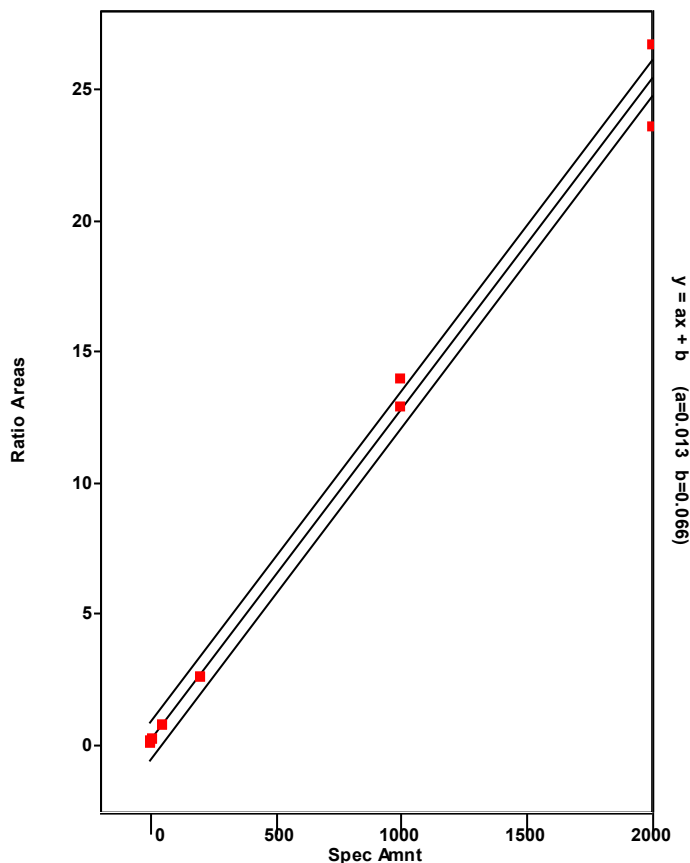


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	16295061
RM1 Area	17047666
RM1 Ratio (A)	1.0462
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

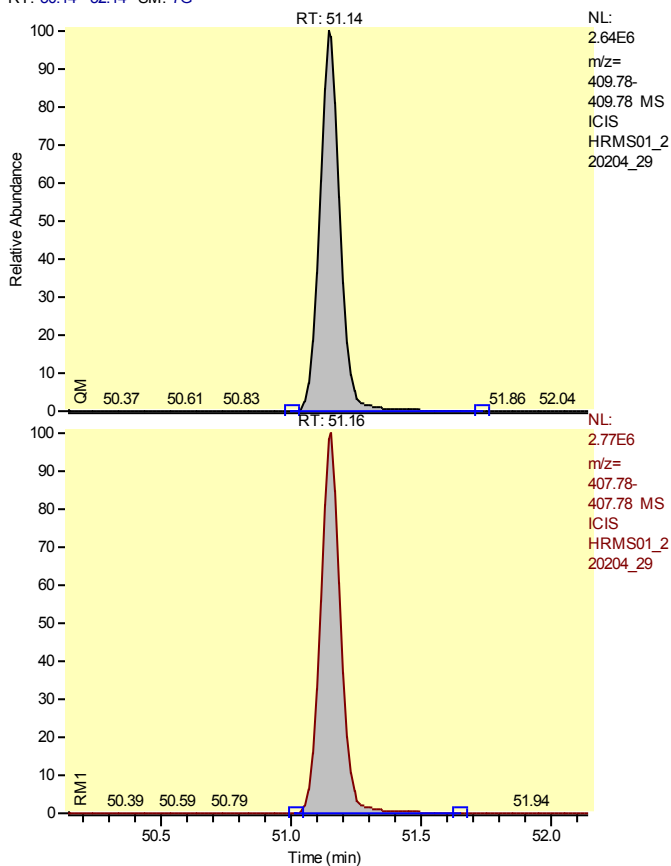
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

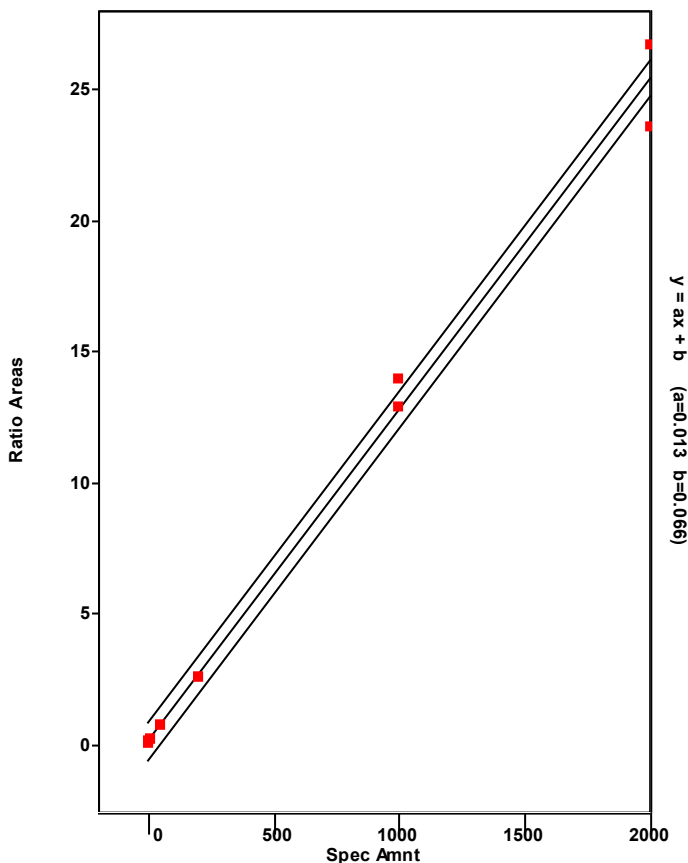


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	14395436
RM1 Area	14988415
RM1 Ratio (A)	1.0412
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

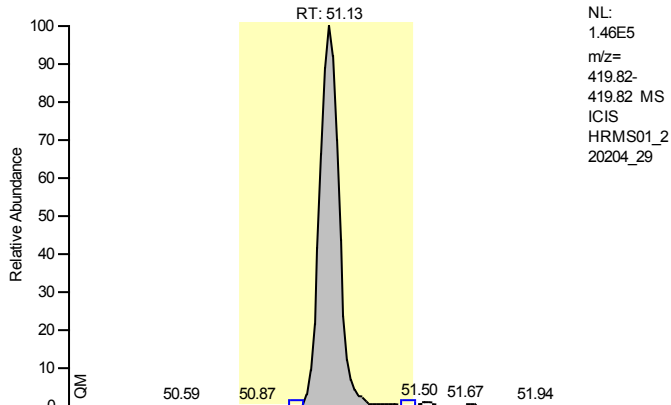
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



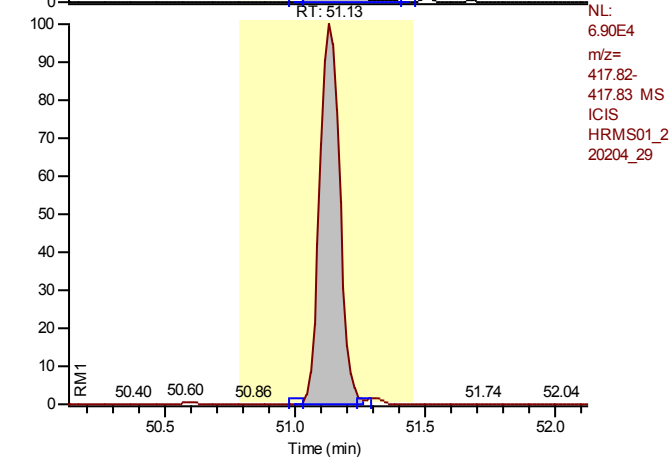
Chromatogram

Entry Parameters

RT: 50.13 - 52.13 SM: 7G

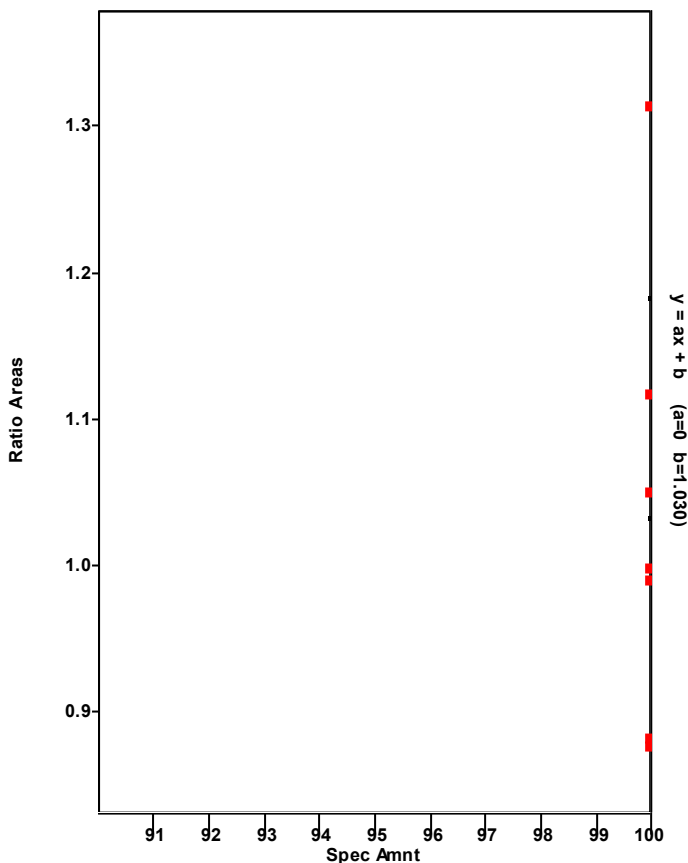


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	754567
RM1 Area	367616
RM1 Ratio (A)	0.4872
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

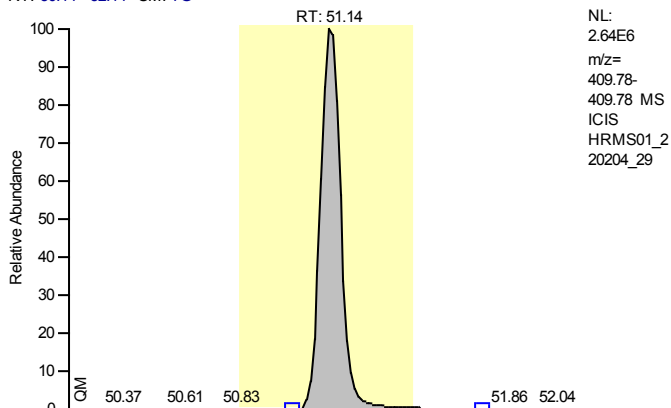
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



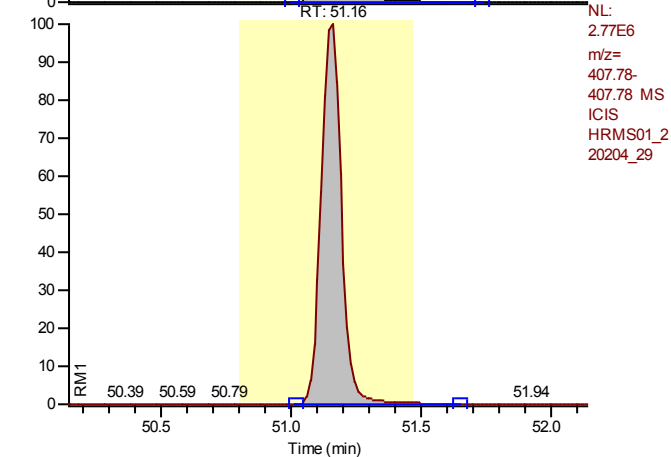
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G



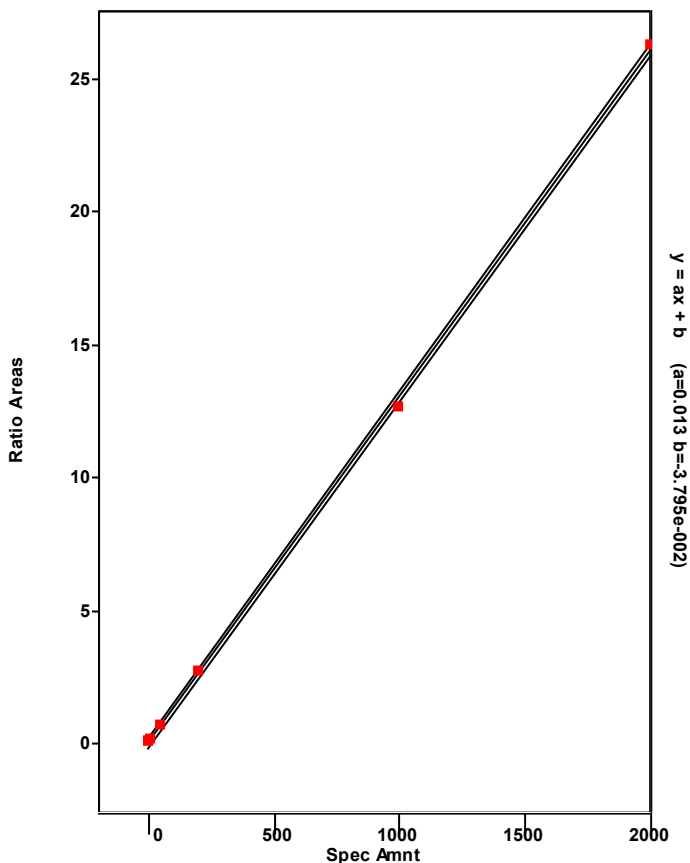
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	14395436
RM1 Area	14988415
RM1 Ratio (A)	1.0412
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

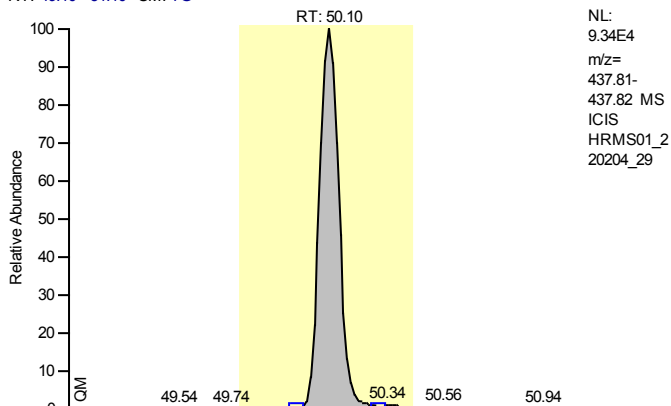
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



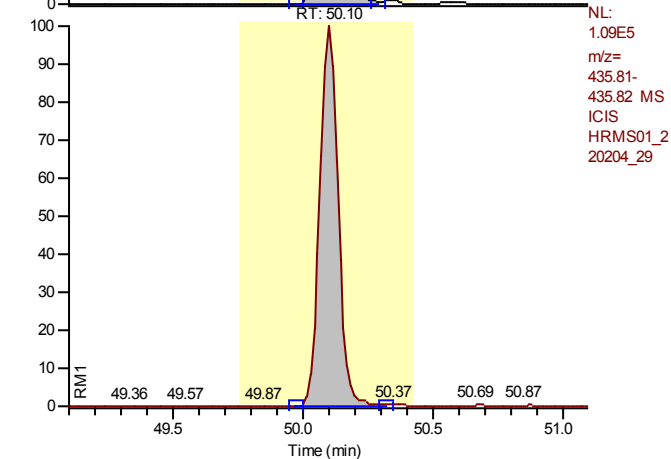
Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

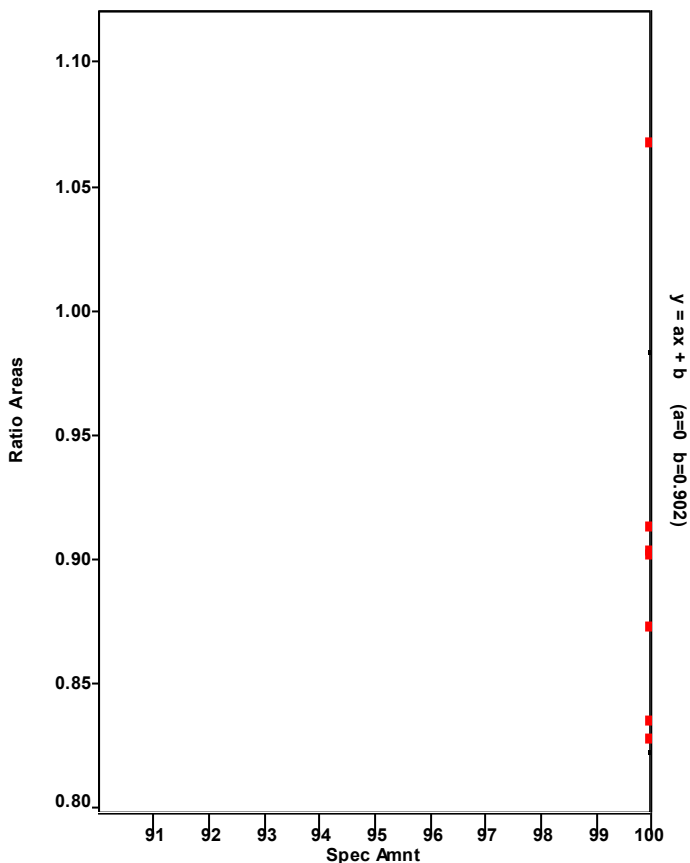


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	485841
RM1 Area	530726
RM1 Ratio (A)	1.0924
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

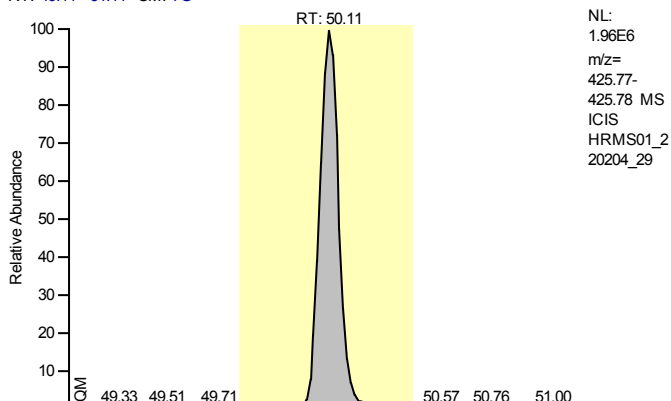
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



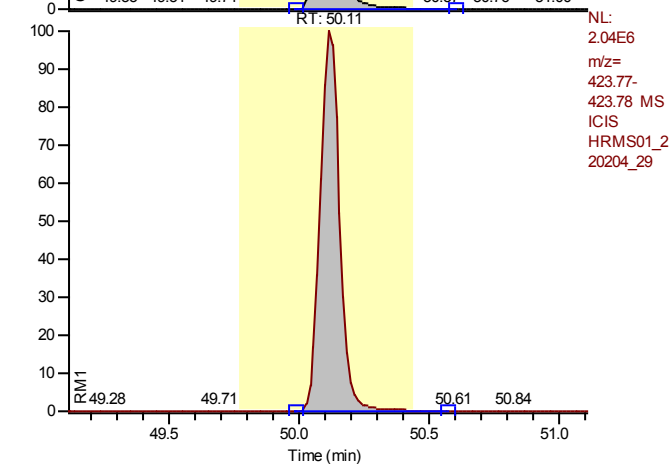
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G



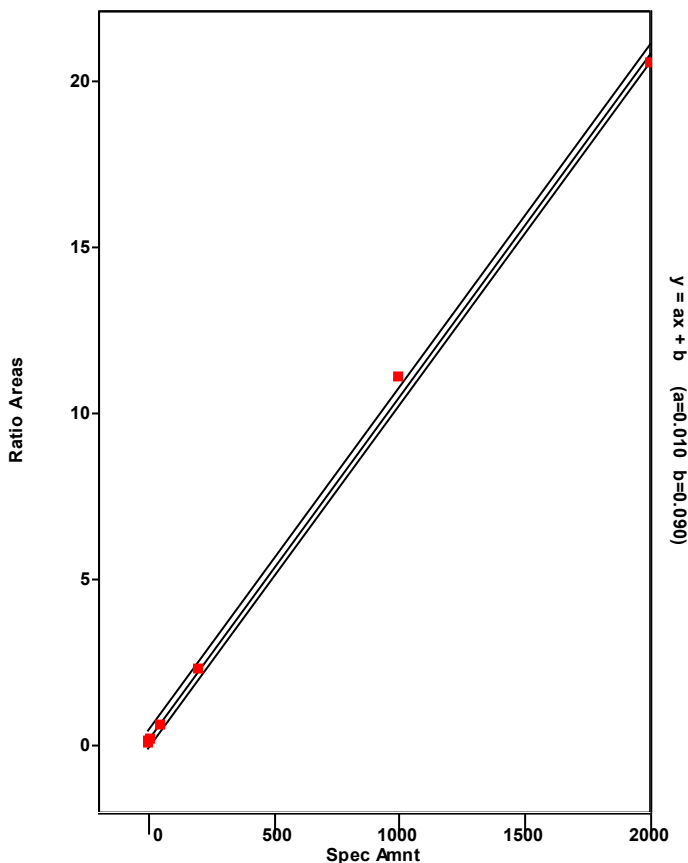
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	10129933
RM1 Area	10660233
RM1 Ratio (A)	1.0523
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	20.0000
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

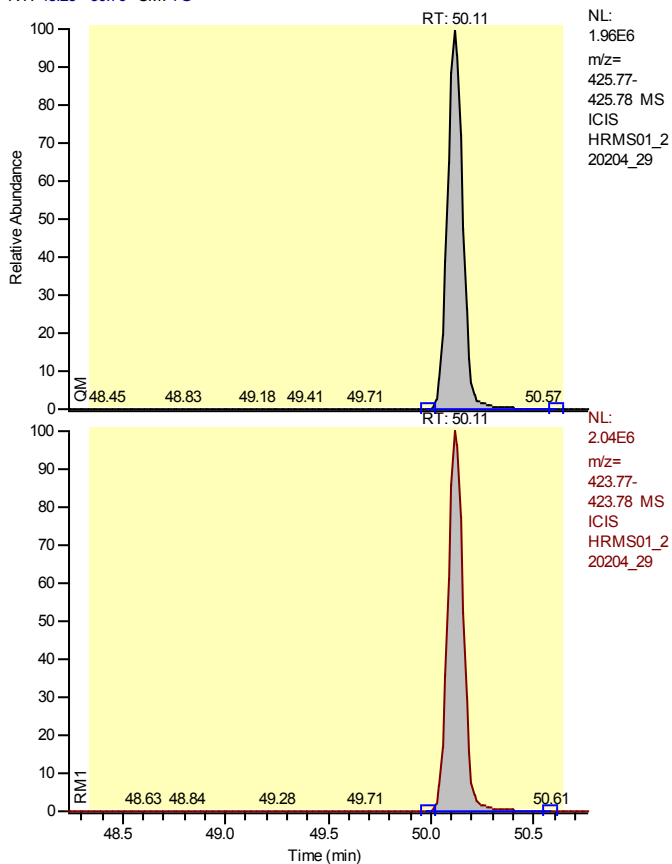
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.23 - 50.76 SM: 7G

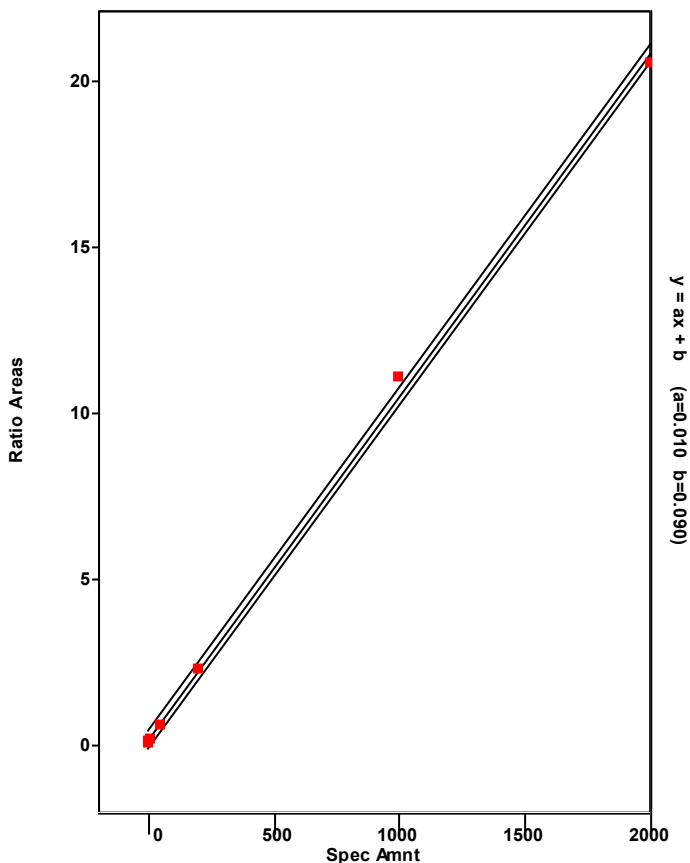


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	10129933
RM1 Area	10660233
RM1 Ratio (A)	1.0523
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

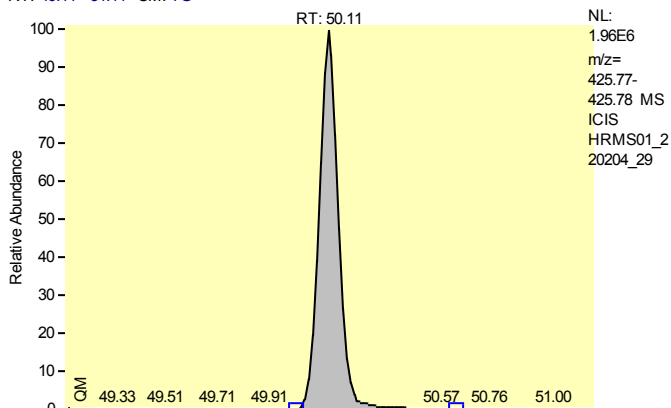
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



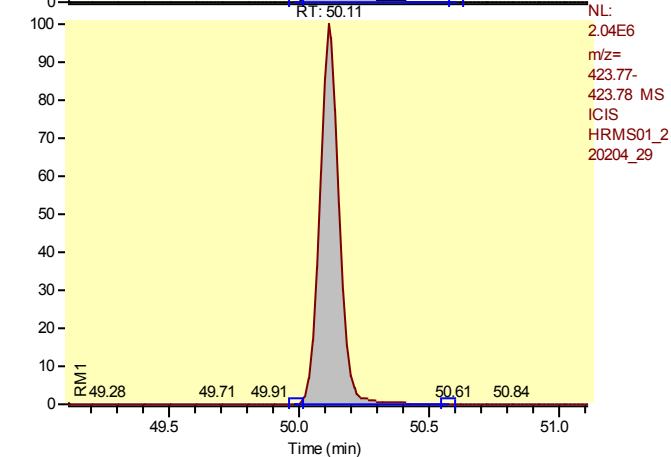
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G



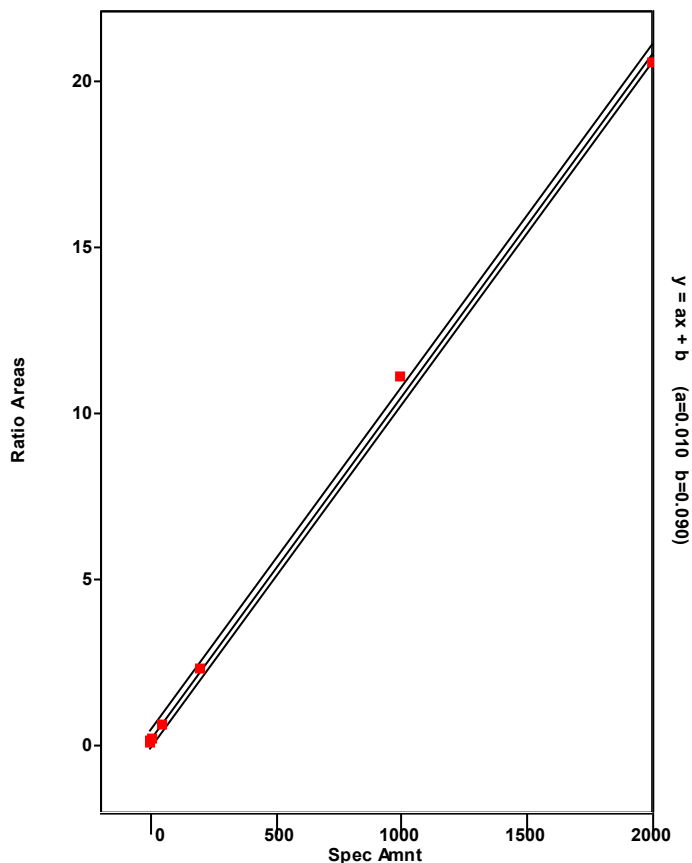
Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	10129933
RM1 Area	10660233
RM1 Ratio (A)	1.0523
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	2000.00
Calculated Amount (A)	2000.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

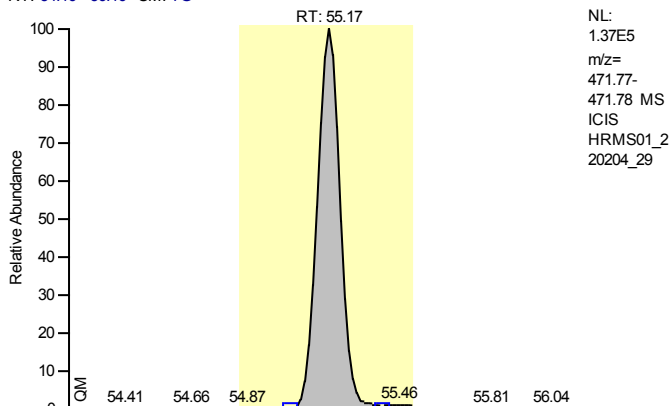
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



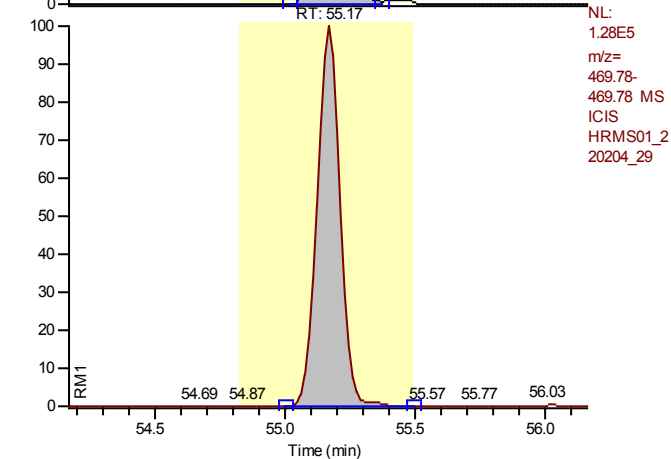
Chromatogram

Entry Parameters

RT: 54.16 - 56.16 SM: 7G



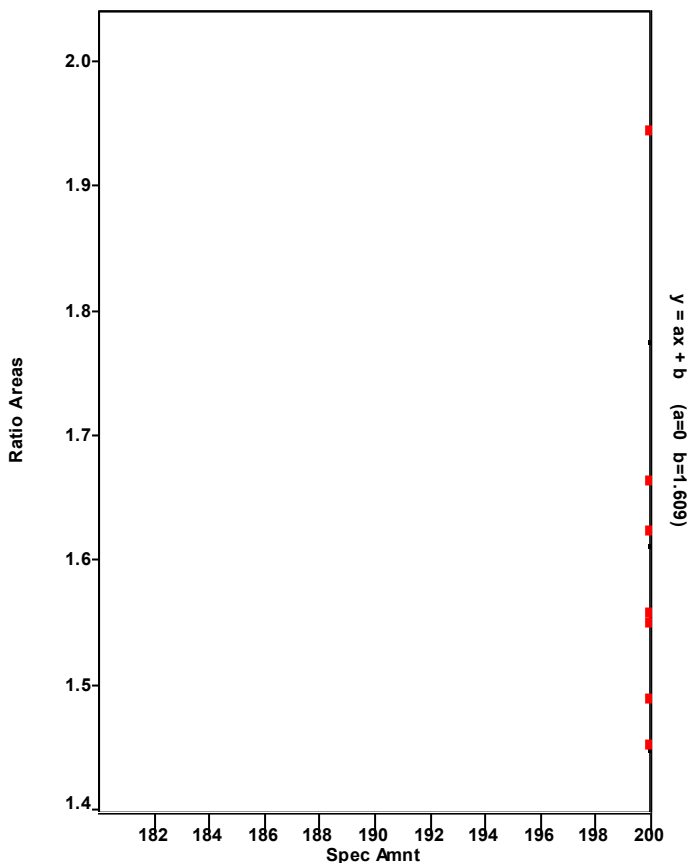
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	846831
RM1 Area	787724
RM1 Ratio (A)	0.9302
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	200.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

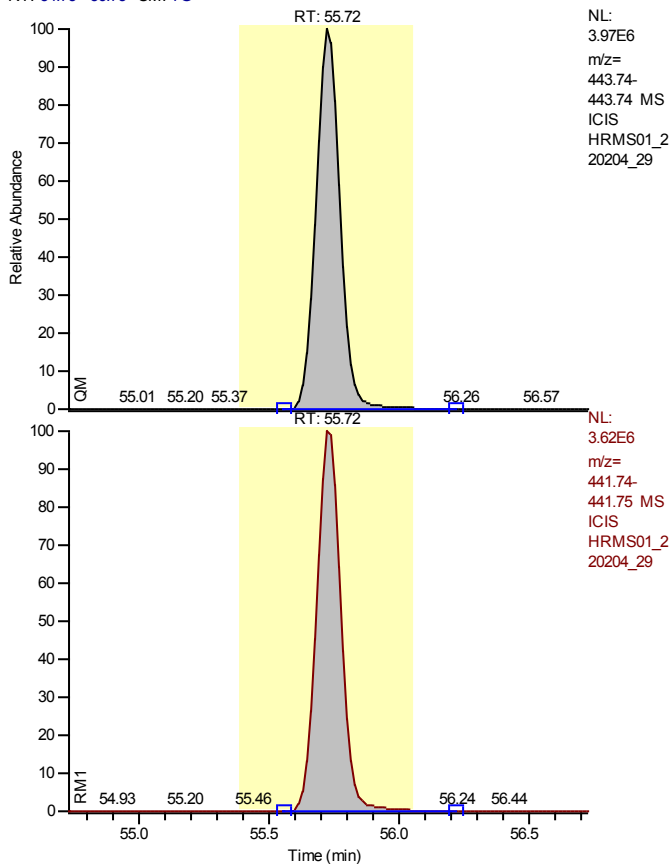
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.73 - 56.73 SM: 7G



NL:
 3.97E6
 m/z=
 443.74-
 443.74 MS
 ICIS
 HRMS01_2
 20204_29

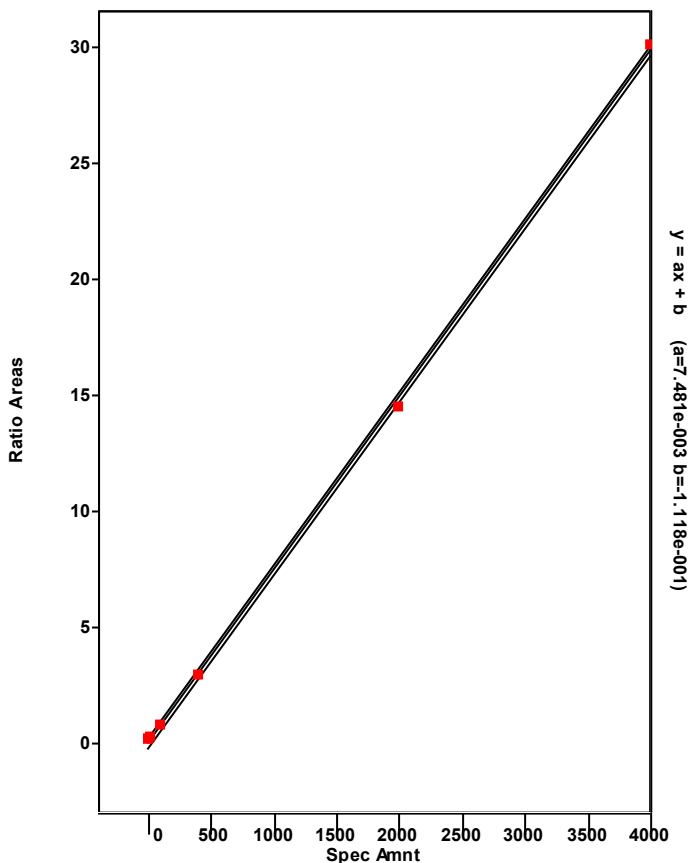
NL:
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 441.74-
 441.75 MS
 ICIS
 HRMS01_2
 20204_29

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	25548107
RM1 Area	23564507
RM1 Ratio (A)	0.9224
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	4000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	100
TEQ (A)	1.2000
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

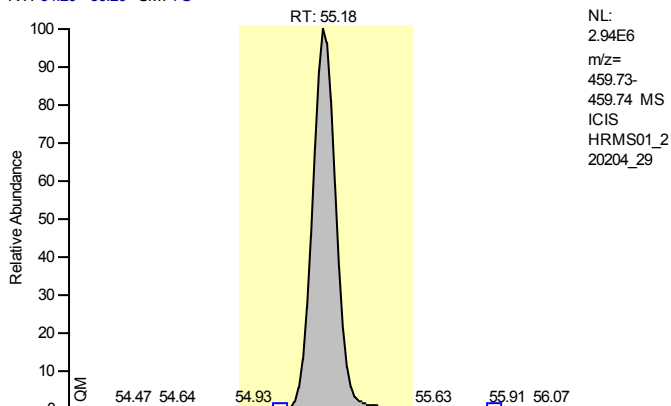
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



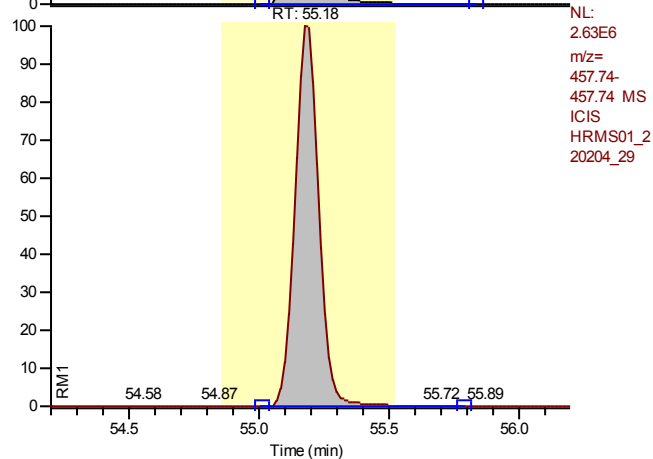
Chromatogram

Entry Parameters

RT: 54.20 - 56.20 SM: 7G



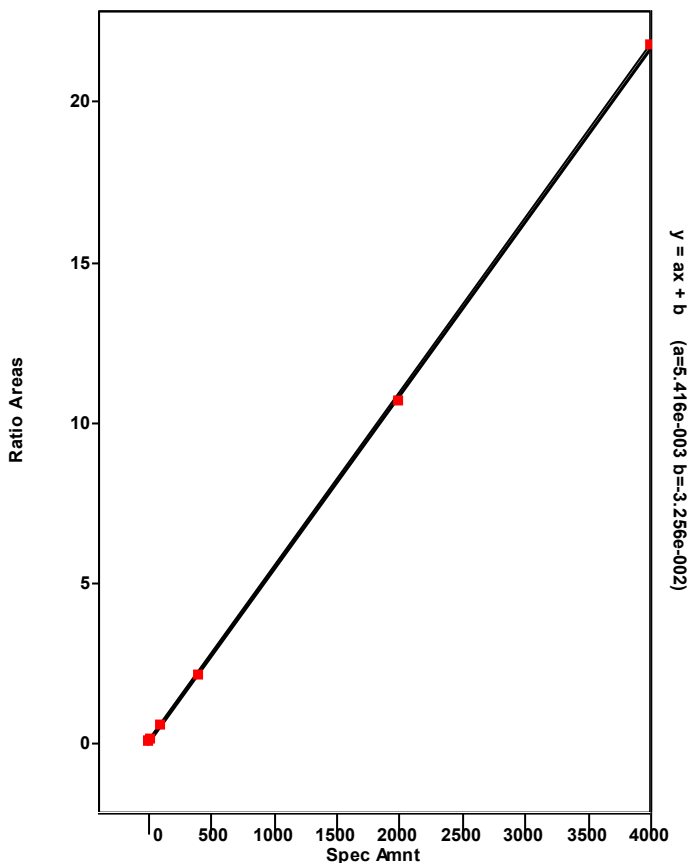
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	18655811
RM1 Area	16830917
RM1 Ratio (A)	0.9022
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	4000.00
Calculated Amount (A)	4000.00
Percent Recovery (A)	100
TEQ (A)	1.2000
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

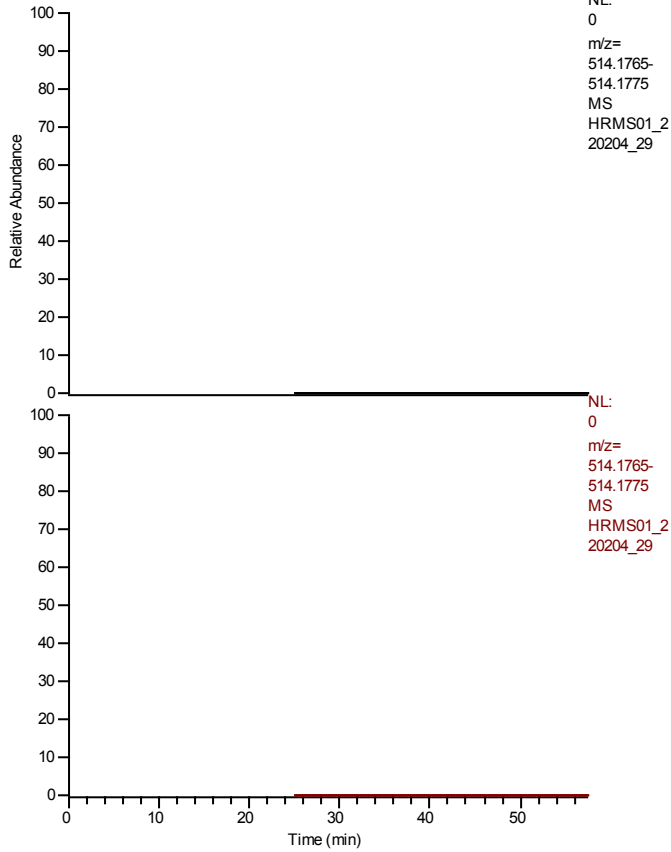
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

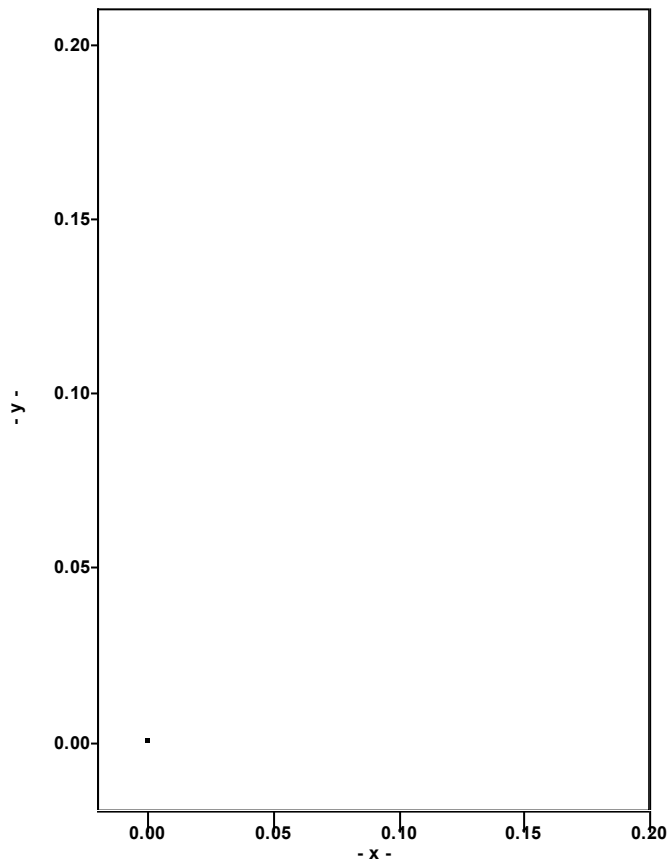
RT: 0.00 - 57.49 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	203074667
RM1 Area	237374075
RM1 Ratio (A)	1.1689
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	34800.00
Percent Recovery (A)	---
TEQ (A)	4562.4000
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/05 12:56
Number of Entries	59
Comment	HRMS191114F
Vial	15
Sample Name	CA1613STD-10
Sample ID	HRMS01B,PB,WG1601676,,,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220204_34_seq
Data	hrms01_220204_34
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

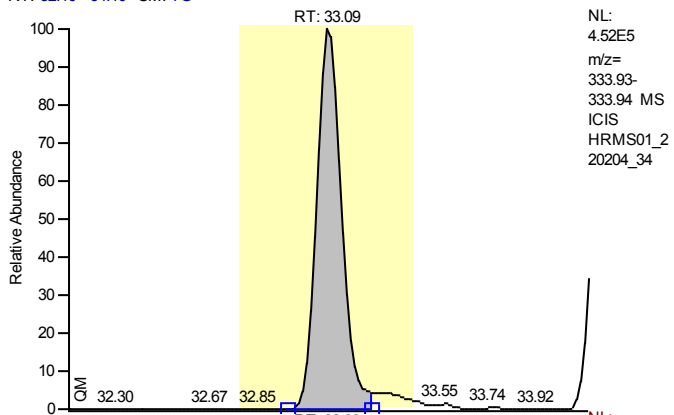
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2988164	2419037	0.8095	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		4923751	3871019	0.7862	0.6500 - 0.8900	100.00	100.11	100	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	509846	398414	0.7814	0.6500 - 0.8900	10.00	11.11	111	1.1112
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	509846	398414	0.7814	0.6500 - 0.8900	10.00	11.11	111	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	509846	398414	0.7814	0.6500 - 0.8900	10.00	11.11	111	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		3316078	2557649	0.7713	0.6500 - 0.8900	100.00	93.37	93	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	400841	313221	0.7814	0.6500 - 0.8900	10.00	11.49	115	11.4867
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	400841	313221	0.7814	0.6500 - 0.8900	10.00	11.49	115	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	400841	313221	0.7814	0.6500 - 0.8900	10.00	11.49	115	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		3042110	4693788	1.5429	1.3200 - 1.7800	100.00	98.65	99	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	1686754	2647664	1.5697	1.3200 - 1.7800	50.00	56.60	113	1.6979
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	3405791	5349054	1.5706	1.3200 - 1.7800	50.00	112.54	225	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	1719037	2701391	1.5715	1.3200 - 1.7800	50.00	56.82	114	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	1686754	2647664	1.5697	1.3200 - 1.7800	50.00	55.72	111	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		3038424	4772795	1.5708	1.3200 - 1.7800	100.00	105.86	106	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	1719037	2701391	1.5715	1.3200 - 1.7800	50.00	52.18	104	15.6525
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		2073028	3103461	1.4971	1.3200 - 1.7800	100.00	105.07	105	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	1123145	1759377	1.5665	1.3200 - 1.7800	50.00	55.51	111	55.5150
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	1123145	1759377	1.5665	1.3200 - 1.7800	50.00	55.51	111	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	1123145	1759377	1.5665	1.3200 - 1.7800	50.00	55.51	111	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		716068	716068	1.0000	0.8500 - 1.1500	10.00	10.58	106	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2526269	3243631	1.2840	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		3849164	2024756	0.5260	0.4300 - 0.5900	100.00	90.61	91	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	1761883	2151806	1.2213	1.0500 - 1.4300	50.00	57.81	116	5.7810
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	7200608	8817340	1.2245	1.0500 - 1.4300	50.00	228.07	456	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	1856970	2245986	1.2095	1.0500 - 1.4300	50.00	58.42	117	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	1761883	2151806	1.2213	1.0500 - 1.4300	50.00	55.73	111	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	1885075	2331432	1.2368	1.0500 - 1.4300	50.00	60.04	120	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	1696680	2088117	1.2307	1.0500 - 1.4300	50.00	53.89	108	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		4688987	2460546	0.5247	0.4300 - 0.5900	100.00	102.53	103	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	1885075	2331432	1.2368	1.0500 - 1.4300	50.00	51.55	103	5.1550
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		4268592	2413839	0.5655	0.4300 - 0.5900	100.00	98.32	98	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	1856970	2245986	1.2095	1.0500 - 1.4300	50.00	51.45	103	5.1453
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		4118926	2093228	0.5082	0.4300 - 0.5900	100.00	93.97	94	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	1696680	2088117	1.2307	1.0500 - 1.4300	50.00	54.41	109	5.4414
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		2310839	2829493	1.2244	1.0500 - 1.4300	100.00	99.84	100	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	1262118	1579918	1.2518	1.0500 - 1.4300	50.00	53.06	106	5.3062
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	3922152	4961848	1.2651	1.0500 - 1.4300	50.00	158.75	317	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	1372321	1757123	1.2804	1.0500 - 1.4300	50.00	55.92	112	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	1262118	1579918	1.2518	1.0500 - 1.4300	50.00	50.78	102	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	1287712	1624807	1.2618	1.0500 - 1.4300	50.00	52.04	104	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		2247696	2811217	1.2507	1.0500 - 1.4300	100.00	93.95	94	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	1287712	1624807	1.2618	1.0500 - 1.4300	50.00	54.20	108	5.4197
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	1372321	1757123	1.2804	1.0500 - 1.4300	50.00	58.14	116	5.8142
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		4102176	1934397	0.4716	0.3700 - 0.5100	100.00	95.93	96	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	2156156	2199876	1.0203	0.8800 - 1.2000	50.00	56.10	112	0.5610
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	4114058	4238631	1.0303	0.8800 - 1.2000	50.00	110.58	221	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	2175014	2223999	1.0225	0.8800 - 1.2000	50.00	58.24	116	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	1939044	2014632	1.0390	0.8800 - 1.2000	50.00	52.34	105	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		3844122	1704696	0.4435	0.3700 - 0.5100	100.00	93.35	93	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	1939044	2014632	1.0390	0.8800 - 1.2000	50.00	55.23	110	0.5523
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2545254	2874588	1.1294	0.8800 - 1.2000	100.00	104.16	104	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1456189	1540294	1.0578	0.8800 - 1.2000	50.00	51.23	102	0.5123
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	1456189	1540294	1.0578	0.8800 - 1.2000	50.00	51.23	102	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1456189	1540294	1.0578	0.8800 - 1.2000	50.00	51.23	102	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4410439	4040731	0.9162	0.7600 - 1.0200	200.00	182.03	91	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	3405830	3092659	0.9080	0.7600 - 1.0200	100.00	110.23	110	0.0331
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	2693620	2427006	0.9010	0.7600 - 1.0200	100.00	112.02	112	0.0336
59	overall TEQ	overall TEQ test		28213223	32873722	1.1652	0.0000 - 0.0000	0.00	952.31	---	125.2182

Chromatogram

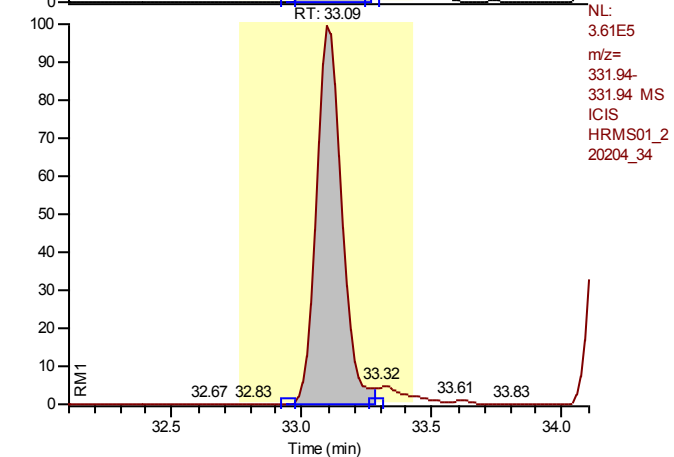
Entry Parameters

RT: 32.10 - 34.10 SM: 7G



NL:
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 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2988164
RM1 Area	2419037
RM1 Ratio (A)	0.8095
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

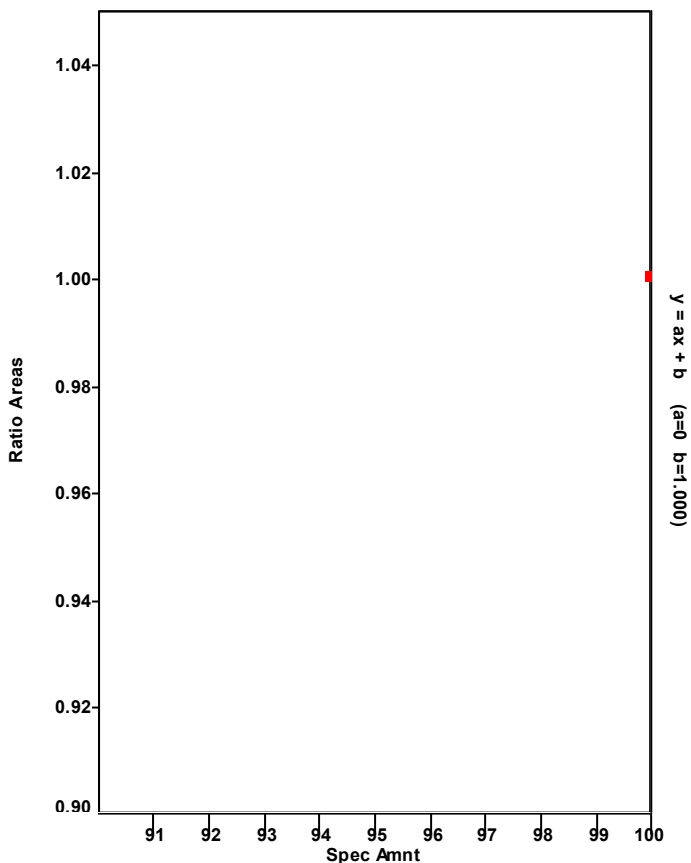


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 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

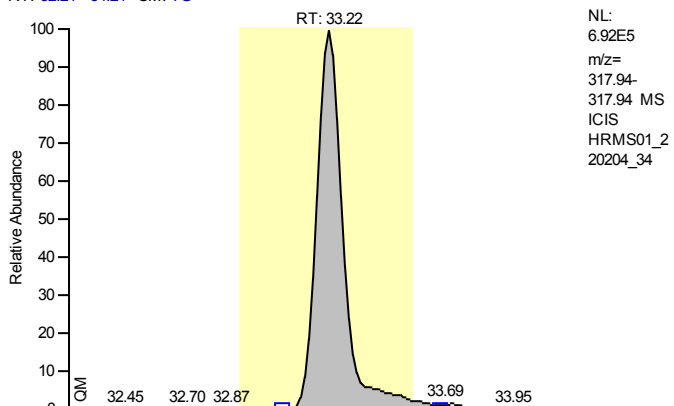
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



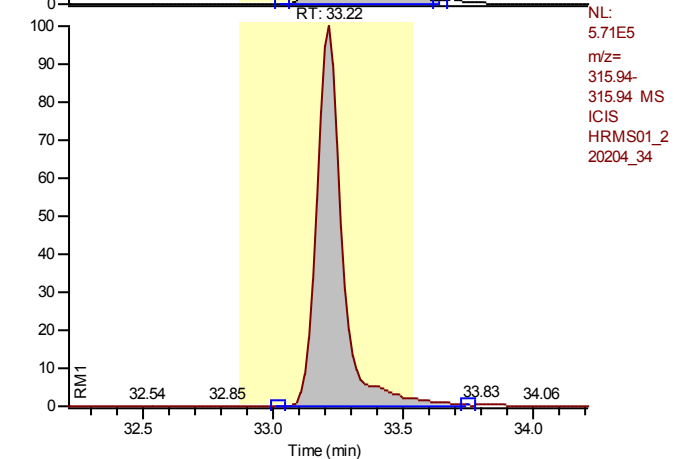
Chromatogram

Entry Parameters

RT: 32.21 - 34.21 SM: 7G



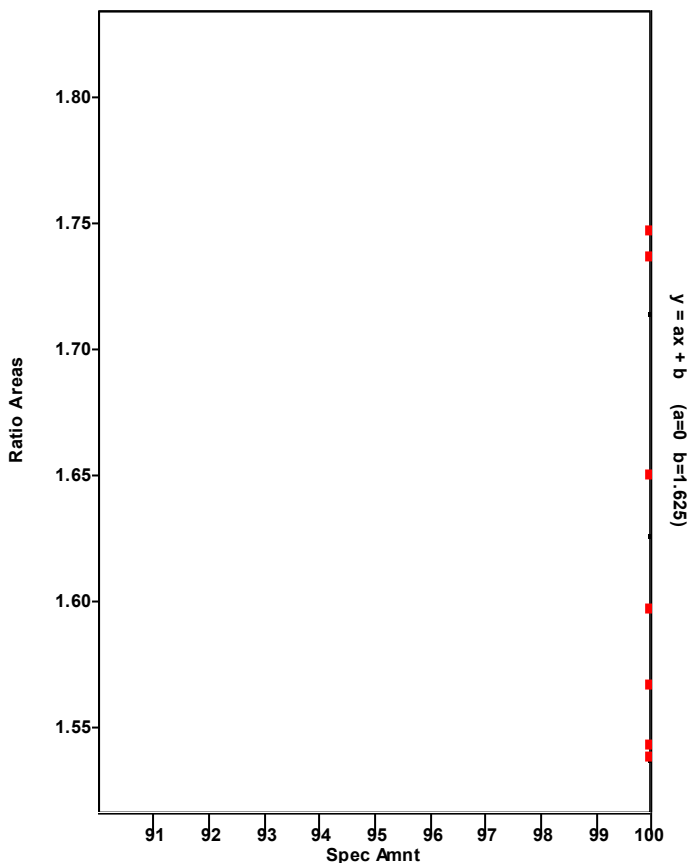
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	4923751
RM1 Area	3871019
RM1 Ratio (A)	0.7862
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.11
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

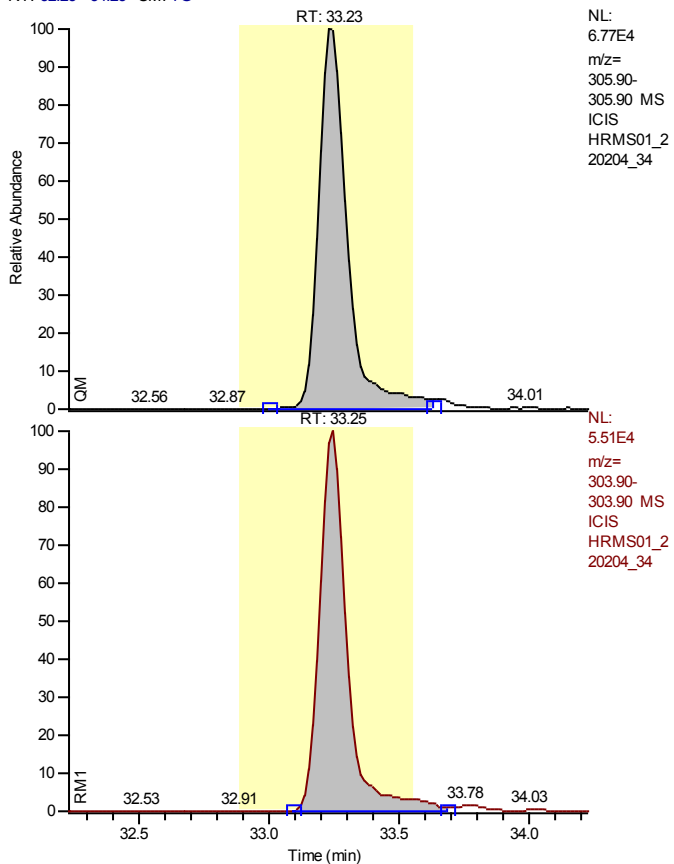
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.23 - 34.23 SM: 7G

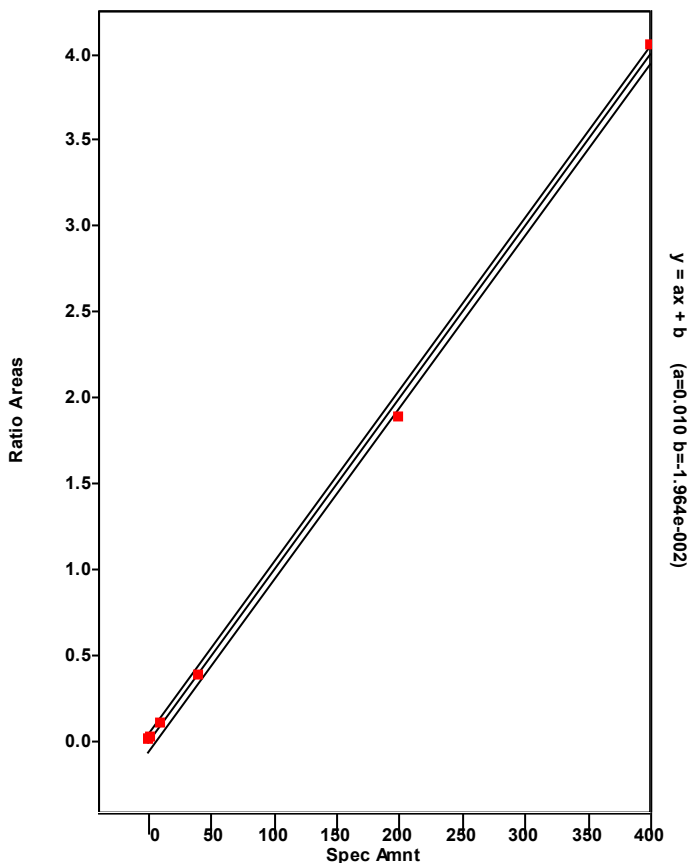


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	509846
RM1 Area	398414
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.11
Percent Recovery (A)	111
TEQ (A)	1.1112
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

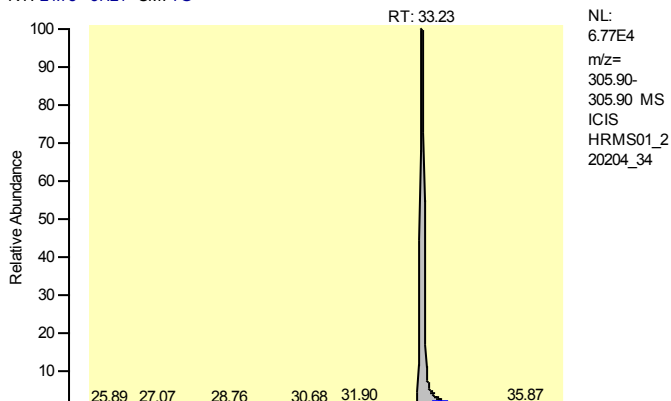
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



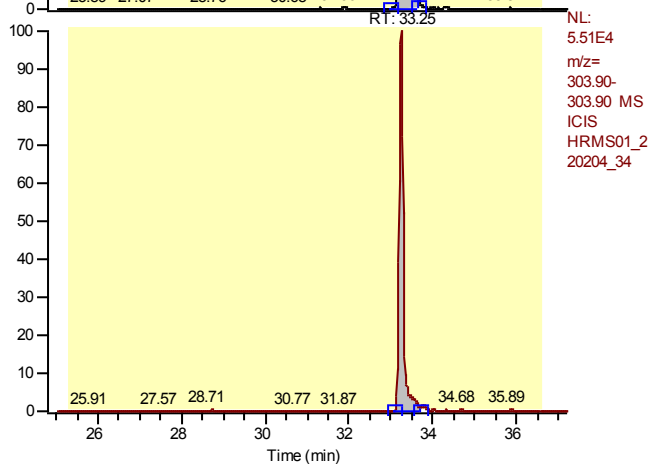
Chromatogram

Entry Parameters

RT: 24.78 - 37.21 SM: 7G



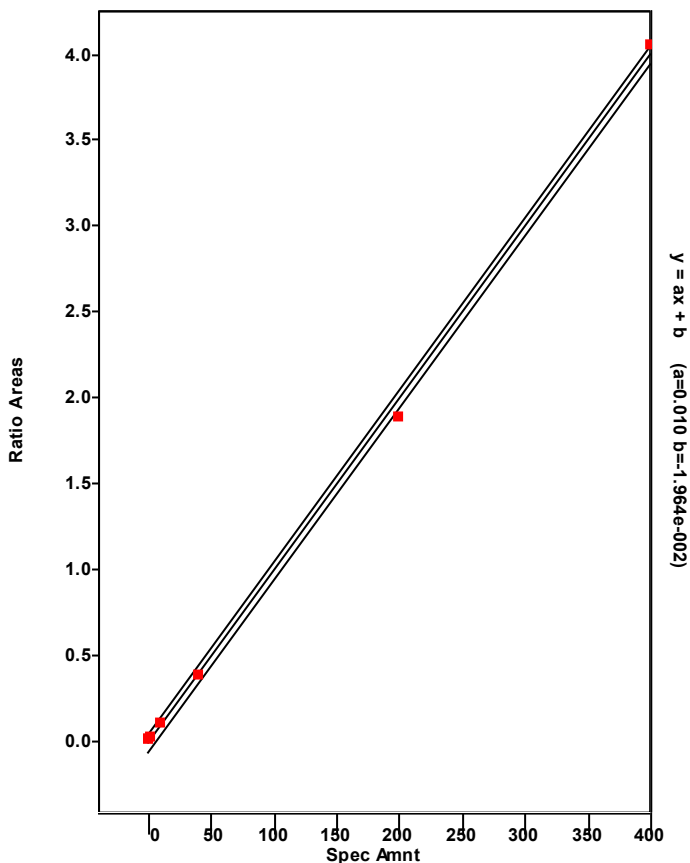
Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	509846
RM1 Area	398414
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.11
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

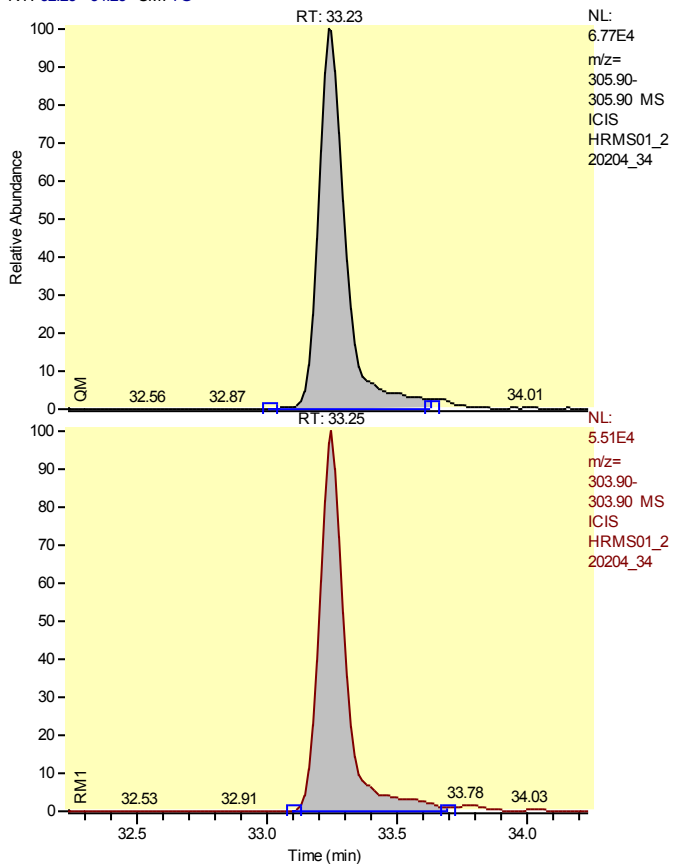
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.23 - 34.23 SM: 7G

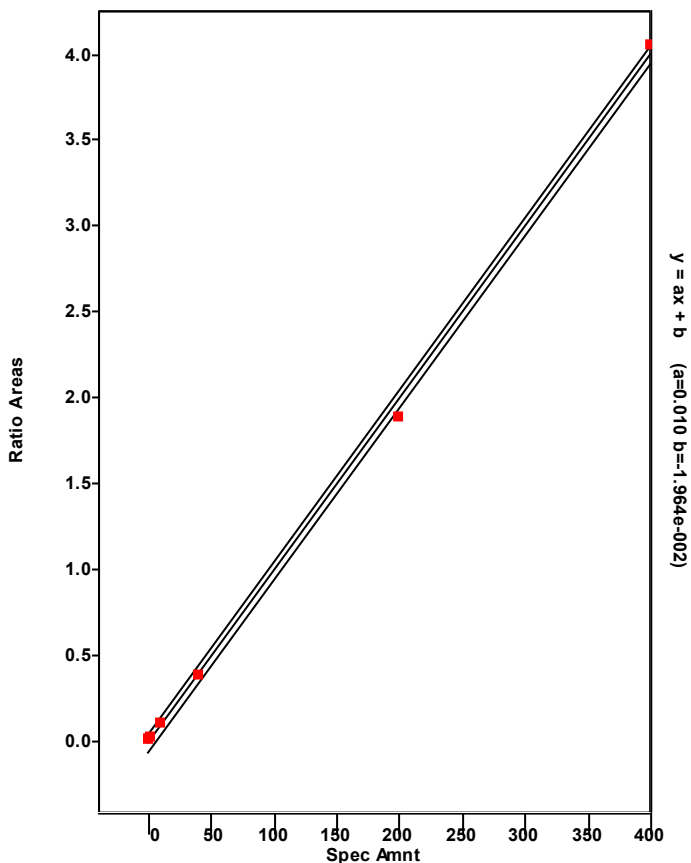


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	509846
RM1 Area	398414
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.11
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

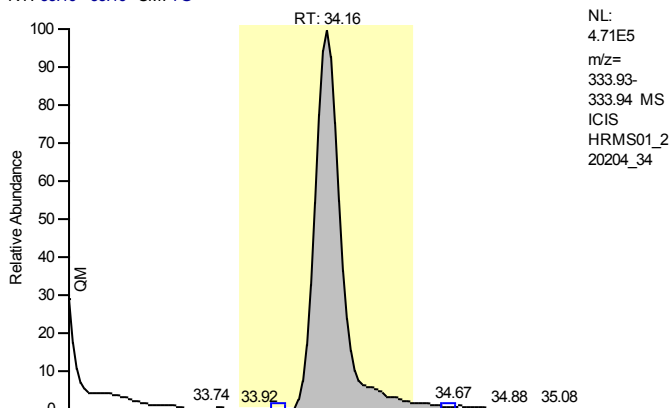
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

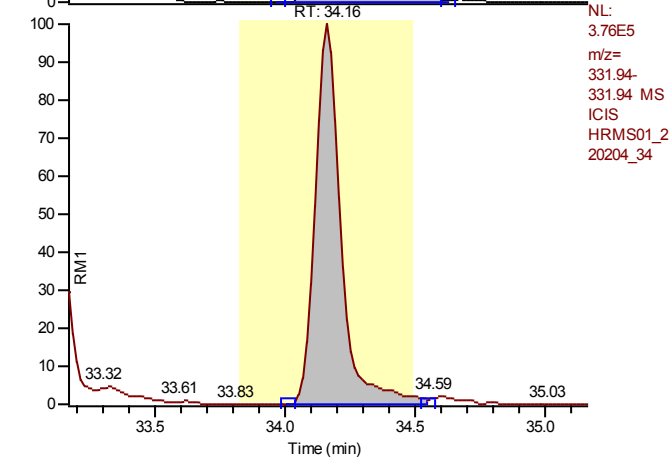
Entry Parameters

RT: 33.16 - 35.16 SM: 7G



NL:
 4.71E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	3316078
RM1 Area	2557649
RM1 Ratio (A)	0.7713
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	93.37
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	

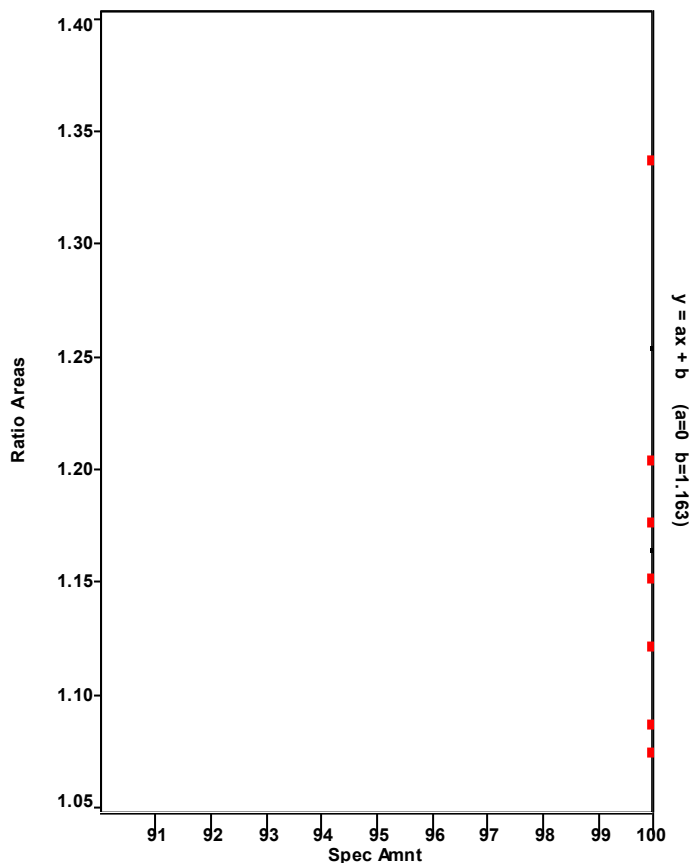


NL:
 3.76E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

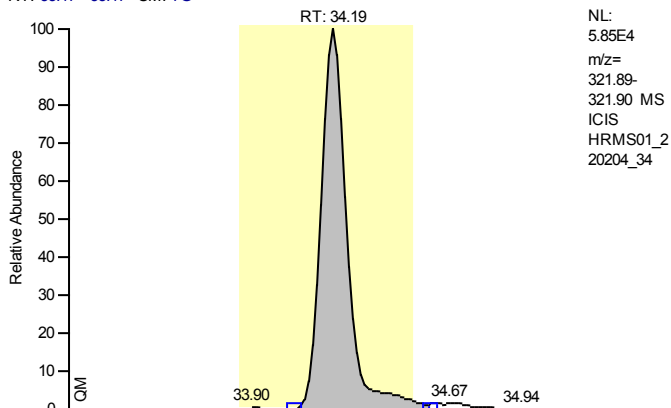
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



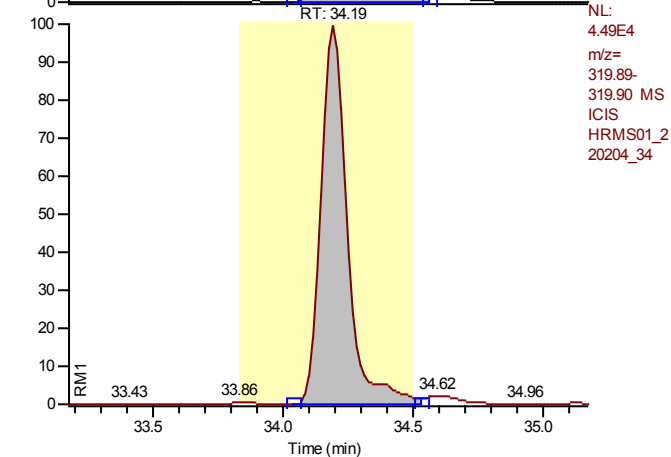
Chromatogram

Entry Parameters

RT: 33.17 - 35.17 SM: 7G



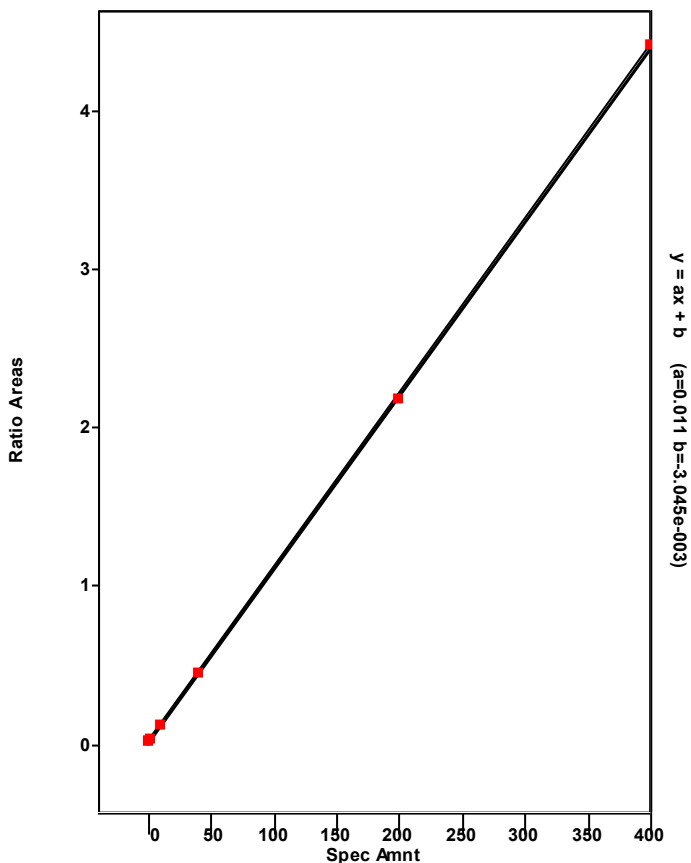
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	400841
RM1 Area	313221
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.49
Percent Recovery (A)	115
TEQ (A)	11.4867
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

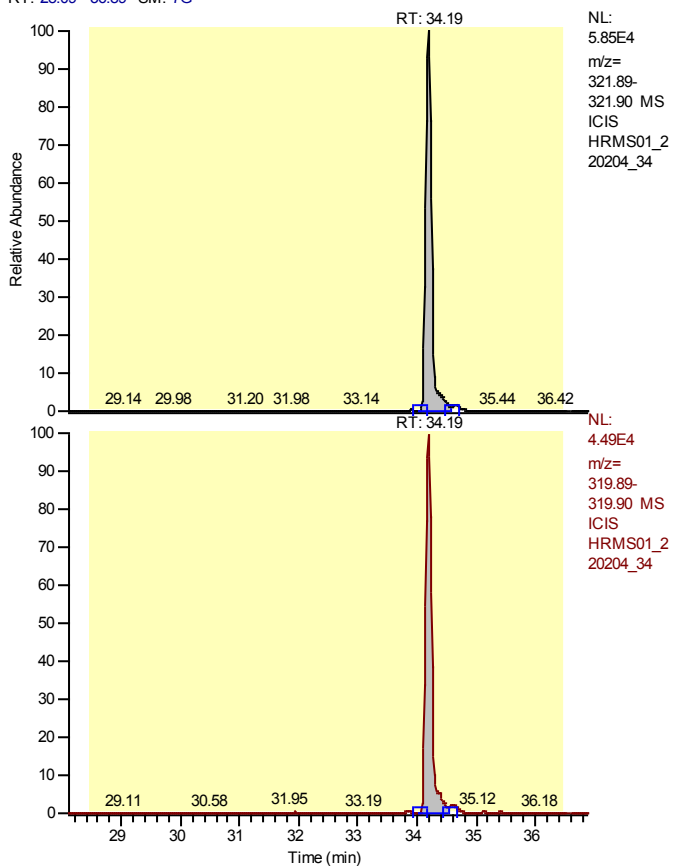
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.09 - 36.89 SM: 7G

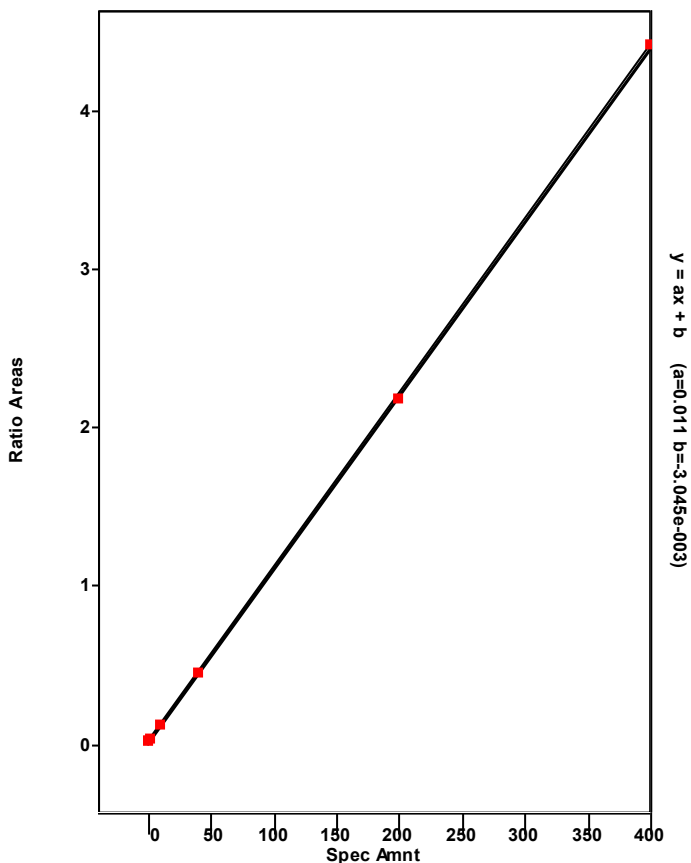


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	400841
RM1 Area	313221
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.49
Percent Recovery (A)	115
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

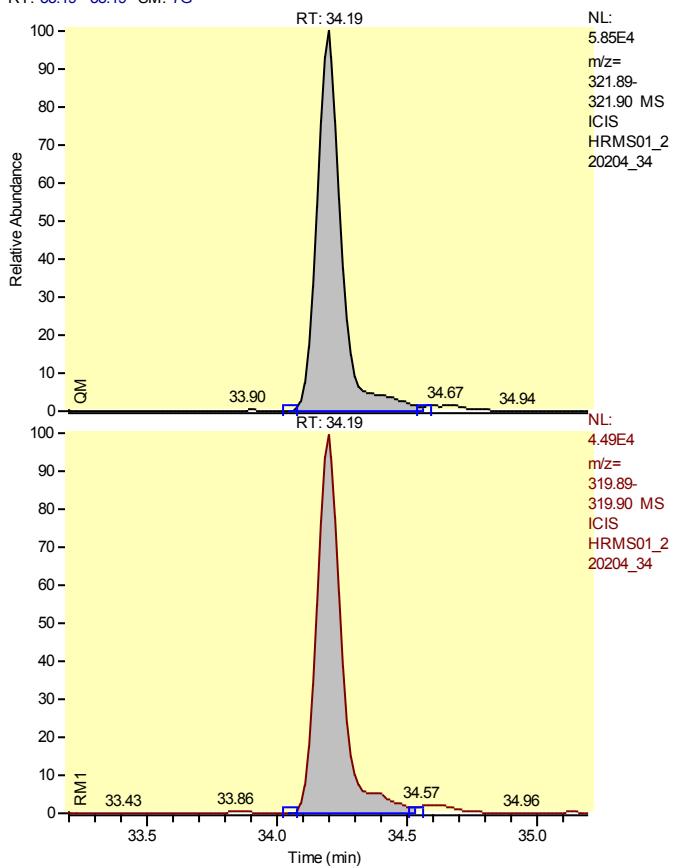
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.19 - 35.19 SM: 7G

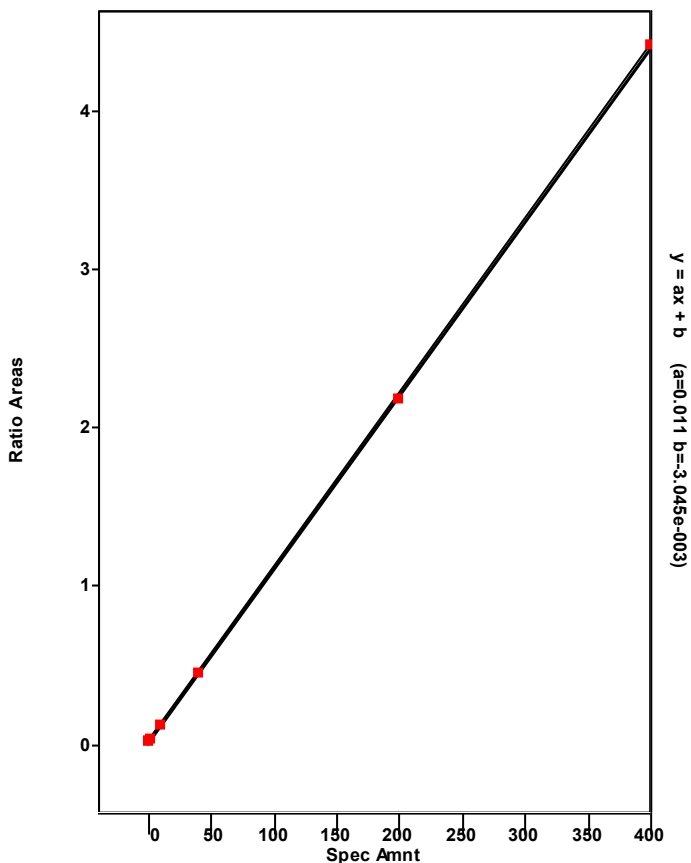


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	400841
RM1 Area	313221
RM1 Ratio (A)	0.7814
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.49
Percent Recovery (A)	115
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

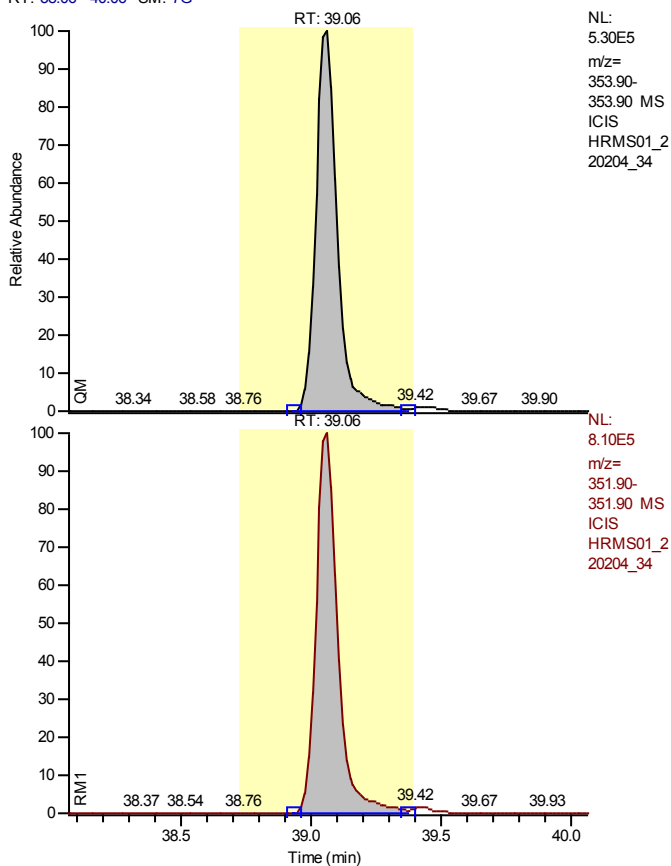
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.06 - 40.06 SM: 7G



NL:
 5.30E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20204_34

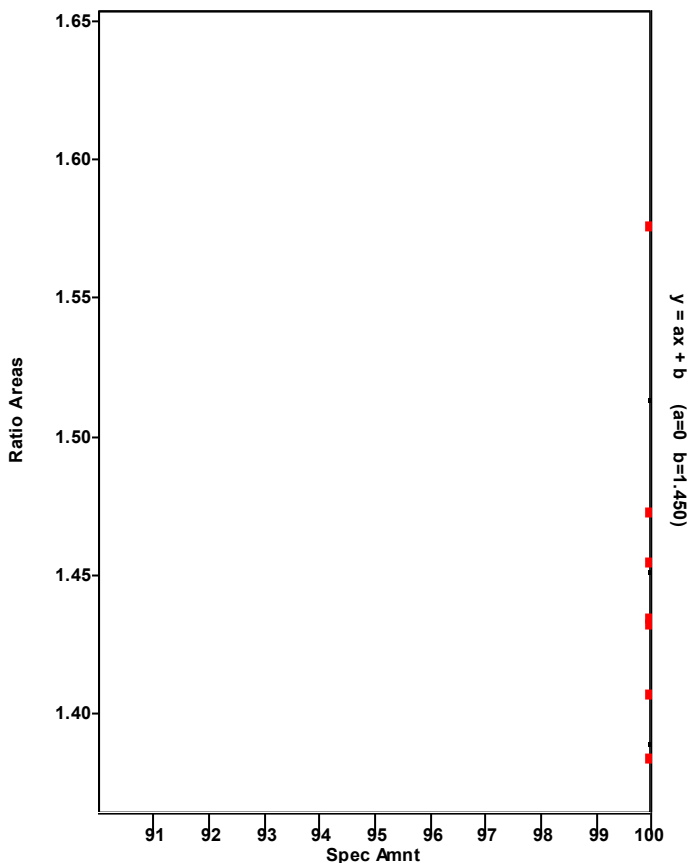
NL:
 8.10E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	3042110
RM1 Area	4693788
RM1 Ratio (A)	1.5429
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	98.65
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

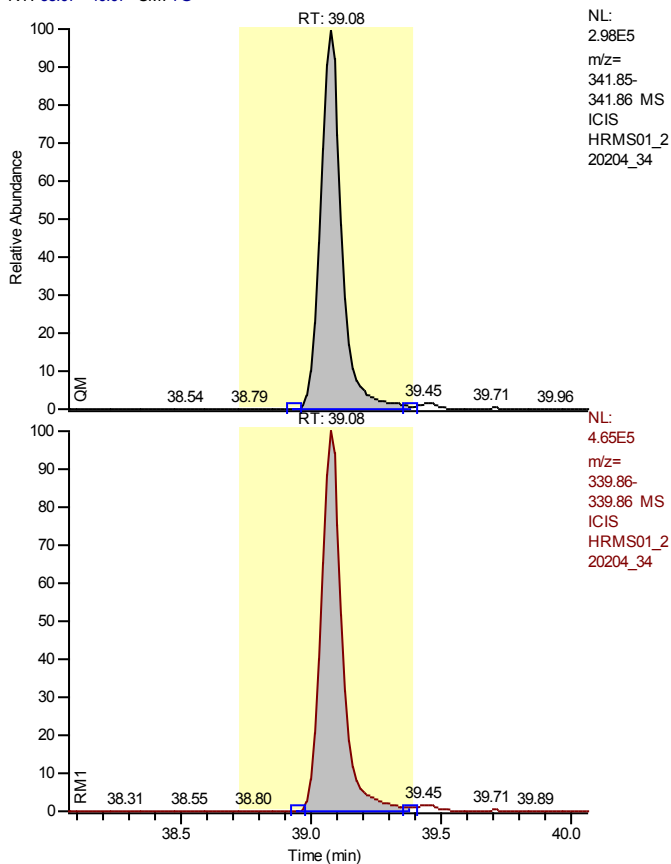
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
 2.98E5
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_34

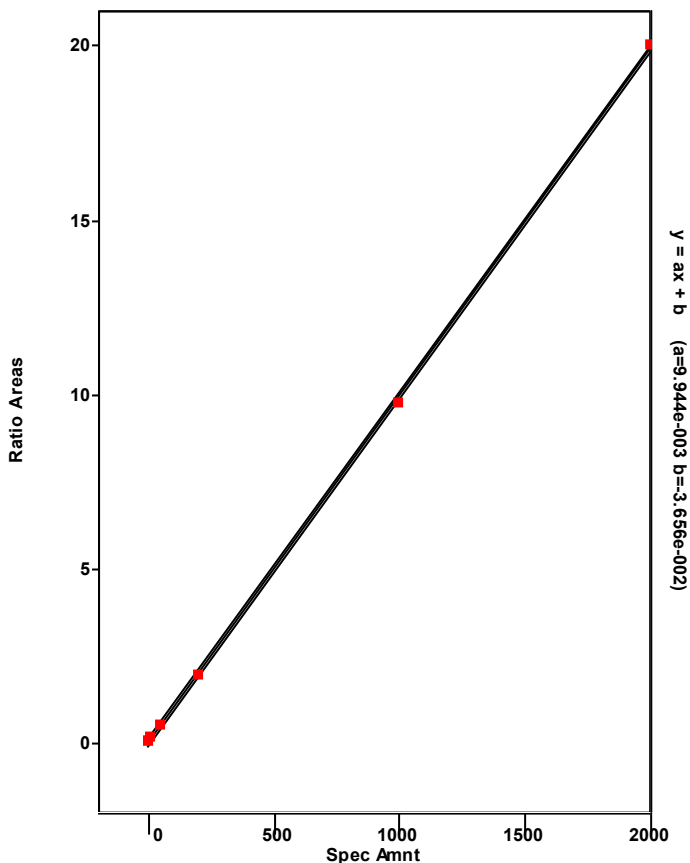
NL:
 4.65E5
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	1686754
RM1 Area	2647664
RM1 Ratio (A)	1.5697
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	56.60
Percent Recovery (A)	113
TEQ (A)	1.6979
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790

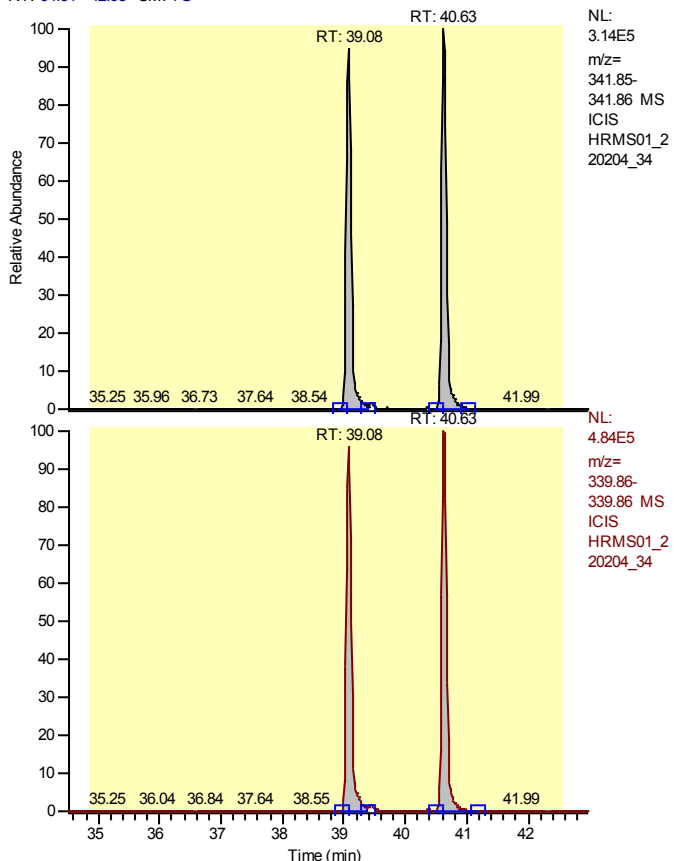


$y = ax + b$ (a=9.944e-003 b=-3.656e-002)

Chromatogram

Entry Parameters

RT: 34.51 - 42.98 SM: 7G

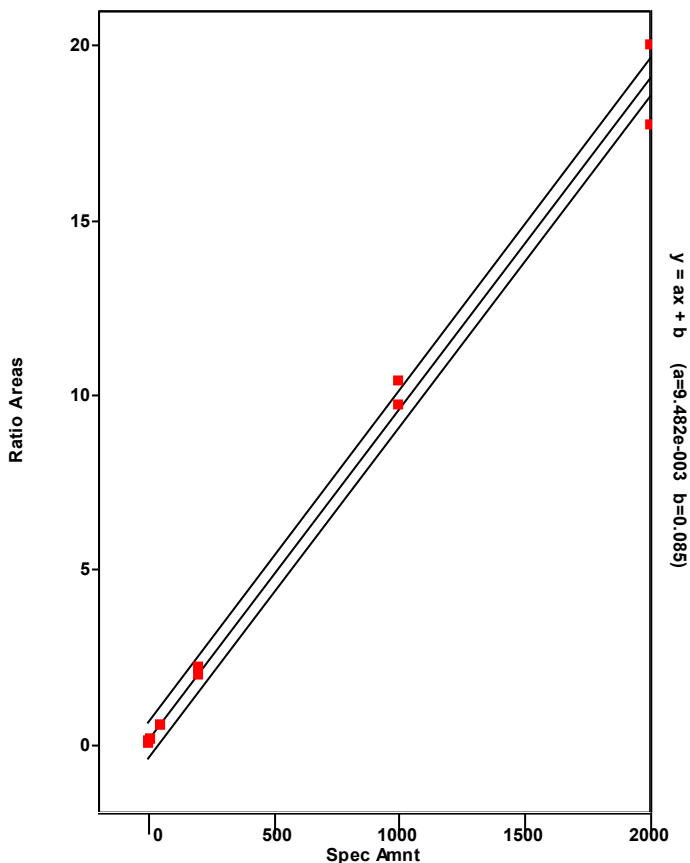


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	3405791
RM1 Area	5349054
RM1 Ratio (A)	1.5706
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	112.54
Percent Recovery (A)	225
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

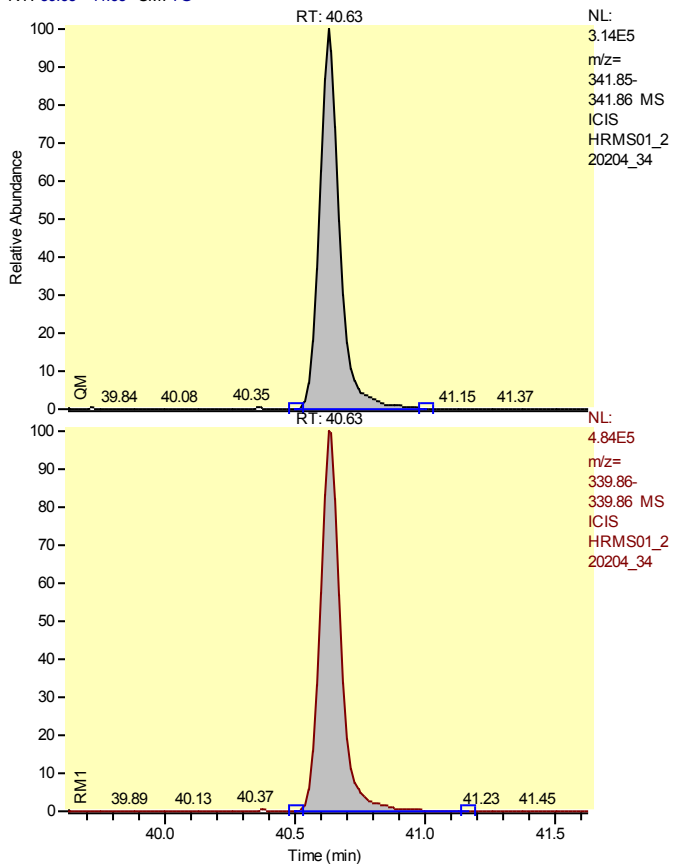
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.63 - 41.63 SM: 7G



NL:
 3.14E5
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20204_34

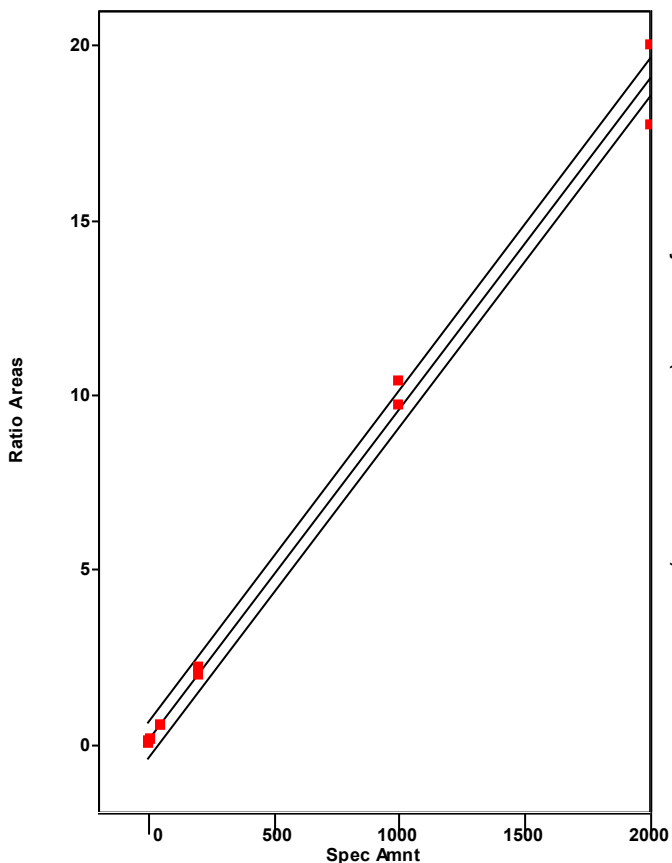
NL:
 4.84E5
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1719037
RM1 Area	2701391
RM1 Ratio (A)	1.5715
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	56.82
Percent Recovery (A)	114
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

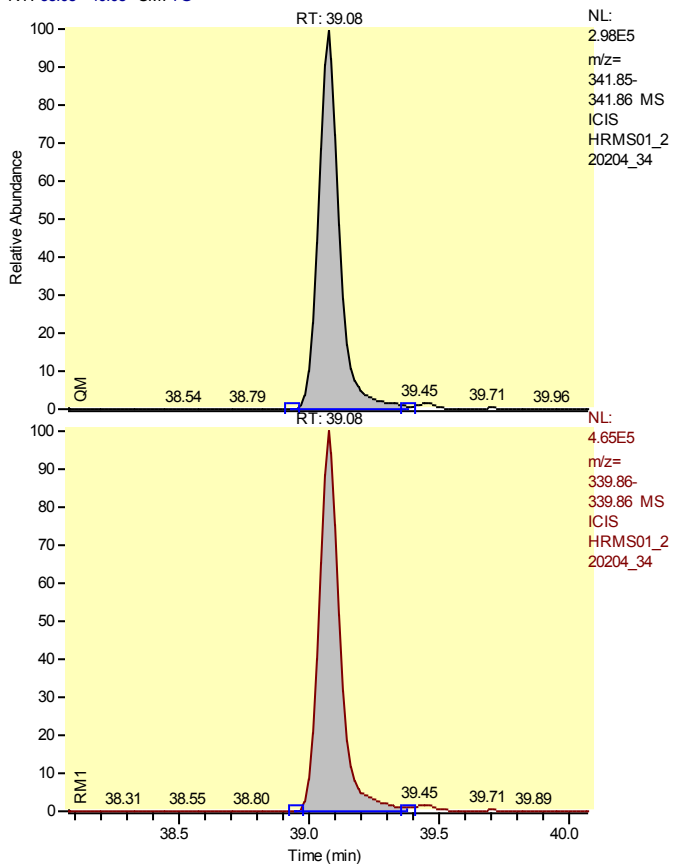
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.08 - 40.08 SM: 7G

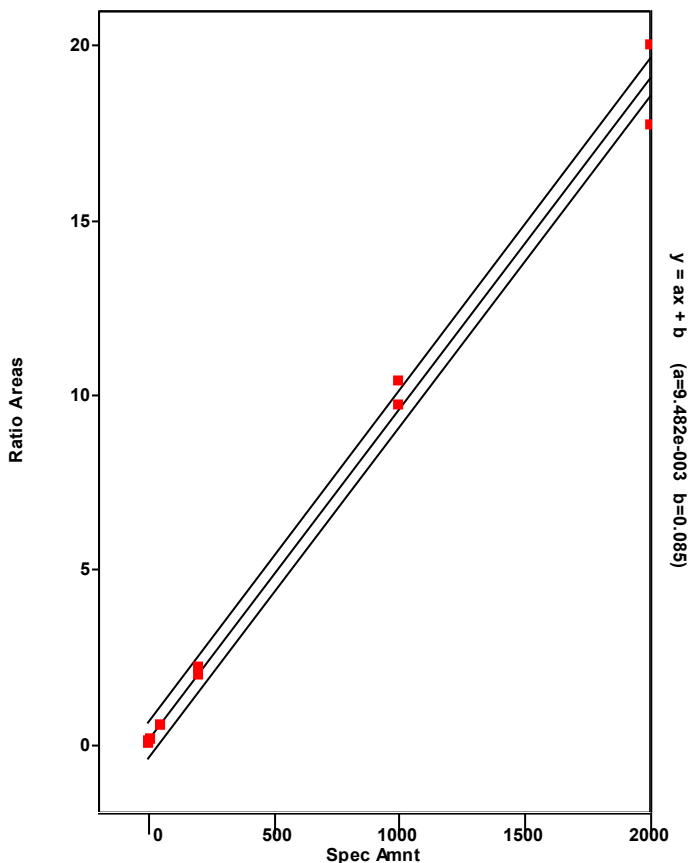


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1686754
RM1 Area	2647664
RM1 Ratio (A)	1.5697
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.72
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

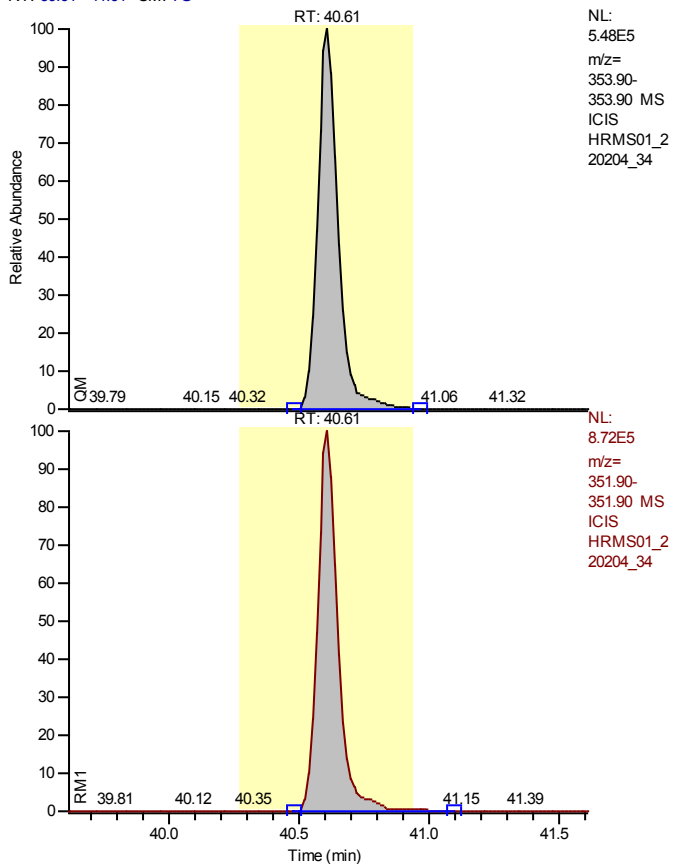
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.61 - 41.61 SM: 7G

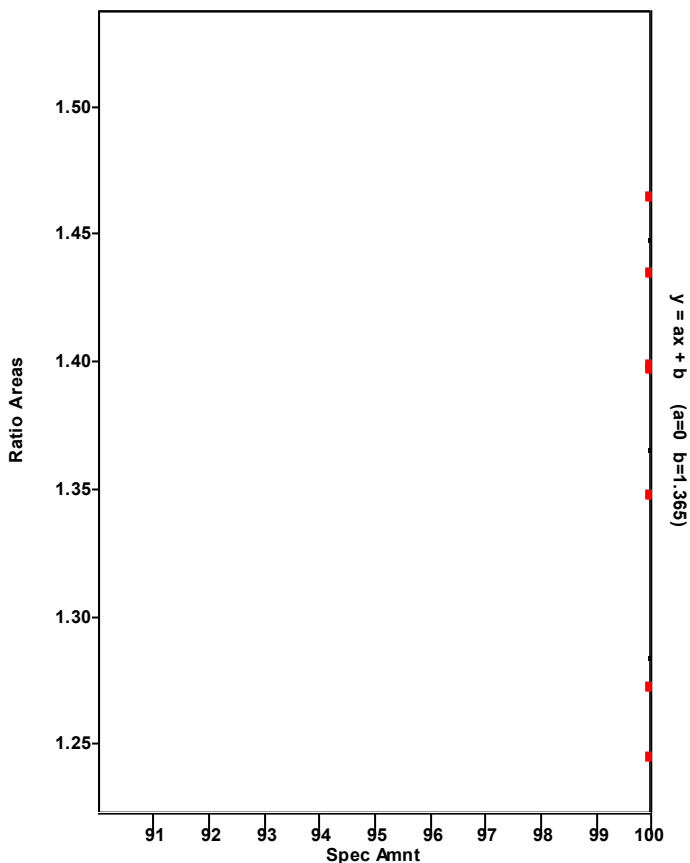


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	3038424
RM1 Area	4772795
RM1 Ratio (A)	1.5708
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	105.86
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

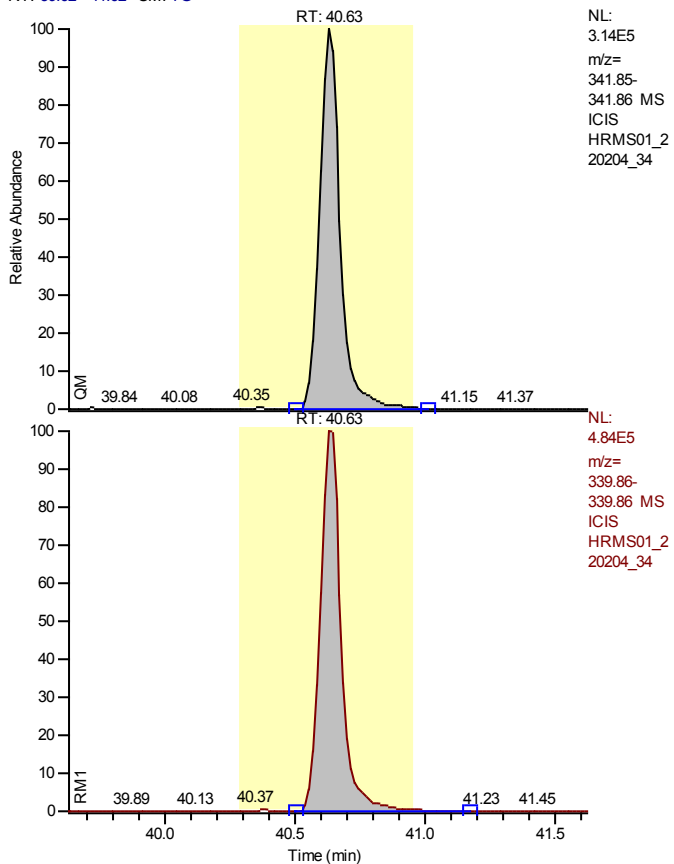
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.62 - 41.62 SM: 7G

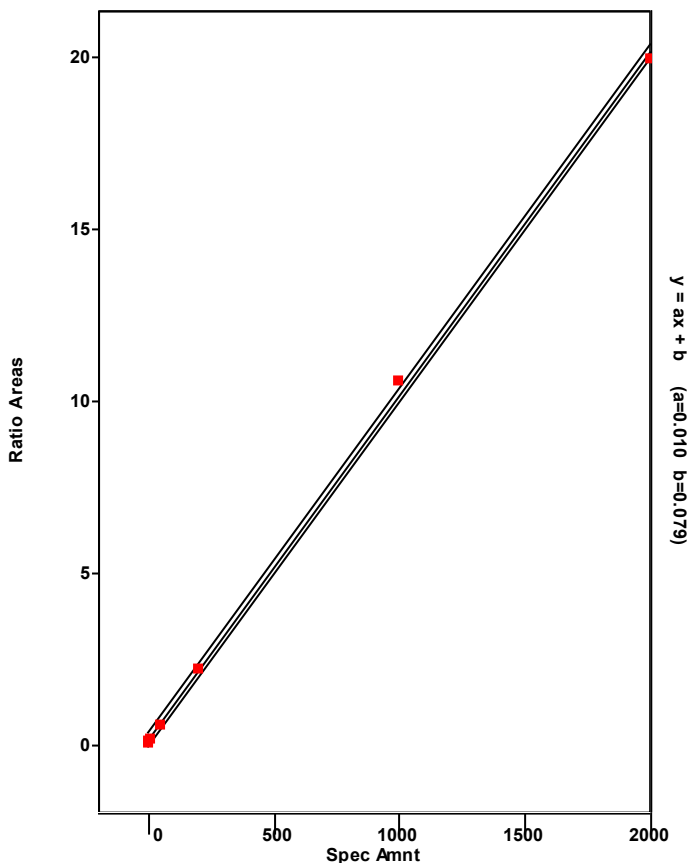


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	1719037
RM1 Area	2701391
RM1 Ratio (A)	1.5715
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.18
Percent Recovery (A)	104
TEQ (A)	15.6525
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

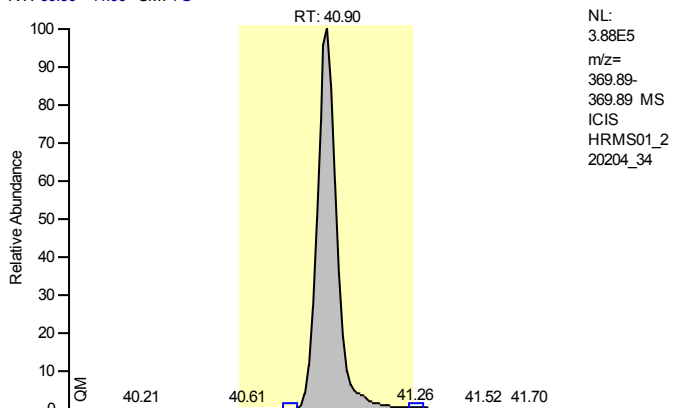
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

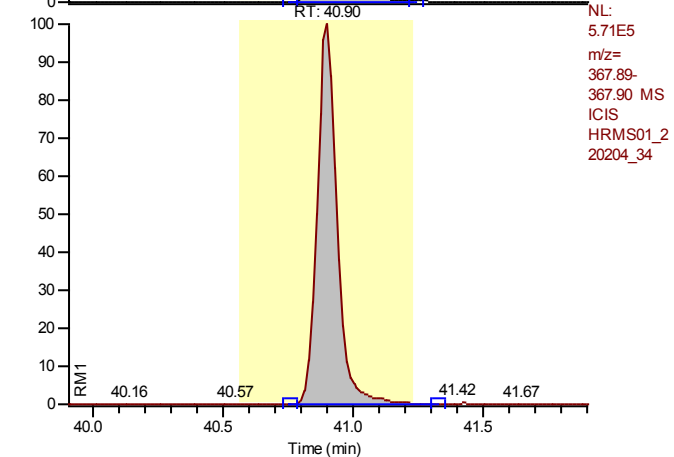
Entry Parameters

RT: 39.90 - 41.90 SM: 7G



NL:
 3.88E5
 m/z=
 369.89-
 369.89 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	2073028
RM1 Area	3103461
RM1 Ratio (A)	1.4971
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	105.07
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

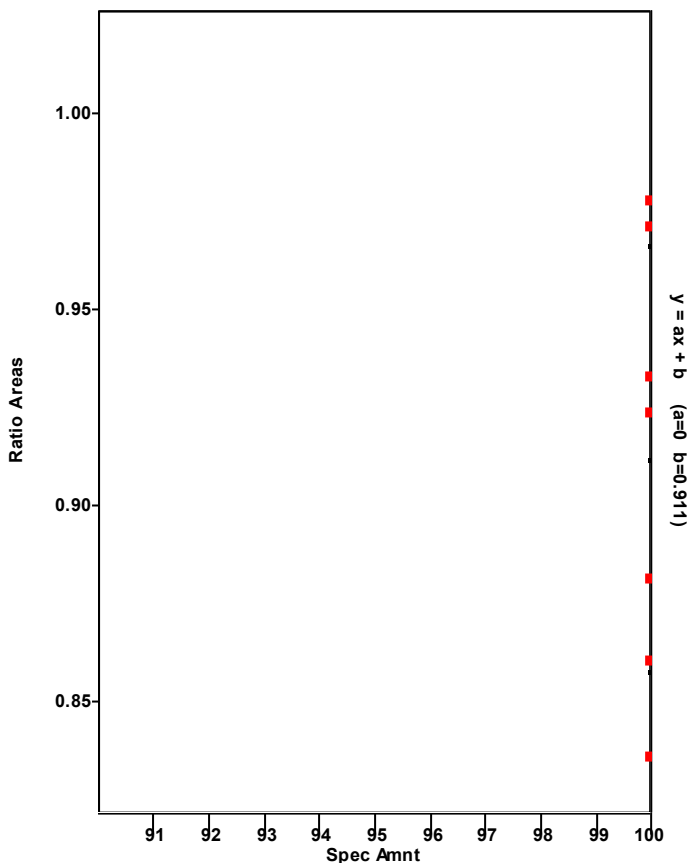


NL:
 5.71E5
 m/z=
 367.89-
 367.90 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

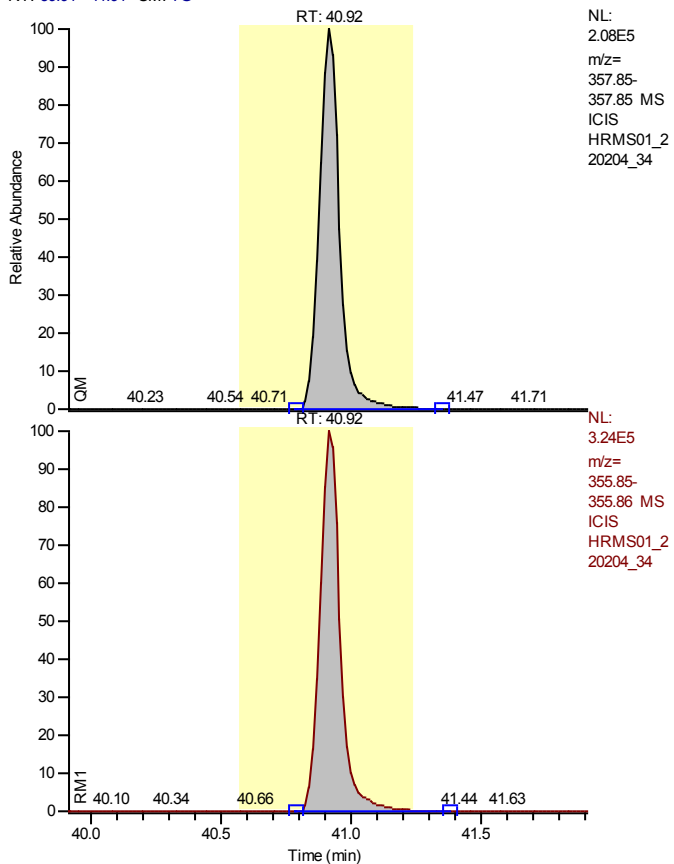
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.91 - 41.91 SM: 7G



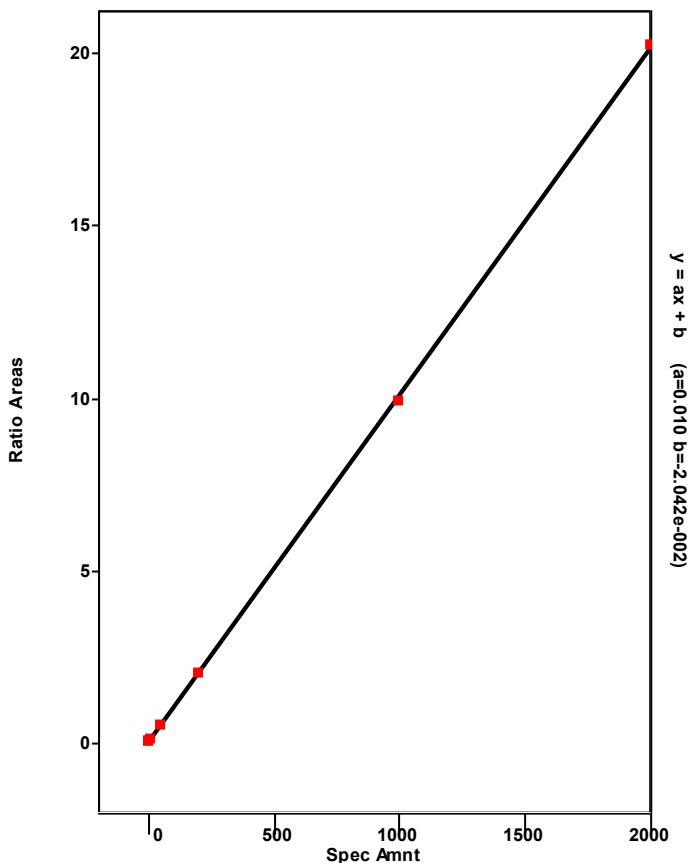
NL:
2.08E5
m/z=
357.85-
357.85 MS
ICIS
HRMS01_2
20204_34

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	1123145
RM1 Area	1759377
RM1 Ratio (A)	1.5665
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.51
Percent Recovery (A)	111
TEQ (A)	55.5150
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

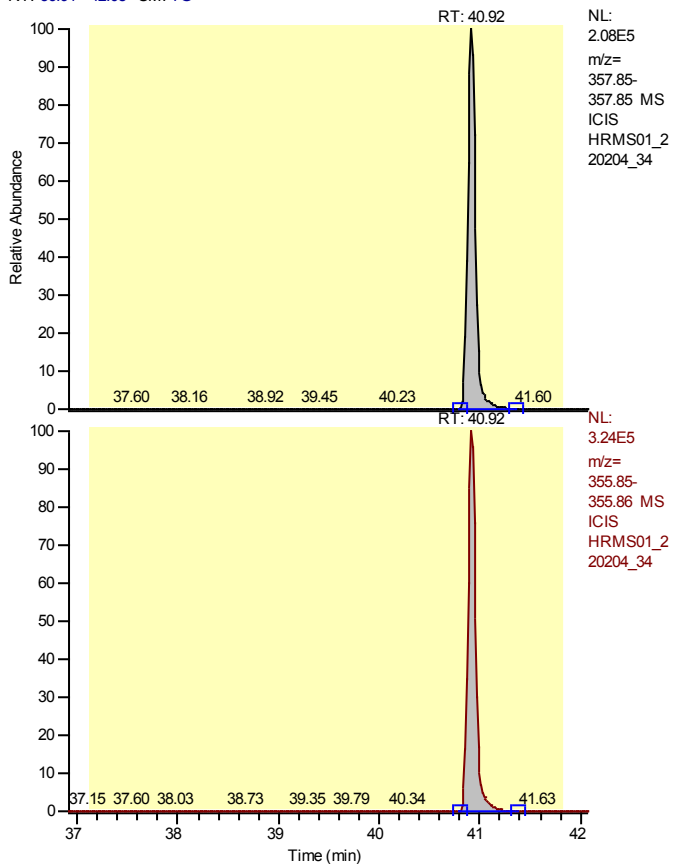
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.91 - 42.08 SM: 7G

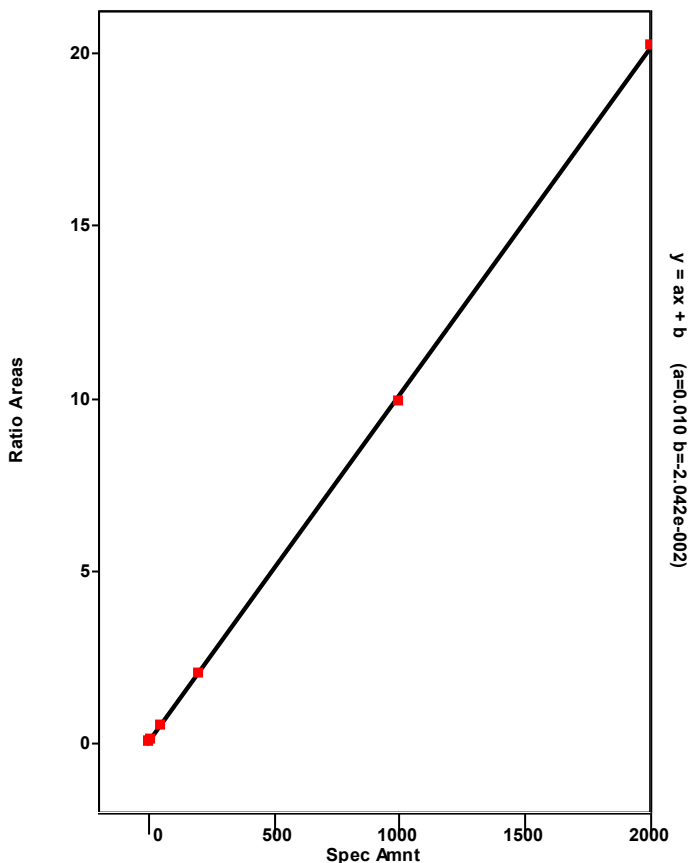


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	1123145
RM1 Area	1759377
RM1 Ratio (A)	1.5665
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.51
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

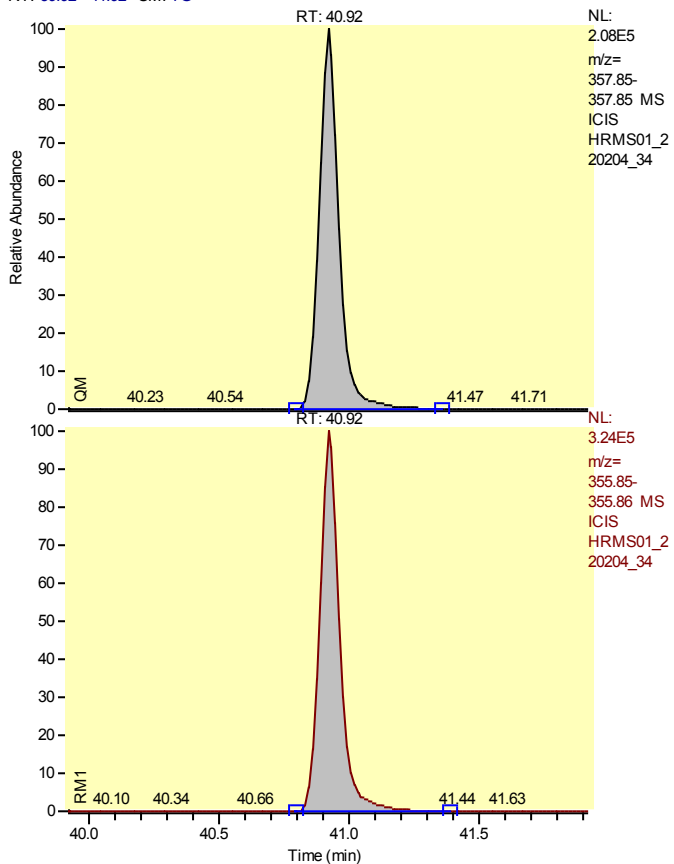
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.92 - 41.92 SM: 7G

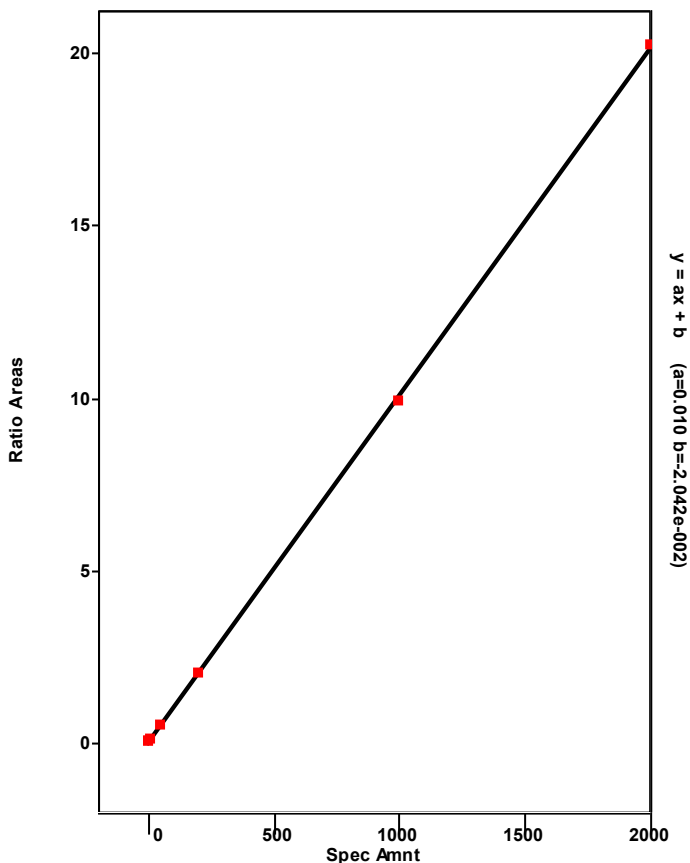


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	1123145
RM1 Area	1759377
RM1 Ratio (A)	1.5665
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.51
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

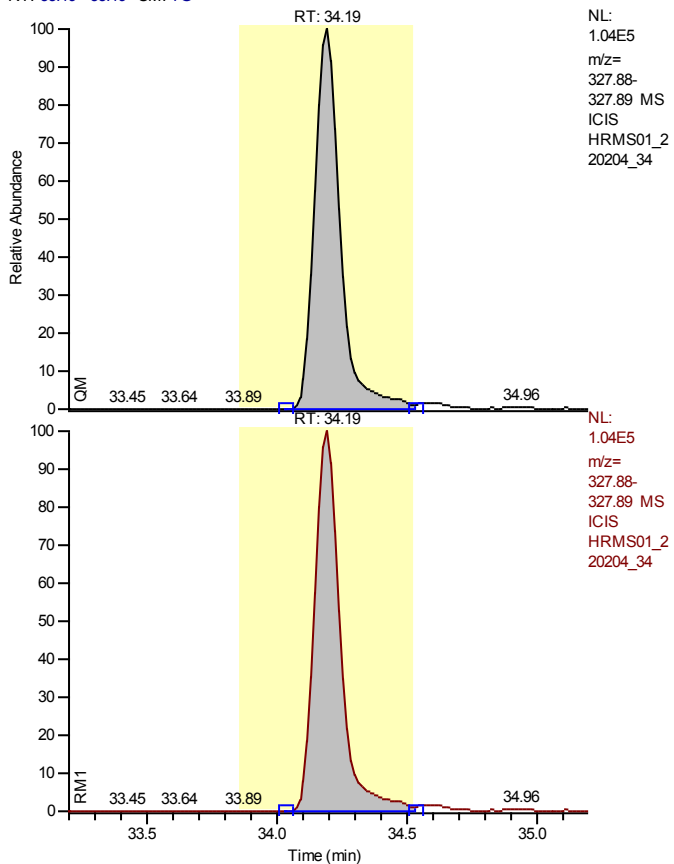
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.19 - 35.19 SM: 7G

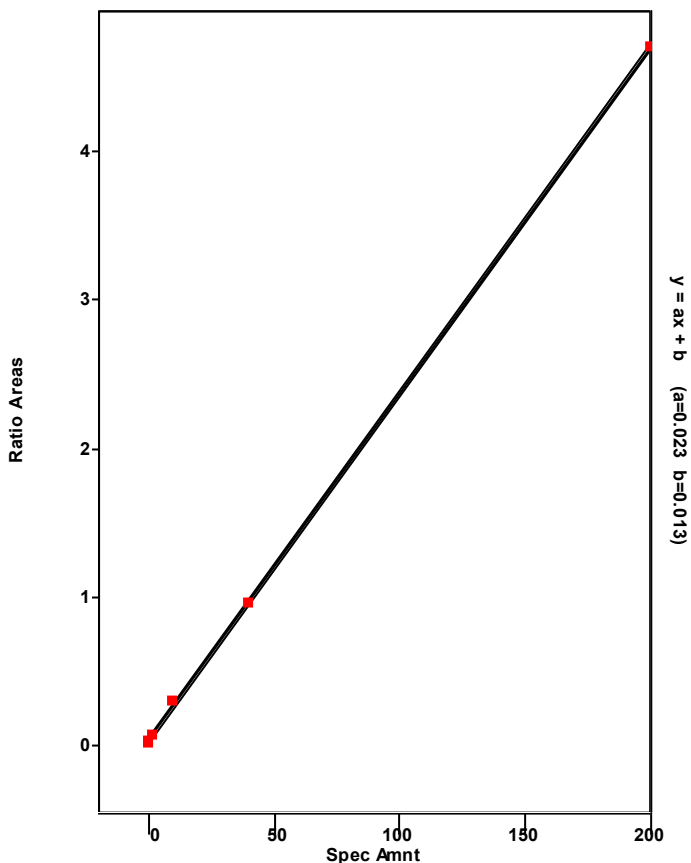


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	716068
RM1 Area	716068
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.58
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

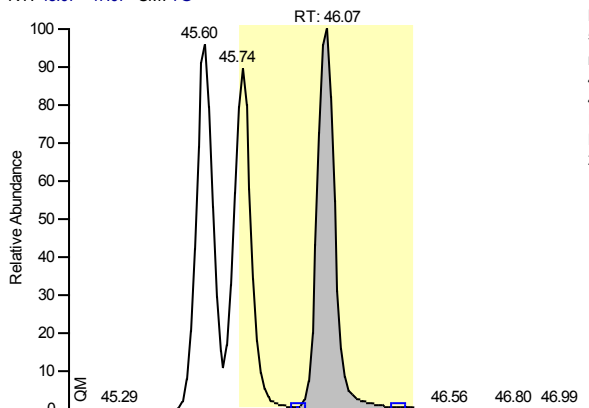
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

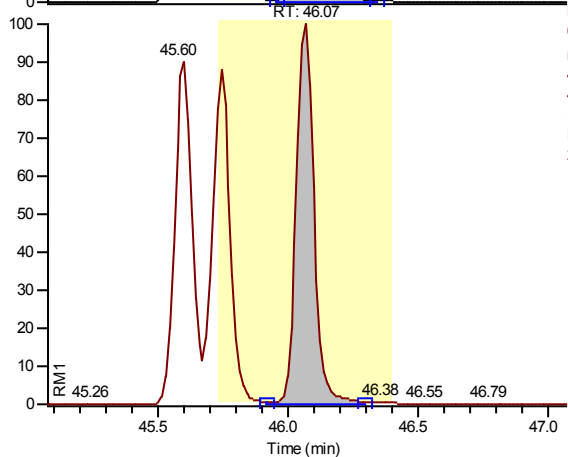
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 5.30E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2526269
RM1 Area	3243631
RM1 Ratio (A)	1.2840
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

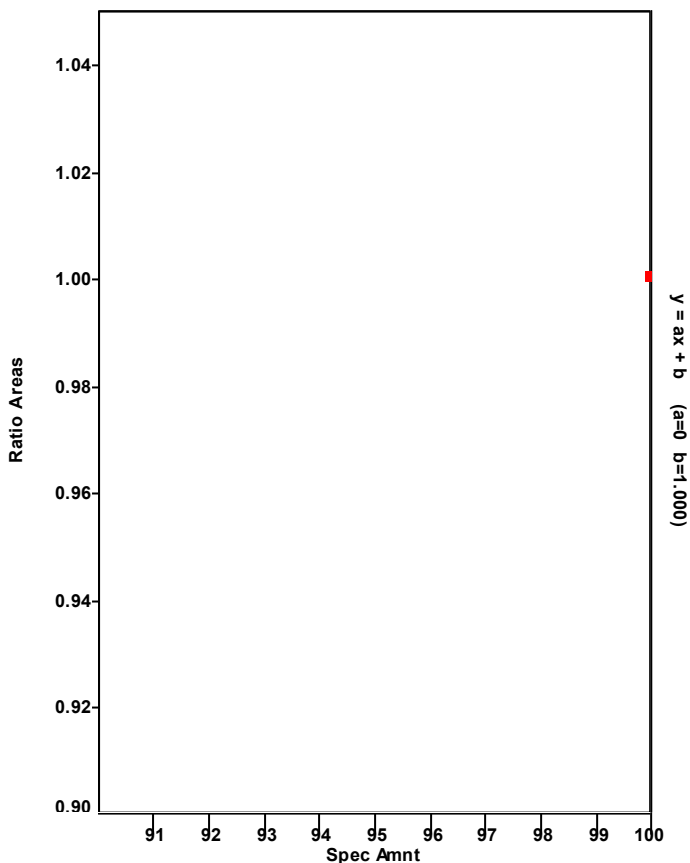


NL:
 6.80E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

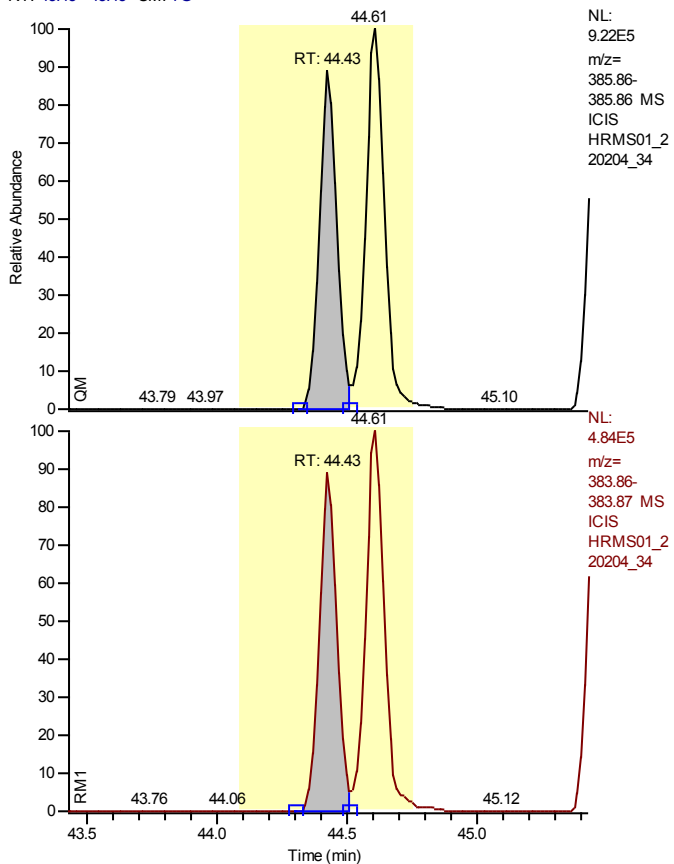
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G

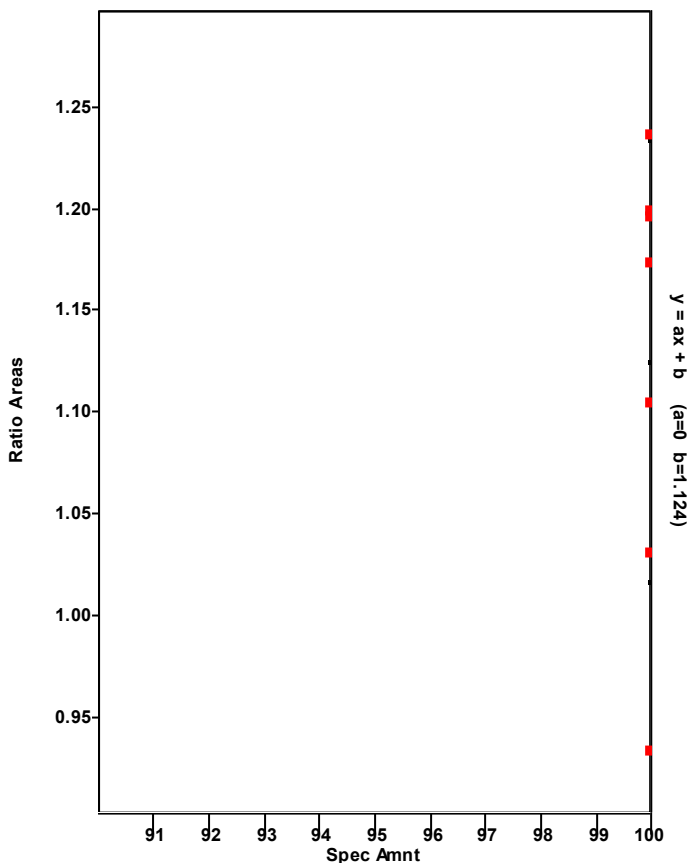


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	3849164
RM1 Area	2024756
RM1 Ratio (A)	0.5260
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	90.61
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

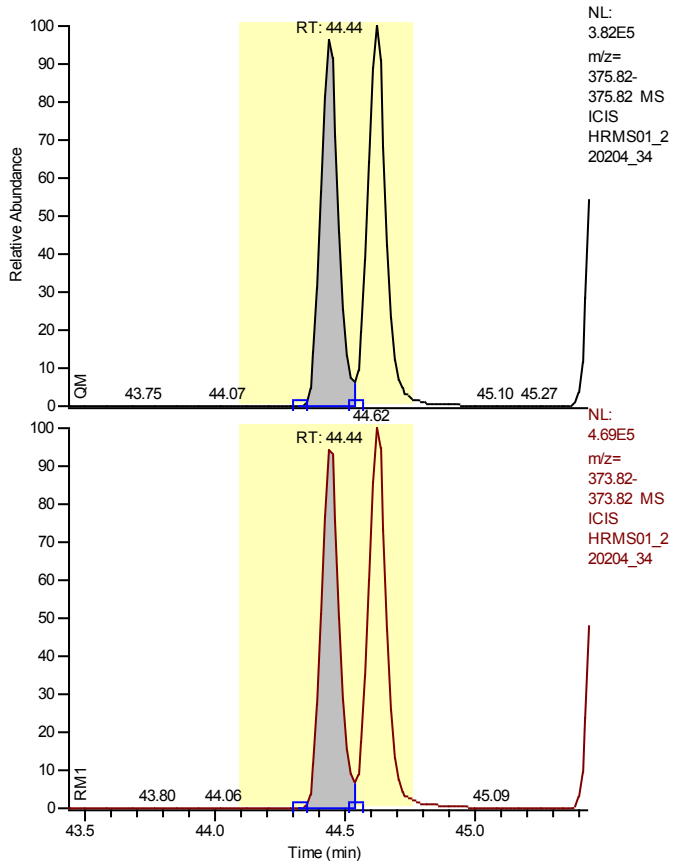
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G



NL:
3.82E5
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20204_34

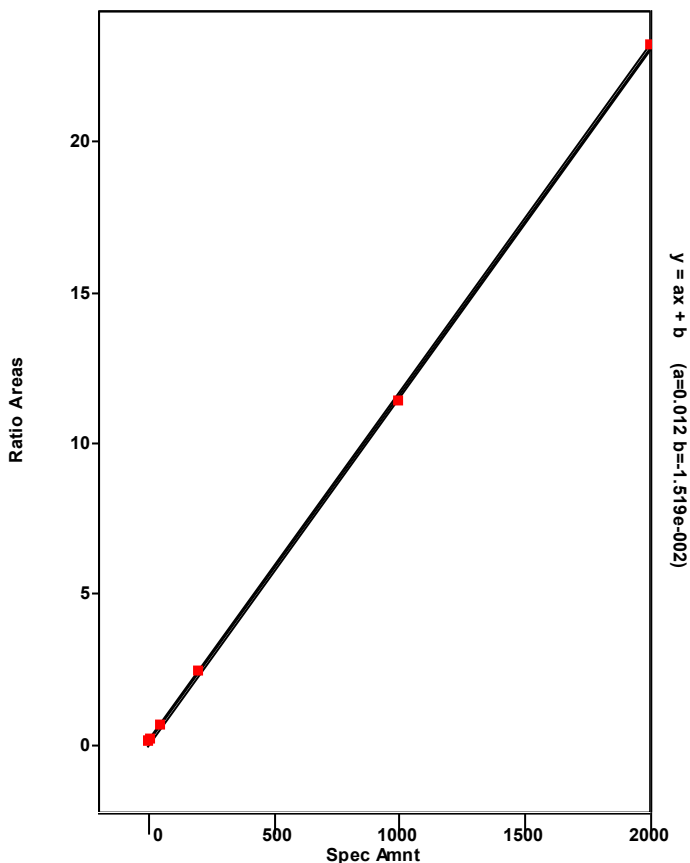
NL:
4.69E5
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20204_34

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	1761883
RM1 Area	2151806
RM1 Ratio (A)	1.2213
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	57.81
Percent Recovery (A)	116
TEQ (A)	5.7810
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

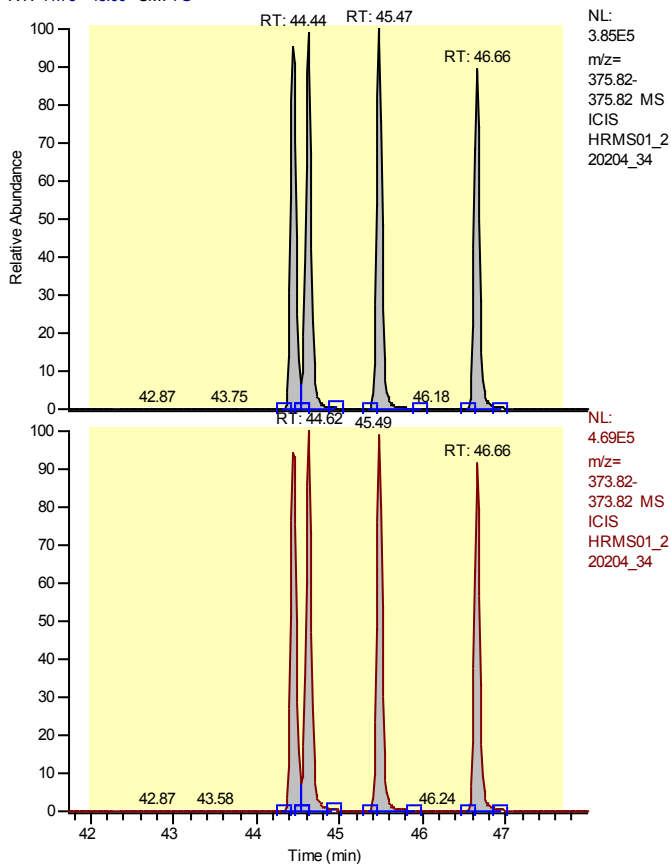
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.73 - 48.00 SM: 7G



NL:
 3.85E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_34

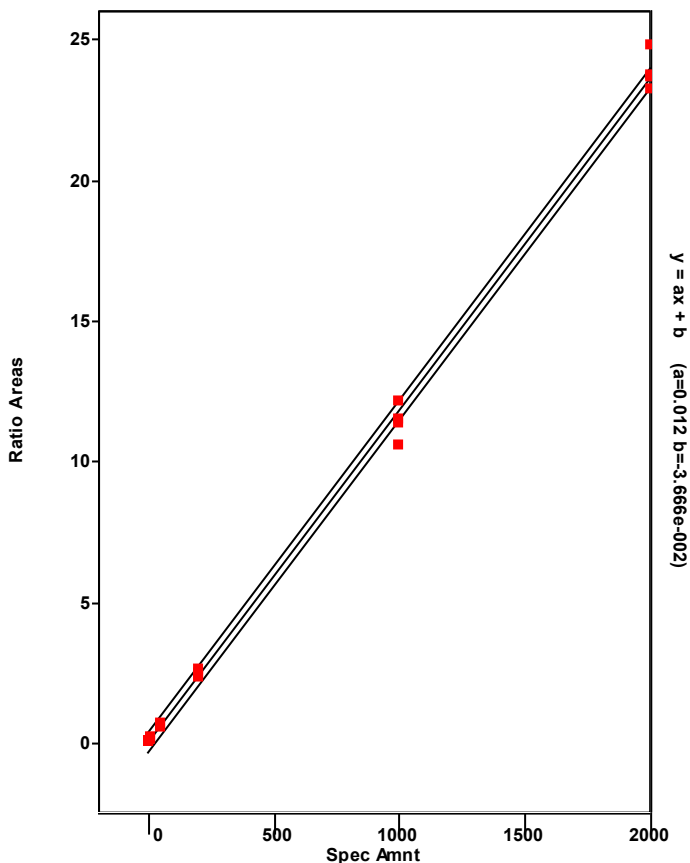
NL:
 4.69E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	7200608
RM1 Area	8817340
RM1 Ratio (A)	1.2245
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	228.07
Percent Recovery (A)	456
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

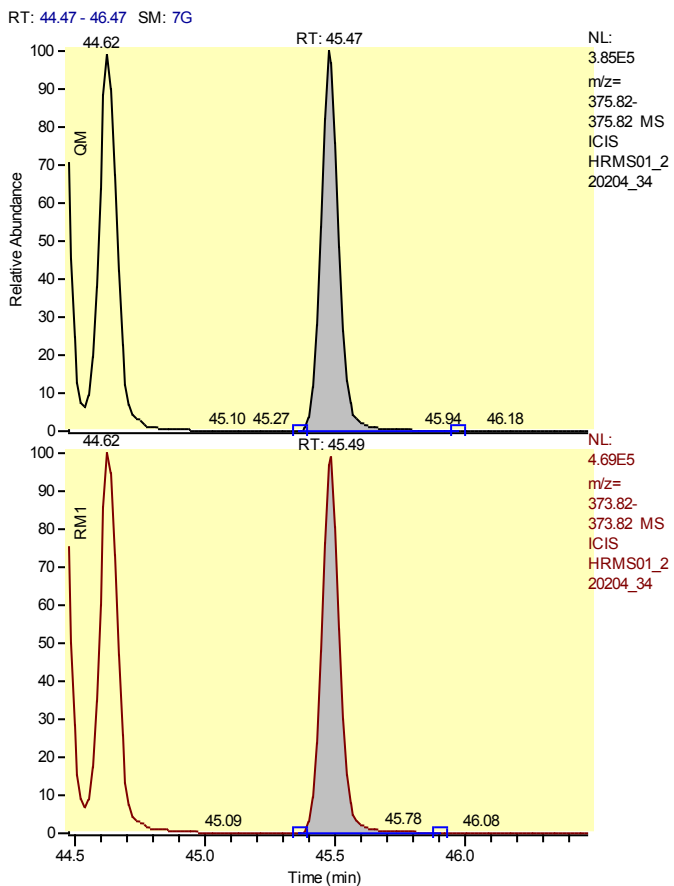
Calibration Points of Total Hexachlorodibenzofuran

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

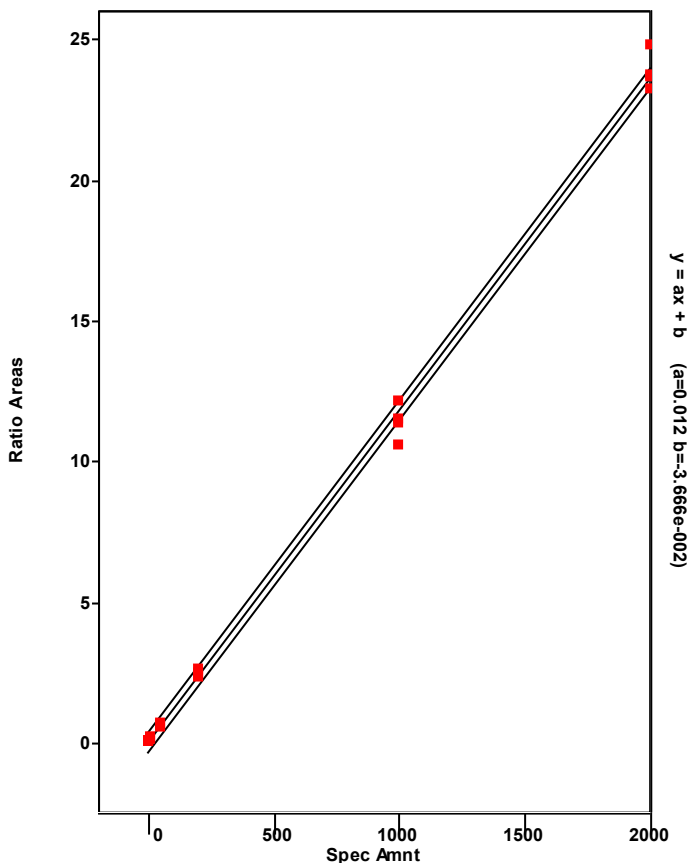


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1856970
RM1 Area	2245986
RM1 Ratio (A)	1.2095
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	58.42
Percent Recovery (A)	117
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

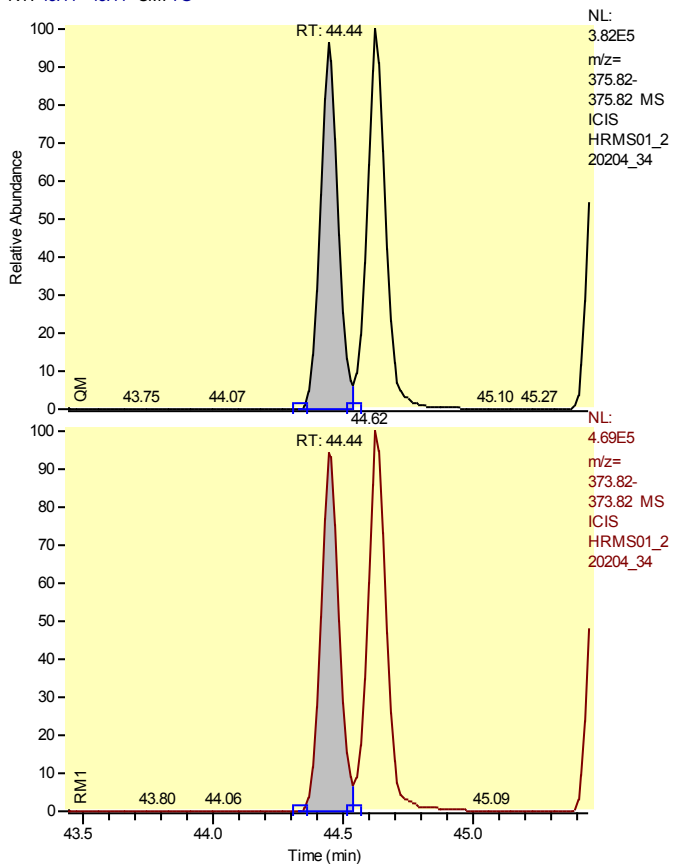
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G

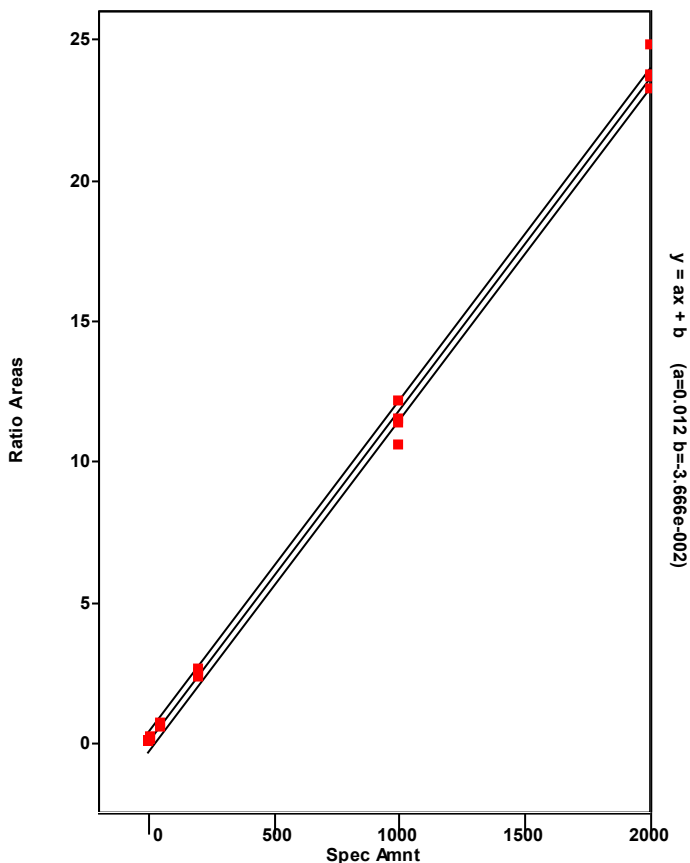


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1761883
RM1 Area	2151806
RM1 Ratio (A)	1.2213
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.73
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

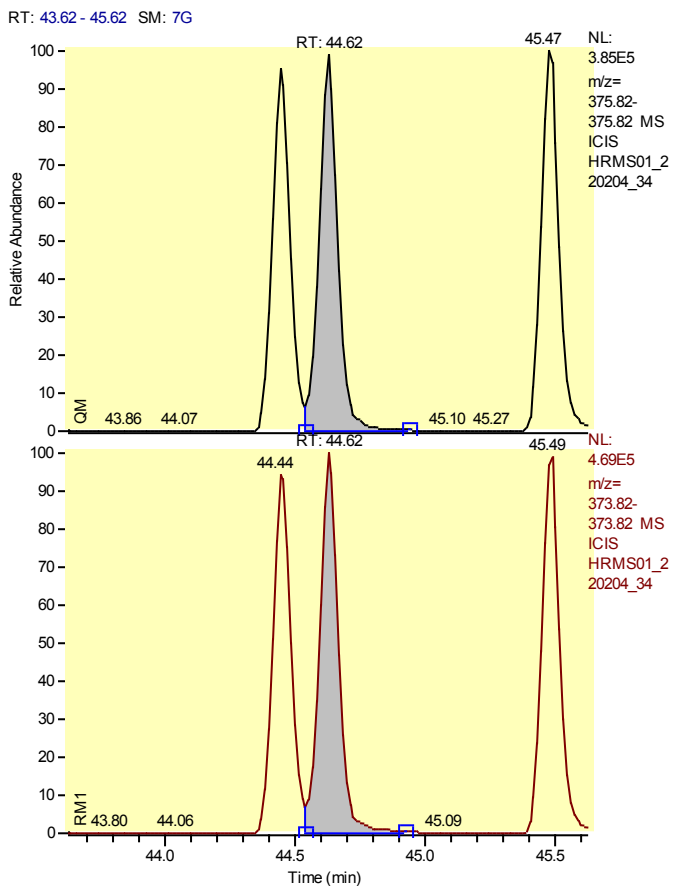
Calibration Points of Total Hexachlorodibenzofuran__2

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

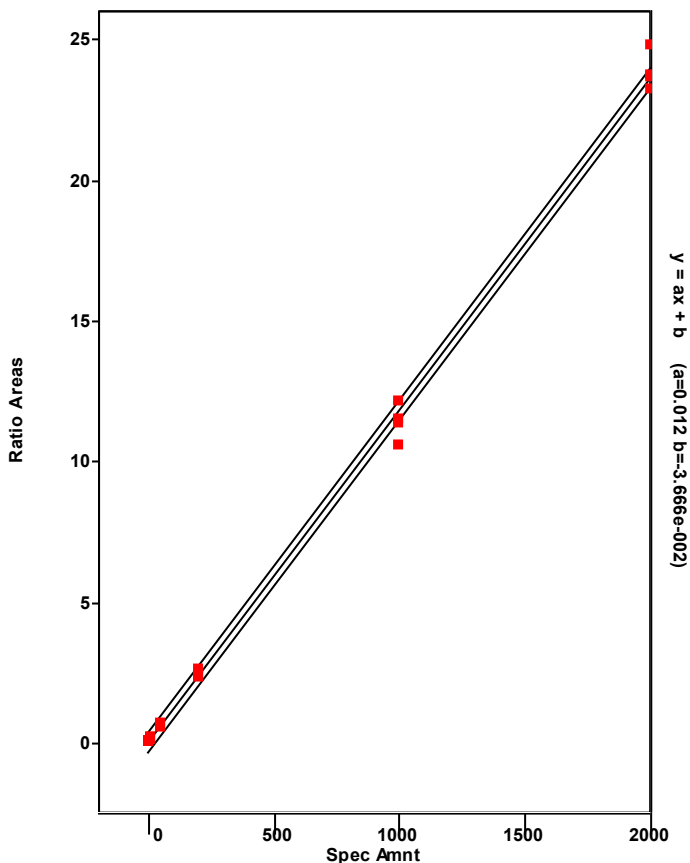


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1885075
RM1 Area	2331432
RM1 Ratio (A)	1.2368
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	60.04
Percent Recovery (A)	120
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

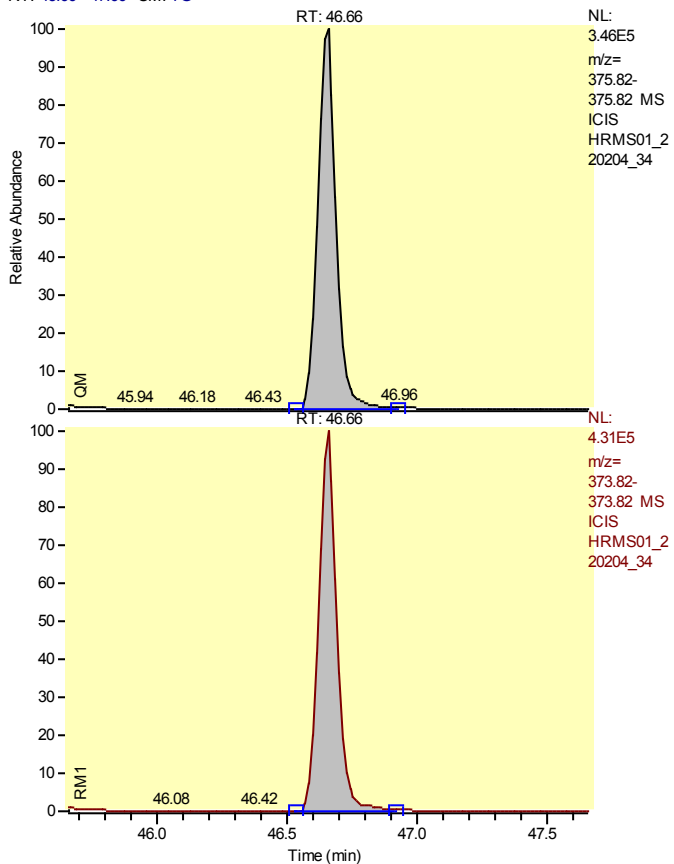
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

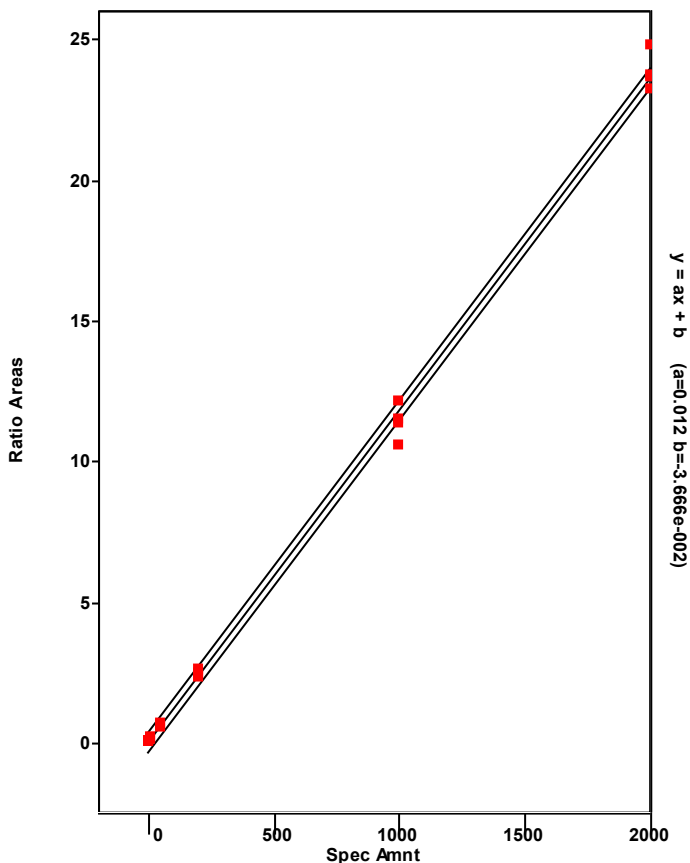


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1696680
RM1 Area	2088117
RM1 Ratio (A)	1.2307
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.89
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

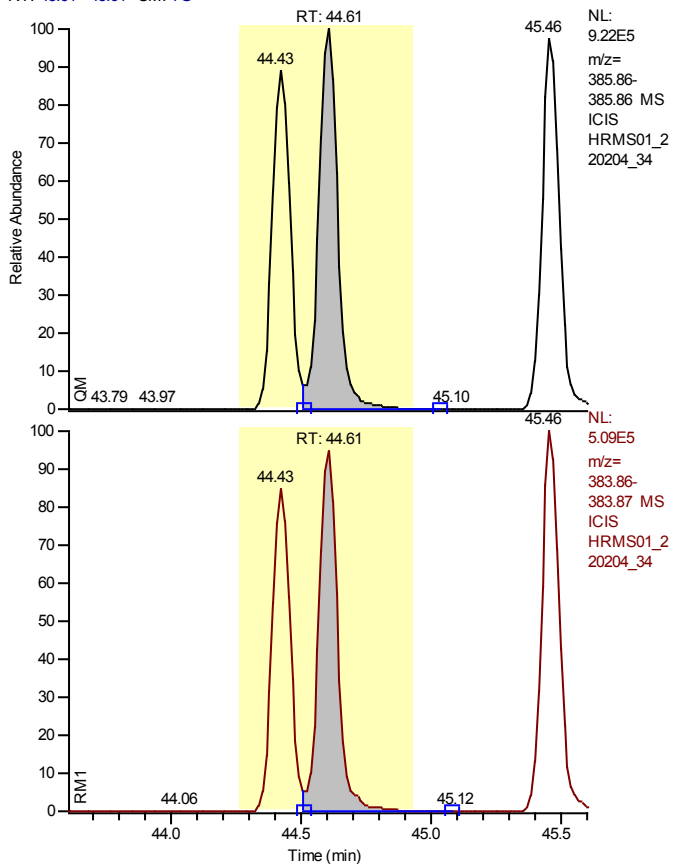
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.61 - 45.61 SM: 7G

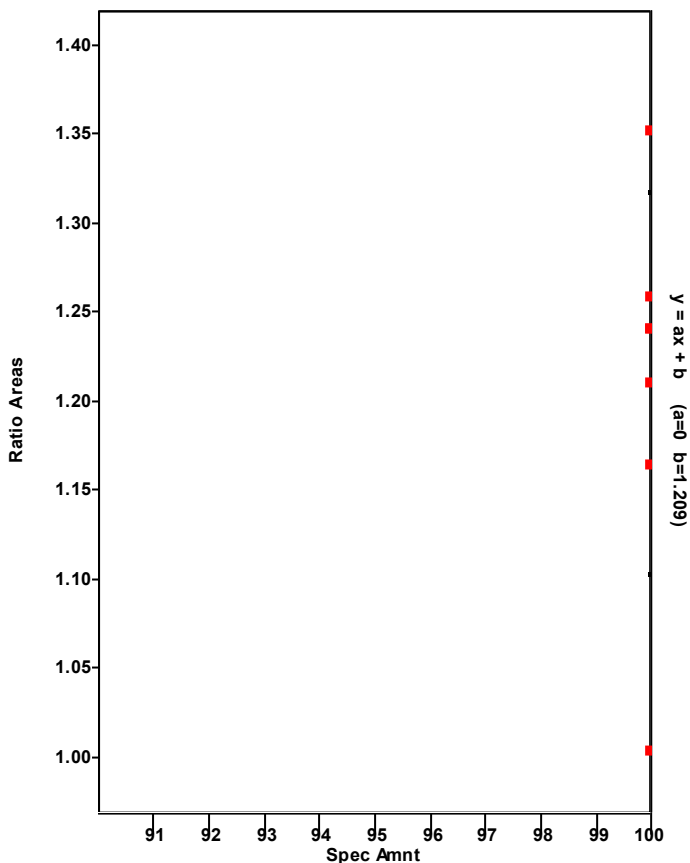


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	4688987
RM1 Area	2460546
RM1 Ratio (A)	0.5247
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	102.53
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

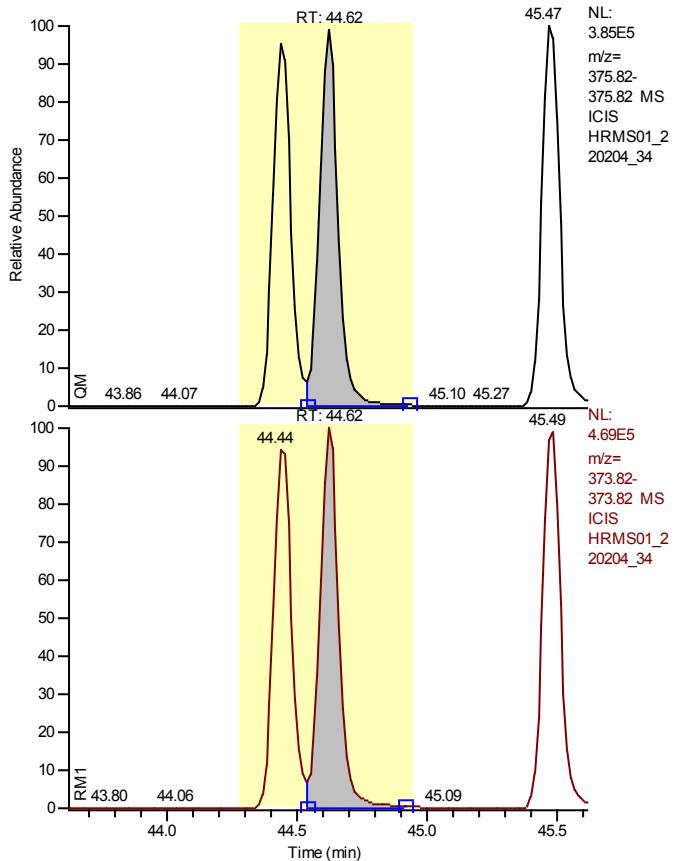
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

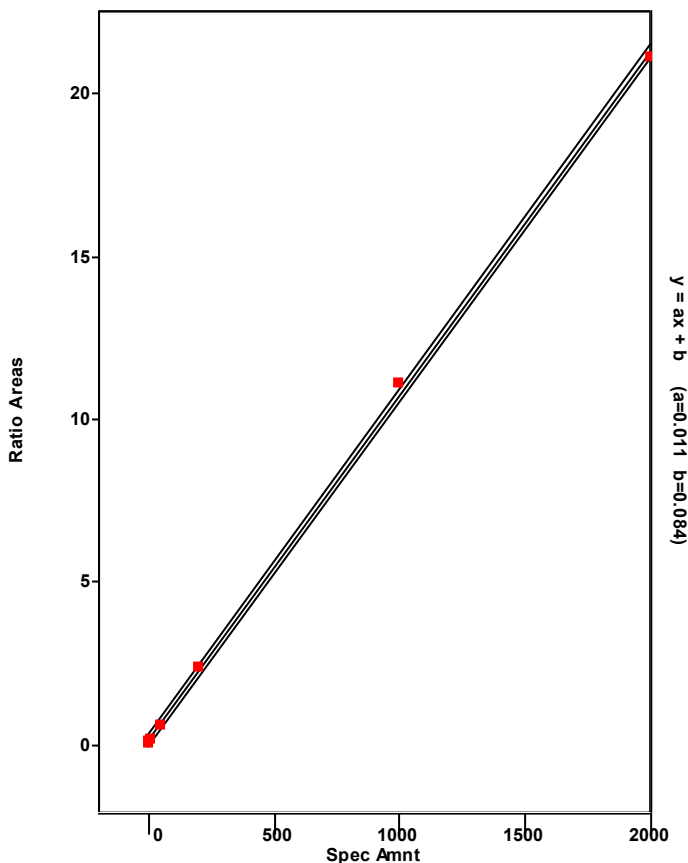


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	1885075
RM1 Area	2331432
RM1 Ratio (A)	1.2368
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.55
Percent Recovery (A)	103
TEQ (A)	5.1550
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

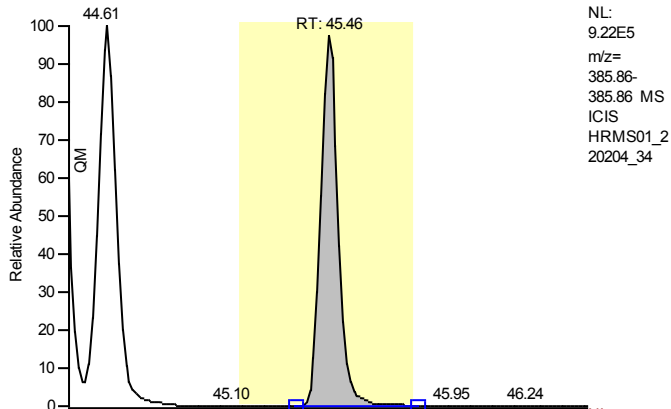
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

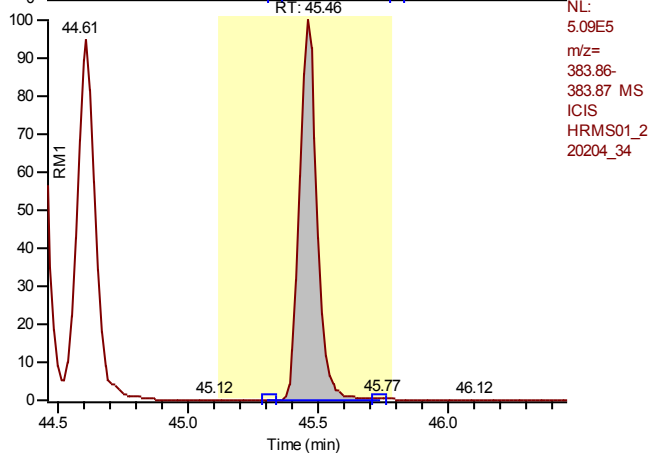
Entry Parameters

RT: 44.46 - 46.46 SM: 7G



NL:
 9.22E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	4268592
RM1 Area	2413839
RM1 Ratio (A)	0.5655
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	98.32
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

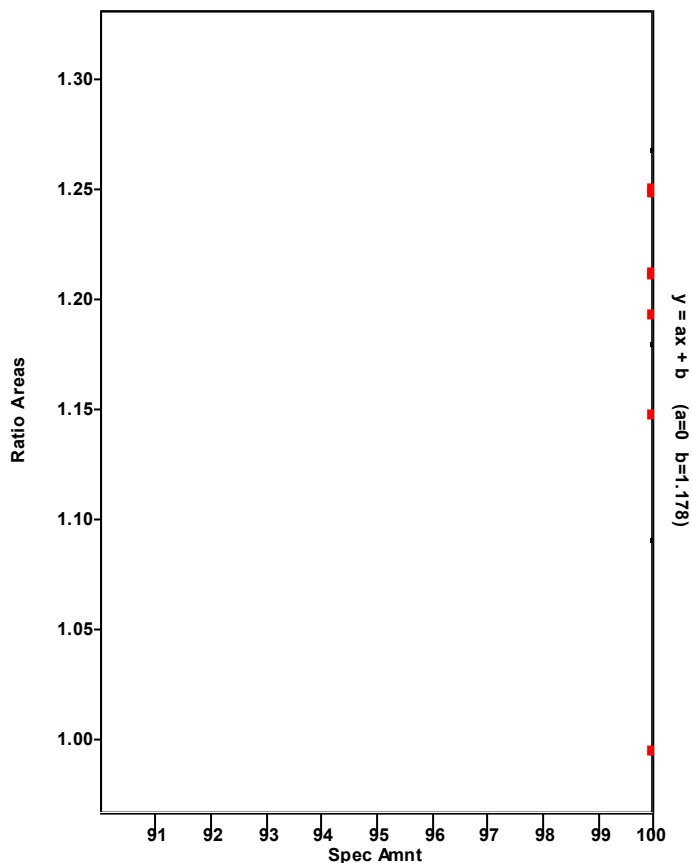


NL:
 5.09E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

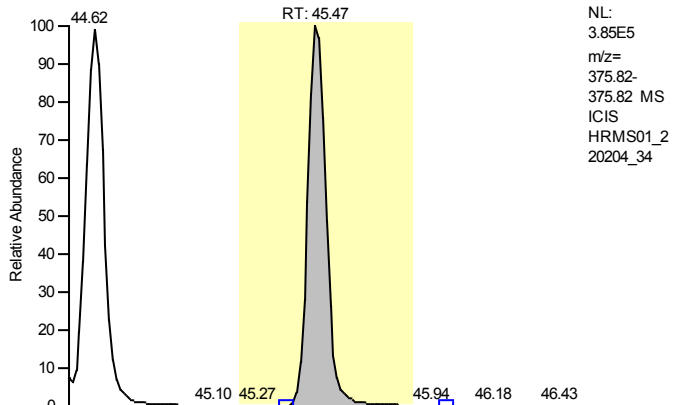
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

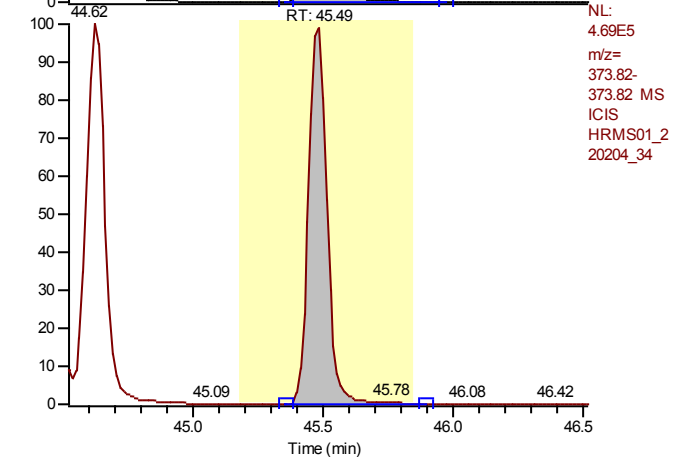
Entry Parameters

RT: 44.52 - 46.52 SM: 7G



NL:
 3.85E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	1856970
RM1 Area	2245986
RM1 Ratio (A)	1.2095
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.45
Percent Recovery (A)	103
TEQ (A)	5.1453
Label2	

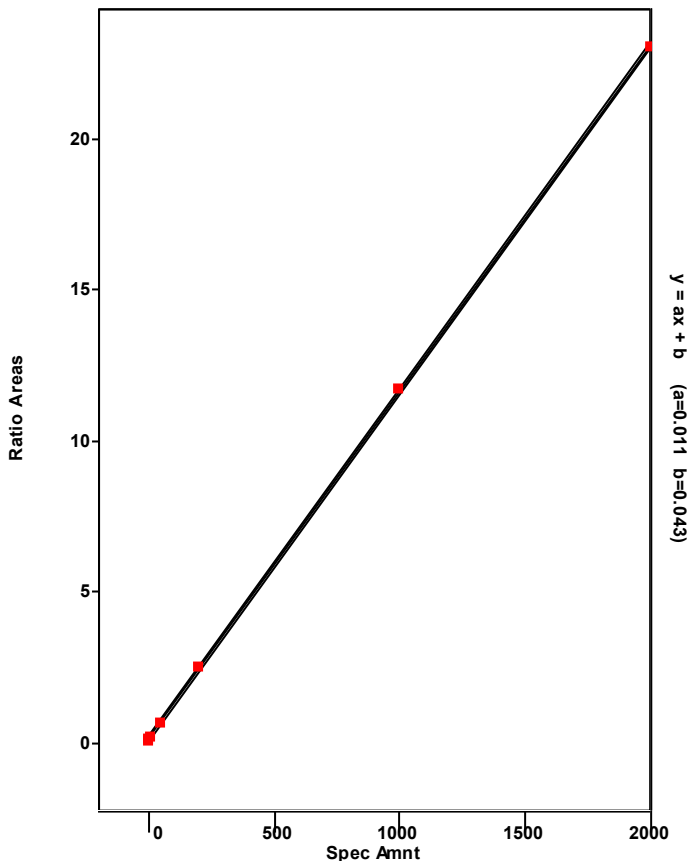


NL:
 4.69E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

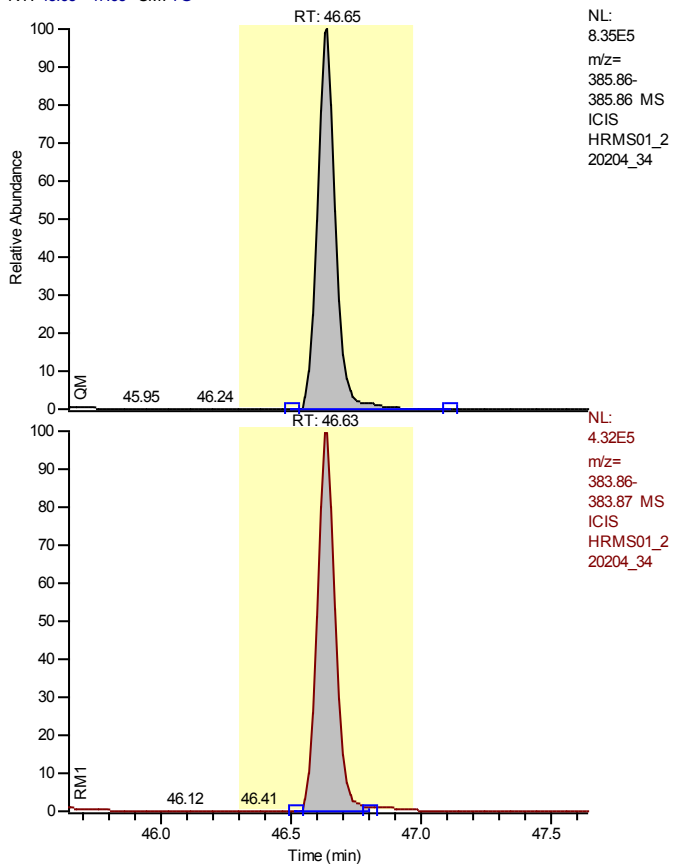
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G



NL:
 8.35E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20204_34

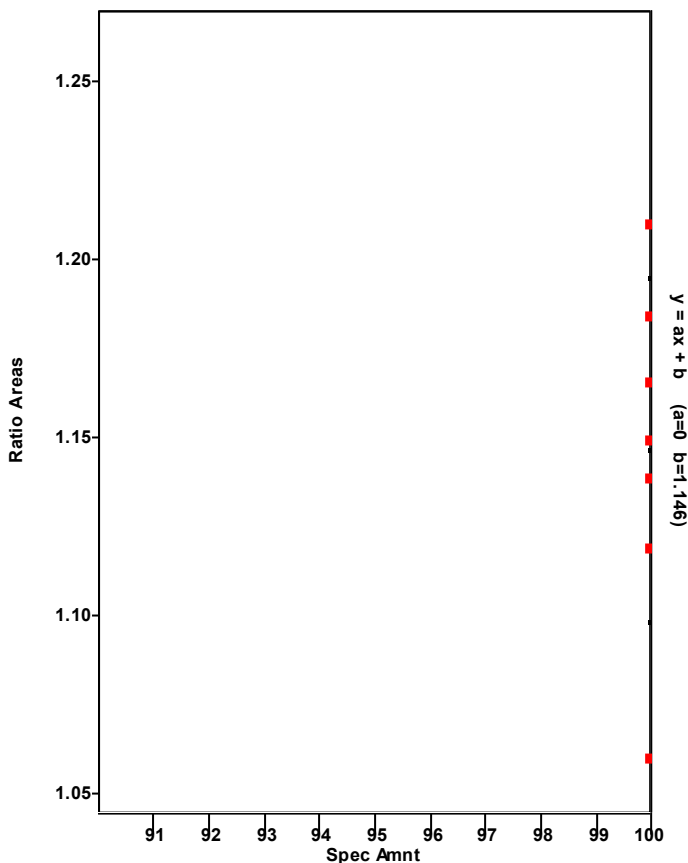
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	4118926
RM1 Area	2093228
RM1 Ratio (A)	0.5082
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	93.97
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

NL:
 4.32E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

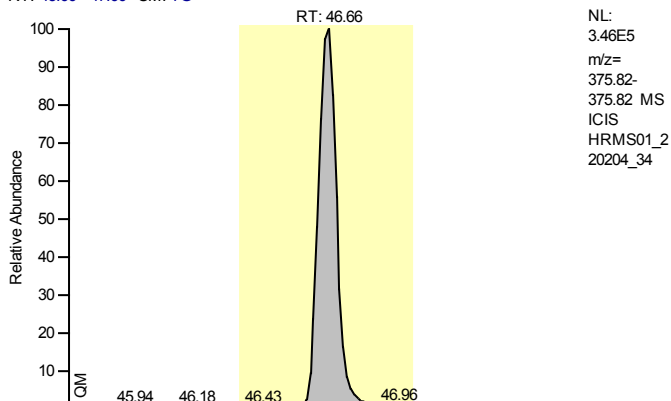
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



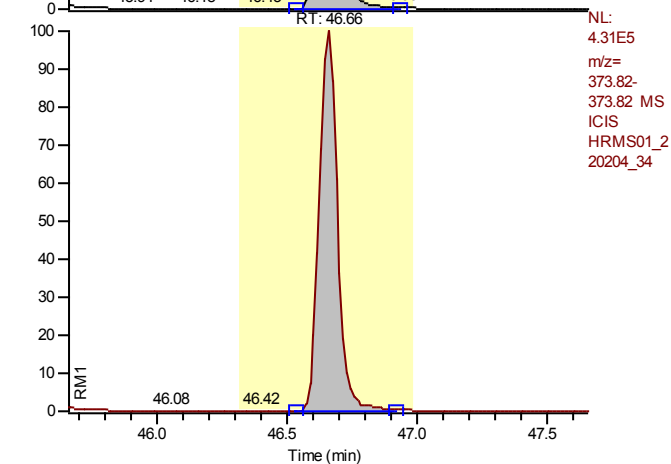
Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



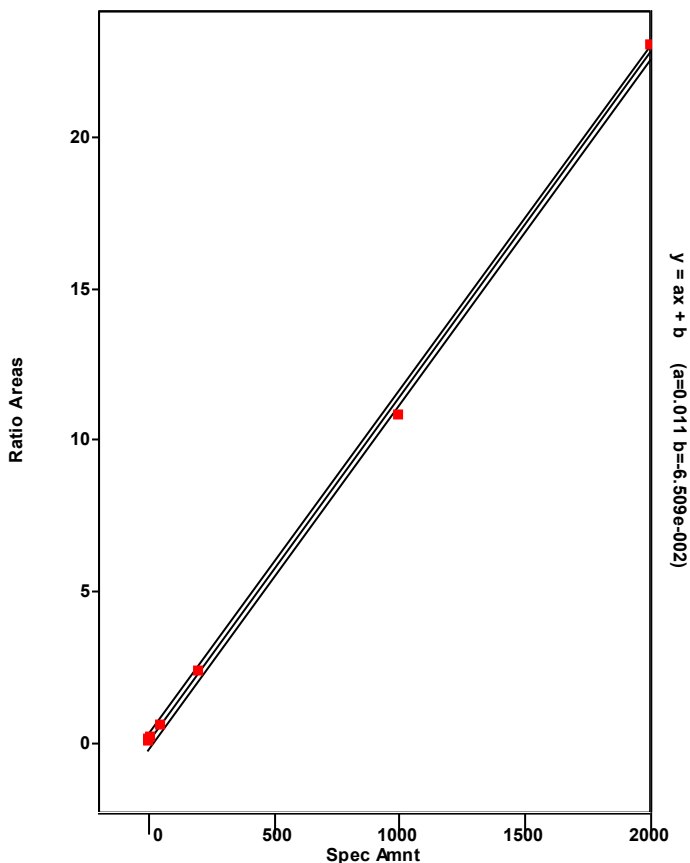
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	1696680
RM1 Area	2088117
RM1 Ratio (A)	1.2307
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.41
Percent Recovery (A)	109
TEQ (A)	5.4414
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

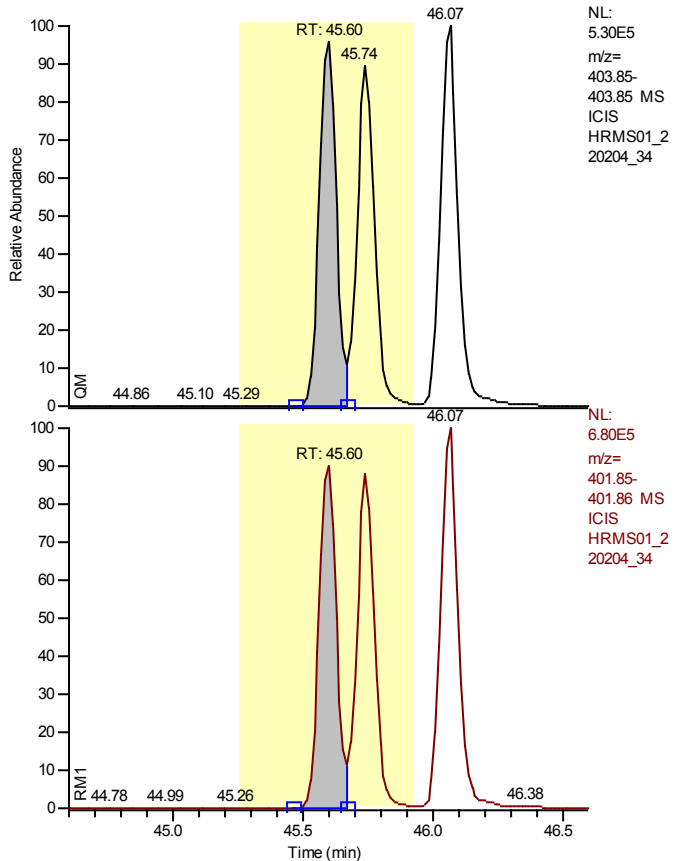
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

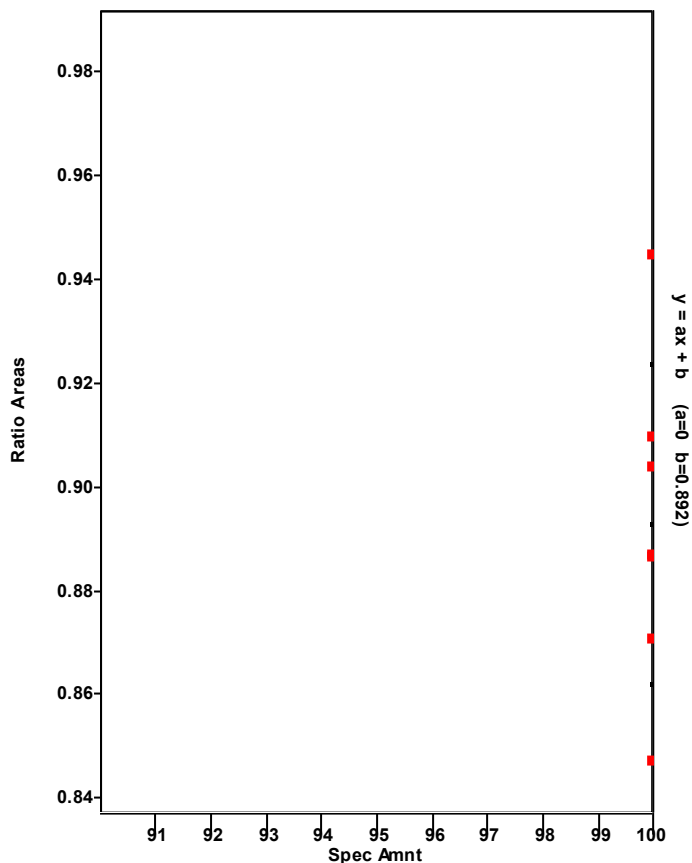
RT: 44.60 - 46.60 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	2310839
RM1 Area	2829493
RM1 Ratio (A)	1.2244
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	99.84
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

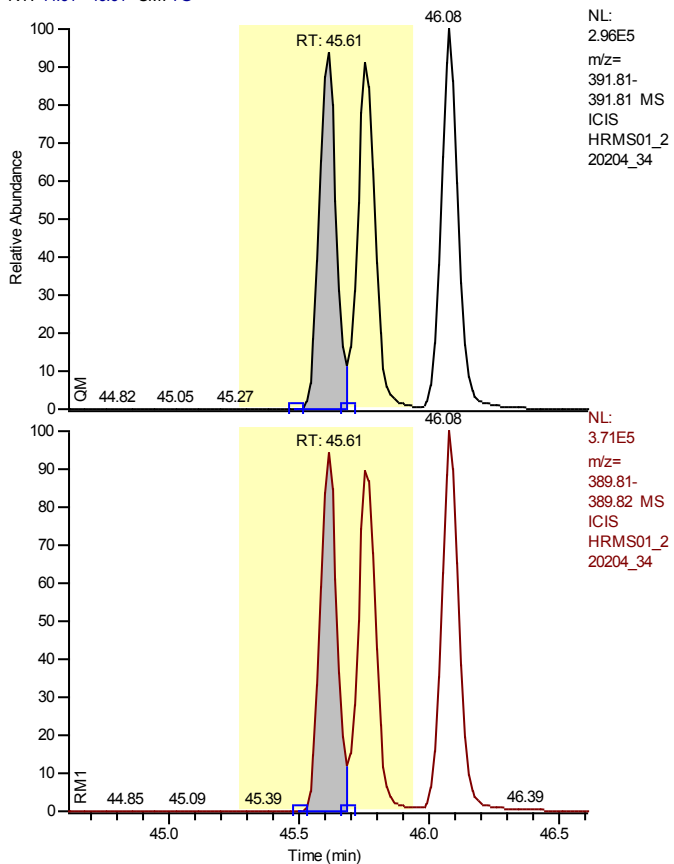
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G

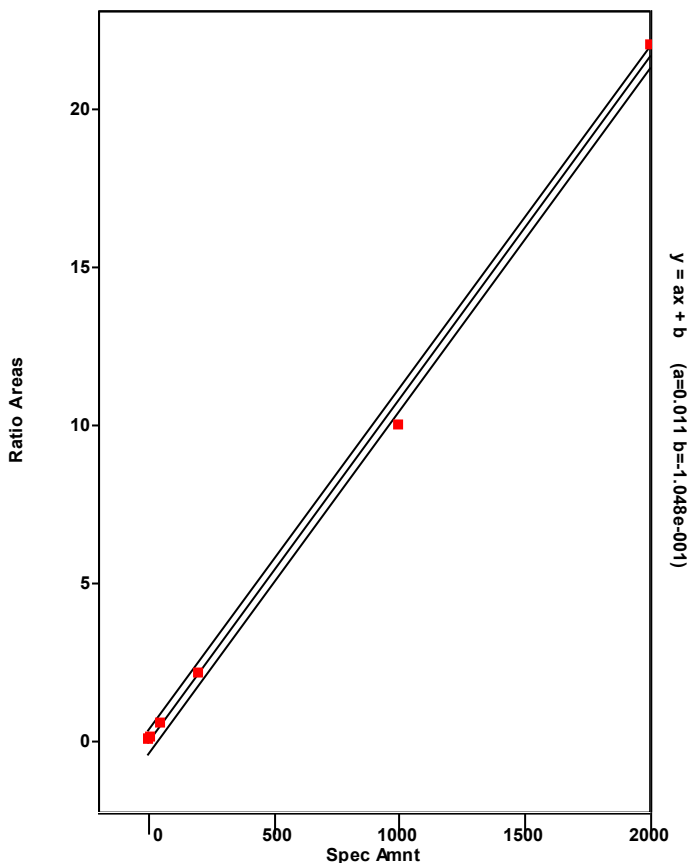


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	1262118
RM1 Area	1579918
RM1 Ratio (A)	1.2518
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.06
Percent Recovery (A)	106
TEQ (A)	5.3062
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

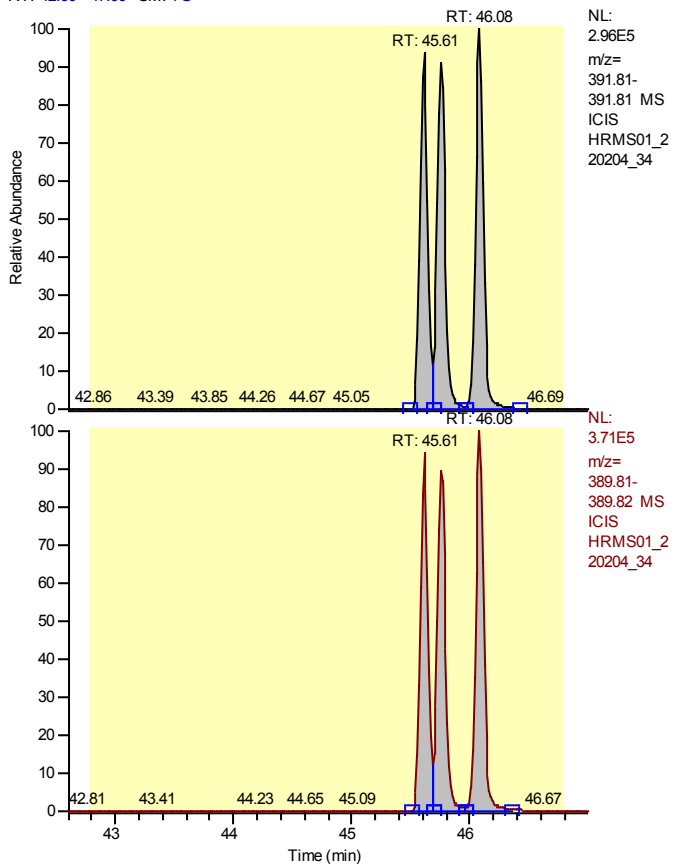
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.60 - 47.00 SM: 7G

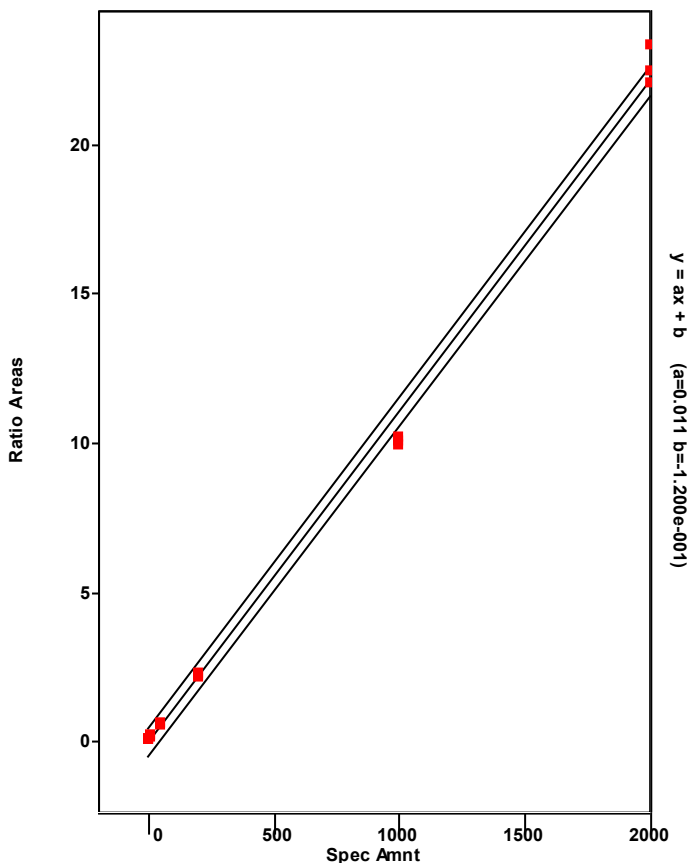


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	3922152
RM1 Area	4961848
RM1 Ratio (A)	1.2651
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	158.75
Percent Recovery (A)	317
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

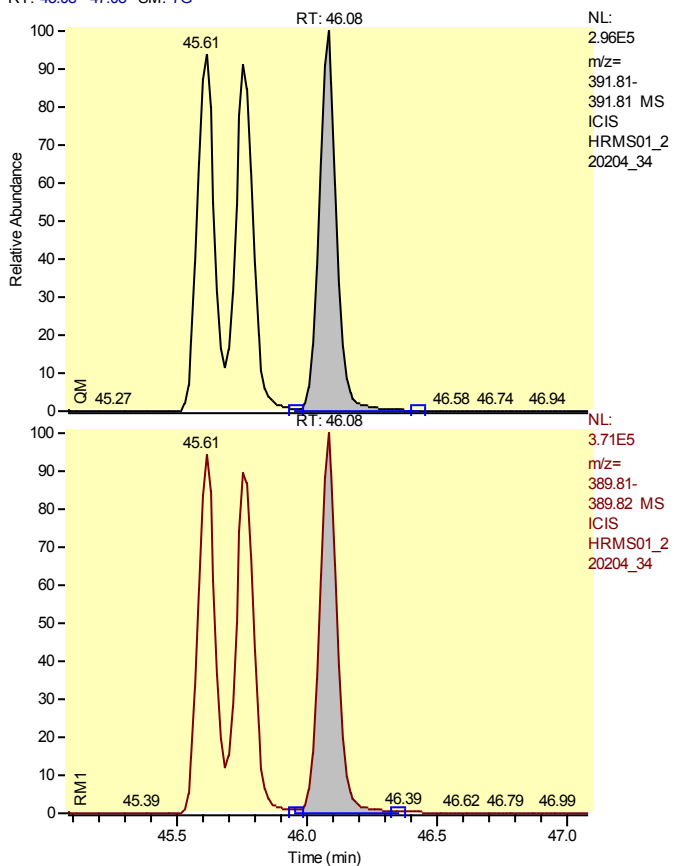
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.08 - 47.08 SM: 7G



NL:
2.96E5
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_34

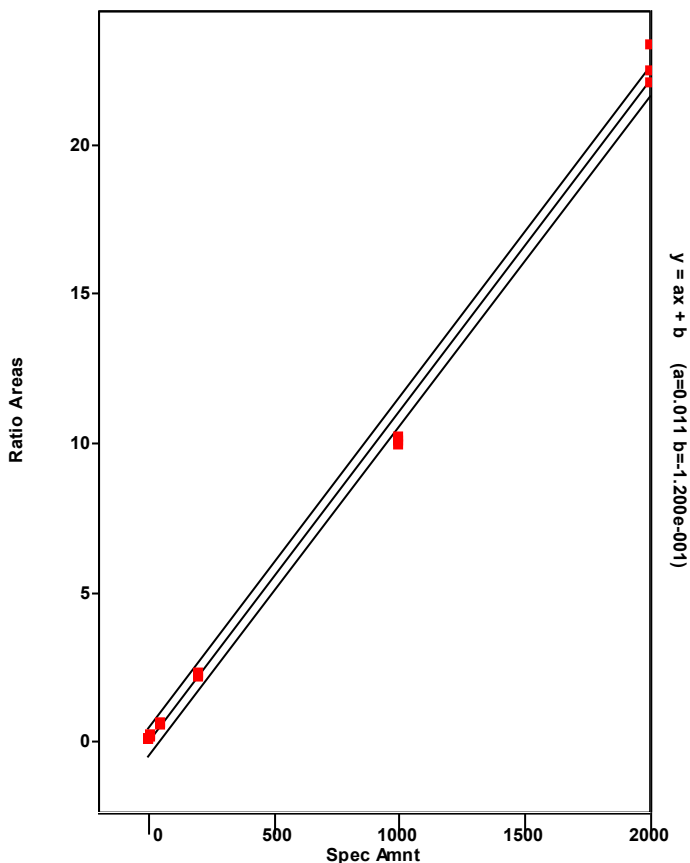
NL:
3.71E5
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_34

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1372321
RM1 Area	1757123
RM1 Ratio (A)	1.2804
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	55.92
Percent Recovery (A)	112
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

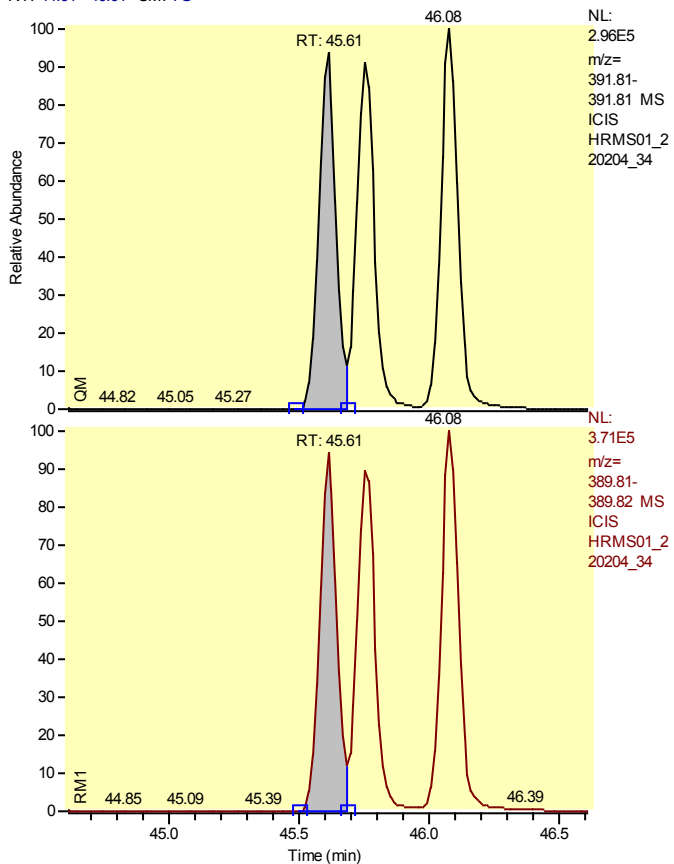
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G

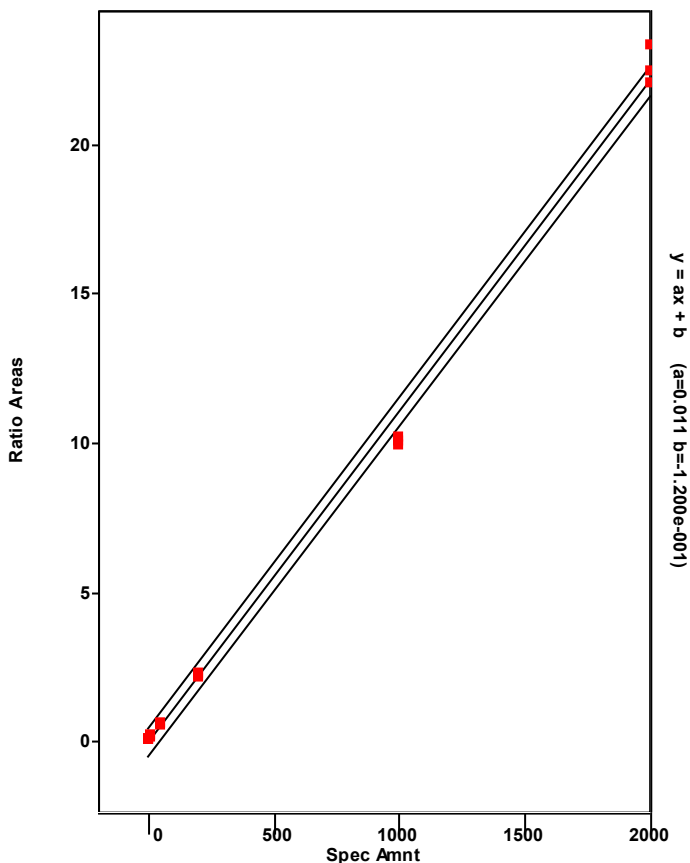


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1262118
RM1 Area	1579918
RM1 Ratio (A)	1.2518
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.78
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

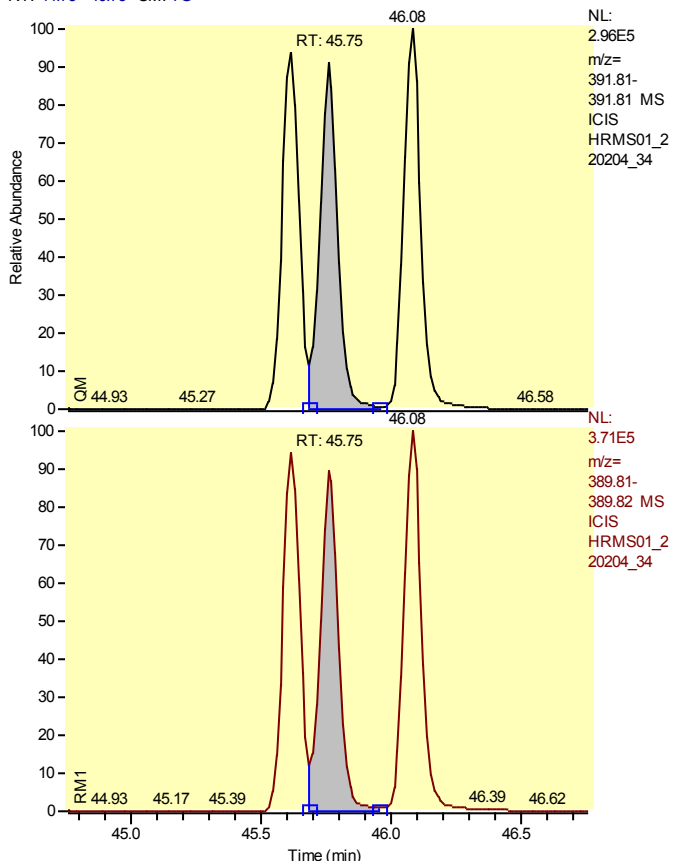
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.75-46.75 SM: 7G

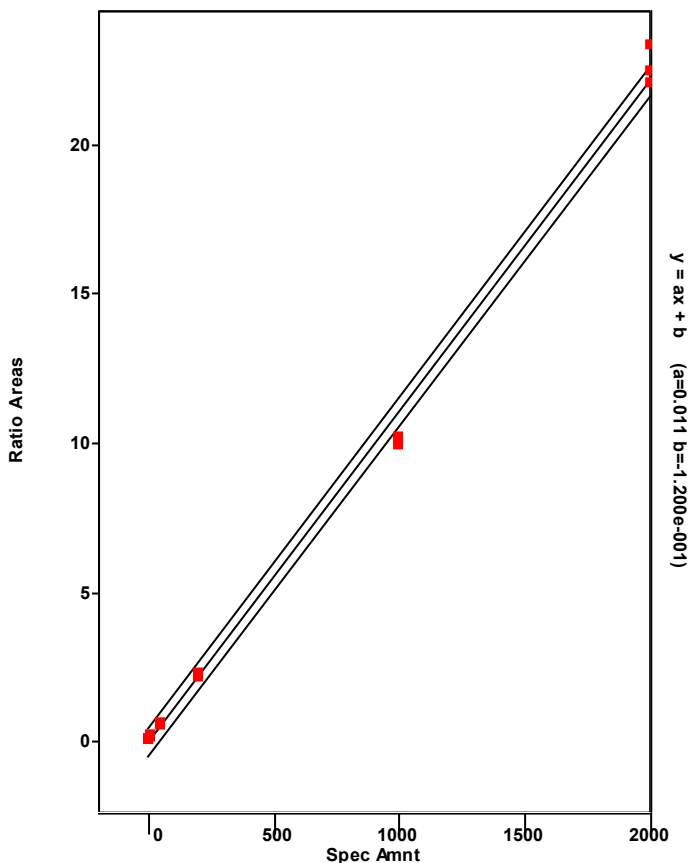


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1287712
RM1 Area	1624807
RM1 Ratio (A)	1.2618
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	52.04
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

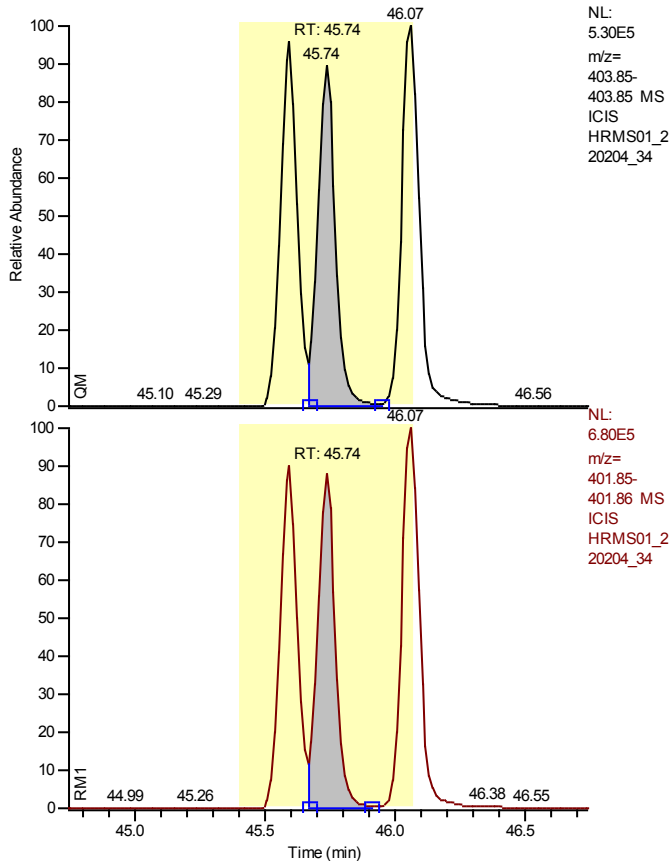
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

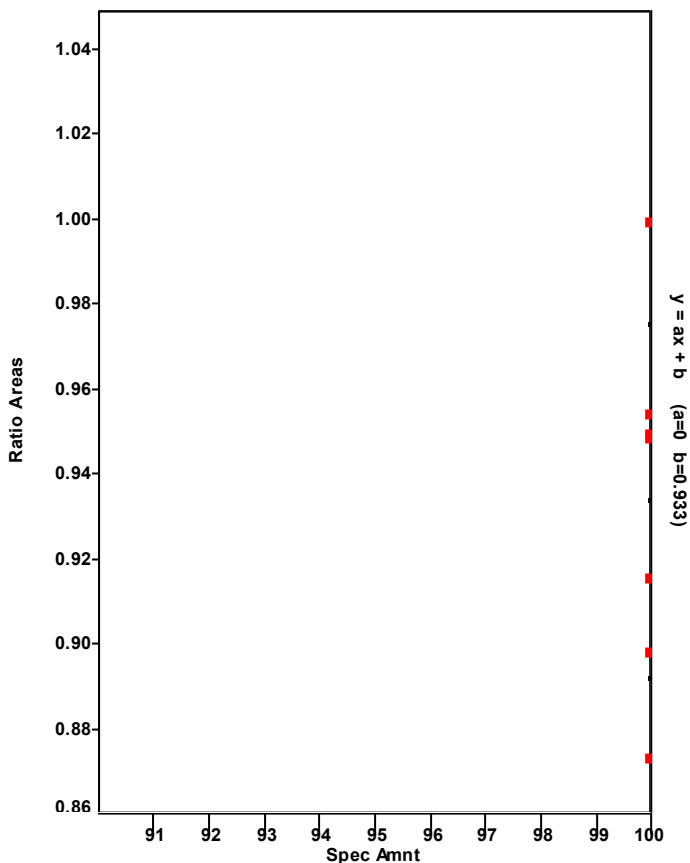
RT: 44.75-46.75 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	2247696
RM1 Area	2811217
RM1 Ratio (A)	1.2507
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	93.95
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

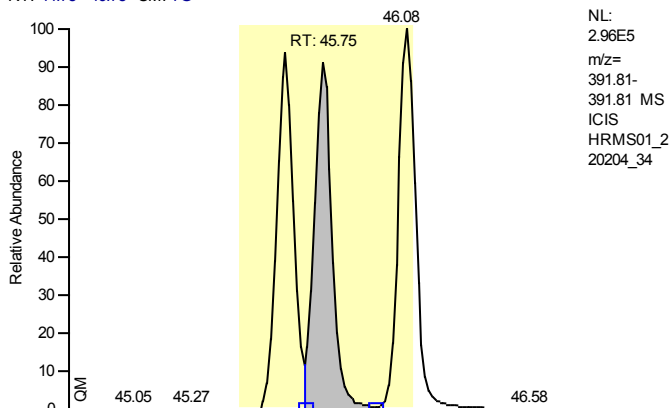
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

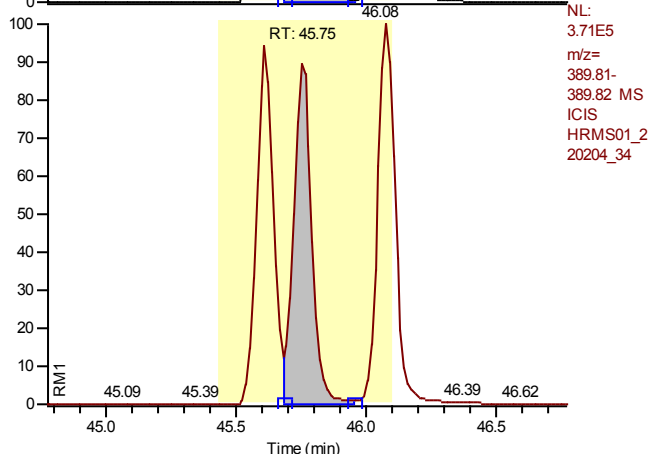
Entry Parameters

RT: 44.78 - 46.78 SM: 7G



NL:
2.96E5
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20204_34

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	1287712
RM1 Area	1624807
RM1 Ratio (A)	1.2618
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.20
Percent Recovery (A)	108
TEQ (A)	5.4197
Label2	

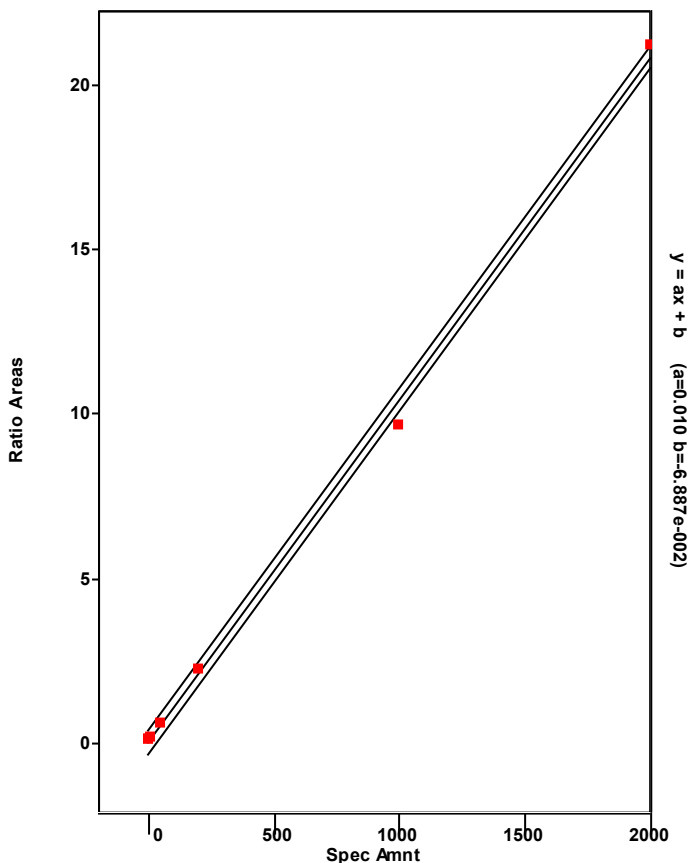


NL:
3.71E5
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20204_34

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

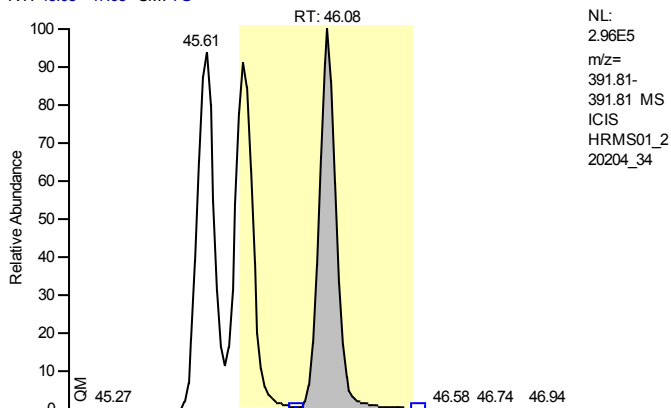
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

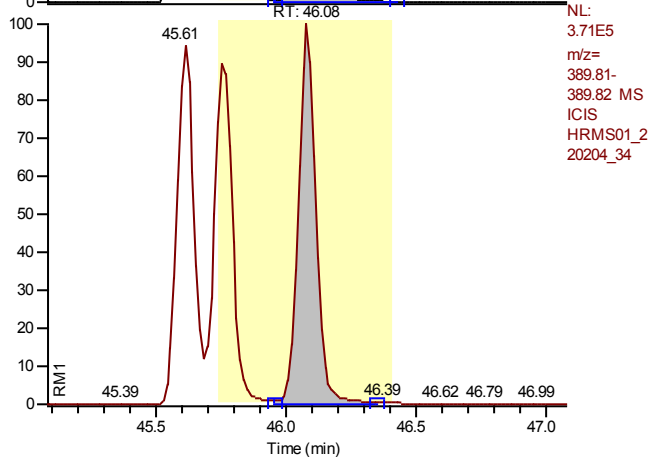
Entry Parameters

RT: 45.08 - 47.08 SM: 7G



NL:
 2.96E5
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	1372321
RM1 Area	1757123
RM1 Ratio (A)	1.2804
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	58.14
Percent Recovery (A)	116
TEQ (A)	5.8142
Label2	

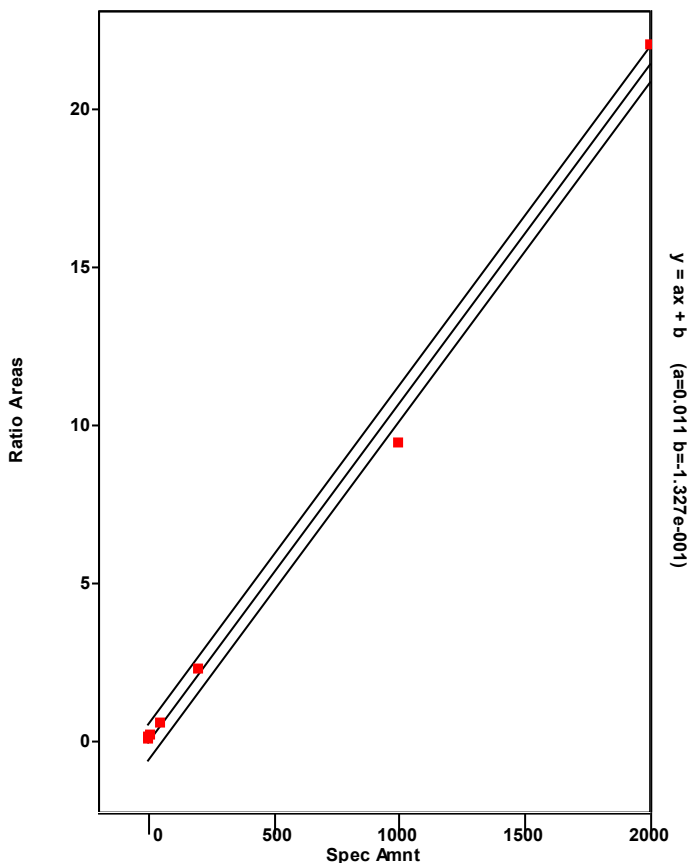


NL:
 3.71E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

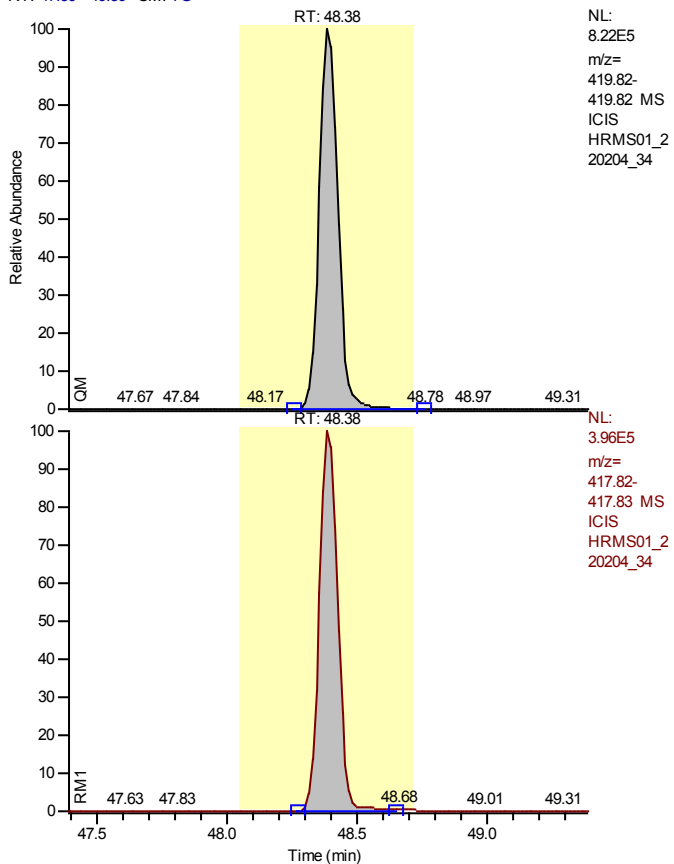
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

Entry Parameters

RT: 47.39 - 49.39 SM: 7G



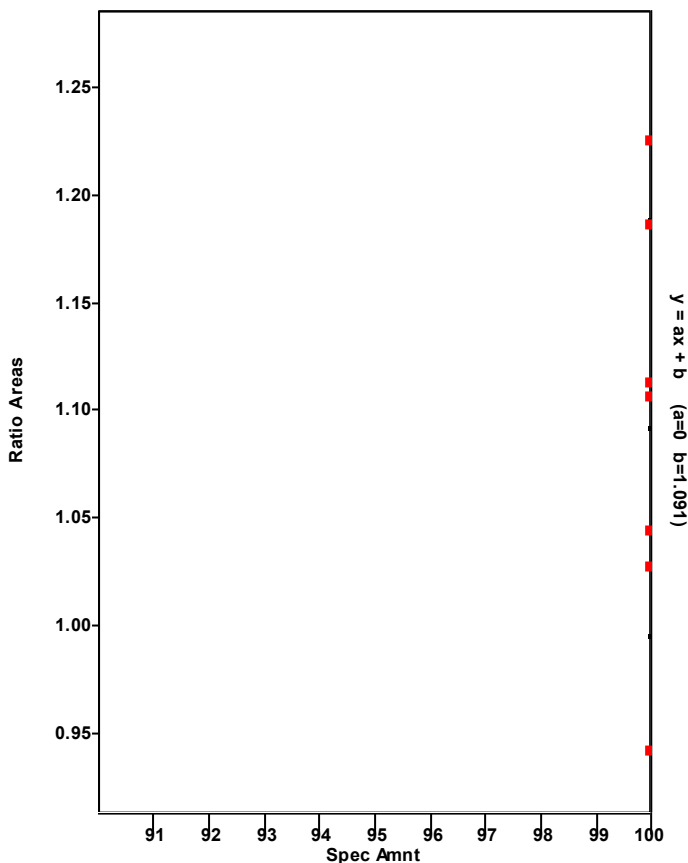
NL:
 8.22E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20204_34

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	4102176
RM1 Area	1934397
RM1 Ratio (A)	0.4716
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	95.93
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

NL:
 3.96E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20204_34

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

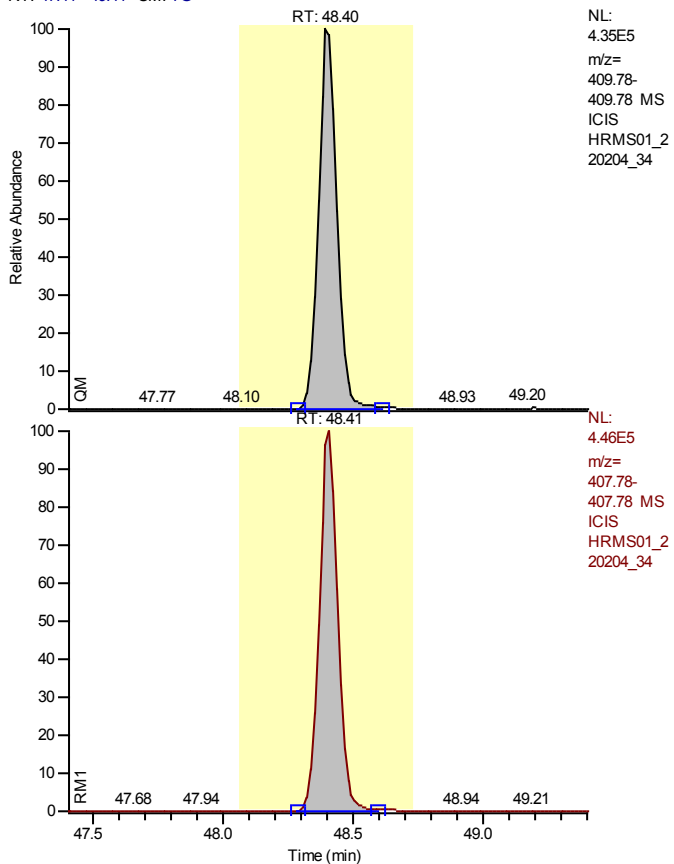
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G



NL:
4.35E5
m/z=
409.78-
409.78 MS
ICIS
HRMS01_2
20204_34

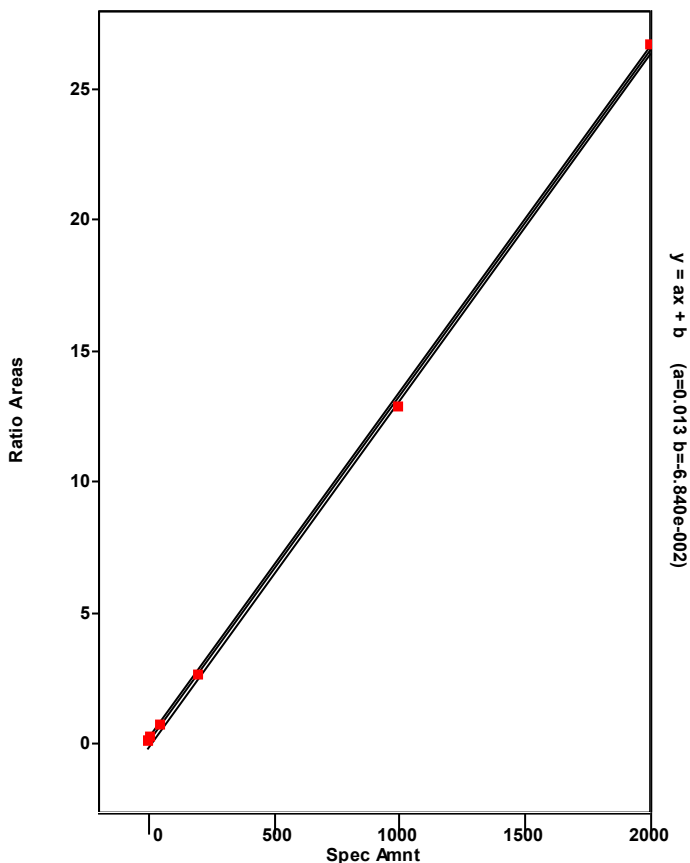
NL:
4.46E5
m/z=
407.78-
407.78 MS
ICIS
HRMS01_2
20204_34

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	2156156
RM1 Area	2199876
RM1 Ratio (A)	1.0203
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	56.10
Percent Recovery (A)	112
TEQ (A)	0.5610
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

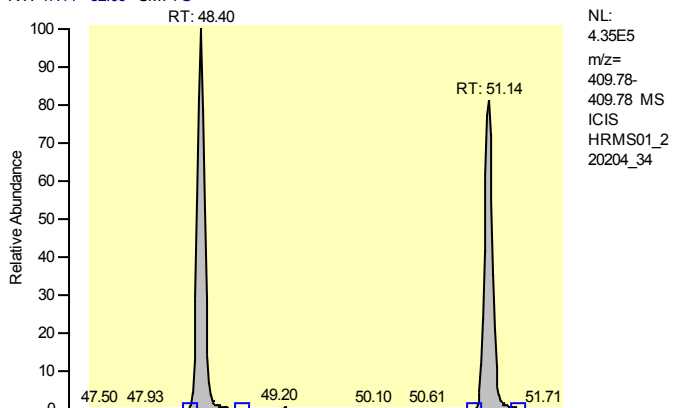
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



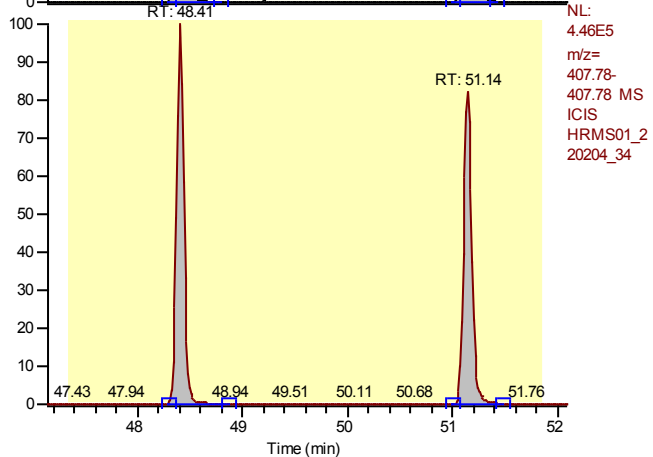
Chromatogram

Entry Parameters

RT: 47.14 - 52.09 SM: 7G



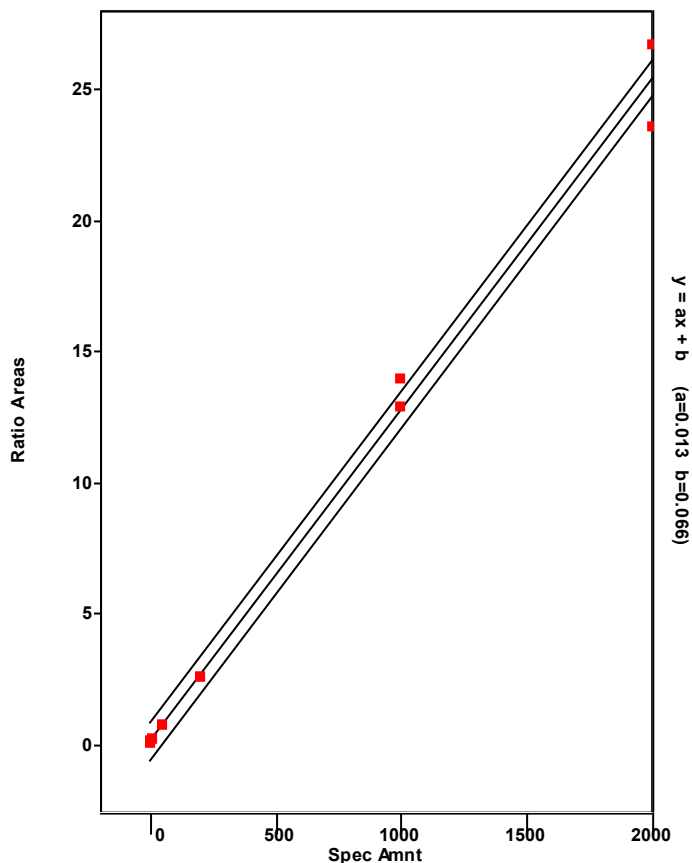
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	4114058
RM1 Area	4238631
RM1 Ratio (A)	1.0303
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	110.58
Percent Recovery (A)	221
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

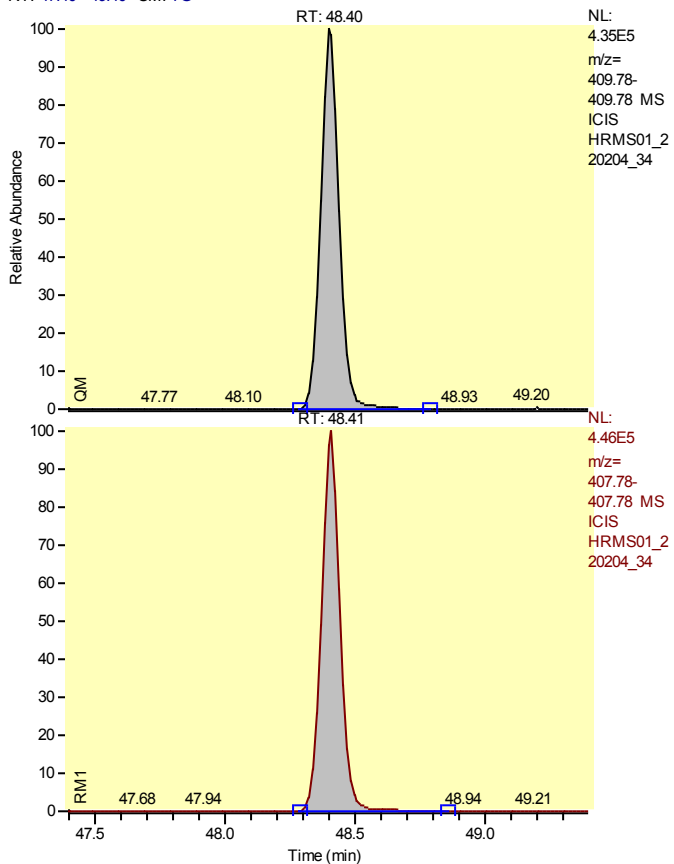
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

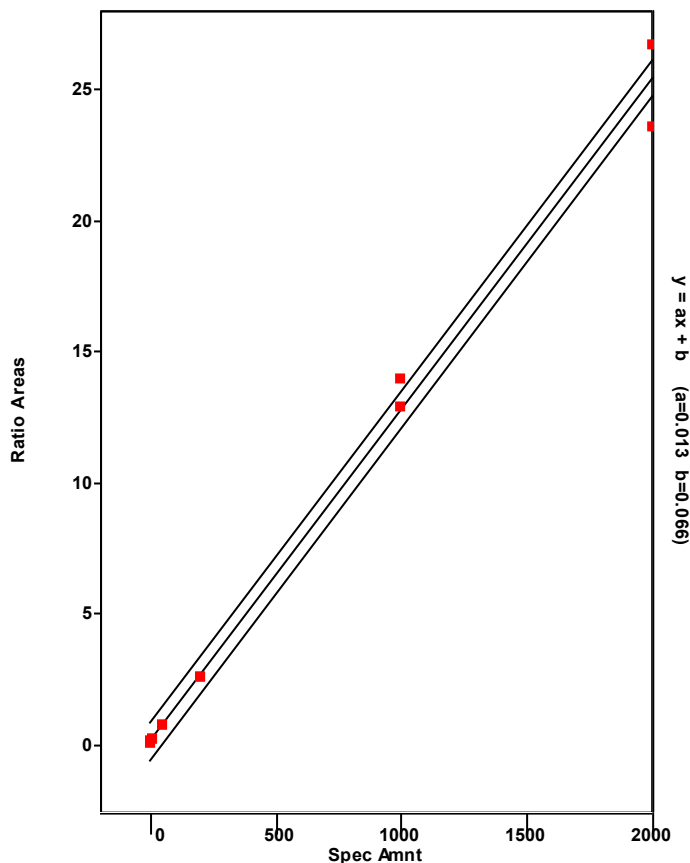


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	2175014
RM1 Area	2223999
RM1 Ratio (A)	1.0225
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	58.24
Percent Recovery (A)	116
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

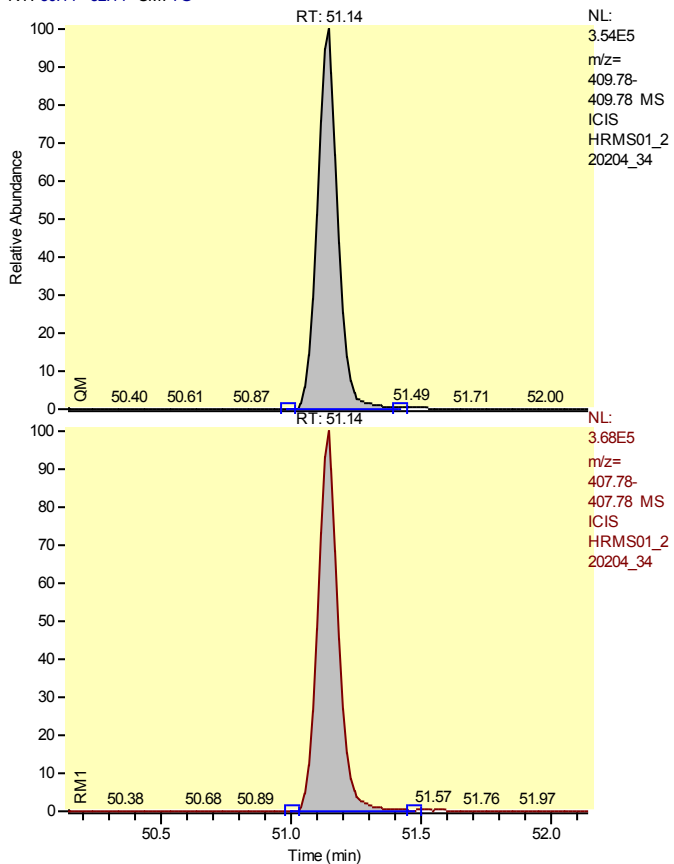
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

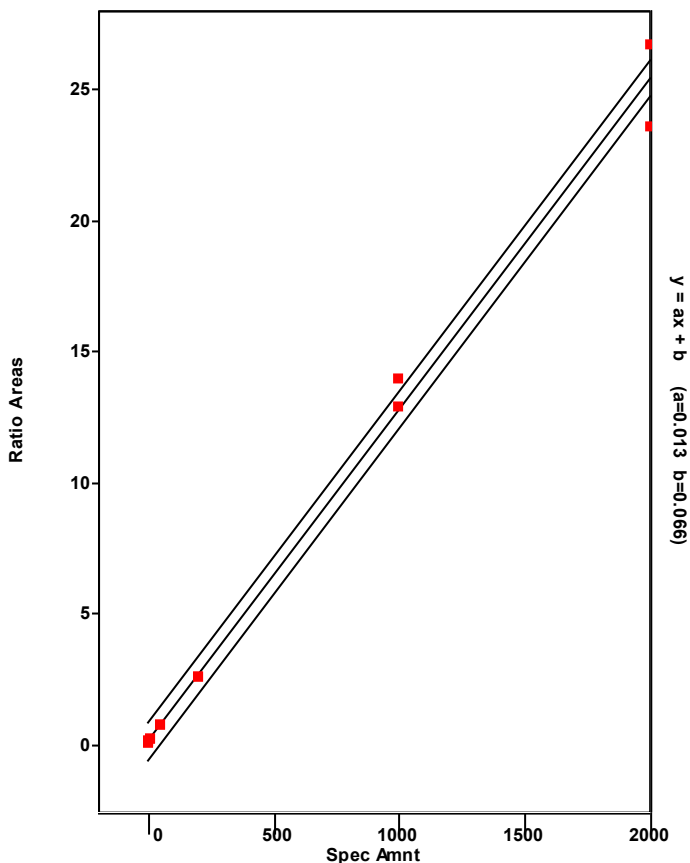


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1939044
RM1 Area	2014632
RM1 Ratio (A)	1.0390
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	52.34
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

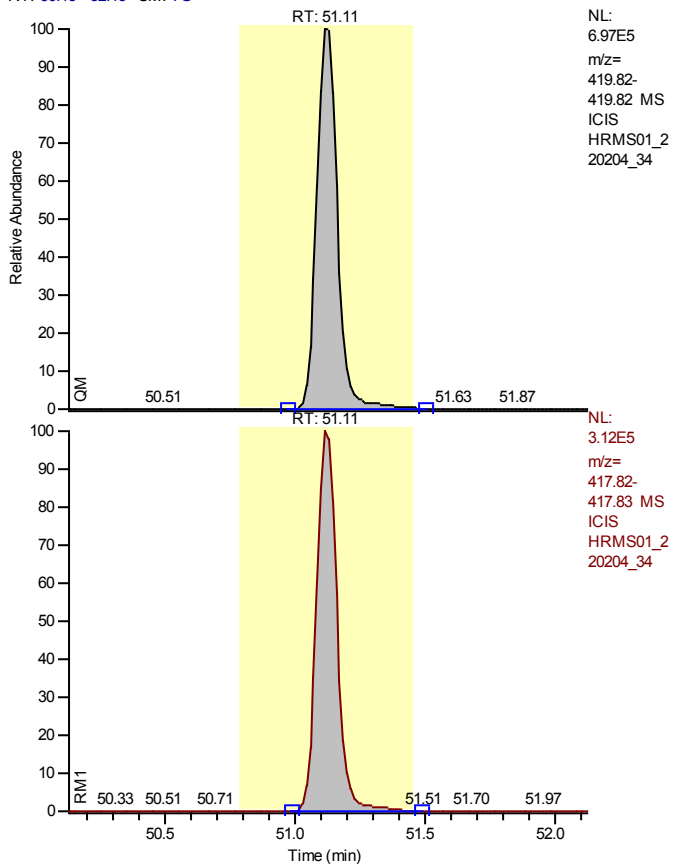
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

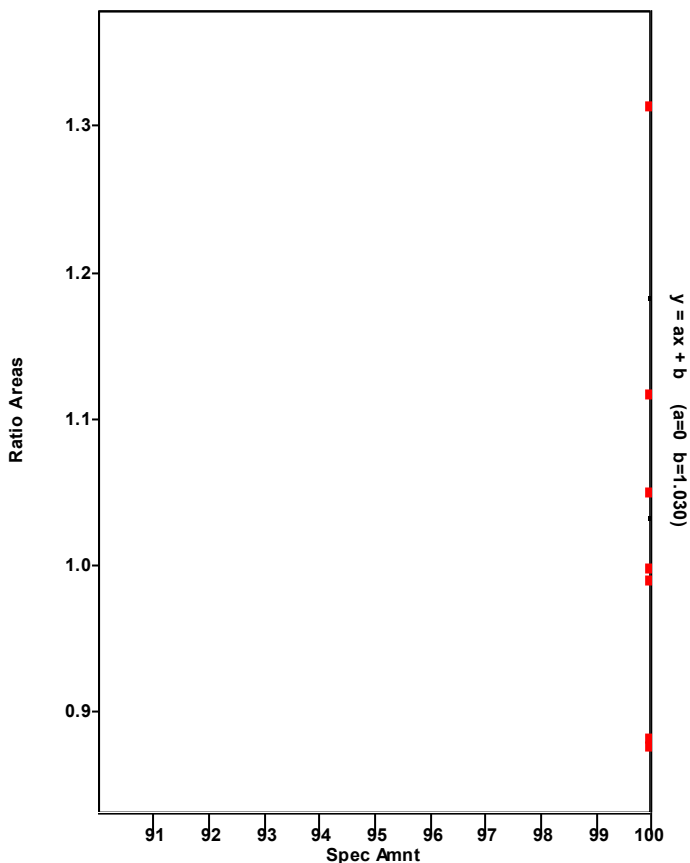
RT: 50.13 - 52.13 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	3844122
RM1 Area	1704696
RM1 Ratio (A)	0.4435
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	93.35
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

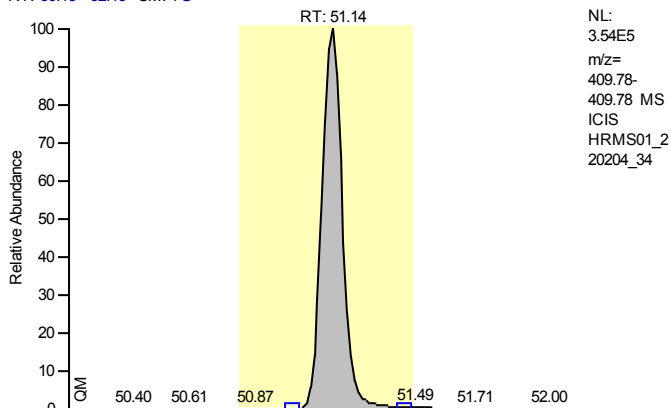
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



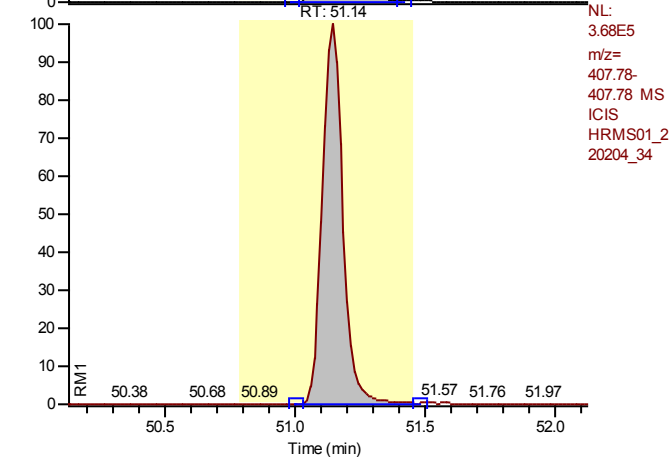
Chromatogram

Entry Parameters

RT: 50.13 - 52.13 SM: 7G



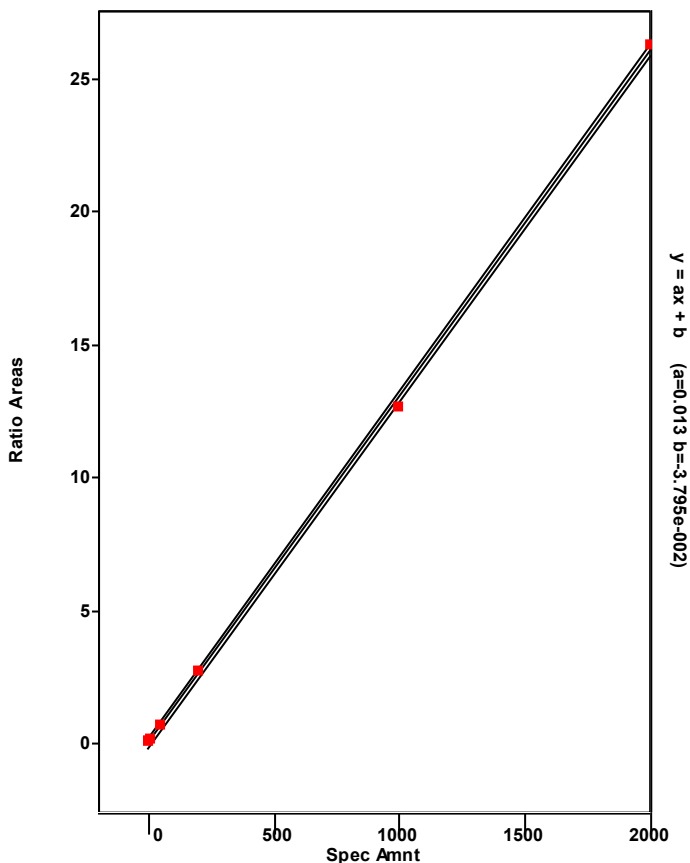
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	1939044
RM1 Area	2014632
RM1 Ratio (A)	1.0390
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.23
Percent Recovery (A)	110
TEQ (A)	0.5523
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

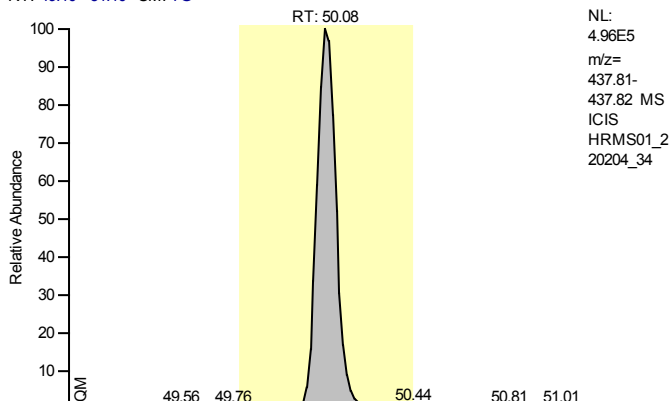
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



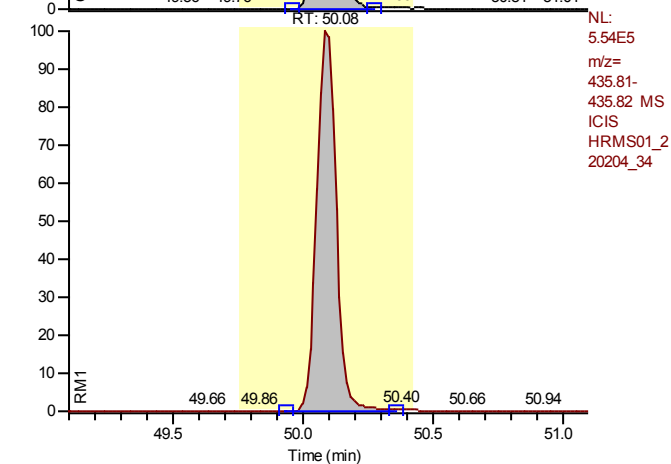
Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

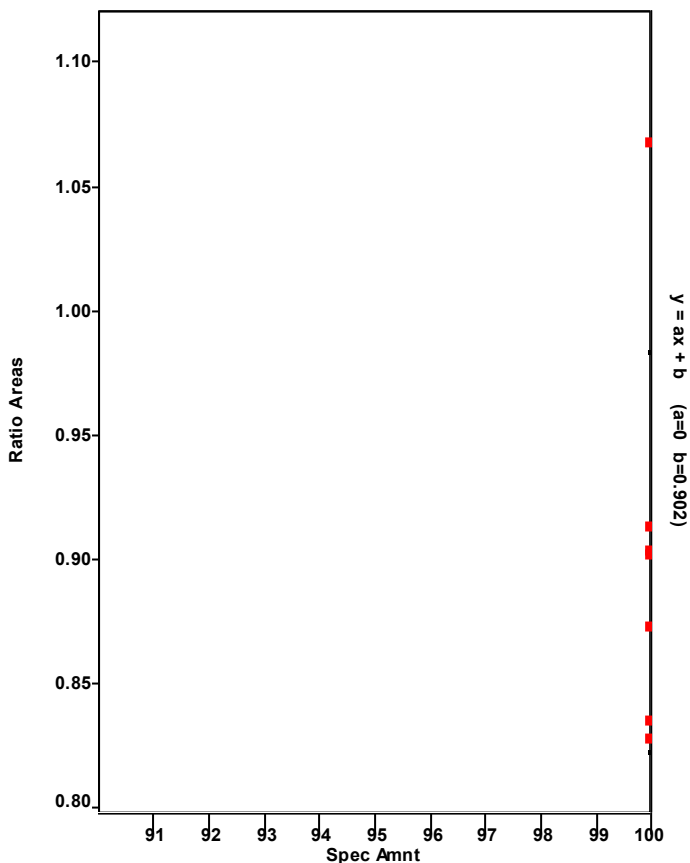


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2545254
RM1 Area	2874588
RM1 Ratio (A)	1.1294
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	104.16
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

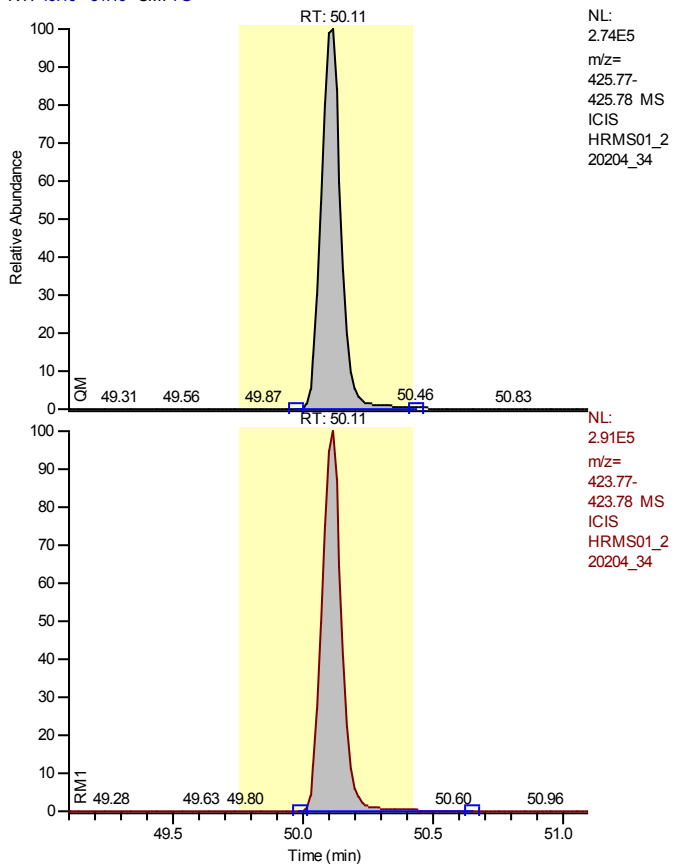
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G



NL:
 2.74E5
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20204_34

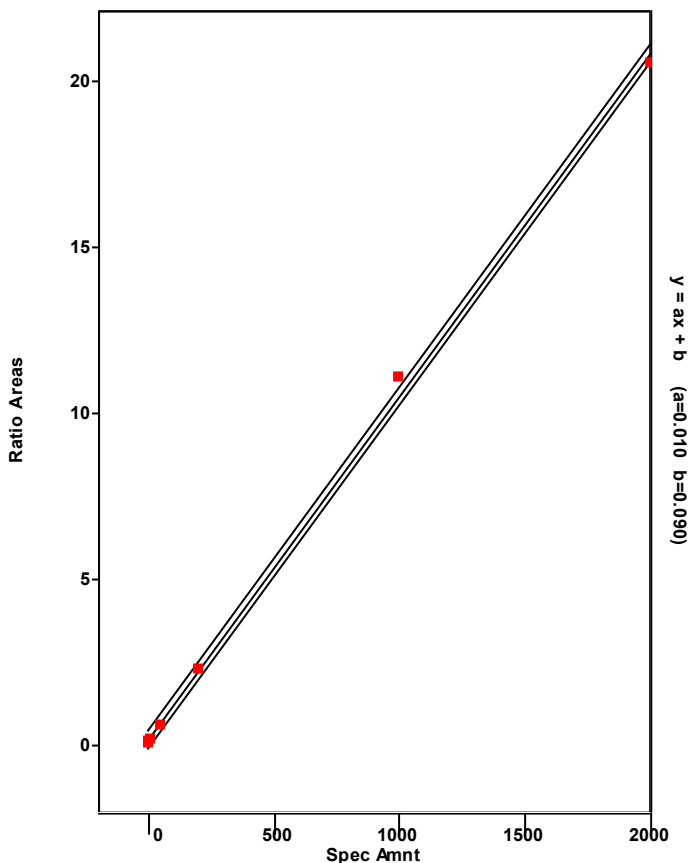
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1456189
RM1 Area	1540294
RM1 Ratio (A)	1.0578
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.23
Percent Recovery (A)	102
TEQ (A)	0.5123
Label2	

NL:
 2.91E5
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20204_34

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

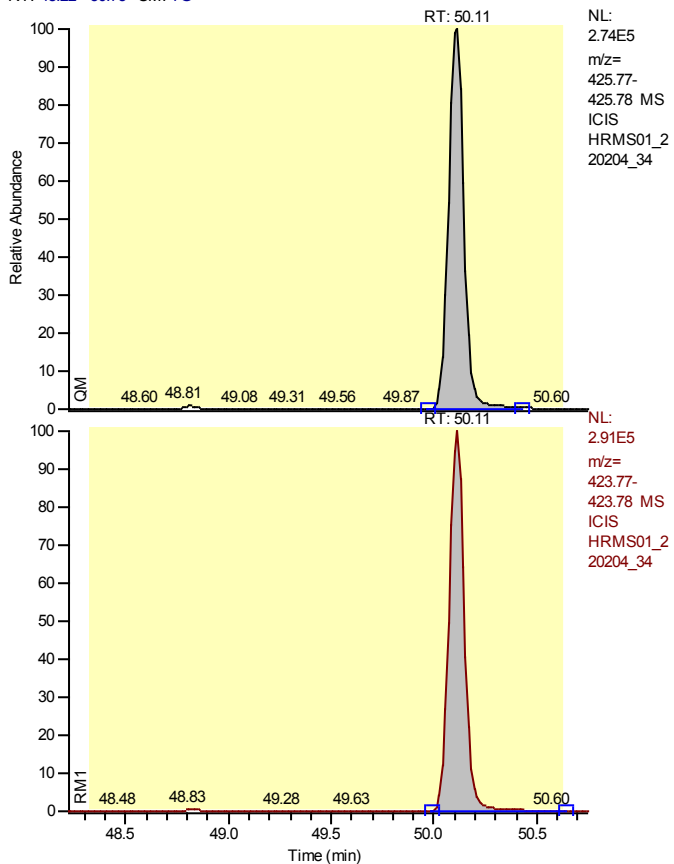
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.22 - 50.75 SM: 7G

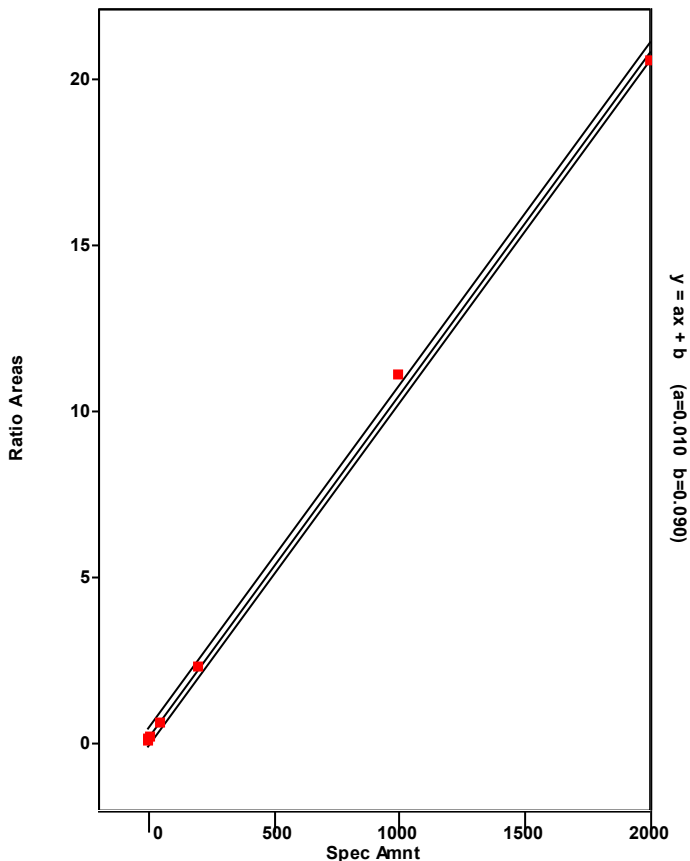


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	1456189
RM1 Area	1540294
RM1 Ratio (A)	1.0578
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.23
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

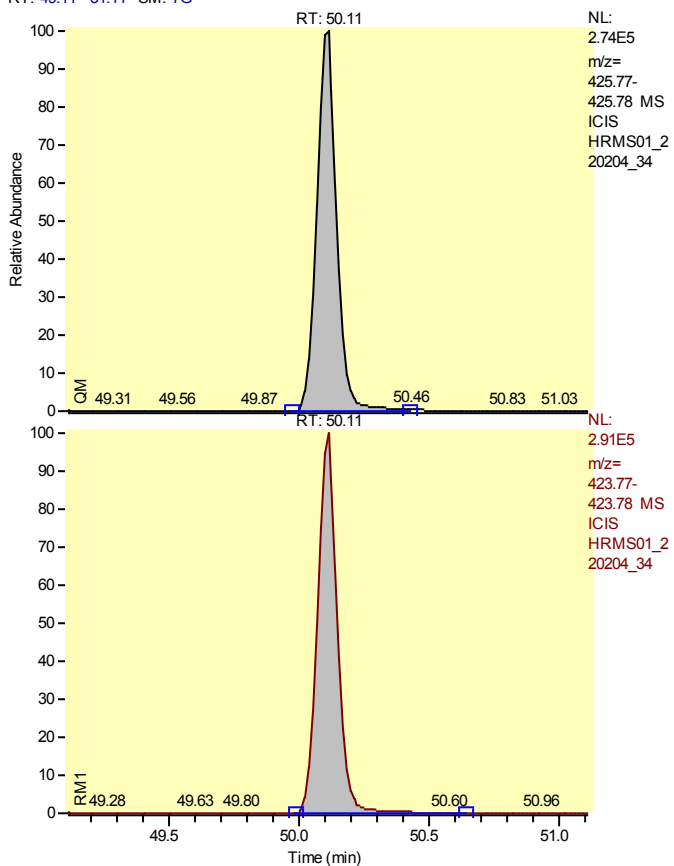
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

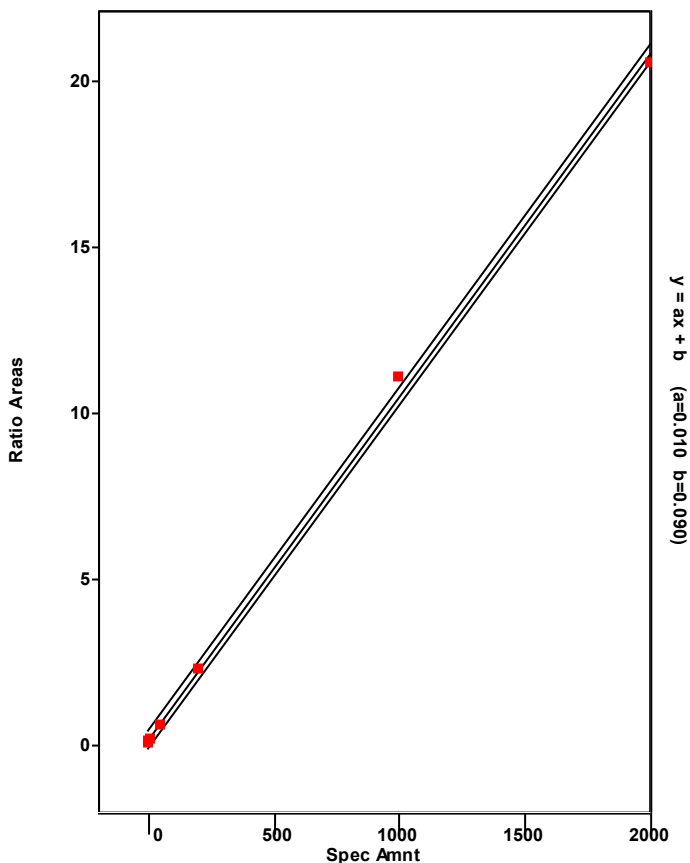


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1456189
RM1 Area	1540294
RM1 Ratio (A)	1.0578
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.23
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C 12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

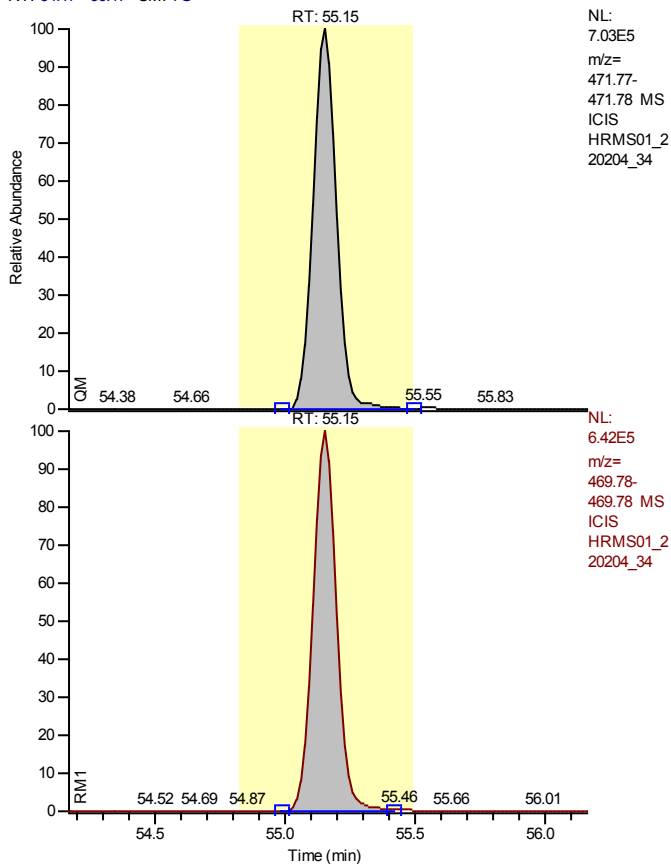
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 54.17 - 56.17 SM: 7G

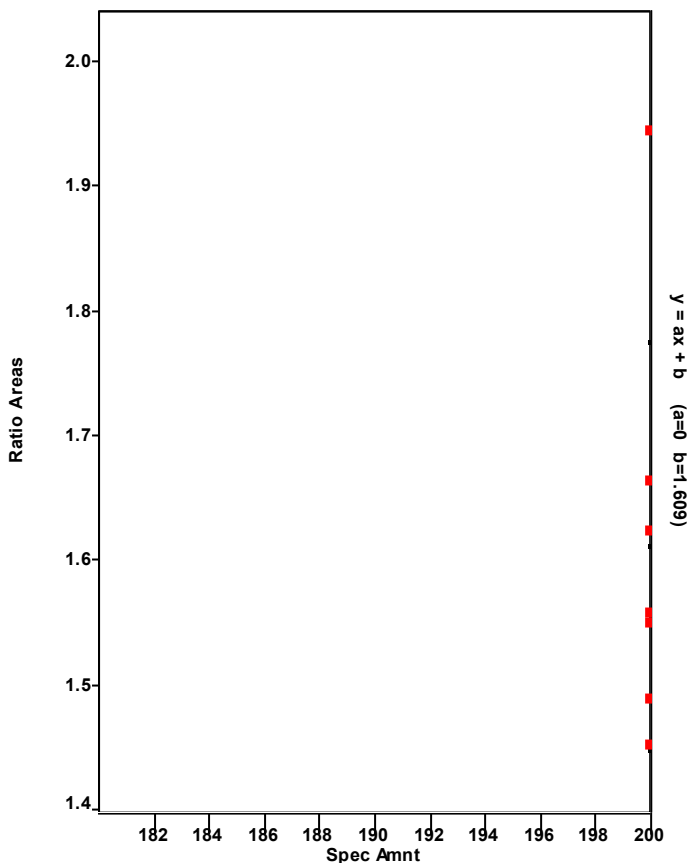


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4410439
RM1 Area	4040731
RM1 Ratio (A)	0.9162
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	182.03
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

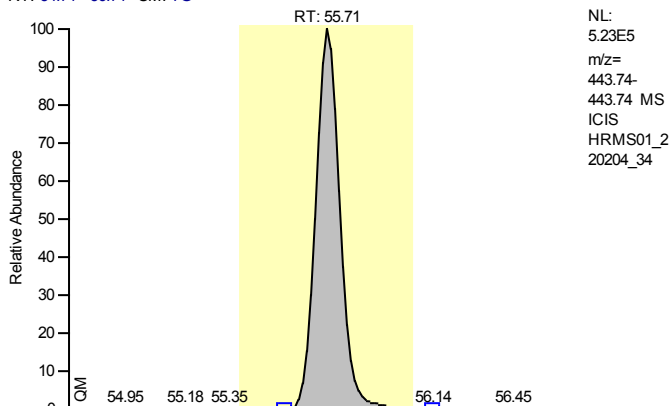
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



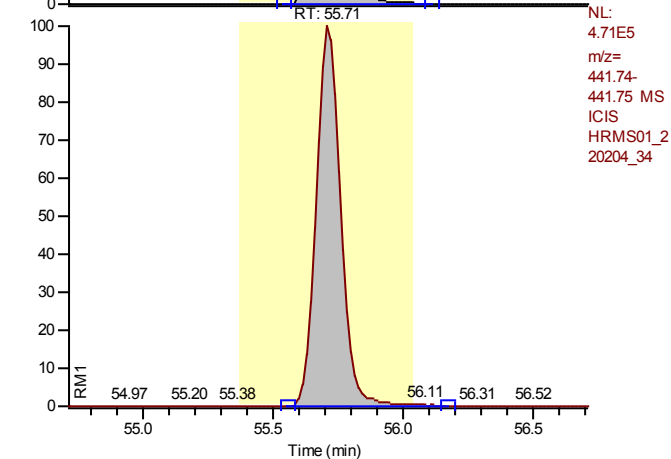
Chromatogram

Entry Parameters

RT: 54.71 - 56.71 SM: 7G



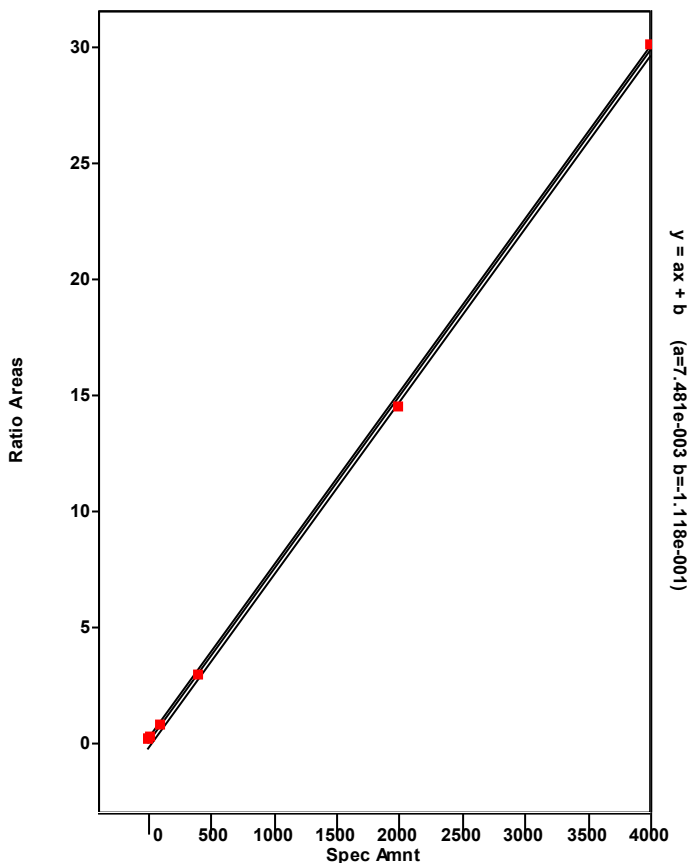
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	3405830
RM1 Area	3092659
RM1 Ratio (A)	0.9080
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	110.23
Percent Recovery (A)	110
TEQ (A)	0.0331
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

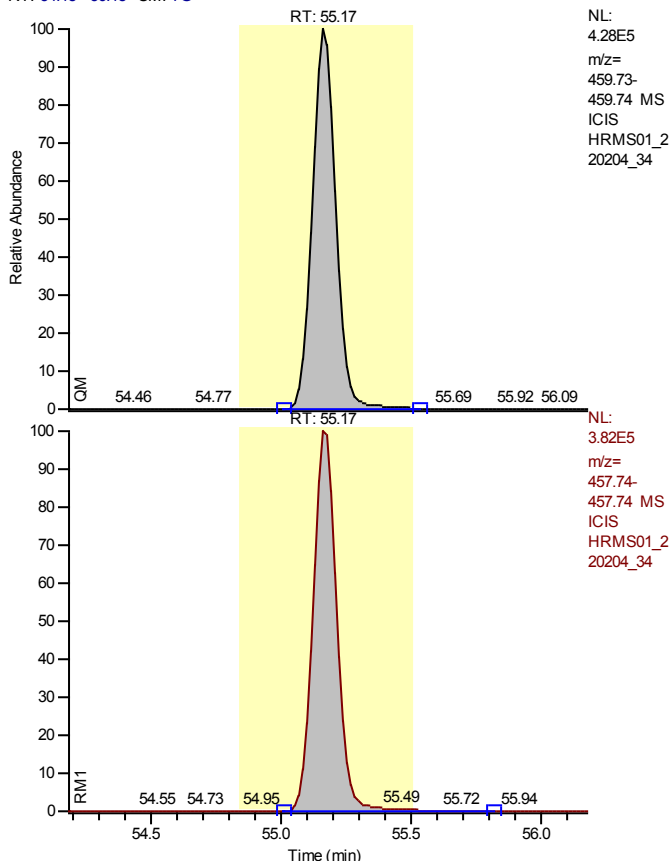
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



NL:
4.28E5
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20204_34

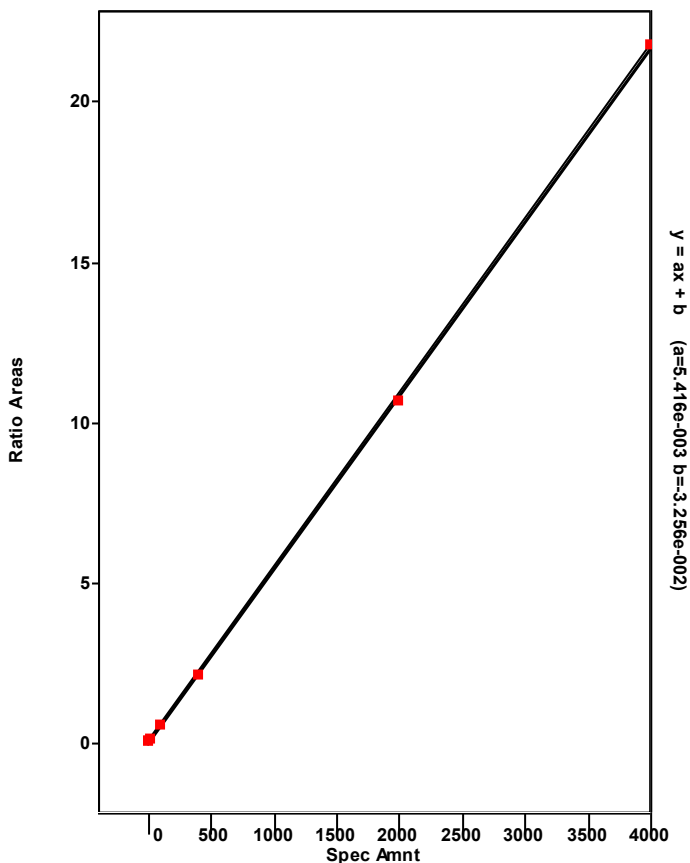
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	2693620
RM1 Area	2427006
RM1 Ratio (A)	0.9010
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	112.02
Percent Recovery (A)	112
TEQ (A)	0.0336
Label2	

NL:
3.82E5
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20204_34

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

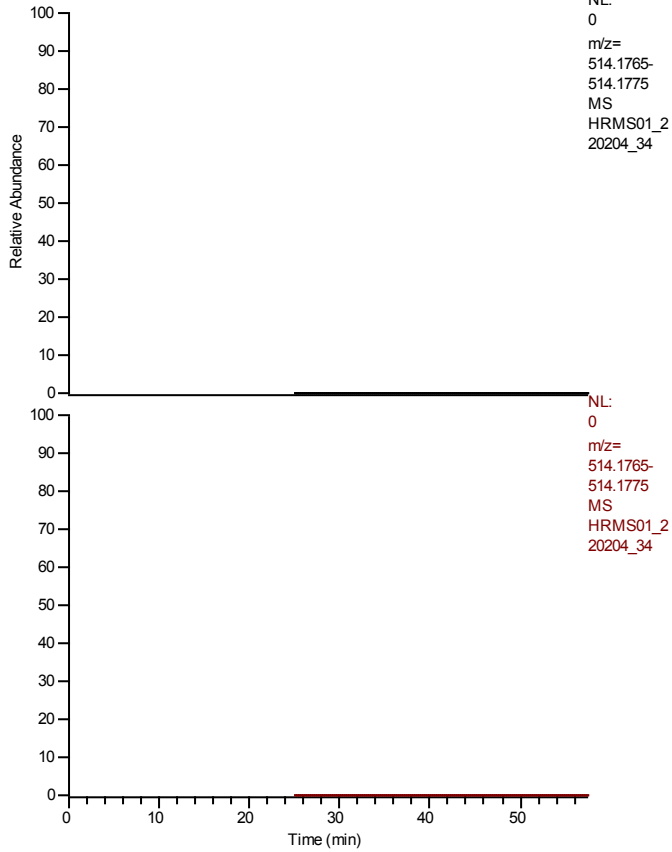
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

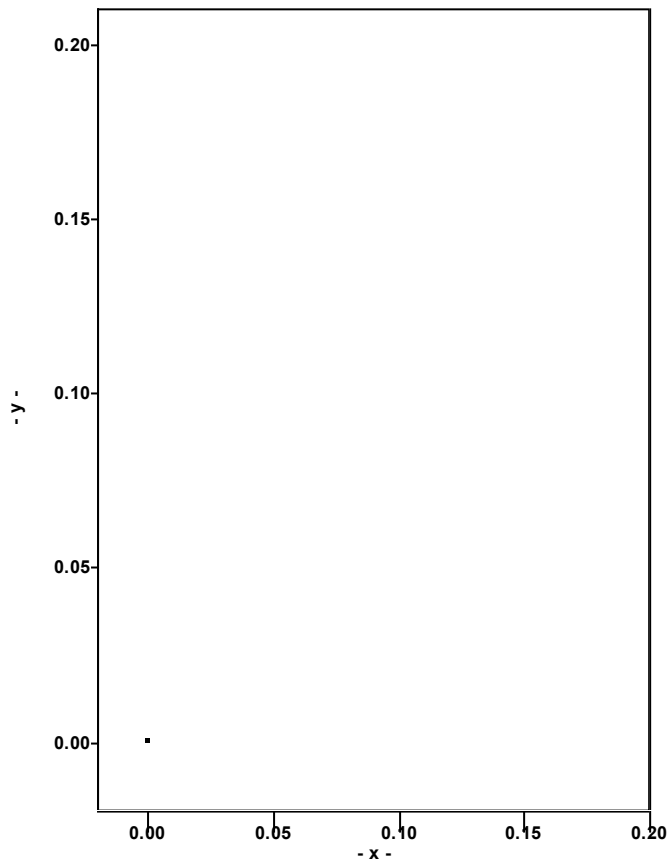
RT: 0.00 - 57.51 SM: 5G

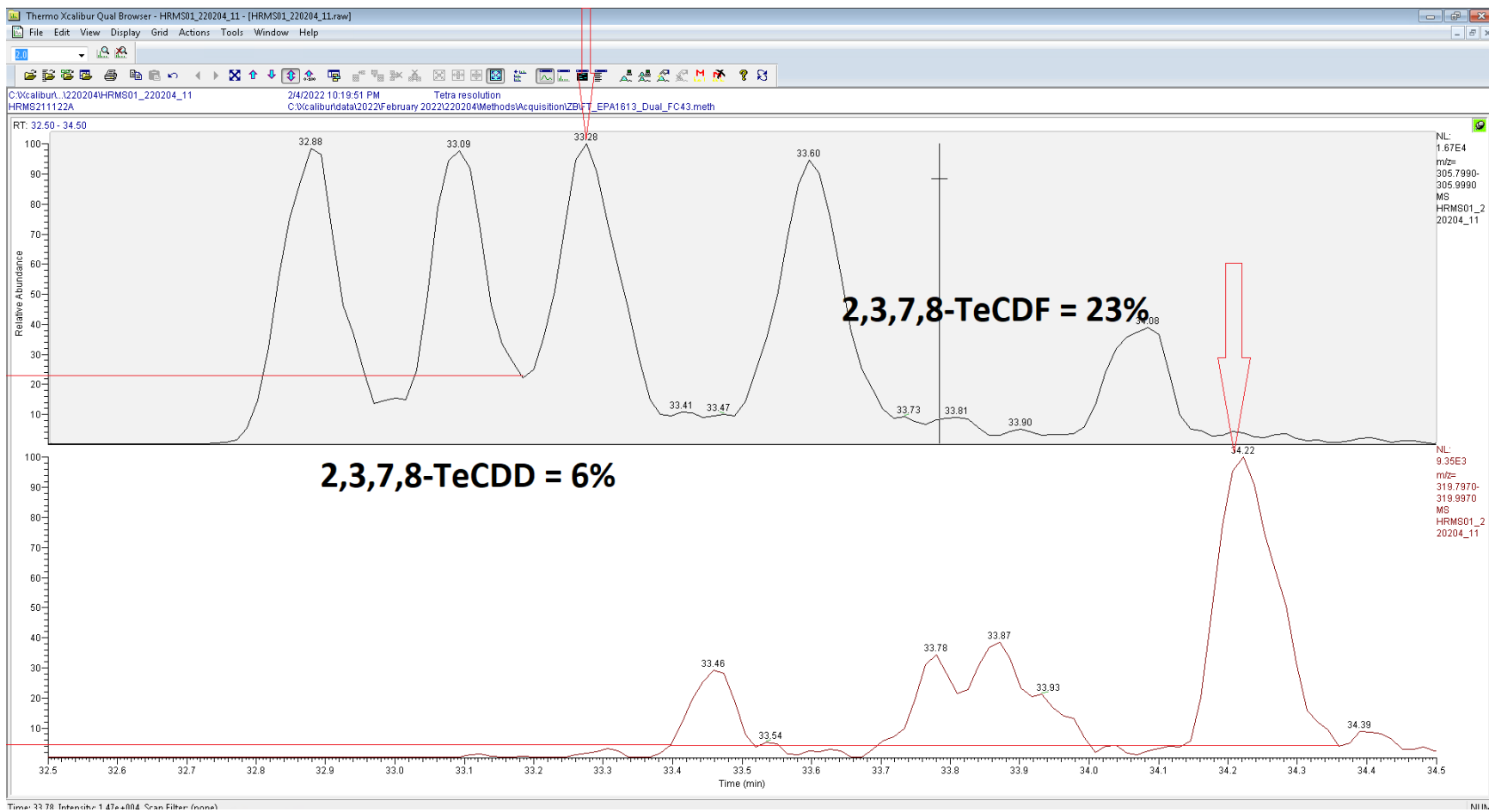


Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	28213223
RM1 Area	32873722
RM1 Ratio (A)	1.1652
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	952.31
Percent Recovery (A)	---
TEQ (A)	125.2182
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



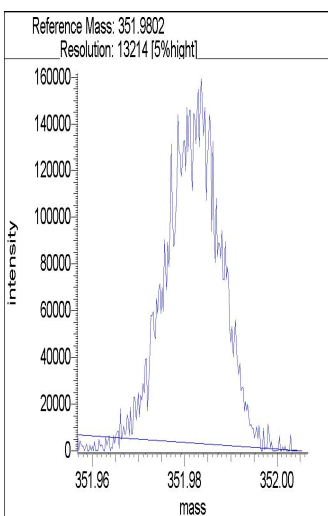
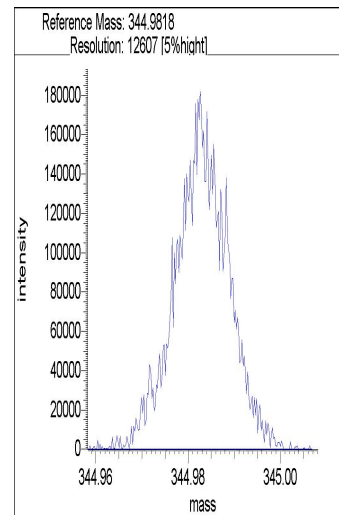
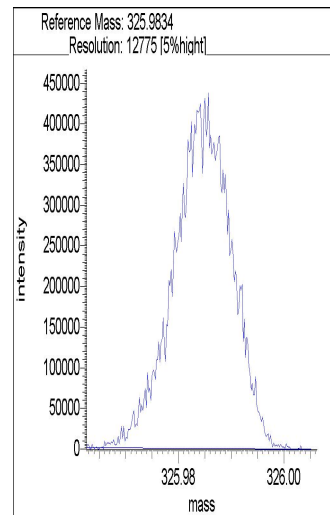
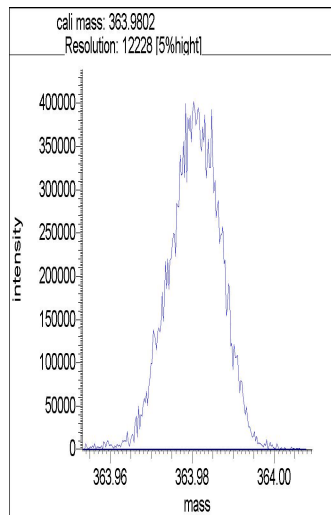
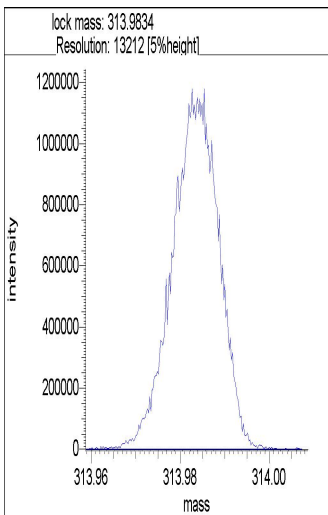


Resolution Check Report (DFS SN: 1209)

Date: 04 Feb 2022 21:03
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

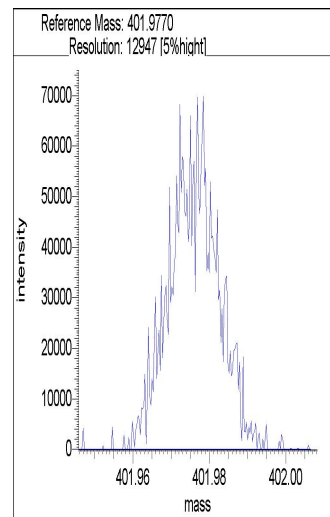
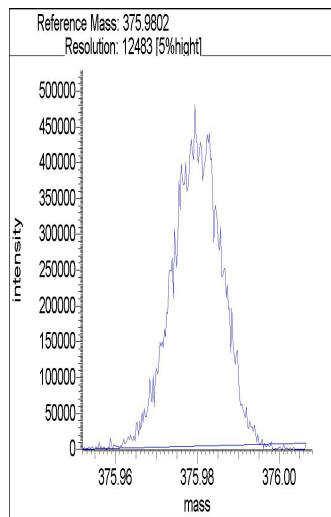
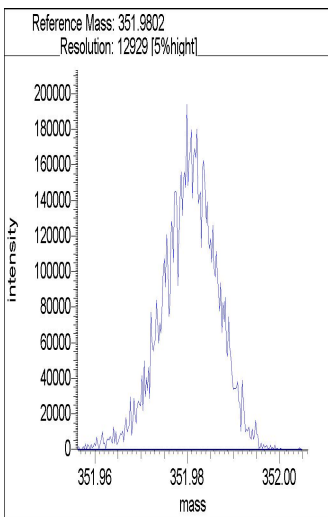
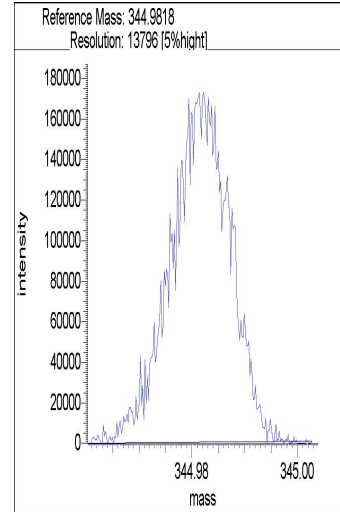
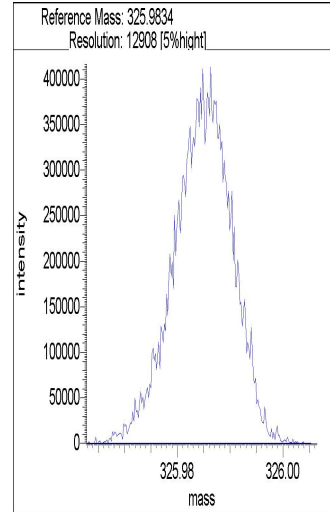
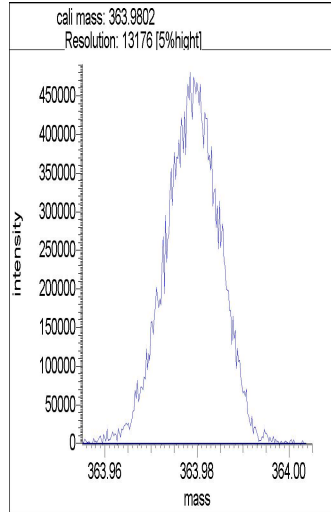
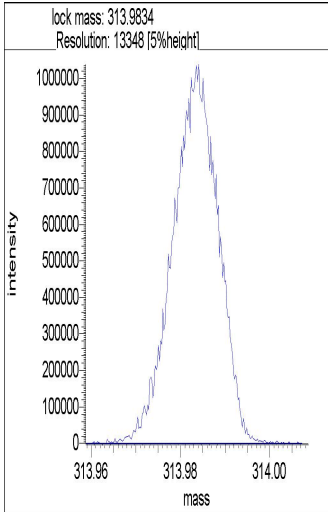
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Cali. mass 363.9802 [m/z] Resolution: 12228 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 12775 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 12607 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 13214 [5%height]



Segment 2

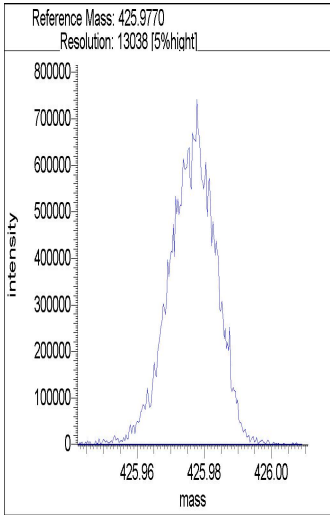
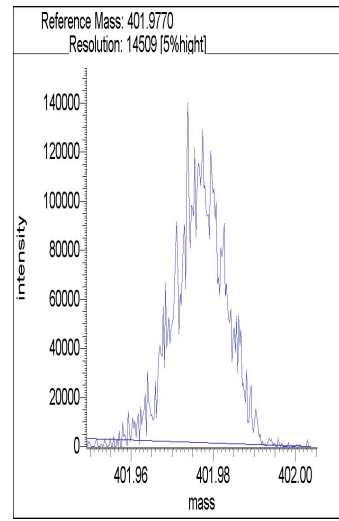
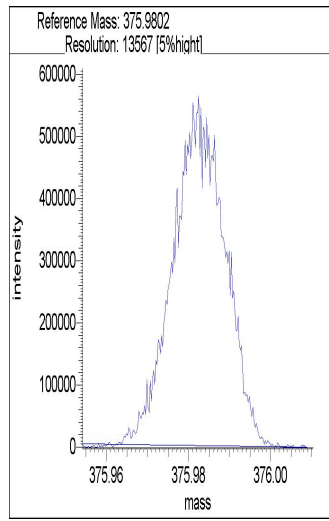
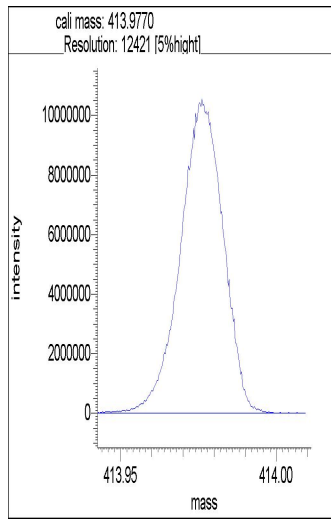
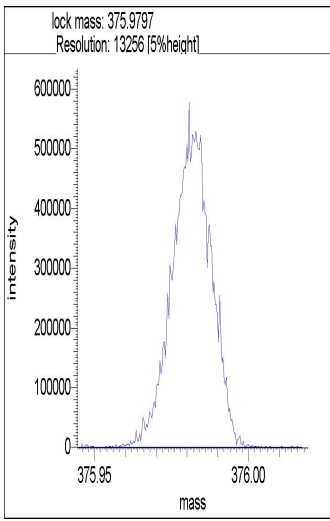
Lock mass 313.9834 [m/z] Resolution: 13348 [5%height]

Cali. mass 363.9802 [m/z] Resolution: 13176 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 12908 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 13796 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 12929 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 12483 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12947 [5%height]



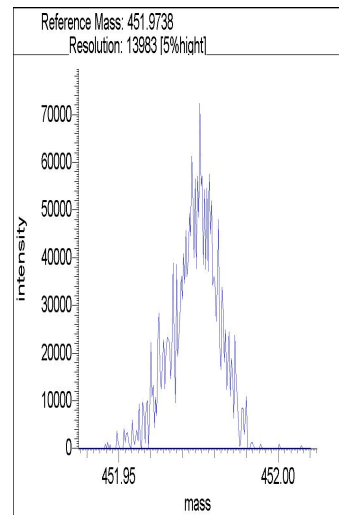
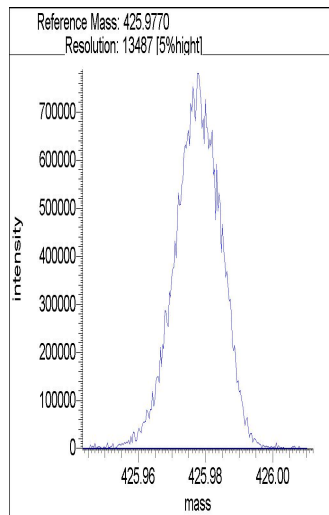
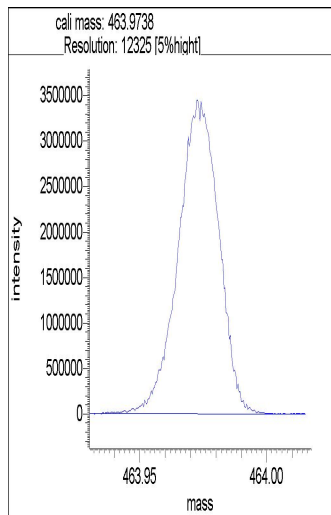
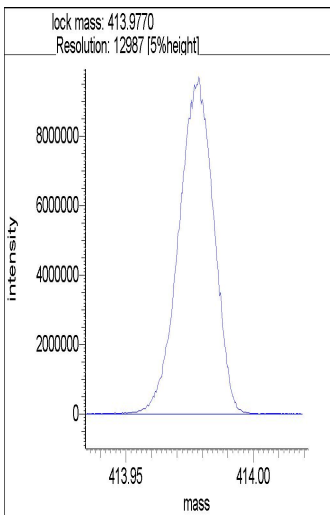
Segment 3

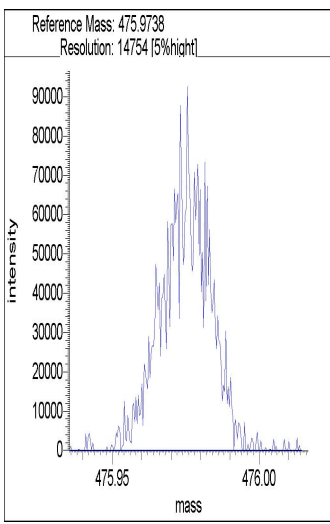
Lock mass 375.9797 [m/z] Resolution: 13256 [5%height]
Cali. mass 413.9770 [m/z] Resolution: 12421 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 13567 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 14509 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 13038 [5%height]



Segment 4

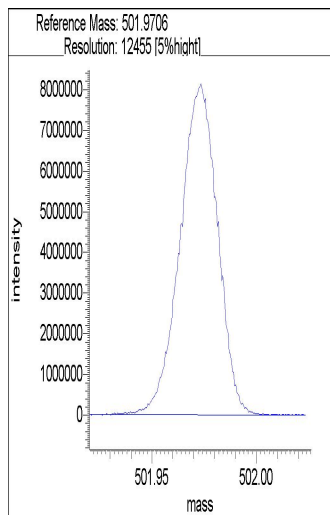
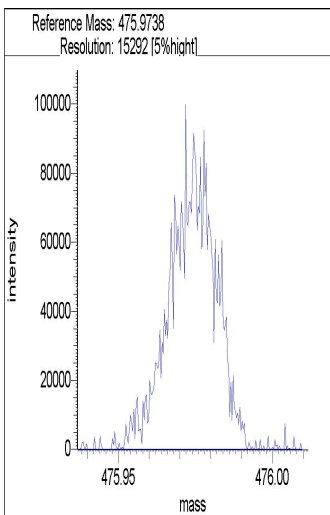
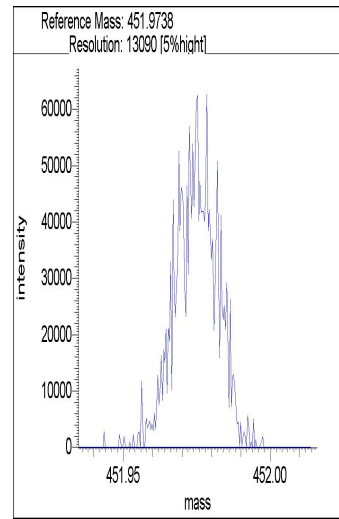
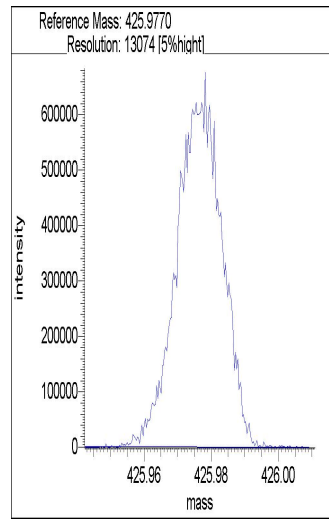
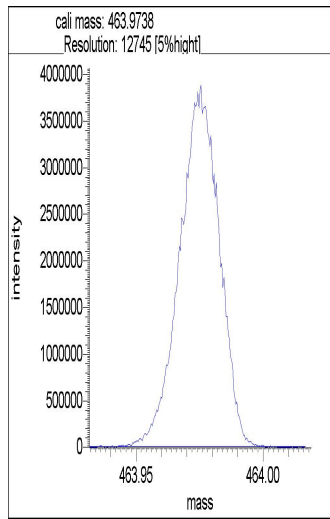
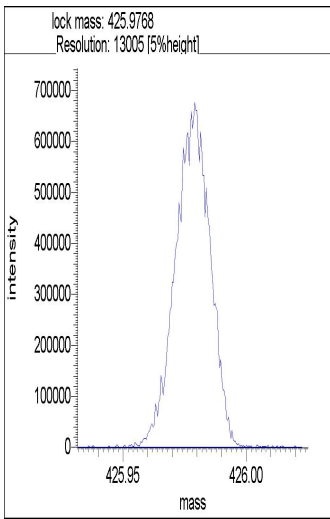
- Lock mass 413.9770 [m/z] Resolution: 12987 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 12325 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 13487 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13983 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 14754 [5%height]





Segment 5

- Lock mass 425.9768 [m/z] Resolution: 13005 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 12745 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 13074 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13090 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 15292 [5%height]
- Ref. mass 501.9706 [m/z] Resolution: 12455 [5%height]



HRMS 200402 A-E

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PB



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}\text{C}_{12}$) and mass-labelled ($^{13}\text{C}_{12}$ and $^{37}\text{Cl}_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of $\geq 99\%$. The 2,3,7,8- $^{37}\text{Cl}_4$ -Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of $\geq 95\%$.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:


This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
Native PCDDs and PCDFs:							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: 
B.G. Chittim, General Manager

Date: 10/25/2019
(mm/dd/yyyy)

Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
¹³ C ₁₂ -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

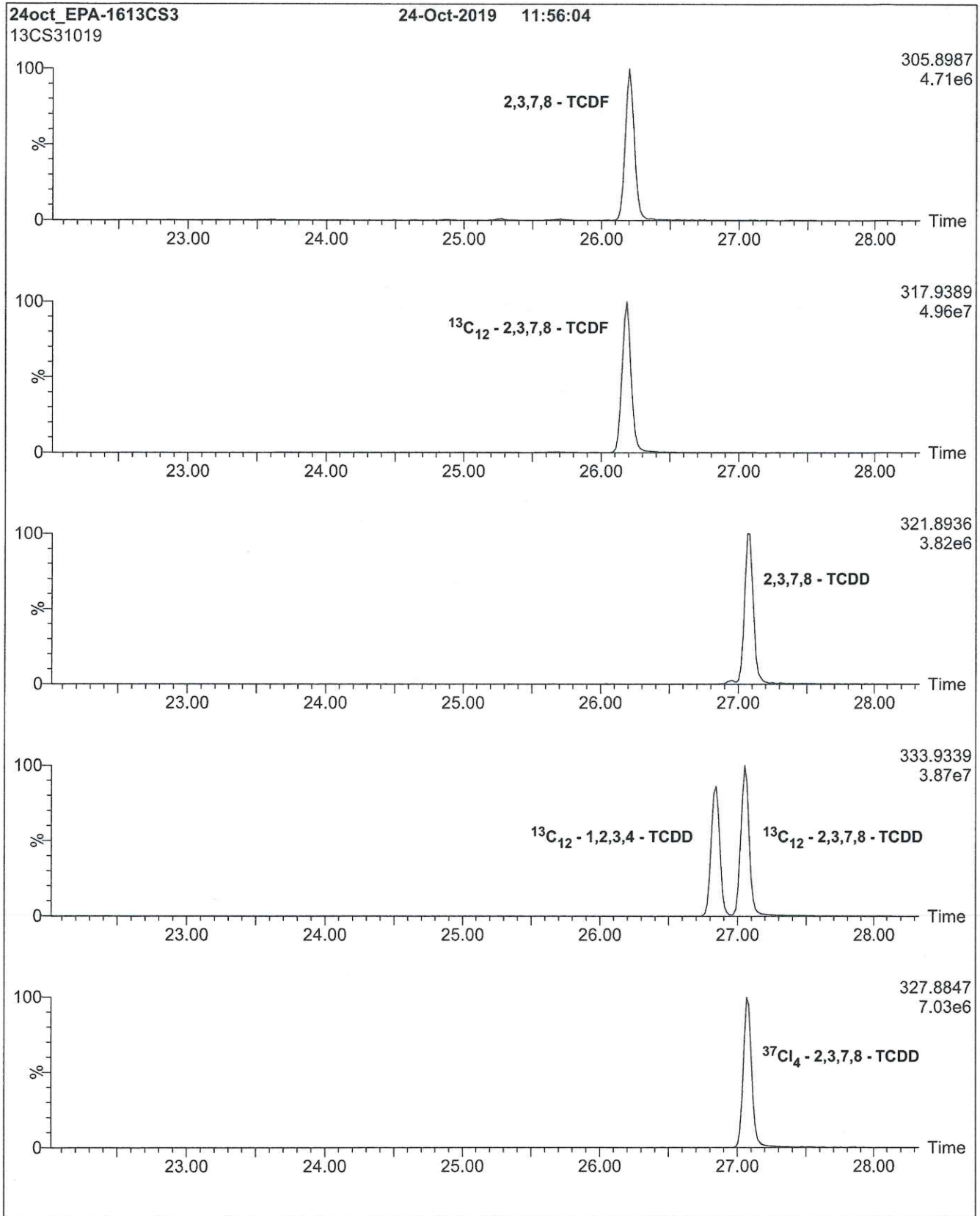


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

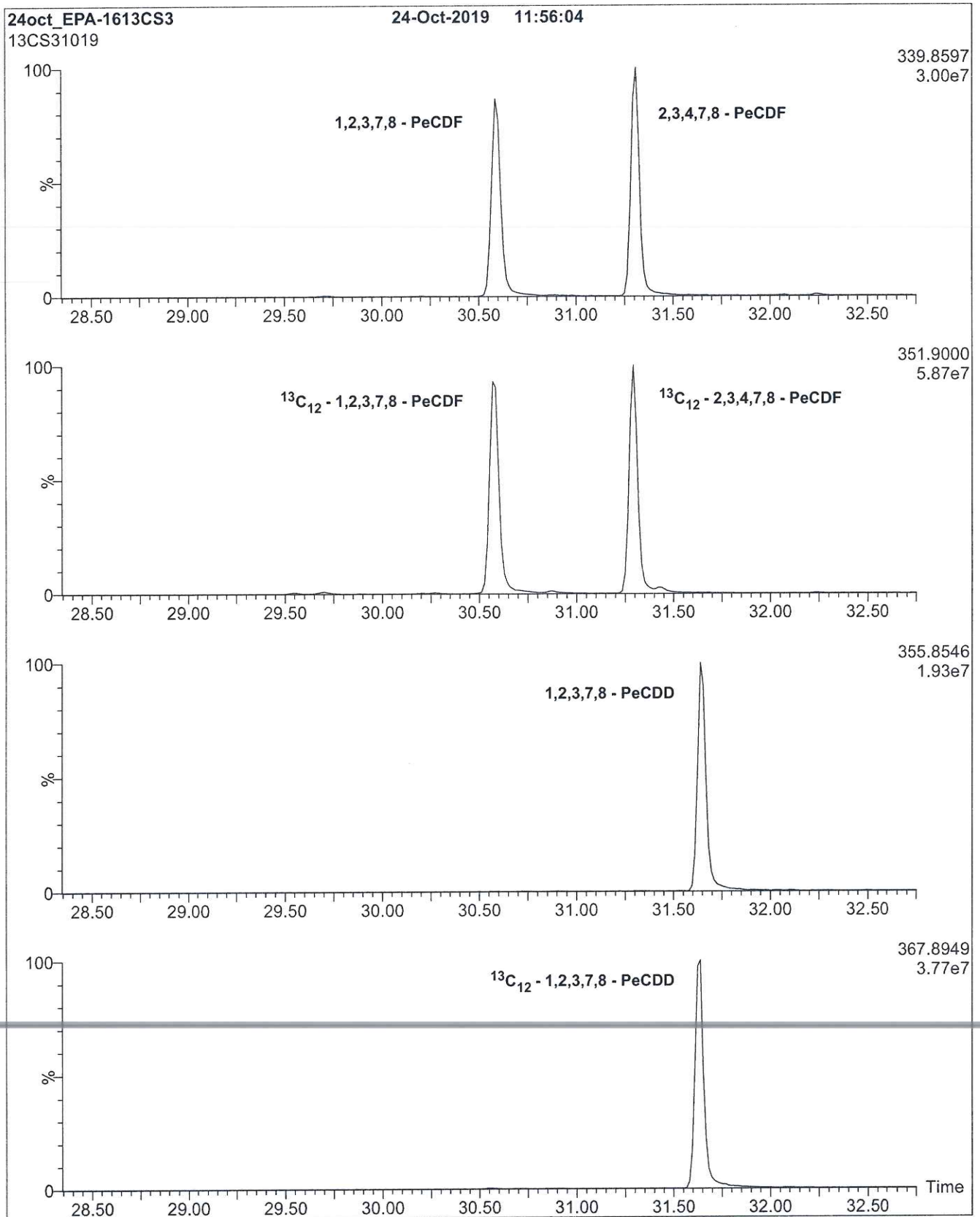


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

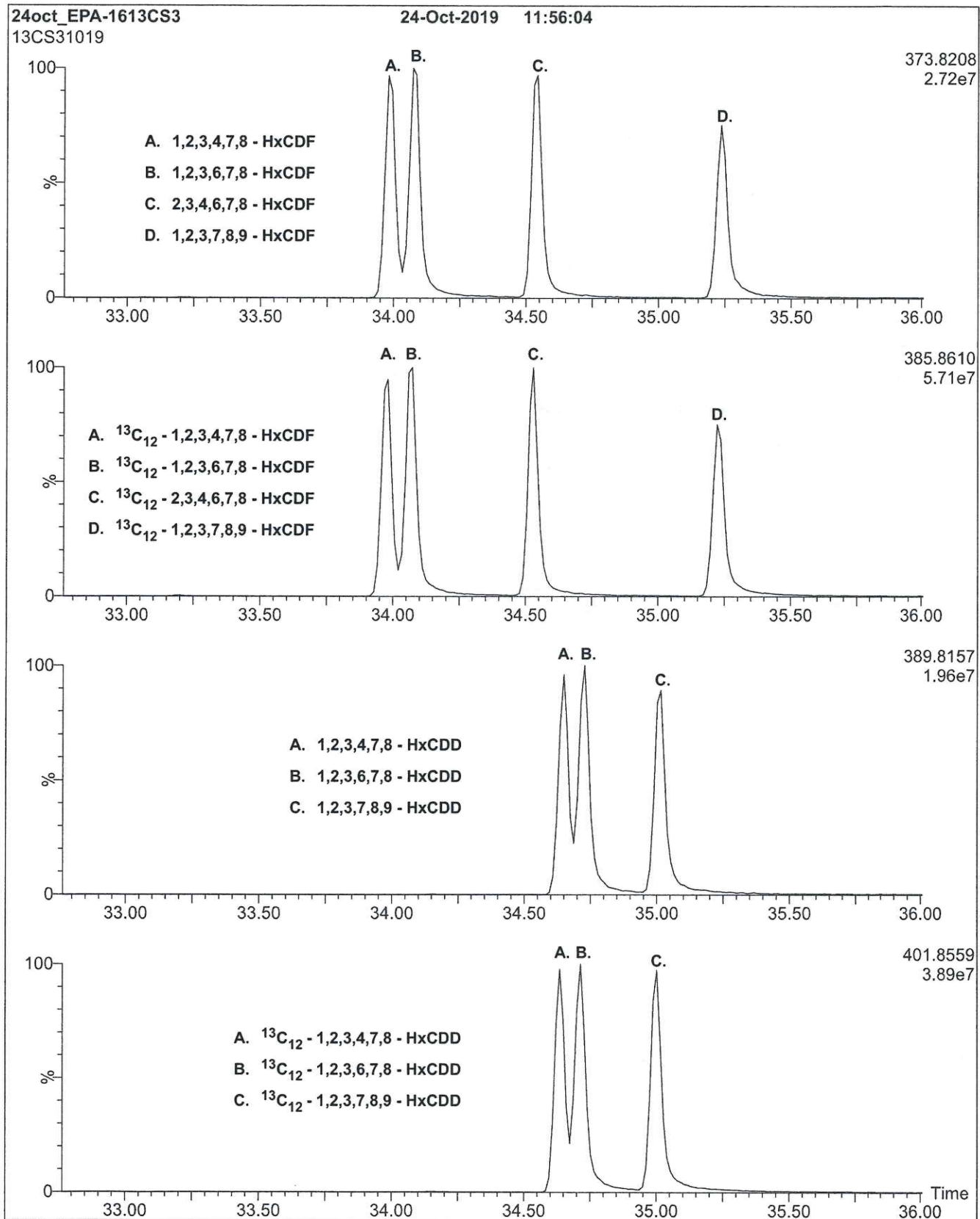


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

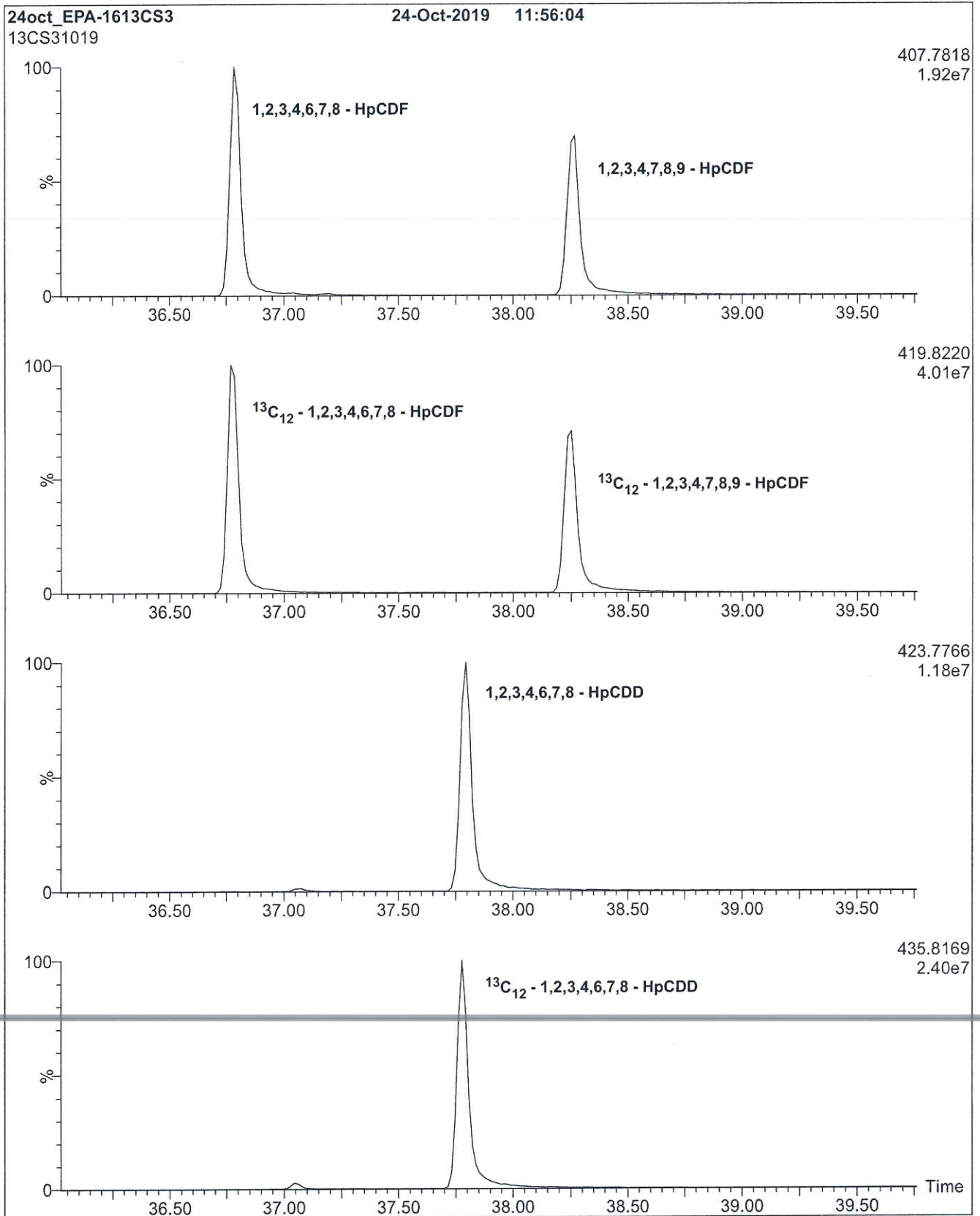
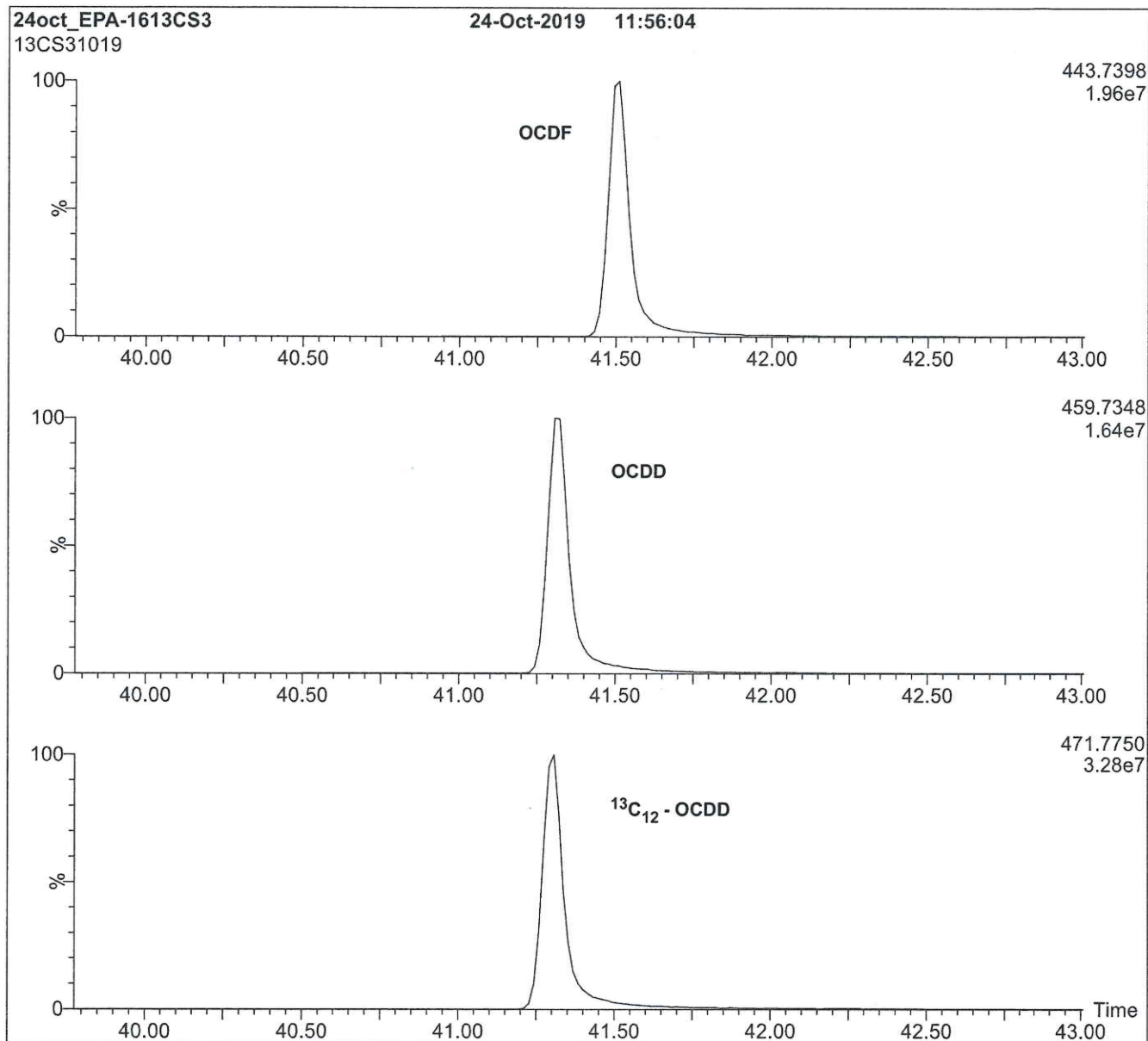


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	LOT NUMBERS:	(see below)
	EPA-1613CS1		13CS11020
	EPA-1613CS2		13CS21020
	EPA-1613CS3		13CS31020
	EPA-1613CS4		13CS41020
	EPA-1613CS5		13CS51020

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51020
EPA-1613CSL	13CSL1020

SOLVENT(S): Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy) 11/16/2020
LAST TESTED: (mm/dd/yyyy) 11/18/2020
EXPIRY DATE: (mm/dd/yyyy) 11/18/2027
RECOMMENDED STORAGE: Store ampoules in a cool, dark place

LCMS 21017AG-AH
JW 1/17/21

DESCRIPTION:

EPA-1613CVS is a series of five HRGC/HRMS calibration solutions containing native (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) chlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

EPA-1613CVS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-[³⁷Cl₄]-tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

EPA-1613CVS was prepared using, and is compatible with, the following stock solutions: EPA-1613LCS, EPA-1613CSS, EPA-1613ISS, EPA-1613PAR, and EPA-1613STOCK.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations

Table B: 5-Point HRGC/HRMS Calibration and RRF Summary

Table C: 7-Point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

-
- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
Components and Concentrations (ng/mL, ± 5% in nonane/toluene)**

Compound	Acronym	Concentration (ng/mL)						
		CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
Native PCDDs:								
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin	2,3,7,8-TCDD	0.500	2.00	10.0	40.0	200	0.100	0.250
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8-PeCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,7,8-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,6,7,8-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8,9-HxCDD	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,6,7,8-HpCDD	2.50	10.0	50.0	200	1000	0.500	1.25
Octachlorodibenzo- <i>p</i> -dioxin	OCDD	5.00	20.0	100	400	2000	1.00	2.50
Native PCDFs:								
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	0.500	2.00	10.0	40.0	200	0.100	0.250
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	2.50	10.0	50.0	200	1000	0.500	1.25
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	2.50	10.0	50.0	200	1000	0.500	1.25
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	2.50	10.0	50.0	200	1000	0.500	1.25
Octachlorodibenzofuran	OCDF	5.00	20.0	100	400	2000	1.00	2.50
Mass-Labelled PCDDs:								
2,3,7,8-Tetrachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-2,3,7,8-TCDD	100	100	100	100	100	100	100
1,2,3,7,8-Pentachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
1,2,3,4,7,8-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
1,2,3,6,7,8-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
1,2,3,4,6,7,8-Heptachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
Octachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-OCDD	200	200	200	200	200	200	200
Mass-Labelled PCDFs:								
2,3,7,8-Tetrachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,7,8-TCDF	100	100	100	100	100	100	100
1,2,3,7,8-Pentachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
2,3,4,7,8-Pentachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
1,2,3,4,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,6,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,7,8,9-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
2,3,4,6,7,8-Hexachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
1,2,3,4,6,7,8-Heptachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
1,2,3,4,7,8,9-Heptachloro[¹³ C ₁₂]dibenzofuran	[¹³ C ₁₂]-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
Cleanup Standard:								
2,3,7,8-[³⁷ Cl ₄]-Tetrachlorodibenzo- <i>p</i> -dioxin	[³⁷ Cl ₄]-2,3,7,8-TCDD	0.500	2.00	10.0	40.0	200	0.100	0.250
Internal Standards:								
1,2,3,4-Tetrachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,4-TCDD	100	100	100	100	100	100	100
1,2,3,7,8,9-Hexachloro[¹³ C ₁₂]dibenzo- <i>p</i> -dioxin	[¹³ C ₁₂]-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)		3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  Date: 11/20/2020
B.G. Chittim, General Manager (mm/dd/yyyy)

Table B: EPA-1613CVS; 5-Point HRGC/HRMS Calibration and RRF Summary

Calibration RRF Summary			Calibration Standard				
Calibration Filename: 17NOV2020-M459-1613CVS-5PT.QLD			CS1	CS2	CS3	CS4	CS5
Acronym	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
Native PCDDs:							
2,3,7,8-TCDD	1.02	6.7	0.92	0.98	1.02	1.06	1.10
1,2,3,7,8-PeCDD	1.02	4.7	0.96	0.97	1.05	1.06	1.04
1,2,3,4,7,8-HxCDD	1.06	7.6	0.93	1.05	1.08	1.12	1.13
1,2,3,6,7,8-HxCDD	1.03	6.7	0.94	0.98	1.06	1.09	1.10
1,2,3,7,8,9-HxCDD	1.09	7.3	0.97	1.05	1.12	1.18	1.13
1,2,3,4,6,7,8-HpCDD	1.07	7.3	0.96	1.02	1.14	1.12	1.12
OCDD	1.00	6.1	0.90	1.00	1.01	1.04	1.05
Native PCDFs:							
2,3,7,8-TCDF	1.05	4.3	1.00	1.01	1.04	1.08	1.11
1,2,3,7,8-PeCDF	1.01	3.9	0.96	0.98	1.03	1.04	1.04
2,3,4,7,8-PeCDF	1.12	4.7	1.04	1.09	1.15	1.15	1.15
1,2,3,4,7,8-HxCDF	1.02	3.8	0.97	0.99	1.03	1.06	1.04
1,2,3,6,7,8-HxCDF	0.97	4.0	0.91	0.94	0.99	0.99	1.00
2,3,4,6,7,8-HxCDF	1.01	6.9	0.89	1.00	1.04	1.05	1.07
1,2,3,7,8,9-HxCDF	0.94	7.1	0.84	0.92	0.95	1.01	0.98
1,2,3,4,6,7,8-HpCDF	0.90	3.0	0.88	0.87	0.91	0.92	0.93
1,2,3,4,7,8,9-HpCDF	0.87	5.9	0.78	0.86	0.88	0.90	0.92
OCDF	1.26	9.3	1.09	1.21	1.28	1.34	1.39
Mass-Labelled PCDDs:							
¹³ C ₁₂ -2,3,7,8-TCDD	1.32	4.3	1.27	1.28	1.30	1.35	1.41
¹³ C ₁₂ -1,2,3,7,8-PeCDD	1.02	6.4	0.95	1.02	0.96	1.05	1.11
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.90	4.1	0.95	0.87	0.91	0.87	0.93
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	0.98	3.9	0.95	1.01	1.04	0.96	0.96
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.69	2.6	0.69	0.70	0.66	0.68	0.70
¹³ C ₁₂ -OCDD	0.60	6.0	0.59	0.60	0.55	0.59	0.65
Mass-Labelled PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDF	1.97	2.4	1.92	1.94	1.95	2.01	2.03
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.83	3.7	1.76	1.83	1.77	1.84	1.93
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.74	5.4	1.64	1.81	1.65	1.73	1.85
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.56	4.1	1.59	1.53	1.66	1.49	1.55
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.81	3.4	1.81	1.83	1.89	1.76	1.74
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.56	3.0	1.56	1.55	1.63	1.52	1.52
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.35	2.6	1.33	1.36	1.38	1.30	1.39
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.30	2.2	1.34	1.31	1.32	1.26	1.29
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.04	2.4	1.05	1.05	1.02	1.02	1.08
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	2.21	7.8	1.97	2.15	2.19	2.34	2.41
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00

**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);
7-Point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary			Calibration Standard						
Calibration Filename: 17NOV2020-M459-1613CVS-7PT.QLD			CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Acronym	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Native PCDDs:									
2,3,7,8-TCDD	0.98	9.2	0.83	0.95	0.92	0.98	1.02	1.06	1.10
1,2,3,7,8-PeCDD	1.00	5.9	1.01	0.90	0.96	0.97	1.05	1.06	1.04
1,2,3,4,7,8-HxCDD	1.03	8.6	0.90	1.01	0.93	1.05	1.08	1.12	1.13
1,2,3,6,7,8-HxCDD	1.00	8.3	0.89	0.93	0.94	0.98	1.06	1.09	1.10
1,2,3,7,8,9-HxCDD	1.08	6.9	1.12	1.00	0.97	1.05	1.12	1.18	1.13
1,2,3,4,6,7,8-HpCDD	1.05	7.8	0.94	1.01	0.96	1.02	1.14	1.12	1.12
OCDD	0.99	5.8	0.93	1.00	0.90	1.00	1.01	1.04	1.05
Native PCDFs:									
2,3,7,8-TCDF	1.03	6.4	1.04	0.90	1.00	1.01	1.04	1.08	1.11
1,2,3,7,8-PeCDF	0.98	5.5	0.92	0.92	0.96	0.98	1.03	1.04	1.04
2,3,4,7,8-PeCDF	1.08	8.1	0.91	1.09	1.04	1.09	1.15	1.15	1.15
1,2,3,4,7,8-HxCDF	1.00	4.9	0.93	0.96	0.97	0.99	1.03	1.06	1.04
1,2,3,6,7,8-HxCDF	0.95	4.2	0.93	0.90	0.91	0.94	0.99	0.99	1.00
2,3,4,6,7,8-HxCDF	0.97	9.0	0.90	0.86	0.89	1.00	1.04	1.05	1.07
1,2,3,7,8,9-HxCDF	0.93	6.2	0.93	0.89	0.84	0.92	0.95	1.01	0.98
1,2,3,4,6,7,8-HpCDF	0.86	8.4	0.75	0.77	0.88	0.87	0.91	0.92	0.93
1,2,3,4,7,8,9-HpCDF	0.85	6.2	0.80	0.81	0.78	0.86	0.88	0.90	0.92
OCDF	1.23	9.1	1.12	1.19	1.09	1.21	1.28	1.34	1.39
Mass-Labelled PCDDs:									
¹³ C ₁₂ -2,3,7,8-TCDD	1.29	5.6	1.20	1.22	1.27	1.28	1.30	1.35	1.41
¹³ C ₁₂ -1,2,3,7,8-PeCDD	1.01	5.4	1.00	0.98	0.95	1.02	0.96	1.05	1.11
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.90	3.7	0.89	0.87	0.95	0.87	0.91	0.87	0.93
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	0.98	3.5	1.00	0.95	0.95	1.01	1.04	0.96	0.96
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.69	2.2	0.70	0.69	0.69	0.70	0.66	0.68	0.70
¹³ C ₁₂ -OCDD	0.60	5.0	0.60	0.59	0.59	0.60	0.55	0.59	0.65
Mass-Labelled PCDFs:									
¹³ C ₁₂ -2,3,7,8-TCDF	1.94	3.4	1.84	1.89	1.92	1.94	1.95	2.01	2.03
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.81	3.4	1.78	1.77	1.76	1.83	1.77	1.84	1.93
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.72	4.6	1.70	1.68	1.64	1.81	1.65	1.73	1.85
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.56	3.4	1.56	1.56	1.59	1.53	1.66	1.49	1.55
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.82	3.2	1.89	1.85	1.81	1.83	1.89	1.76	1.74
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.56	2.6	1.60	1.57	1.56	1.55	1.63	1.52	1.52
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.34	3.4	1.36	1.26	1.33	1.36	1.38	1.30	1.39
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.32	2.5	1.36	1.33	1.34	1.31	1.32	1.26	1.29
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.04	2.0	1.04	1.05	1.05	1.05	1.02	1.02	1.08
Cleanup Standard:									
³⁷ Cl ₄ -2,3,7,8-TCDD	2.18	7.4	2.21	2.00	1.97	2.15	2.19	2.34	2.41
Internal Standards:									
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

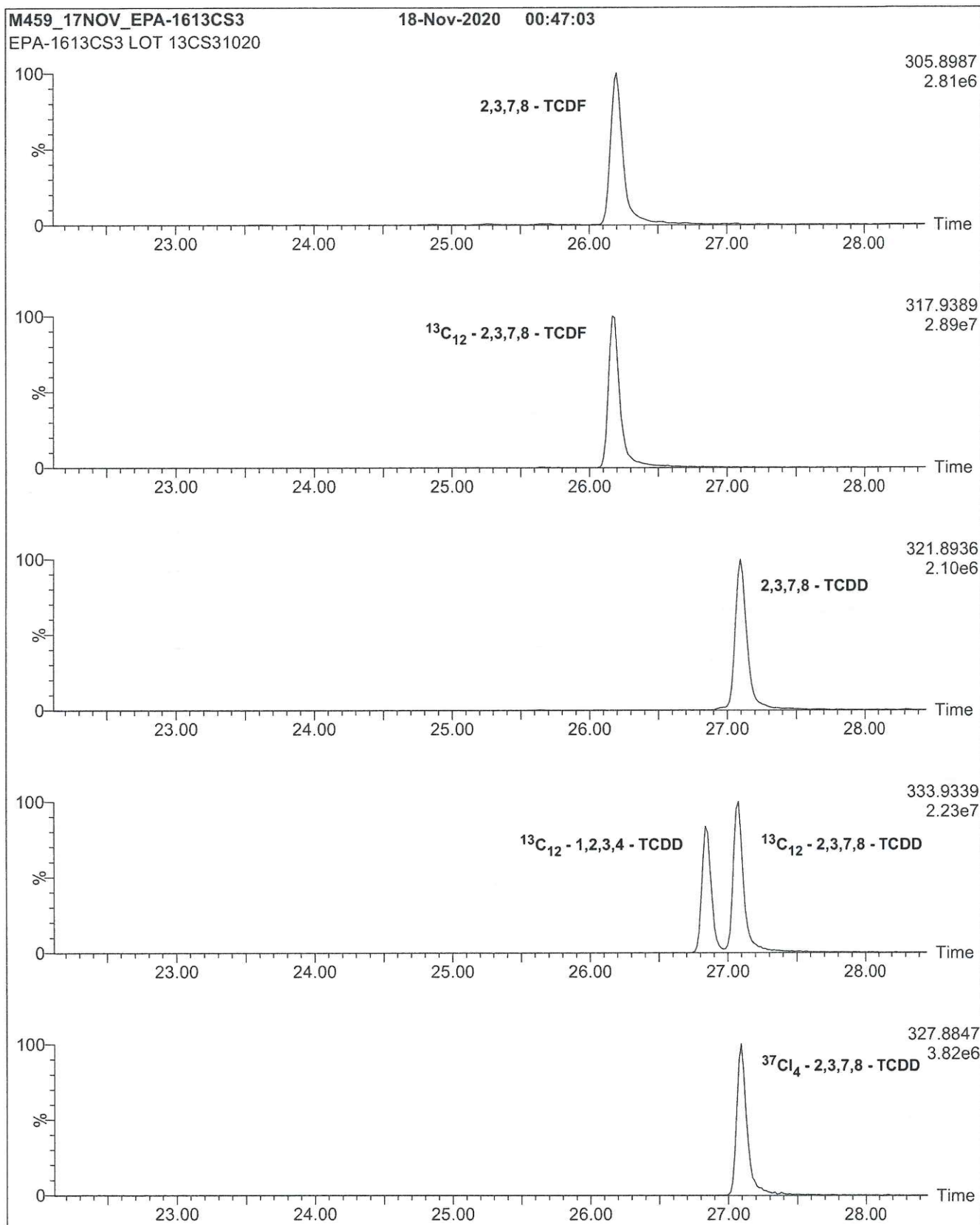


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

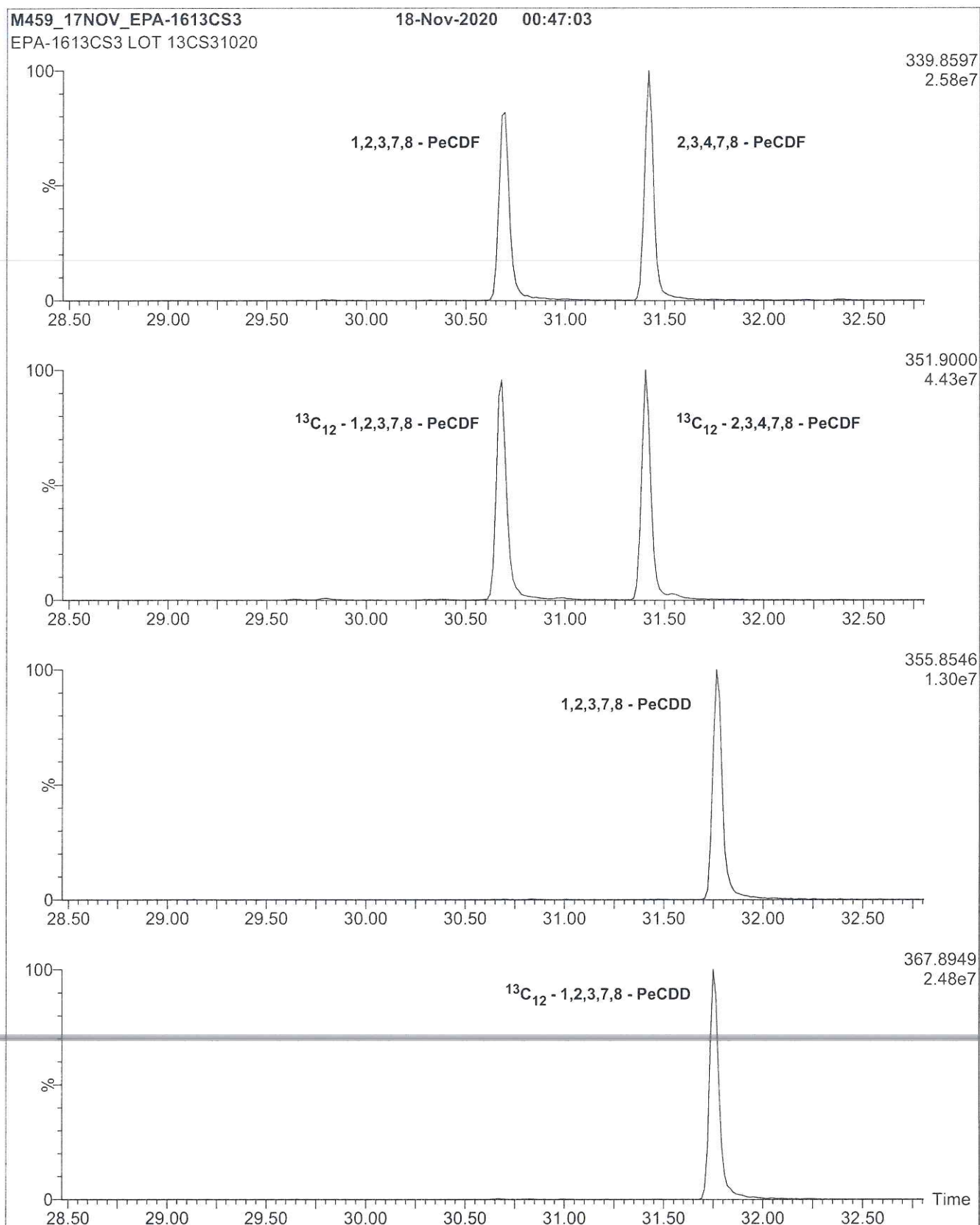


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

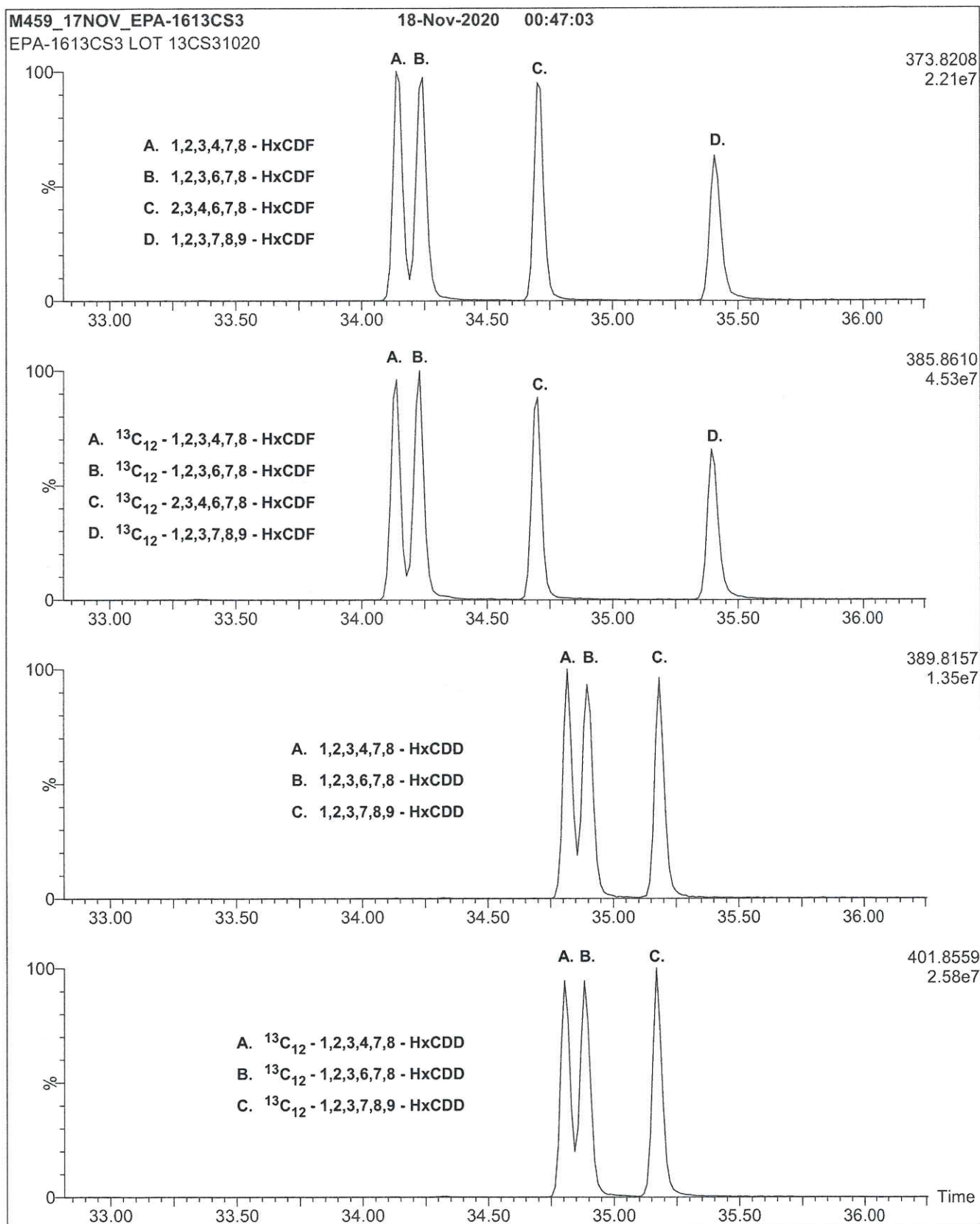


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

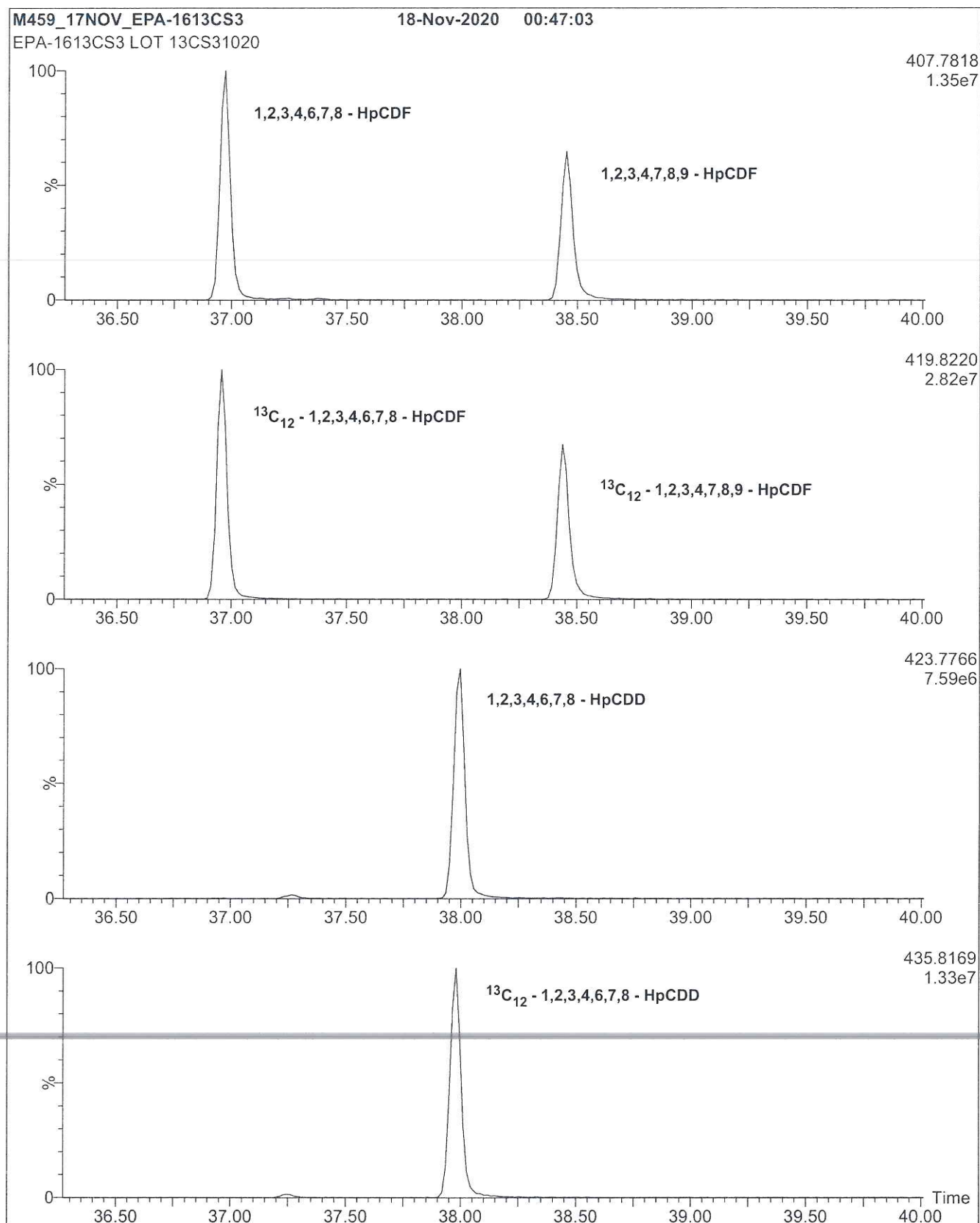
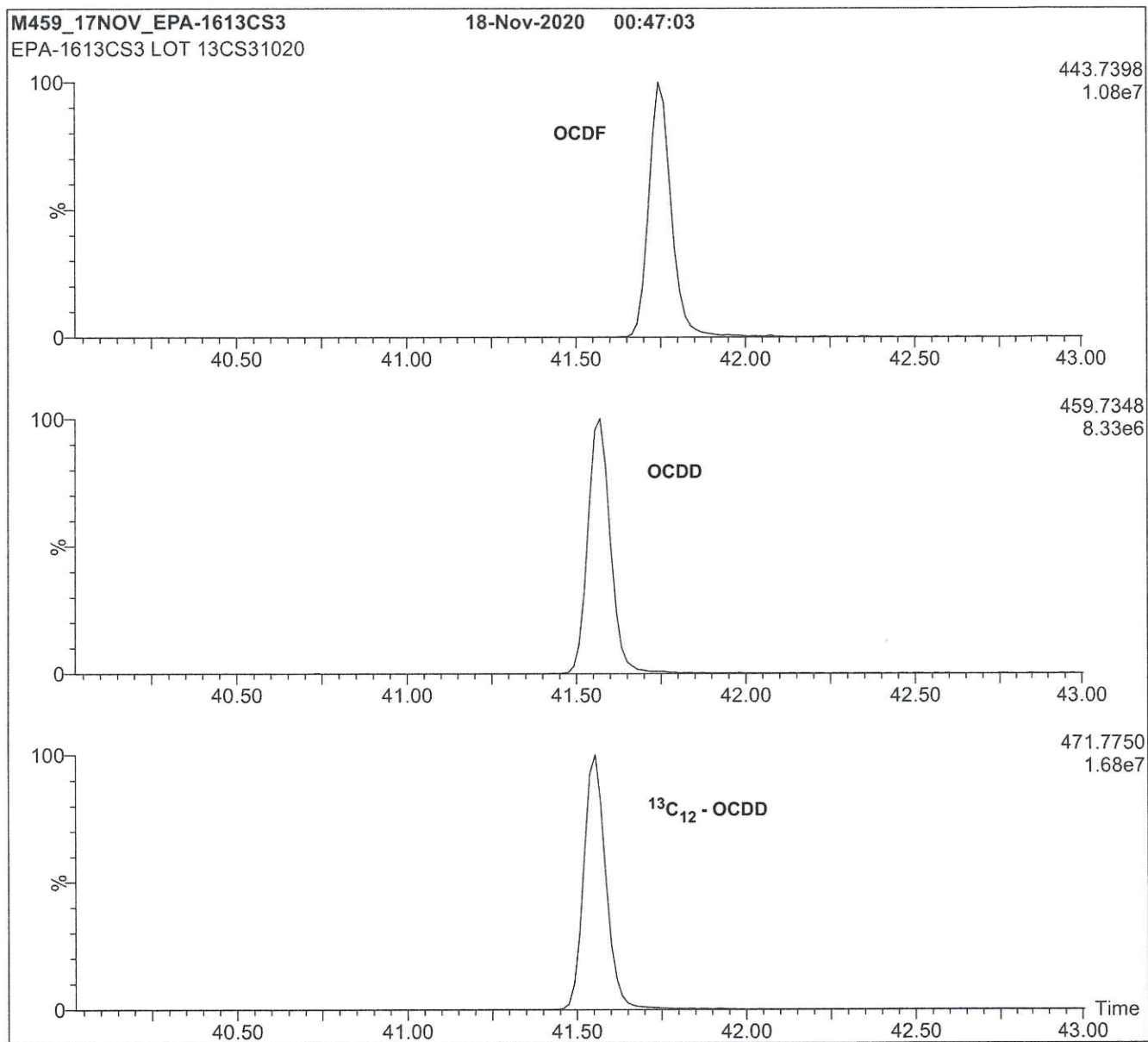


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 mL/min

Oven: 150°C (1 min)

Injector: 280°C (Splitless Injection)

12°C/min to 200°C

Ionization: EI+

3°C/min to 235°C

Detector: 280°C

235°C (8 min)

SIR at 10,000 mass resolving power

8°C/min to 310°C

310°C (8 min)

1613 High STD

Standard Laboratory ID Number:

Standard Description: 1613 HRMS High Level STD
 Standard Laboratory ID Number: HRMS_STD_200917A

Assigned Lab ID	Chemical Name	Stock Concentration(ng/mL)	Vendor/Part Number/location	Stock Volume (uL)	Final Volume (uL)	Solvent	Standard Concentration (ng/mL)
HRMS200523B	EPA 1613 Labeled Compound	100-200	CIL / EDF-8999	40	Evap to 40	nonane	100-200
HRMS200523A	EPA 1613 ISTD	200	CIL / EDF-5999	20	Evap to 40	nonane	100
HRMS190818B	EPA 1613 PAR	400-4000	CIL / EDF-7999-10X	40	Evap to 40	nonane	400-4000
HRMS200327A	EPA 1613 CLS	8	CIL / EDF-6999-10X	50	Evap to 40	nonane	10
Solution Prepared By: PB		Date Prepared: September 17, 2020			Expiration Date: September 17, 2022		
Solvent Lot: Nonane N/A		Refrigerator / Freezer No: NA					

Comments

Primary Review: Philip Bassignani

Date: 9/17/2020

Secondary Review: Arin Jones

Date: 9/17/2020

Comments

Primary Review: _____

Date: _____

Secondary Review: _____

Date: _____

Form #

Alpha Analytical Mansfield MA

Lims generated Standard Form

HRMS 191114
D-H
PB
Rec
11-14-14



Revision 00
Page 1 of 5

Cerilliant Quality

- ISO GUIDE 34
- ISO/IEC 17025
- ISO 13485
- ISO 15194
- ISO 9001
- GMP/GLP

Certificate of Analysis

Method 1613 Calibration Solutions (CS1 - CS5)¹


Catalog Number: EDF-9999
Kit Lot: ER01091701

Solution	C1	C2	C3	C4	C5
Product Number	EDF-9999-1	EDF-9999-2	EDF-9999-3	EDF-9999-4	EDF-9999-5
Lot Number	ER05061401	ER02251501	ER11051603	ER02251503	ER02251504

Expiration Date: September 2024
Solvent: n-Nonane
Volume per Ampule: Not less than 0.2 mL
Storage: Store at room temperature. Do not store cold.
Intended Use: For R&D/analytical purposes only. Not suitable for human or animal consumption.
Safety: **Danger. See Safety Data Sheet.**

- ¹ Linearity has been determined across the calibration solutions (CC1-CC5) by HRMS and meets EPA method requirements.
- Expiration Date has been established through real time stability studies.
 - Ampoules are overfilled to ensure a minimum 0.2 mL volume. We advise laboratories to use measured volumes of this standard solution before diluting to the desired concentration.

Cerilliant certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration/retest date when stored unopened as recommended. Product should be used shortly after opening to avoid concentration changes due to evaporation. Warranty does not apply to ampoules stored after opening.



 Darron Ellsworth, Quality Assurance Manager

March 07, 2017

 Date

Compound	Prepared Concentration (ng/mL)				
	CS1	CS2	CS3	CS4	CS5
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
2,3,7,8-Tetrachlorodibenzofuran	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8-Pentachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
2,3,4,7,8-Pentachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,6,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,7,8,9-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
2,3,4,6,7,8-Hexachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.500 ± 0.025	10.00 ± 0.10	50.00 ± 0.50	200.0 ± 2.0	1000 ± 10
Octachlorodibenzo-p-dioxin	5.000 ± 0.050	20.00 ± 0.20	100.0 ± 1.0	400.0 ± 4.0	2000 ± 20
Octachlorodibenzofuran	5.000 ± 0.050	20.00 ± 0.20	100.0 ± 1.0	400.0 ± 4.0	2000 ± 20
1,2,3,4-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ³⁷ Cl ₄	0.500 ± 0.005	2.000 ± 0.020	10.00 ± 0.10	40.00 ± 0.40	200.0 ± 2.0
2,3,7,8-Tetrachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8-Pentachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,4,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,7,8,9-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
2,3,4,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran- ¹³ C ₁₂	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0	100.0 ± 1.0
Octachlorodibenzo-p-dioxin- ¹³ C ₁₂	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0	200.0 ± 2.0

<i>Native Analytes</i>						
Analyte	Lot Number	CAS Number	Chemical Formula	Molecular Weight	Chromatographic Purity	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	ER061009-02	1746-01-6	C ₁₂ H ₄ Cl ₄ O ₂	321.97	99.2%	
2,3,7,8-Tetrachlorodibenzofuran	ER101211-02	51207-31-9	C ₁₂ H ₄ Cl ₄ O	305.97	99.4%	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	ER110909-02	40321-76-4	C ₁₂ H ₃ Cl ₅ O ₂	356.42	99.2%	
1,2,3,7,8-Pentachlorodibenzofuran	ER021511-01	57117-41-6	C ₁₂ H ₃ Cl ₅ O	340.42	99.5%	
2,3,4,7,8-Pentachlorodibenzofuran	ER070710-01	57117-31-4	C ₁₂ H ₃ Cl ₅ O	340.42	99.4%	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	ER080108-02	39227-28-6	C ₁₂ H ₂ Cl ₆ O ₂	390.86	98.6%	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	ER03231501	57653-85-7	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.6%	
	¹ ER072607-01	57653-85-7	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.3%	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	ER020111-01	19408-74-3	C ₁₂ H ₂ Cl ₆ O ₂	390.86	99.5%	
1,2,3,4,7,8-Hexachlorodibenzofuran	ER021110-01	70648-26-9	C ₁₂ H ₂ Cl ₆ O	374.86	99.0%	
1,2,3,6,7,8-Hexachlorodibenzofuran	ER010708-01	57117-44-9	C ₁₂ H ₂ Cl ₆ O	374.86	99.4%	
1,2,3,7,8,9-Hexachlorodibenzofuran	ER060107-01	72918-21-9	C ₁₂ H ₂ Cl ₆ O	374.86	97.5%	
2,3,4,6,7,8-Hexachlorodibenzofuran	ER100407-03	60851-34-5	C ₁₂ H ₂ Cl ₆ O	374.86	97.8%	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	ER01201504	35822-46-9	C ₁₂ HCl ₇ O ₂	425.31	98.5%	
	¹ ER100207-02	35822-46-9	C ₁₂ HCl ₇ O ₂	425.31	99.8%	
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ER02281403	67562-39-4	C ₁₂ HCl ₇ O	409.31	98.9%	
	¹ ER100307-03	67562-39-4	C ₁₂ HCl ₇ O	409.31	98.7%	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ER01121503	55673-89-7	C ₁₂ HCl ₇ O	409.31	99.1%	
	¹ ER072607-02	55673-89-7	C ₁₂ HCl ₇ O	409.31	98.7%	
Octachlorodibenzo-p-dioxin	ER05221301	3268-87-9	C ₁₂ Cl ₈ O ₂	459.75	99.9%	
Octachlorodibenzofuran	ER040811-01	39001-02-0	C ₁₂ Cl ₈ O	443.75	98.9%	

¹ Used for EDF-9999-1, ER05061401, only.

Labeled Analytes						
Analyte	Lot Number	CAS Number	Chemical Formula	Molecular Weight	Chromatographic Purity	
1,2,3,4-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER060710-01	114423-99-3	¹³ C ₁₂ H ₄ Cl ₄ O ₂	333.88	99.5%	
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER060407-02	76523-40-5	¹³ C ₁₂ H ₄ Cl ₄ O ₂	333.88	98.9%	
2,3,7,8-Tetrachlorodibenzo-p-dioxin- ³⁷ Cl ₄	ER052010-02	85508-50-5	C ₁₂ H ₄ ³⁷ Cl ₄ O ₂	328.02	98.3%	
2,3,7,8-Tetrachlorodibenzofuran- ¹³ C ₁₂	ER092507-01	89059-46-1	¹³ C ₁₂ H ₄ Cl ₄ O	317.88	99.4%	
1,2,3,7,8-Pentachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER030907-02	109719-79-1	¹³ C ₁₂ H ₃ Cl ₅ O ₂	368.33	99.2%	
1,2,3,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	ER012111-01	109719-77-9	¹³ C ₁₂ H ₃ Cl ₅ O	352.33	99.2%	
2,3,4,7,8-Pentachlorodibenzofuran- ¹³ C ₁₂	ER102607-01	116843-02-8	¹³ C ₁₂ H ₃ Cl ₅ O	352.33	99.0%	
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER012208-01	109719-80-4	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.2%	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER010209-01	109719-81-5	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.5%	
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER020111-02	109719-82-6	¹³ C ₁₂ H ₂ Cl ₆ O ₂	402.77	99.0%	
1,2,3,4,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER072810-02	114423-98-2	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	99.6%	
1,2,3,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER053107-03	116843-03-9	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	98.1%	
1,2,3,7,8,9-Hexachlorodibenzofuran- ¹³ C ₁₂	ER100107-01	116843-04-0	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	98.7%	
2,3,4,6,7,8-Hexachlorodibenzofuran- ¹³ C ₁₂	ER031507-03	116843-05-1	¹³ C ₁₂ H ₂ Cl ₆ O	386.77	99.4%	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER111010-01	109719-83-7	¹³ C ₁₂ HCl ₇ O ₂	437.22	98.9%	
1,2,3,4,6,7,8-Heptachlorodibenzofuran- ¹³ C ₁₂	ER020907-02	109719-84-8	¹³ C ₁₂ HCl ₇ O	421.22	97.6%	
1,2,3,4,7,8,9-Heptachlorodibenzofuran- ¹³ C ₁₂	ER053107-02	109719-94-0	¹³ C ₁₂ HCl ₇ O	421.22	98.3%	
Octachlorodibenzo-p-dioxin- ¹³ C ₁₂	ER071610-01	114423-97-1	¹³ C ₁₂ Cl ₈ O ₂	471.66	98.9%	

COA Revision History

Revision No.	Date	Reason for Revision
00	March 07, 2017	Initial version

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 09 2022, 03:27 pm

Work Group: WG1600060 for Department: 2 Organic Preparation

Created: 01-FEB-22 Due: Operator: CP

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2168782-21	SS-133-3-5.15	S A2-DIOXIN-1613	SOIL	DONE	U	1210	0215	S0	Glass-A.120
L2168782-22	SS-111-0-3	S A2-DIOXIN-1613	SOIL	DONE	U	1210	0215	S0	Glass-A.120
L2168782-23	SS-111-3-4.25	S A2-DIOXIN-1613	SOIL	DONE	U	1210	0215	S0	Glass-A.120
L2200947-19	SS-002-0-3	S A2-DIOXIN-1613	SOIL	DONE	U	1227	0204	S0	Glass-A.120
L2200947-20	SS-002-3-4.73	S A2-DIOXIN-1613	SOIL	DONE	U	1227	0204	S0	Glass-A.120
L2202953-01	USMPDI-014SC-A-14-15-201109	S A2-DIOXIN-1613	SOIL	DONE	U	1109	0209	S0	Glass-A.25
L2202953-02	USMPDI-014SC-A-15-16-201109	S A2-DIOXIN-1613	SOIL	DONE	U	1109	0209	S0	Glass-A.25
L2202953-03	USMPDI-017SC-A-16-17-210429	S A2-DIOXIN-1613	SOIL	DONE	U	0429	0209	S0	Glass-A.25
L2202953-04	USMPDI-028SC-A-05-6.3-210504	S A2-DIOXIN-1613	SOIL	DONE	U	0504	0209	S0	Glass-A.25
L2202953-05	USMPDI-040SC-A-09-10-201103	S A2-DIOXIN-1613	SOIL	DONE	U	1103	0209	S0	Glass-A.25
L2202953-06	USMPDI-044SC-A-15-16-201104	S A2-DIOXIN-1613	SOIL	DONE	U	1104	0209	S0	Glass-A.25
L2202953-07	USMPDI-044SC-A-16-17-201104	S A2-DIOXIN-1613	SOIL	DONE	U	1104	0209	S0	Glass-A.25
L2202953-08	USMPDI-047SC-A-05-06-201030	S A2-DIOXIN-1613	SOIL	DONE	U	1030	0209	S0	Glass-A.25
L2202953-09	USMPDI-056SC-A-05-06-201107	S A2-DIOXIN-1613	SOIL	DONE	U	1107	0209	S0	Glass-A.25
L2202953-10	USMPDI-056SC-A-06-07-201107	S A2-DIOXIN-1613	SOIL	DONE	U	1107	0209	S0	Glass-A.25
L2202953-11	USMPDI-004SC-A-05-06-201111	S A2-DIOXIN-1613	SOIL	DONE	U	1111	0209	S0	Glass-A.25
L2202953-12	USMPDI-004SC-A-06-07-201111	S A2-DIOXIN-1613	SOIL	DONE	U	1109	0209	S0	Glass-A.25
L2203719-01	2010873-01	S A2-DIOXIN-1613	SOIL	DONE	U	0114	0207	S0	Glass-A.25
L2203719-02	2010873-02	S A2-DIOXIN-1613	SOIL	DONE	U	0114	0207	S0	Glass-A.25
L2203719-03	2010873-03	S A2-DIOXIN-1613	SOIL	DONE	U	0114	0207	S0	Glass-A.25
WG1600060-1	Laboratory Method Bl	S A2-DIOXIN-1613	SOIL	DONE	U				
WG1600060-2	Laboratory Control S	S A2-DIOXIN-1613	SOIL	DONE	U				
WG1600060-3	Duplicate Sample	S A2-DIOXIN-1613	SOIL	DONE	U				
WG1600060-4	Matrix Spike	S A2-DIOXIN-1613	SOIL	DONE	U				
WG1600060-5	Matrix Spike Duplica	S A2-DIOXIN-1613	SOIL	DONE	U				

Comments:

WG1600060-3 L2200947-19
 WG1600060-4 L2200947-20
 WG1600060-5 L2200947-20

Sequence Logs

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_01	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	63	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_02	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	63	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_03	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	1	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_04	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	1	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_05	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_06	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_07	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_08	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_09	HRMS01B,PB,WG159987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_10	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\Resolution Check	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_11	HRMS01B,PB,WG1601676,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_12	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_13	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_14	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	3	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_15	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	3	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_16	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	4	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-.25
 Comment: HRMS210204A

File Name	Sample ID	Path
HRMS01_220204_17	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	4	1.0

Sample Name: IA1613STD-.5
 Comment: HRMS200402A

File Name	Sample ID	Path
HRMS01_220204_18	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	5	1.0

Sample Name: IA1613STD-.5
 Comment: HRMS200402A

File Name	Sample ID	Path
HRMS01_220204_19	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	5	1.0

Sample Name: IA1613STD-2
 Comment: HRMS200402B

File Name	Sample ID	Path
HRMS01_220204_20	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	6	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-2
 Comment: HRMS200402B

File Name	Sample ID	Path
HRMS01_220204_21	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	6	1.0

Sample Name: IA1613STD-10
 Comment: HRMS200402C

File Name	Sample ID	Path
HRMS01_220204_22	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	7	1.0

Sample Name: IA1613STD-10
 Comment: HRMS200402C

File Name	Sample ID	Path
HRMS01_220204_23	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	7	1.0

Sample Name: IA1613STD-40
 Comment: HRMS200402D

File Name	Sample ID	Path
HRMS01_220204_24	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	8	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-40
 Comment: HRMS200402D

File Name	Sample ID	Path
HRMS01_220204_25	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	8	1.0

Sample Name: IA1613STD-200
 Comment: HRMS200402E

File Name	Sample ID	Path
HRMS01_220204_26	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	9	1.0

Sample Name: IA1613STD-200
 Comment: HRMS200402E

File Name	Sample ID	Path
HRMS01_220204_27	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	9	1.0

Sample Name: IA1613STD-400
 Comment: HRMS200917A

File Name	Sample ID	Path
HRMS01_220204_28	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	10	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-400
 Comment: HRMS200917A

File Name	Sample ID	Path
HRMS01_220204_29	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	10	1.0

Sample Name: CA1613STD-10
 Comment: HRMS191114F

File Name	Sample ID	Path
HRMS01_220204_30	High, possible Carryover	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name: CA1613STD-10
 Comment: HRMS191114F

File Name	Sample ID	Path
HRMS01_220204_31	High, possible Carryover	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name: Blank
 Comment:

File Name	Sample ID	Path
HRMS01_220204_32	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_33	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_34	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_35	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_01	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	63	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_02	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	63	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_03	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	1	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_04	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\FT_EPA1613_Dual_FC43	1	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_05	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_06	HRMS01A,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_07	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	2	1.0

Sample Name: Dioxin CCV
 Comment: HRMS210628A

File Name	Sample ID	Path
HRMS01_220204_08	HRMS01B,PB,WG1599987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_09	HRMS01B,PB,WG159987,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_10	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\Dioxin\Resolution Check	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_11	HRMS01B,PB,WG1601676,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220204_12	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_13	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_14	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	3	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_15	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	3	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_16	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	4	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-.25
 Comment: HRMS210204A

File Name	Sample ID	Path
HRMS01_220204_17	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	4	1.0

Sample Name: IA1613STD-.5
 Comment: HRMS200402A

File Name	Sample ID	Path
HRMS01_220204_18	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	5	1.0

Sample Name: IA1613STD-.5
 Comment: HRMS200402A

File Name	Sample ID	Path
HRMS01_220204_19	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	5	1.0

Sample Name: IA1613STD-2
 Comment: HRMS200402B

File Name	Sample ID	Path
HRMS01_220204_20	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	6	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-2
 Comment: HRMS200402B

File Name	Sample ID	Path
HRMS01_220204_21	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	6	1.0

Sample Name: IA1613STD-10
 Comment: HRMS200402C

File Name	Sample ID	Path
HRMS01_220204_22	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	7	1.0

Sample Name: IA1613STD-10
 Comment: HRMS200402C

File Name	Sample ID	Path
HRMS01_220204_23	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	7	1.0

Sample Name: IA1613STD-40
 Comment: HRMS200402D

File Name	Sample ID	Path
HRMS01_220204_24	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	8	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-40
 Comment: HRMS200402D

File Name	Sample ID	Path
HRMS01_220204_25	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	8	1.0

Sample Name: IA1613STD-200
 Comment: HRMS200402E

File Name	Sample ID	Path
HRMS01_220204_26	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	9	1.0

Sample Name: IA1613STD-200
 Comment: HRMS200402E

File Name	Sample ID	Path
HRMS01_220204_27	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	9	1.0

Sample Name: IA1613STD-400
 Comment: HRMS200917A

File Name	Sample ID	Path
HRMS01_220204_28	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	10	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220204_CAL.sld

Sample Name: IA1613STD-400
 Comment: HRMS200917A

File Name	Sample ID	Path
HRMS01_220204_29	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	10	1.0

Sample Name: CA1613STD-10
 Comment: HRMS191114F

File Name	Sample ID	Path
HRMS01_220204_30	High, possible Carryover	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name: CA1613STD-10
 Comment: HRMS191114F

File Name	Sample ID	Path
HRMS01_220204_31	High, possible Carryover	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name: Blank
 Comment:

File Name	Sample ID	Path
HRMS01_220204_32	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_33	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	82	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_34	HRMS01B,PB,WG1537428,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220204_35	HRMS01A,PB,WG1601675,,,1613	C:\Xcalibur\Data\2022\February 2022\220204

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220204\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	15	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name: WG1602294-1
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_01	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\Dioxin\Resolution Check	2	1.0

Sample Name: WG1602307-1
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_02	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_03	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_04	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_04	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_05	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	109	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_06	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	110	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_07	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	111	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_07	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	111	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_08	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	112	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_09	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	113	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_10	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	114	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_10	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	114	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_11	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	115	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_12	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	116	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_13	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	117	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_13	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	117	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_14	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	118	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_15	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	119	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_16	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	120	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_16	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	120	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_17	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	121	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_18	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	122	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_19	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	123	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_19	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	123	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_20	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	124	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_21	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	125	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_22	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	126	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_22	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	126	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_23	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	127	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_24	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	128	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_25	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCA_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name: WG1602294-2
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_25	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCA_FC43	2	1.0

Sample Name: WG1602307-2
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_26	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name: WG1602294-1
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_01	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\Dioxin\Resolution Check	2	1.0

Sample Name: WG1602307-1
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_02	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_03	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_04	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_04	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_05	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	109	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_06	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	110	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_07	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	111	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_07	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	111	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_08	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	112	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_09	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	113	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_10	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	114	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_10	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	114	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_11	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	115	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_12	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	116	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_13	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	117	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_13	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	117	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_14	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	118	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_15	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	119	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_16	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	120	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_16	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	120	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_17	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	121	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_18	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	122	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_19	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	123	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_19	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	123	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_20	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	124	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_21	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	125	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_22	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	126	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_22	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	126	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_23	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	127	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_24	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	128	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_25	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCA_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name: WG1602294-2
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_25	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCA_FC43	2	1.0

Sample Name: WG1602307-2
 Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_26	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	2	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_27	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\Dioxin\Resolution Check	1	1.0

Sample Name: Tetra resolution
 Comment: HRMS211122A

File Name	Sample ID	Path
HRMS01_220207_28	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	1	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_28	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_GCB_FC43	1	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_29	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	109	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_30	Confirms, report original	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	110	1.0

Sample Name:
 Comment:

File Name	Sample ID	Path
HRMS01_220207_31	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	111	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_32	Confirms, report original	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	112	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_33	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	113	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_34	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	114	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_35	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	115	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_36	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	116	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_37	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	117	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_38	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	118	1.0

Sample Name:

Comment:

File Name	Sample ID	Path
HRMS01_220207_39	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2ml	119	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name: L2202953-11

Comment:

File Name	Sample ID	Path
HRMS01_220207_39	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	119	1.0

Sample Name: L2202953-12

Comment:

File Name	Sample ID	Path
HRMS01_220207_40	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43_2m	120	1.0

Sample Name: WG1602294-3

Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_41	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sample Name: WG1602307-3

Comment: HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_42	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Sequence---Thermo Xcalibur Sequence Setup - 220207.sld

Sample Name:	WG1602307-3
Comment:	HRMS210614B

File Name	Sample ID	Path
HRMS01_220207_42	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613	C:\Xcalibur\Data\2022\February 2022\220207

Inst Method	Position	InjVol
C:\Xcalibur\data\2022\February 2022\220207\Methods\Acquisition\ZB\FT_EPA1613_Dual_FC43	2	1.0

Analytical Event

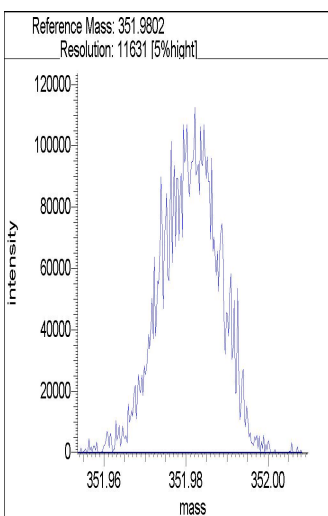
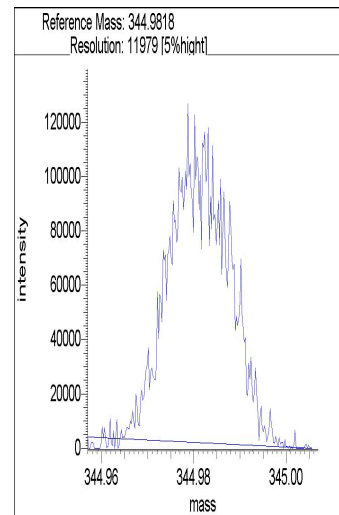
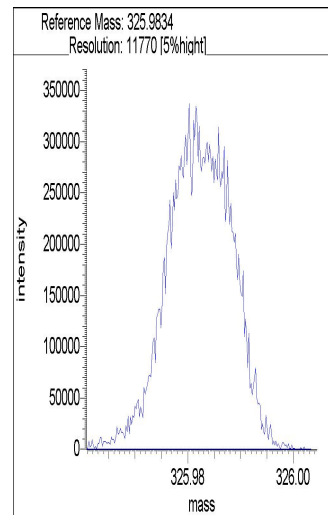
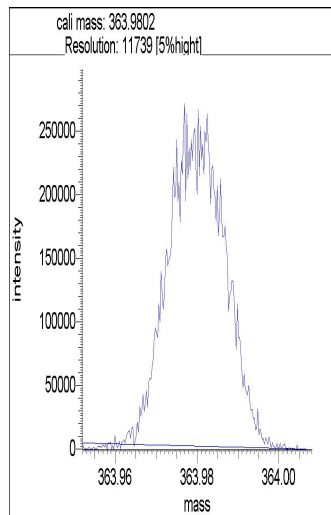
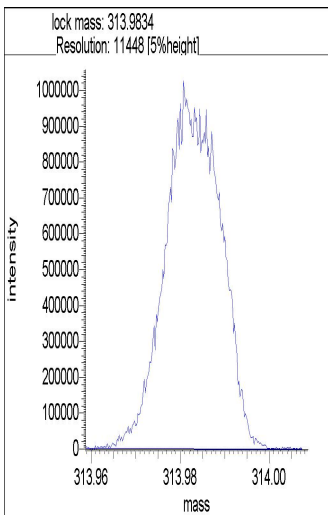
Continuing Calibration

Resolution Check Report (DFS SN: 1209)

Date: 07 Feb 2022 16:02
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

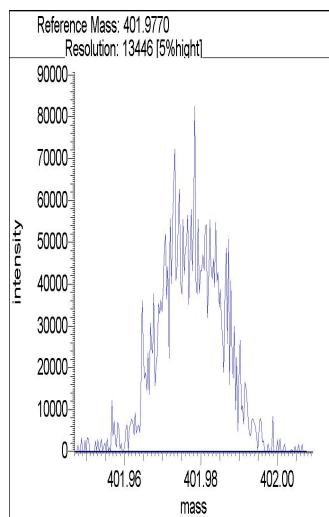
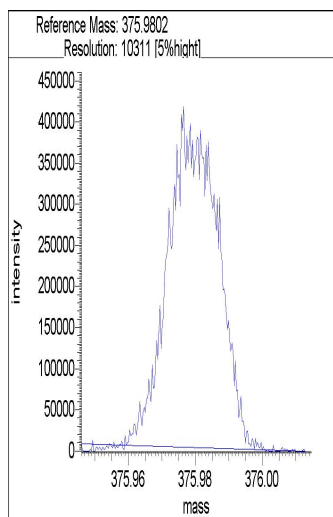
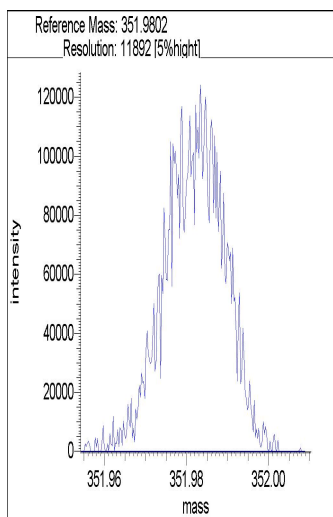
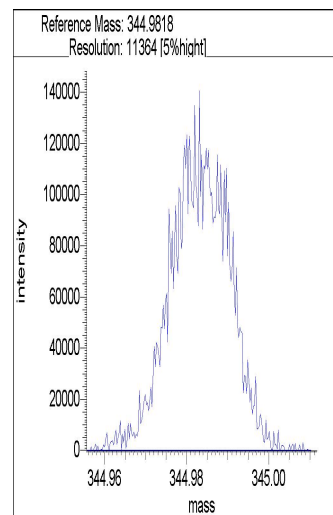
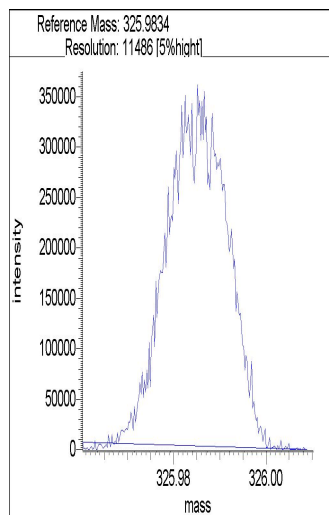
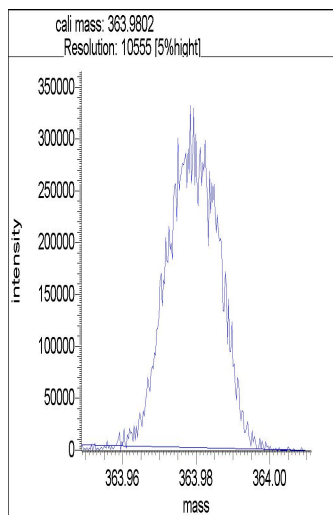
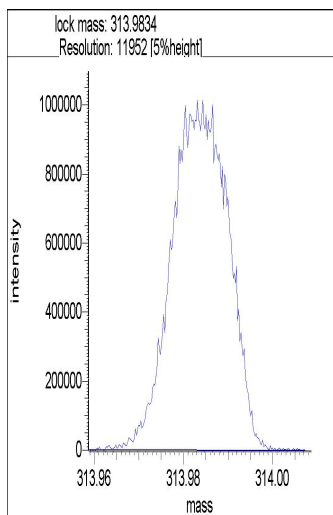
Lock mass 313.9834 [m/z] Resolution: 11448 [5%height]
Cali. mass 363.9802 [m/z] Resolution: 11739 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11770 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11979 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11631 [5%height]



Segment 2

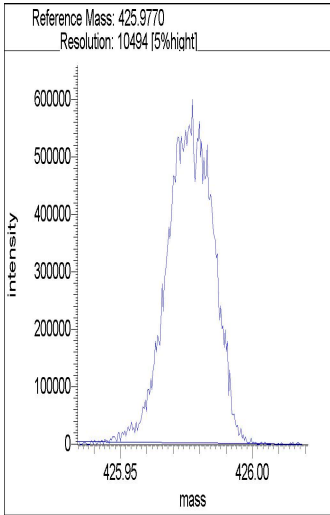
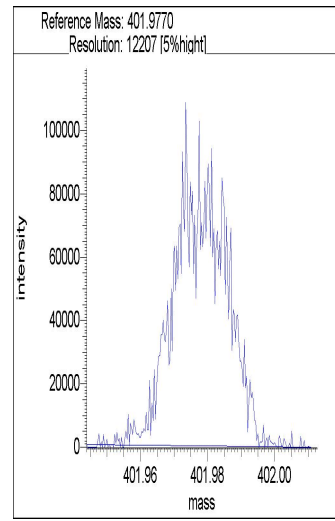
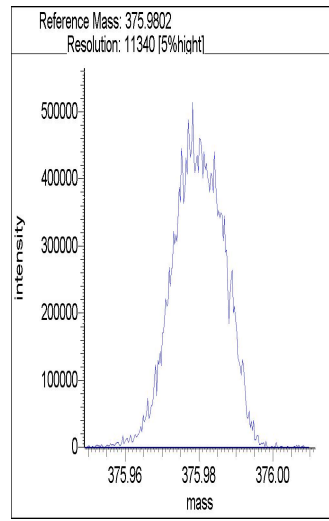
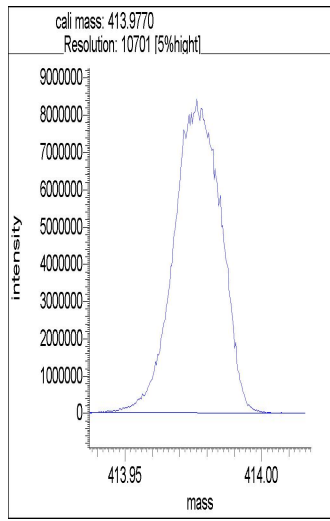
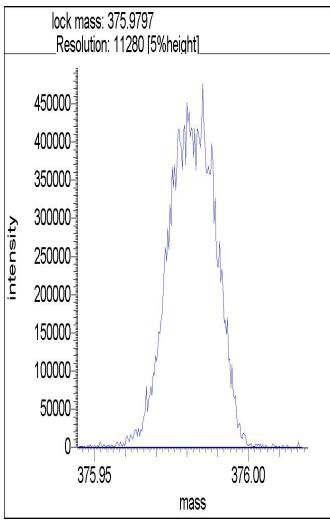
Lock mass 313.9834 [m/z] Resolution: 11952 [5%height]

Cali. mass 363.9802 [m/z] Resolution: 10555 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11486 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11364 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11892 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 10311 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 13446 [5%height]



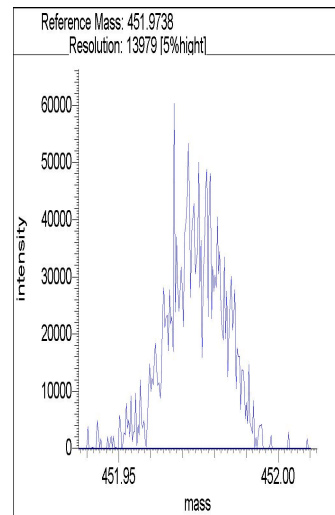
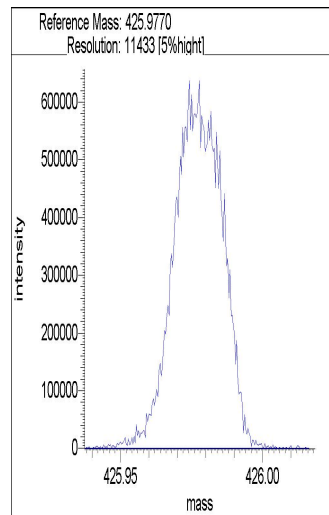
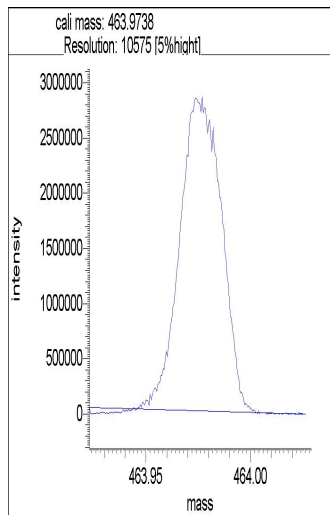
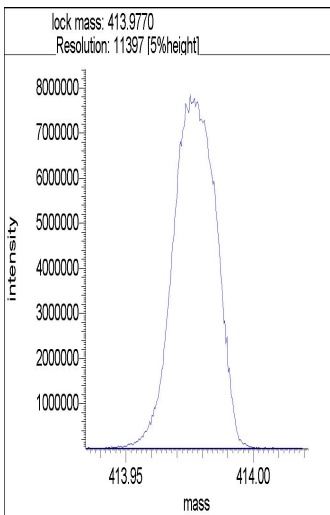
Segment 3

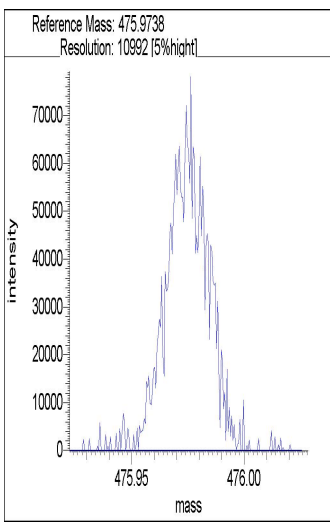
Lock mass 375.9797 [m/z] Resolution: 11280 [5%height]
Cali. mass 413.9770 [m/z] Resolution: 10701 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 11340 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12207 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 10494 [5%height]



Segment 4

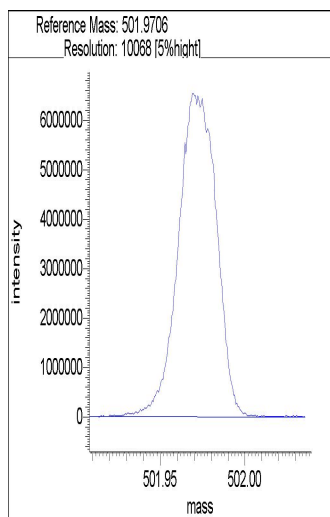
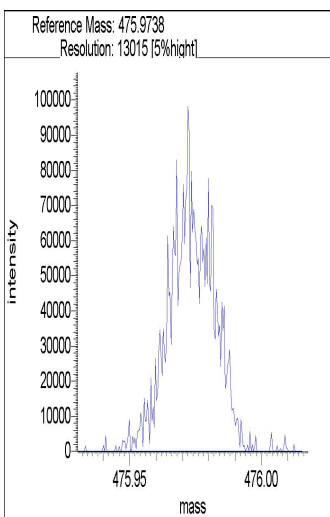
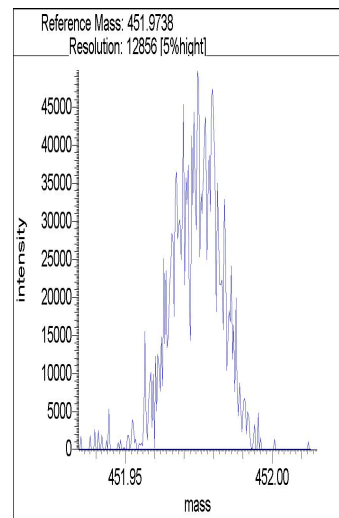
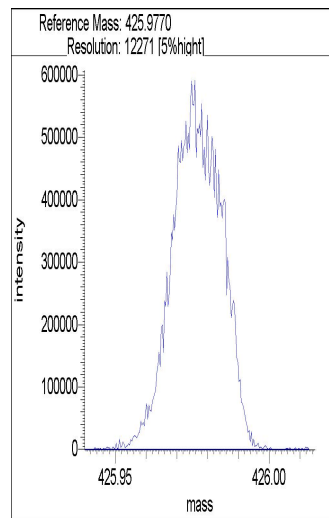
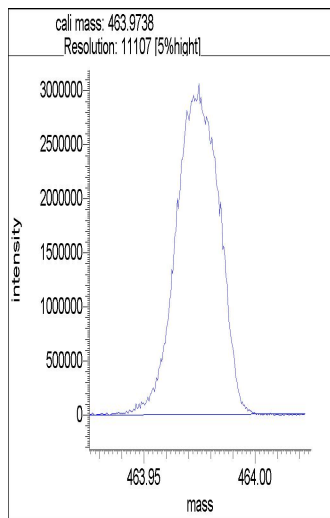
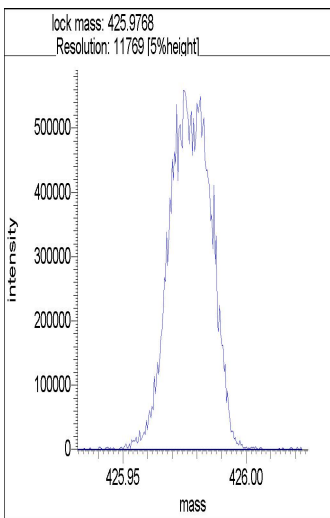
- Lock mass 413.9770 [m/z] Resolution: 11397 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 10575 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 11433 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13979 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 10992 [5%height]

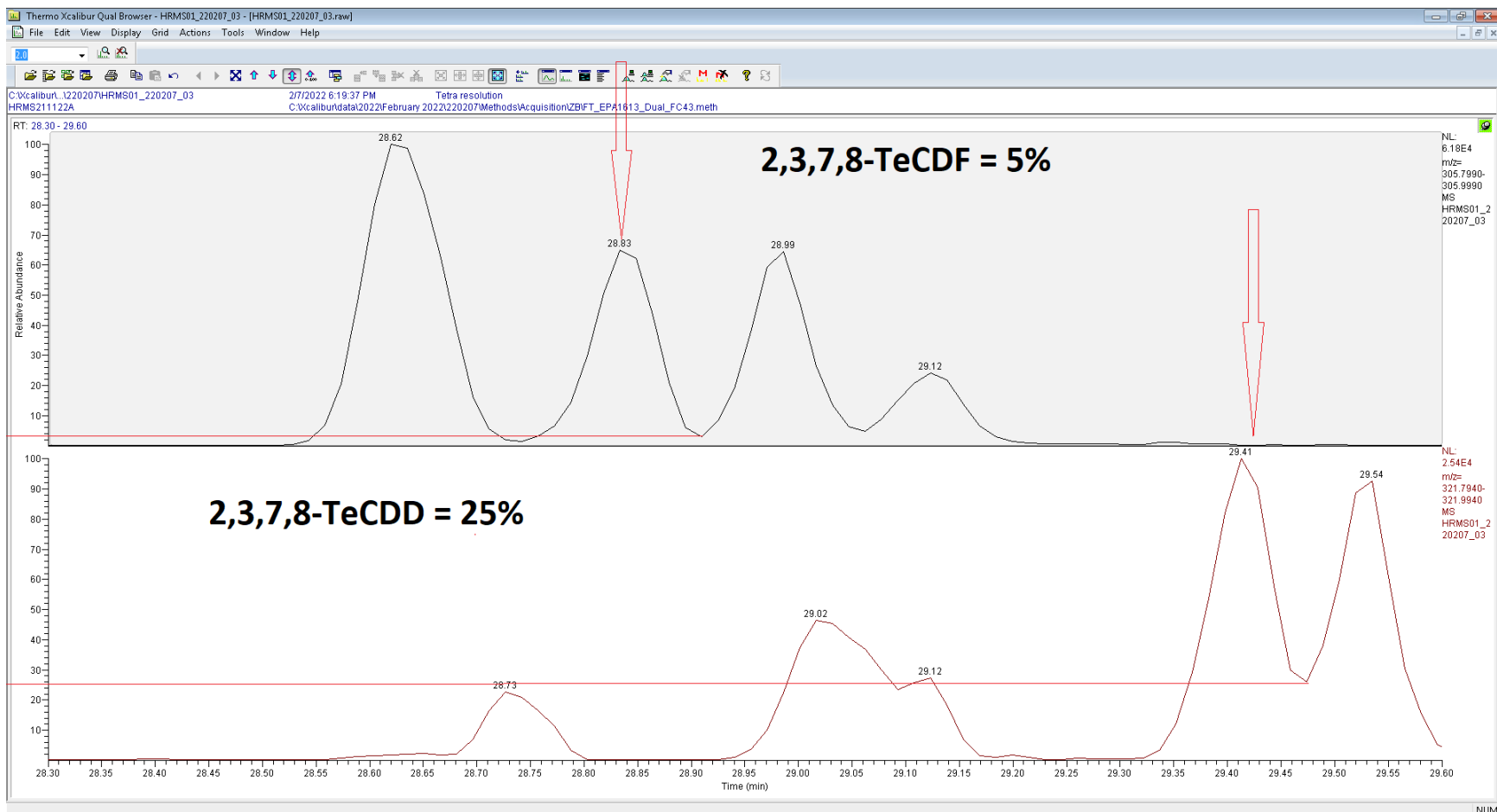




Segment 5

- Lock mass 425.9768 [m/z] Resolution: 11769 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 11107 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 12271 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 12856 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 13015 [5%height]
- Ref. mass 501.9706 [m/z] Resolution: 10068 [5%height]





Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/07 14:49
Number of Entries	72
Comment	HRMS210614B
Vial	2
Sample Name	WG1602294-1
Sample ID	HRMS01A,PB,WG1602294,WG1599613,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_01_seq
Data	hrms01_220207_01
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

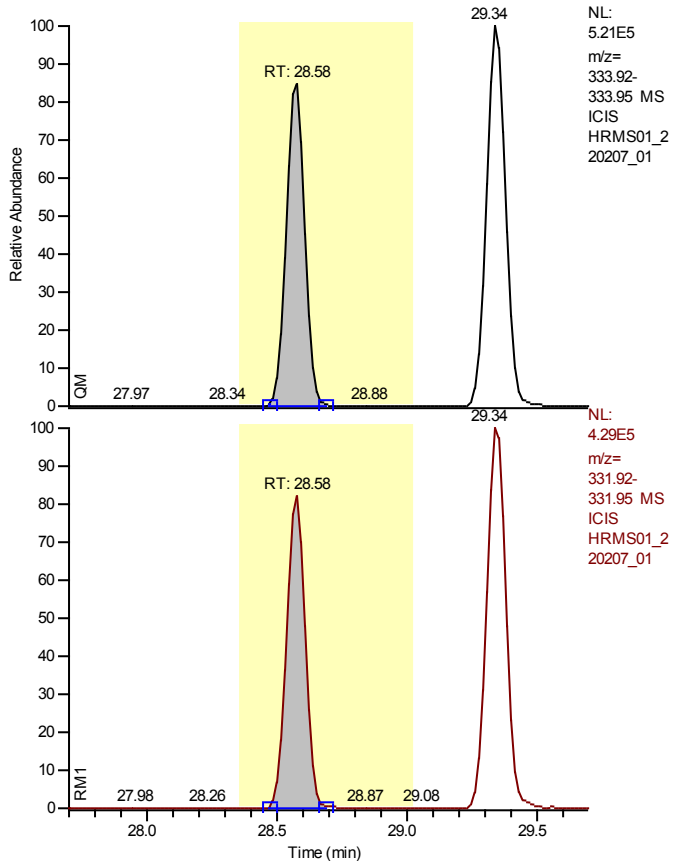
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		2164819	1746852	0.8069	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		3395275	2580123	0.7599	0.6500 - 0.8900	100.00	90.36	90	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	305813	240272	0.7857	0.6500 - 0.8900	10.00	8.87	89	0.8867
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	887113	681358	0.7681	0.6500 - 0.8900	10.00	25.47	255	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	298536	222864	0.7465	0.6500 - 0.8900	10.00	8.47	85	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	305813	240272	0.7857	0.6500 - 0.8900	10.00	8.87	89	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	282765	218222	0.7717	0.6500 - 0.8900	10.00	8.13	81	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		2622310	2190028	0.8352	0.6500 - 0.8900	100.00	103.61	104	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	269694	200708	0.7442	0.6500 - 0.8900	10.00	8.87	89	8.8684
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	1239519	950048	0.7665	0.6500 - 0.8900	10.00	41.28	413	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	389102	296947	0.7632	0.6500 - 0.8900	10.00	12.93	129	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	228858	180474	0.7886	0.6500 - 0.8900	10.00	7.72	77	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	116327	86038	0.7396	0.6500 - 0.8900	10.00	3.82	38	0.0000
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	269694	200708	0.7442	0.6500 - 0.8900	10.00	8.87	89	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	235538	185881	0.7892	0.6500 - 0.8900	10.00	7.94	79	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		2269848	3545220	1.5619	1.3200 - 1.7800	100.00	107.61	108	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	1059761	1616211	1.5251	1.3200 - 1.7800	50.00	45.74	91	1.3723
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	4748890	7244312	1.5255	1.3200 - 1.7800	50.00	194.67	389	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	1358976	2037811	1.4995	1.3200 - 1.7800	50.00	55.14	110	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	1059761	1616211	1.5251	1.3200 - 1.7800	50.00	43.44	87	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	1150329	1786708	1.5532	1.3200 - 1.7800	50.00	47.67	95	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	1179825	1803581	1.5287	1.3200 - 1.7800	50.00	48.43	97	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		2177455	3333646	1.5310	1.3200 - 1.7800	100.00	102.29	102	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	1150329	1786708	1.5532	1.3200 - 1.7800	50.00	47.68	95	14.3048
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1627856	2496964	1.5339	1.3200 - 1.7800	100.00	112.83	113	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	761774	1178211	1.5467	1.3200 - 1.7800	50.00	47.16	94	47.1616
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	2910623	4483260	1.5403	1.3200 - 1.7800	50.00	179.75	359	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	945441	1464483	1.5490	1.3200 - 1.7800	50.00	58.59	117	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	1203408	1840566	1.5295	1.3200 - 1.7800	50.00	74.00	148	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	761774	1178211	1.5467	1.3200 - 1.7800	50.00	47.16	94	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		448453	448453	1.0000	0.8500 - 1.1500	10.00	9.51	95	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		2104185	2560917	1.2171	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		3344901	1794291	0.5364	0.4300 - 0.5900	100.00	95.76	96	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	1295690	1596979	1.2325	1.0500 - 1.4300	50.00	45.14	90	4.5144
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	6332225	7812216	1.2337	1.0500 - 1.4300	50.00	216.92	434	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	1295690	1596979	1.2325	1.0500 - 1.4300	50.00	44.36	89	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	1227407	1507988	1.2286	1.0500 - 1.4300	50.00	41.95	84	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	1299809	1650972	1.2702	1.0500 - 1.4300	50.00	45.25	91	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	1277570	1570521	1.2293	1.0500 - 1.4300	50.00	43.68	87	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	1231747	1485755	1.2062	1.0500 - 1.4300	50.00	41.68	83	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		3584857	1865708	0.5204	0.4300 - 0.5900	100.00	91.89	92	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	1299809	1650972	1.2702	1.0500 - 1.4300	50.00	45.60	91	4.5596
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		3256808	1756589	0.5394	0.4300 - 0.5900	100.00	87.45	87	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	1277570	1570521	1.2293	1.0500 - 1.4300	50.00	45.99	92	4.5991
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		3322798	1713380	0.5156	0.4300 - 0.5900	100.00	91.62	92	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	1231747	1485755	1.2062	1.0500 - 1.4300	50.00	46.15	92	4.6153
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1793515	2201912	1.2277	1.0500 - 1.4300	100.00	97.14	97	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	940274	1157780	1.2313	1.0500 - 1.4300	50.00	47.92	96	4.7923
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	3917670	4827350	1.2322	1.0500 - 1.4300	50.00	196.32	393	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	1007164	1212969	1.2043	1.0500 - 1.4300	50.00	49.84	100	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	940274	1157780	1.2313	1.0500 - 1.4300	50.00	47.10	94	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	972639	1210261	1.2443	1.0500 - 1.4300	50.00	49.01	98	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	997592	1246341	1.2493	1.0500 - 1.4300	50.00	50.38	101	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1793515	2201912	1.2277	1.0500 - 1.4300	100.00	97.14	97	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	940274	1157780	1.2313	1.0500 - 1.4300	50.00	47.92	96	4.7923
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	997592	1246341	1.2493	1.0500 - 1.4300	50.00	48.61	97	4.8606
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		3275547	1404129	0.4287	0.3700 - 0.5100	100.00	88.83	89	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	1399855	1441581	1.0298	0.8800 - 1.2000	50.00	45.00	90	0.4500
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	2769899	2885641	1.0418	0.8800 - 1.2000	50.00	94.07	188	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	1388503	1428766	1.0290	0.8800 - 1.2000	50.00	46.86	94	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	1381396	1456875	1.0546	0.8800 - 1.2000	50.00	47.21	94	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		3169789	1370331	0.4323	0.3700 - 0.5100	100.00	93.00	93	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	1381396	1456875	1.0546	0.8800 - 1.2000	50.00	47.50	95	0.4750
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		2108524	2197960	1.0424	0.8800 - 1.2000	100.00	103.11	103	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1095497	1153199	1.0527	0.8800 - 1.2000	50.00	47.11	94	0.4711
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	2249129	2348765	1.0443	0.8800 - 1.2000	50.00	96.33	193	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1153633	1195566	1.0363	0.8800 - 1.2000	50.00	49.22	98	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	1095497	1153199	1.0527	0.8800 - 1.2000	50.00	47.11	94	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		4673512	4293072	0.9186	0.7600 - 1.0200	200.00	241.83	121	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	2690393	2458356	0.9138	0.7600 - 1.0200	100.00	81.59	82	0.0245
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	2283963	2057396	0.9008	0.7600 - 1.0200	100.00	91.38	91	0.0274
72	overall TEQ	overall TEQ test		20381433	23455647	1.1508	0.0000 - 0.0000	0.00	798.25	---	106.7754

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

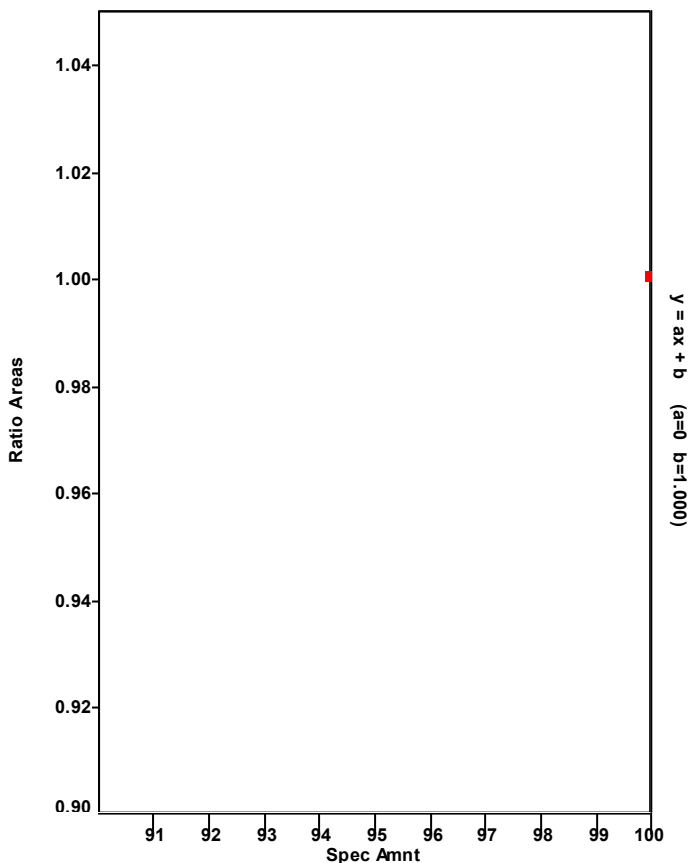


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	2164819
RM1 Area	1746852
RM1 Ratio (A)	0.8069
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

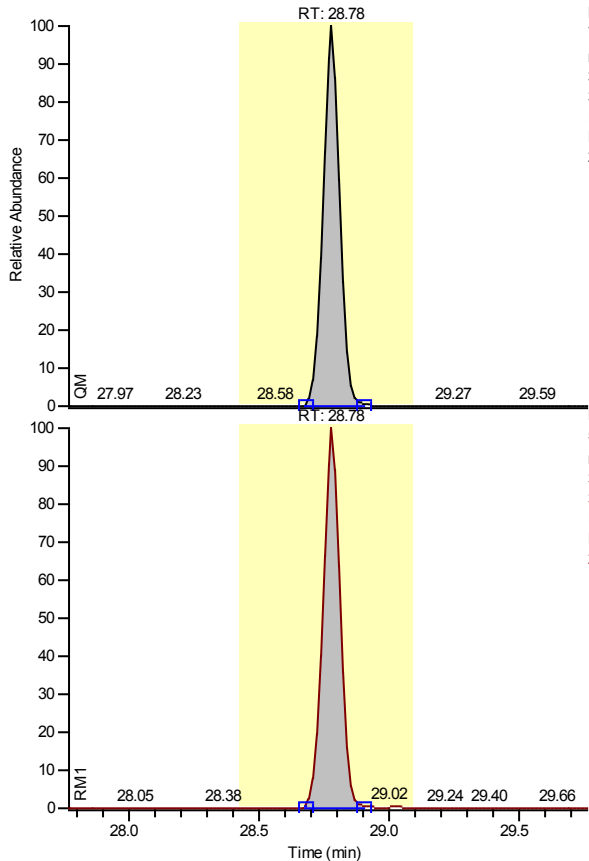
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.76 - 29.76 SM: 7G



NL:
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m/z=
317.92-
317.95 MS
ICIS
HRMS01_2
20207_01

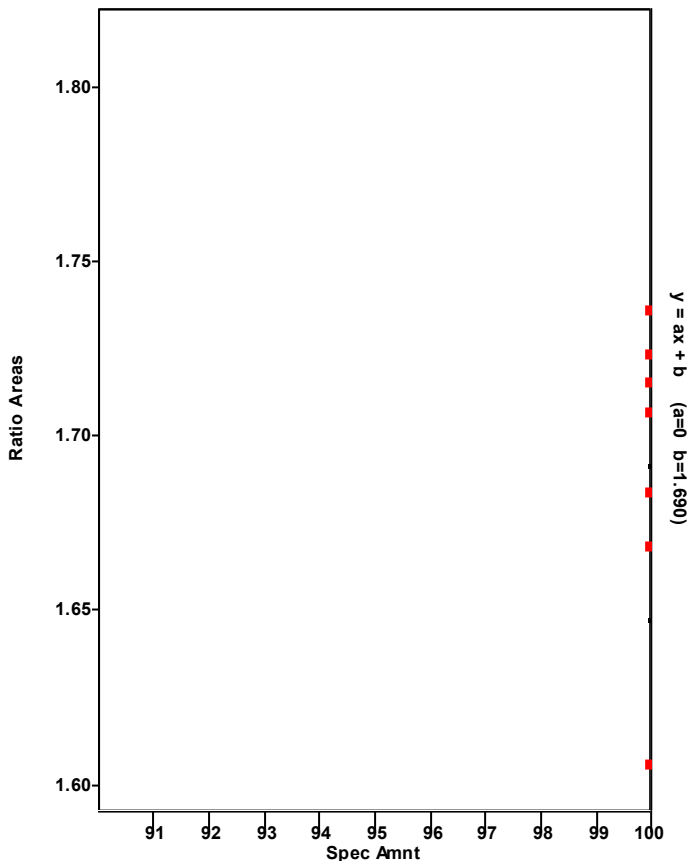
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	3395275
RM1 Area	2580123
RM1 Ratio (A)	0.7599
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	90.36
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

NL:
5.20E5
m/z=
315.93-
315.96 MS
ICIS
HRMS01_2
20207_01

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

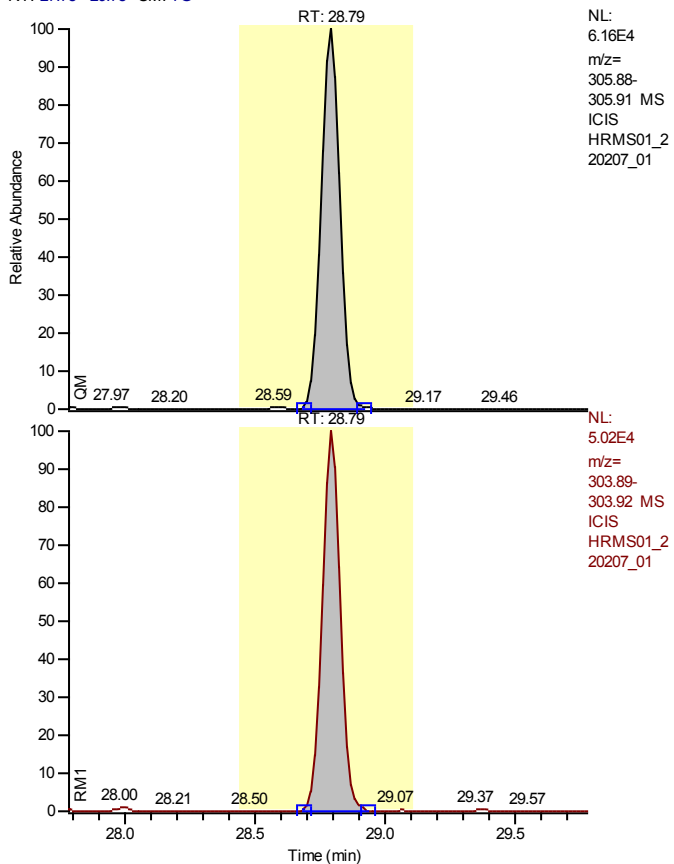
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.78 - 29.78 SM: 7G

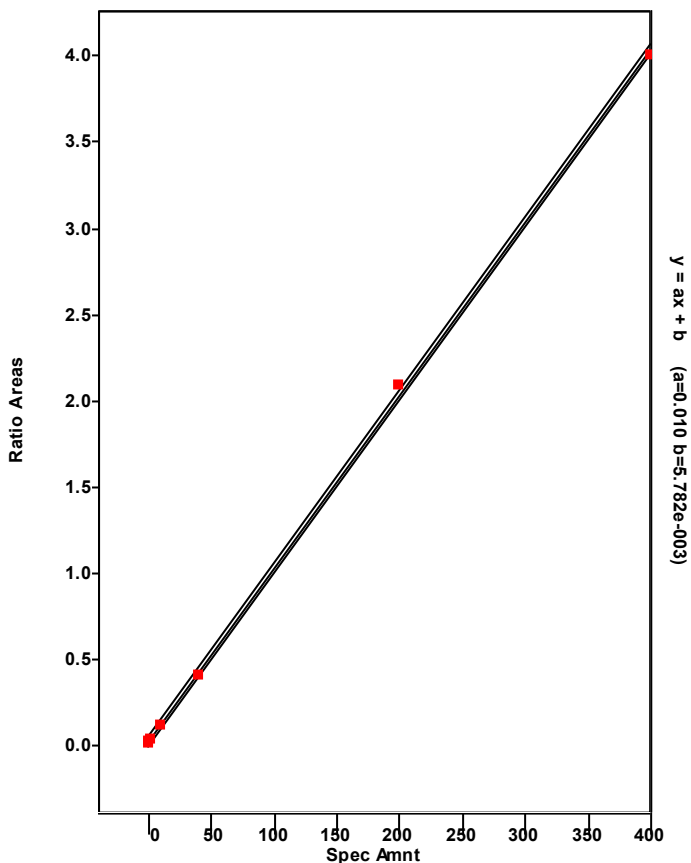


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	305813
RM1 Area	240272
RM1 Ratio (A)	0.7857
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.87
Percent Recovery (A)	89
TEQ (A)	0.8867
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

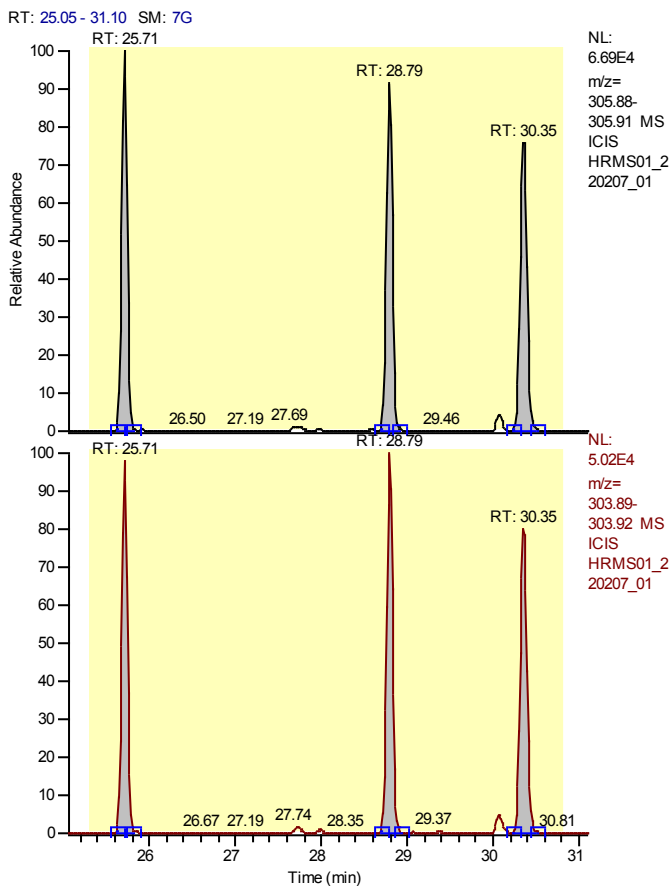
Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

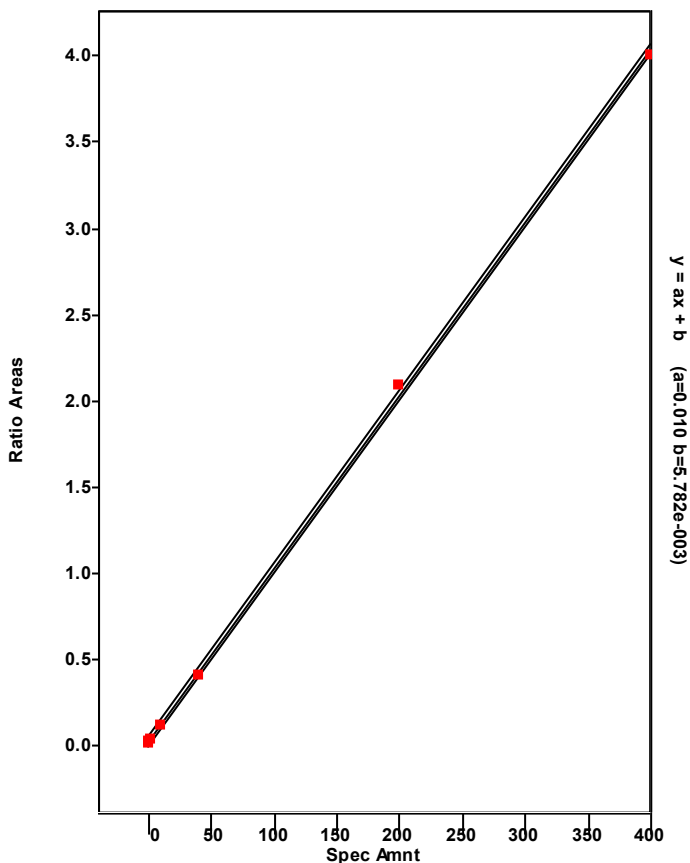


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	887113
RM1 Area	681358
RM1 Ratio (A)	0.7681
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	25.47
Percent Recovery (A)	255
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

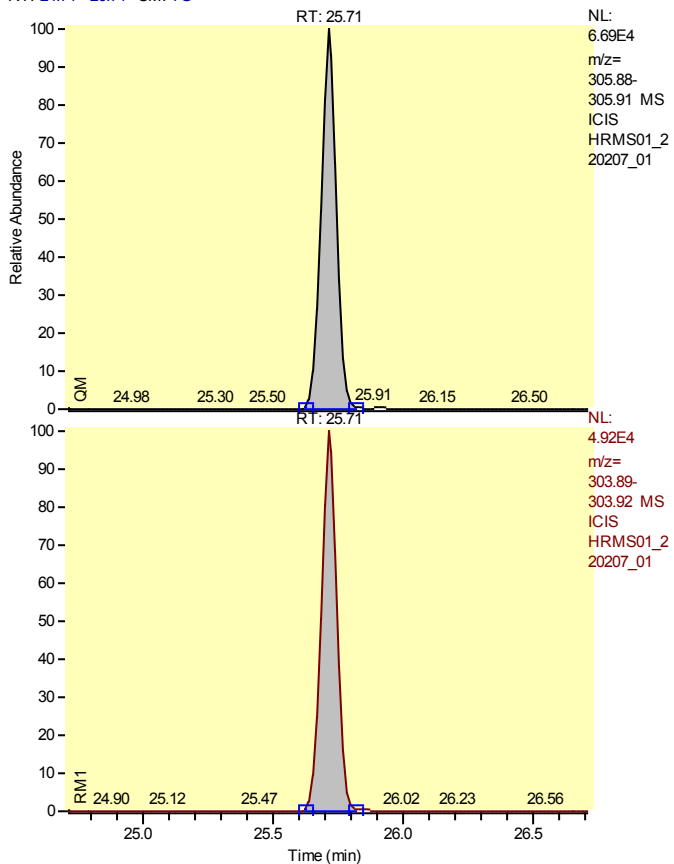
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.71 - 26.71 SM: 7G

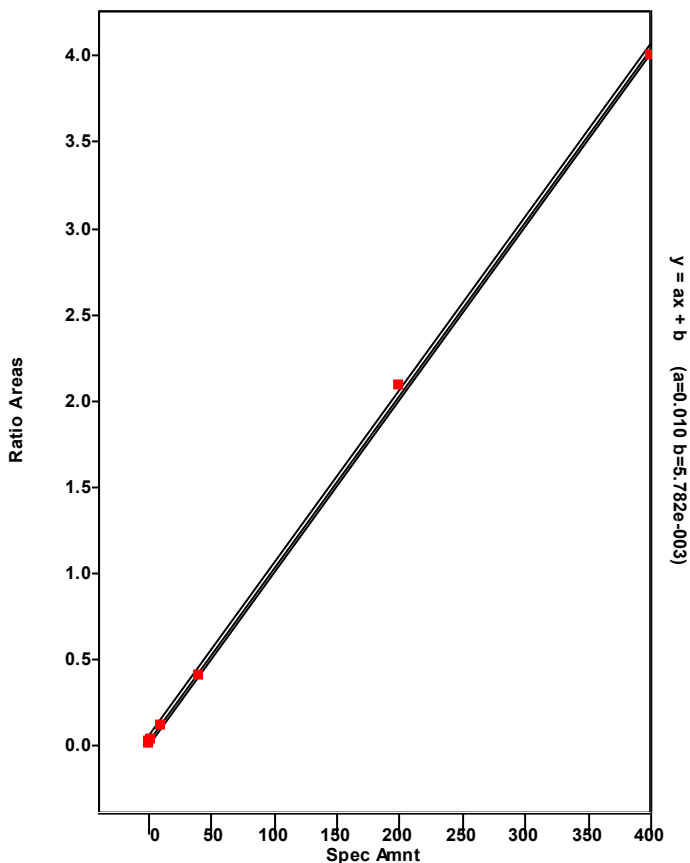


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	298536
RM1 Area	222864
RM1 Ratio (A)	0.7465
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.47
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

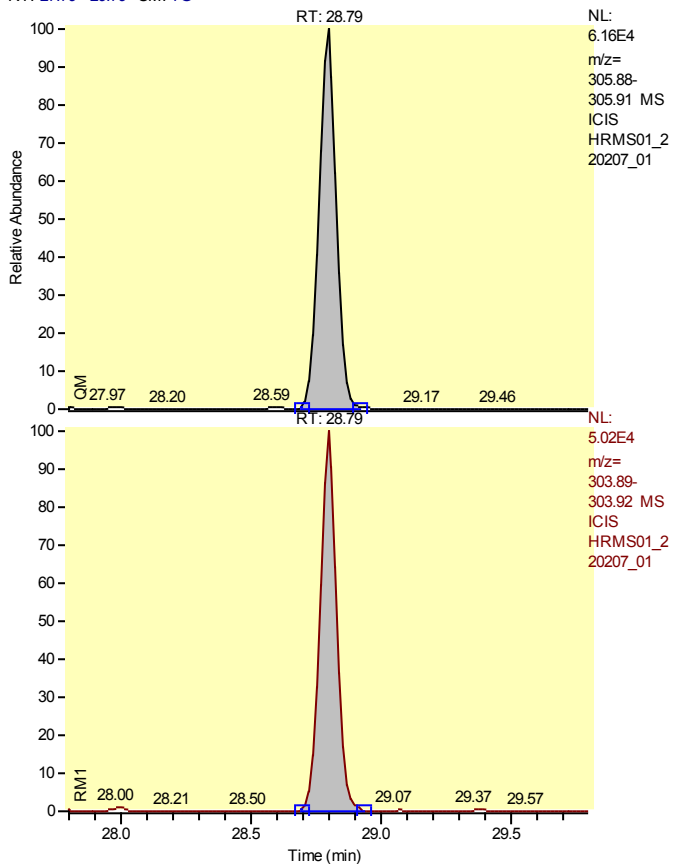
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.79 - 29.79 SM: 7G

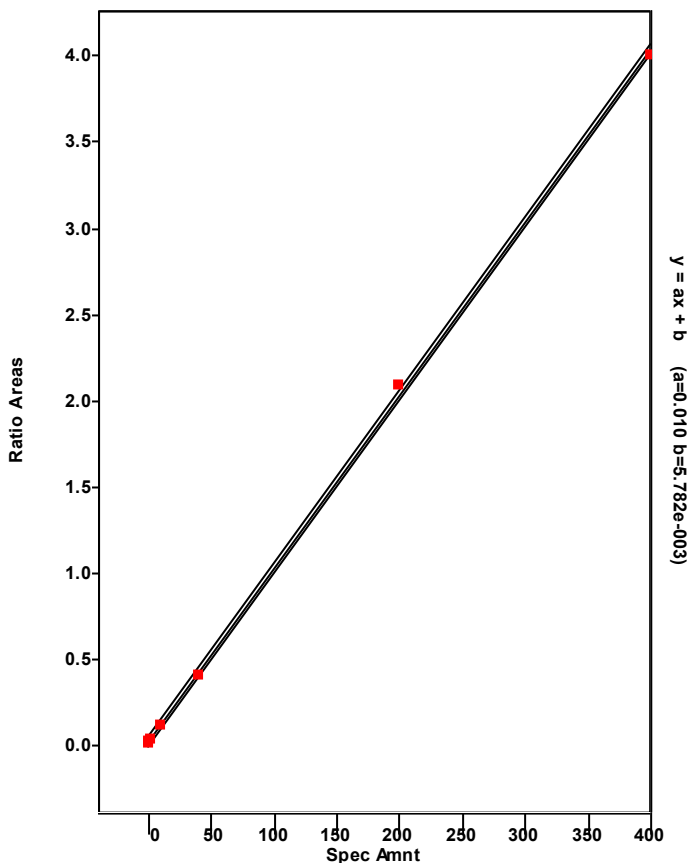


Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	305813
RM1 Area	240272
RM1 Ratio (A)	0.7857
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.87
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

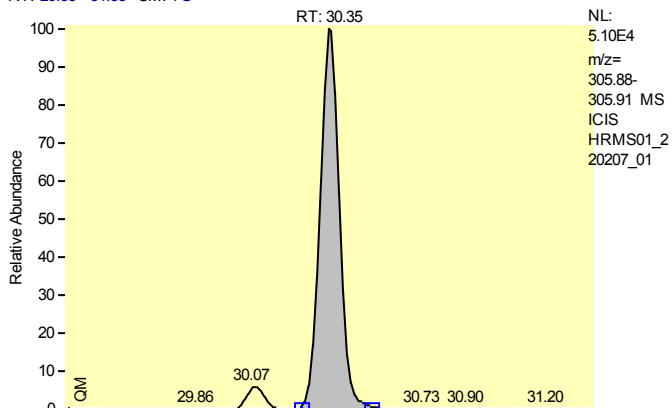
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

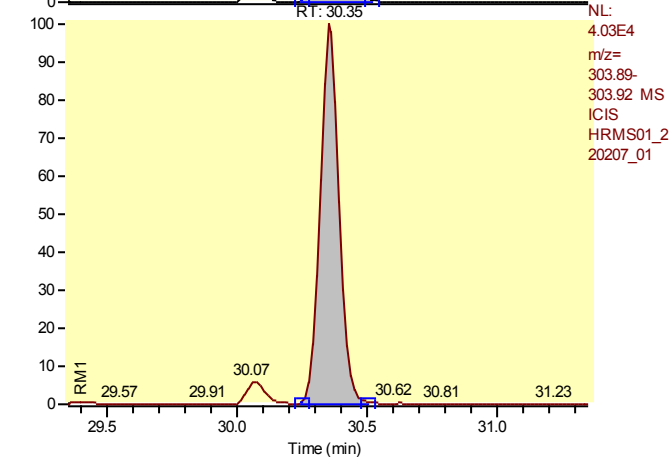
Entry Parameters

RT: 29.35 - 31.35 SM: 7G



NL: 5.10E4
 m/z= 305.88-305.91 MS
 ICIS HRMS01_2 20207_01

Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	282765
RM1 Area	218222
RM1 Ratio (A)	0.7717
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.13
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	

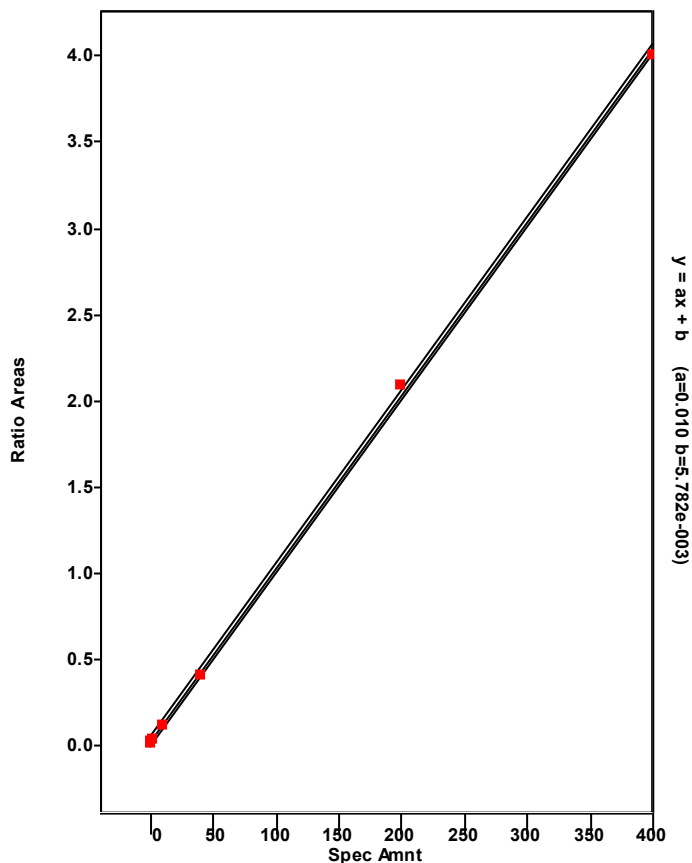


NL: 4.03E4
 m/z= 303.89-303.92 MS
 ICIS HRMS01_2 20207_01

Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

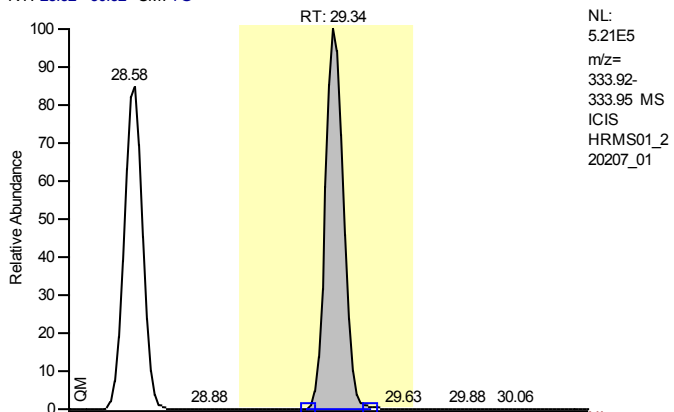
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

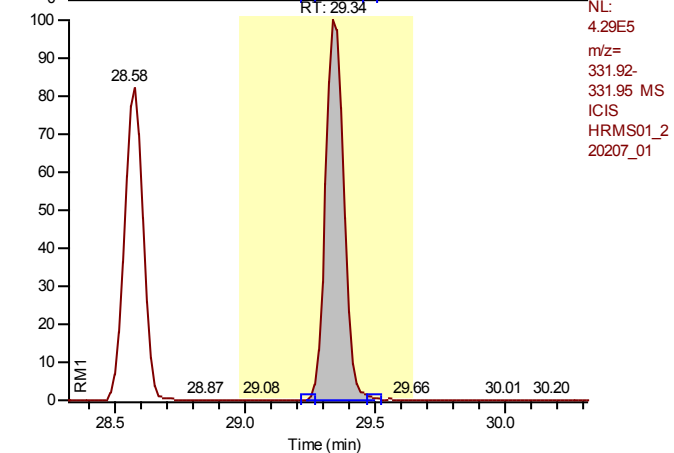
Entry Parameters

RT: 28.32 - 30.32 SM: 7G



NL:
 5.21E5
 m/z=
 333.92-
 333.95 MS
 ICIS
 HRMS01_2
 20207_01

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	2622310
RM1 Area	2190028
RM1 Ratio (A)	0.8352
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	103.61
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	

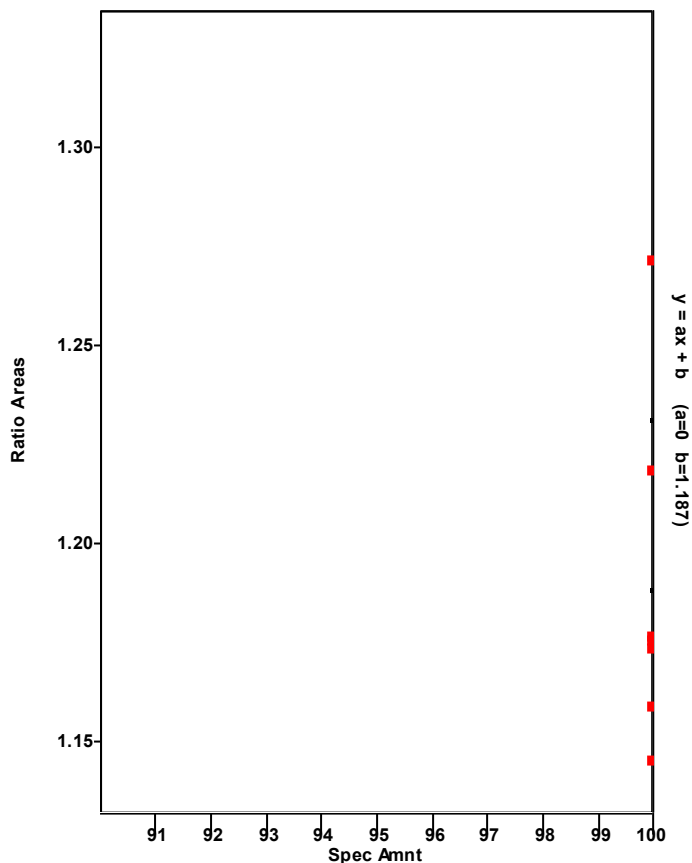


NL:
 4.29E5
 m/z=
 331.92-
 331.95 MS
 ICIS
 HRMS01_2
 20207_01

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

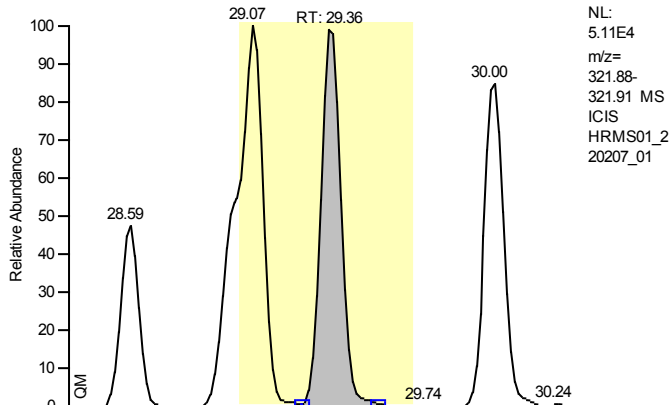
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



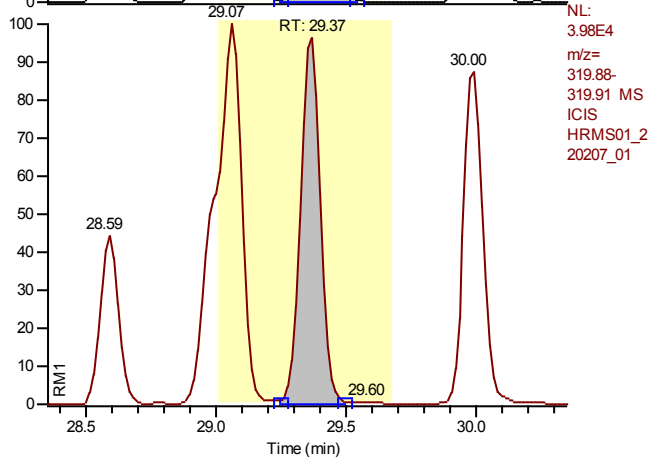
Chromatogram

Entry Parameters

RT: 28.35 - 30.35 SM: 7G



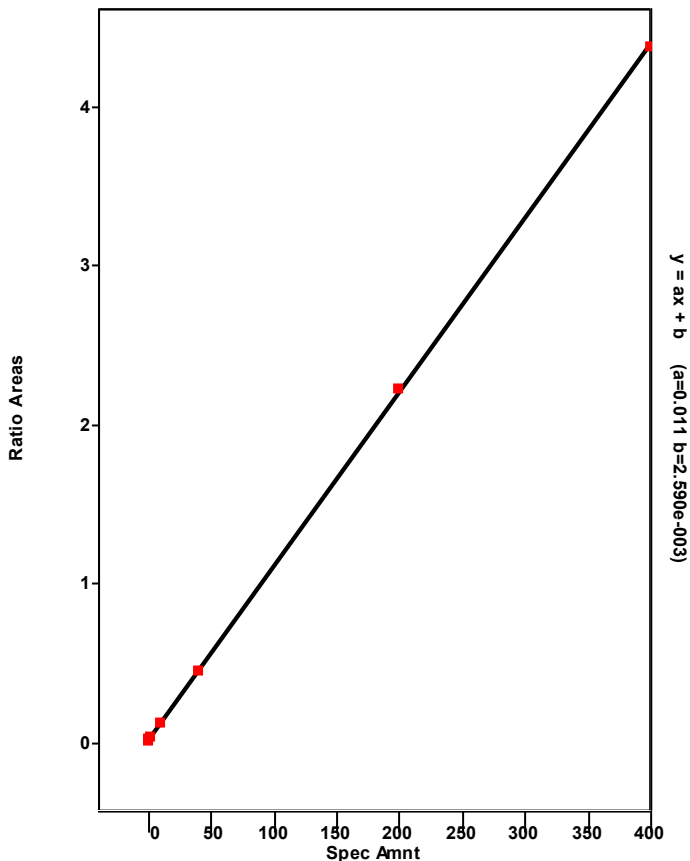
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	269694
RM1 Area	200708
RM1 Ratio (A)	0.7442
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.87
Percent Recovery (A)	89
TEQ (A)	8.8684
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

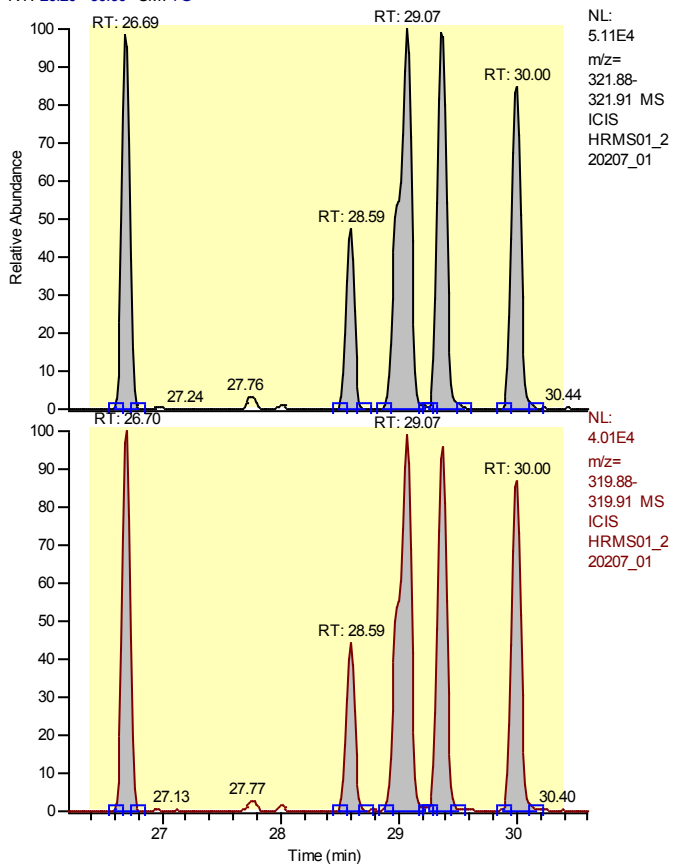
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.20 - 30.60 SM: 7G

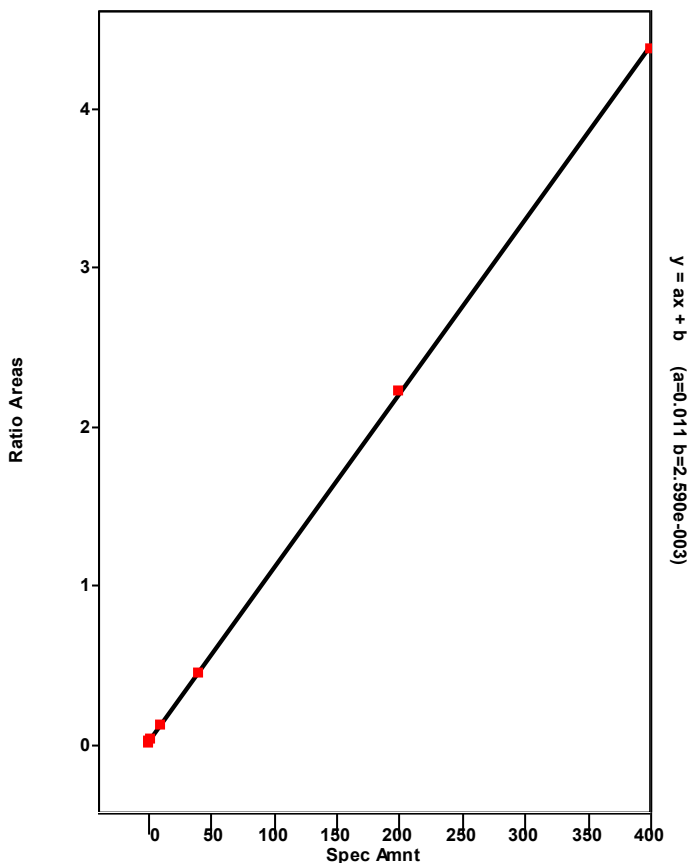


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	1239519
RM1 Area	950048
RM1 Ratio (A)	0.7665
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	41.28
Percent Recovery (A)	413
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

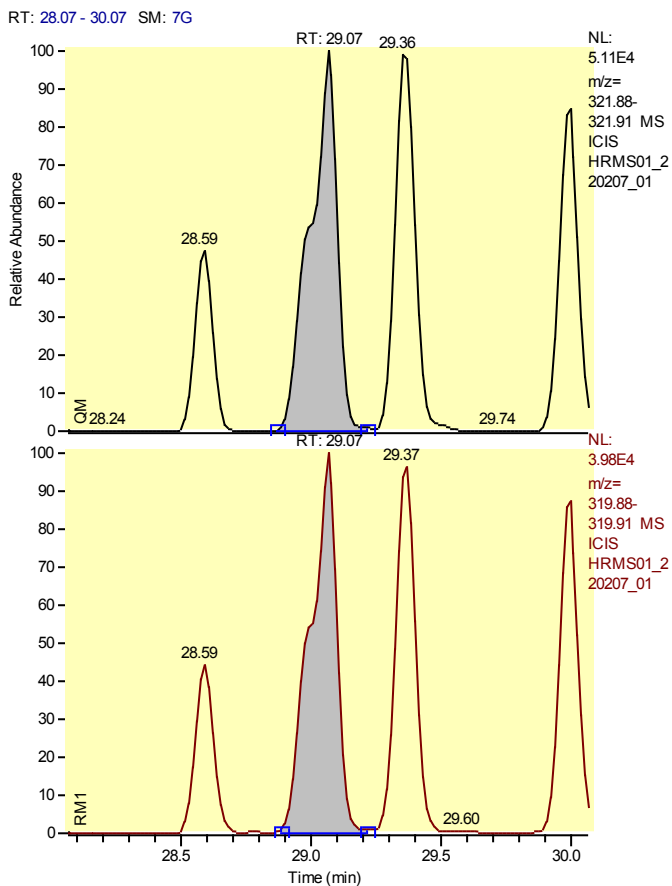
Calibration Points of Total Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

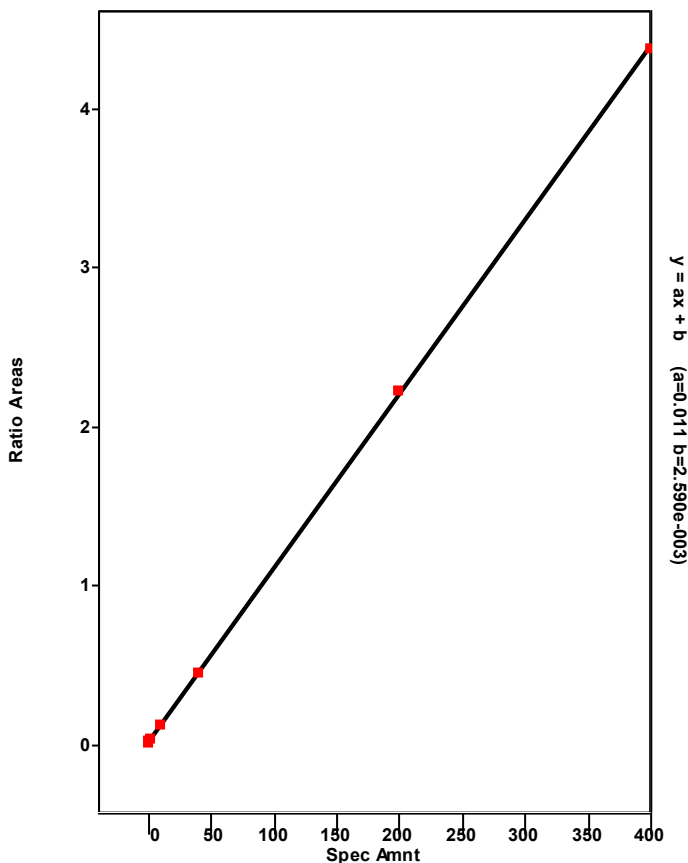


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	389102
RM1 Area	296947
RM1 Ratio (A)	0.7632
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	12.93
Percent Recovery (A)	129
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C-12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

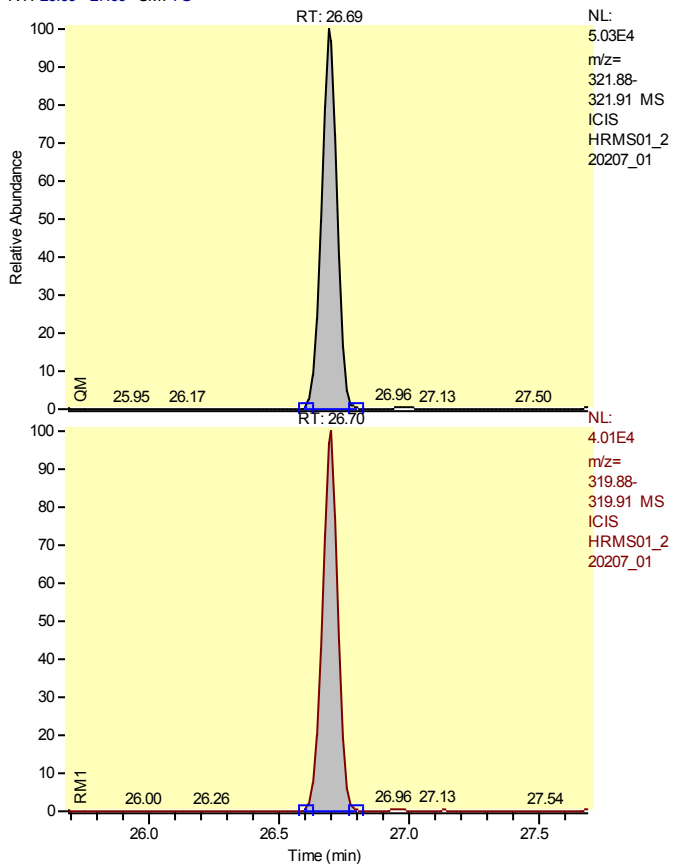
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.69 - 27.69 SM: 7G

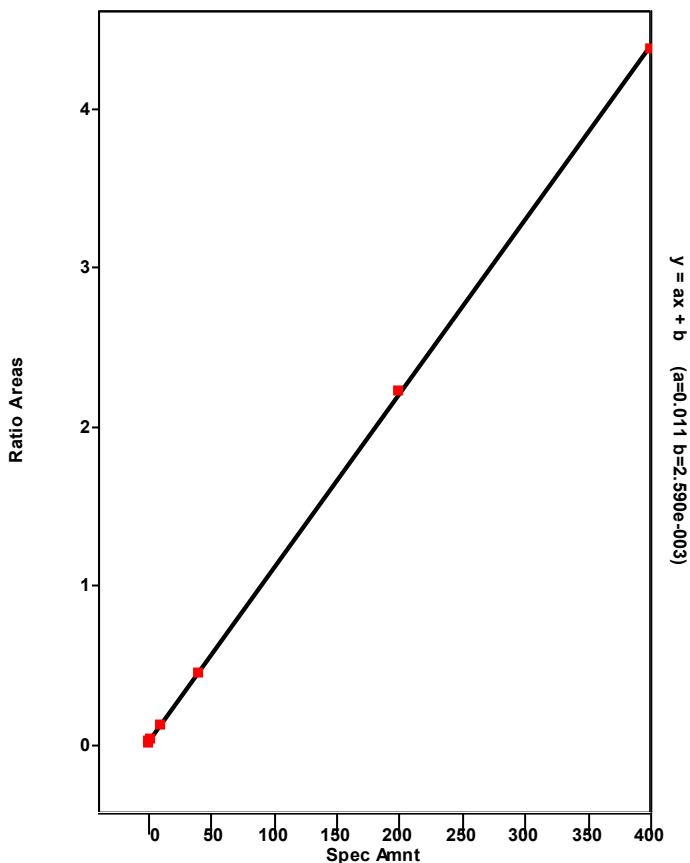


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	228858
RM1 Area	180474
RM1 Ratio (A)	0.7886
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	7.72
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

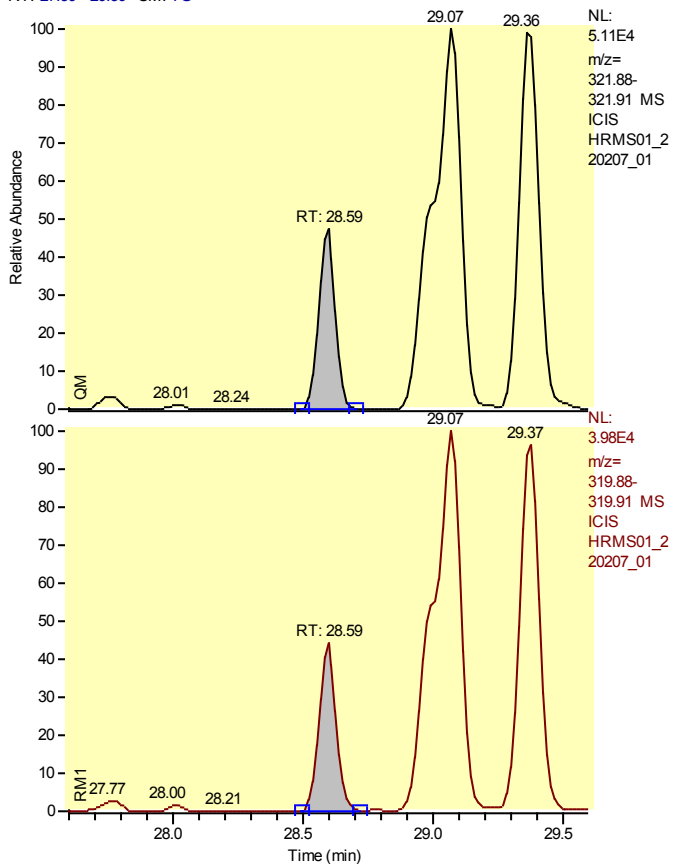
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 27.59 - 29.59 SM: 7G

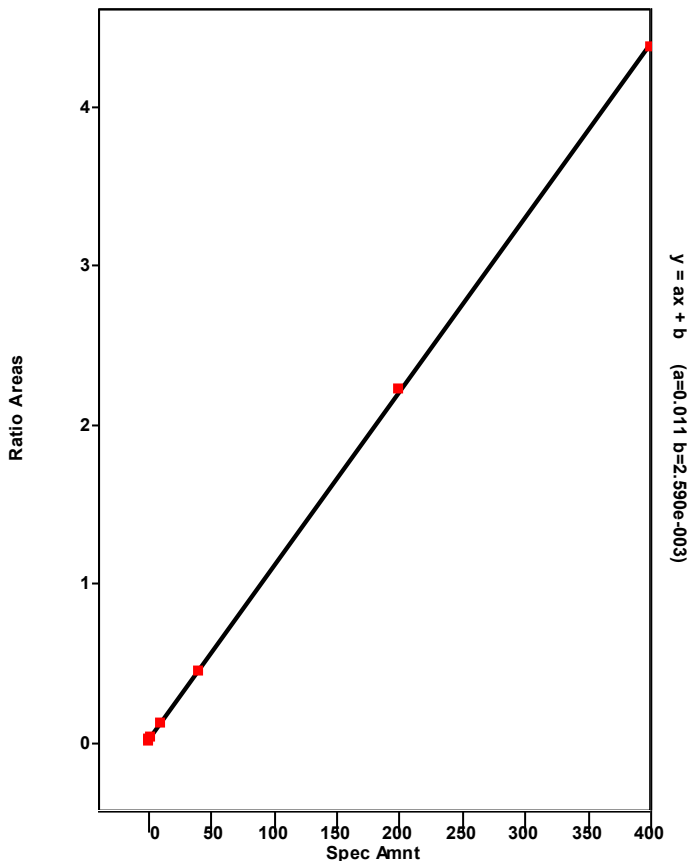


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	116327
RM1 Area	86038
RM1 Ratio (A)	0.7396
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	3.82
Percent Recovery (A)	38
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C-12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

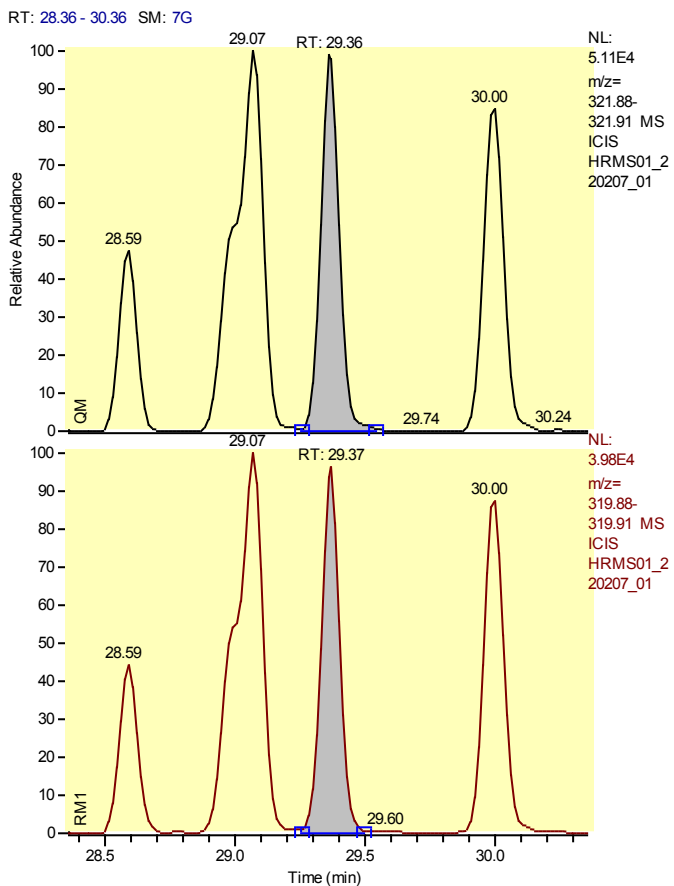
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

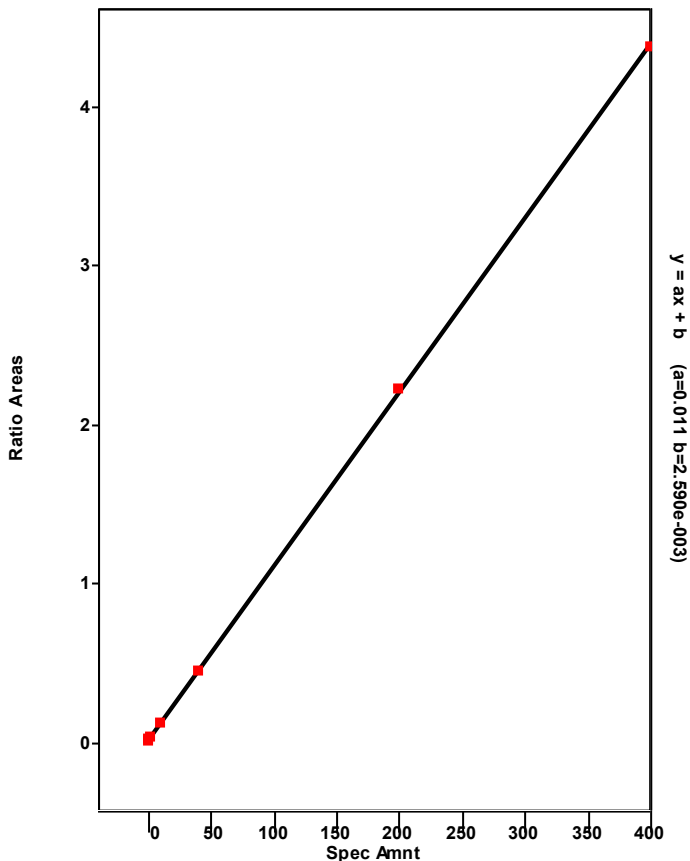


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	269694
RM1 Area	200708
RM1 Ratio (A)	0.7442
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.87
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

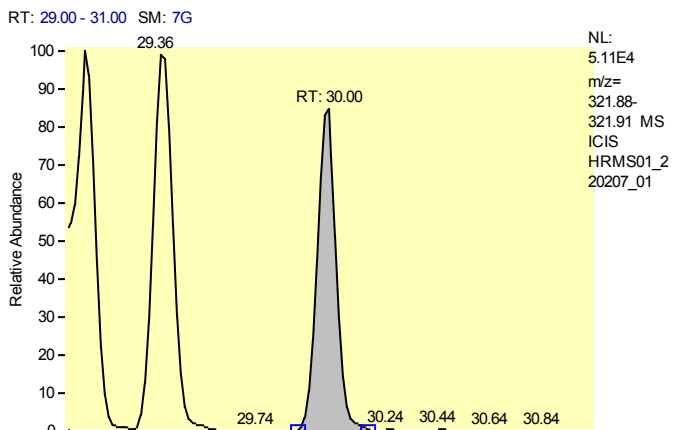
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956

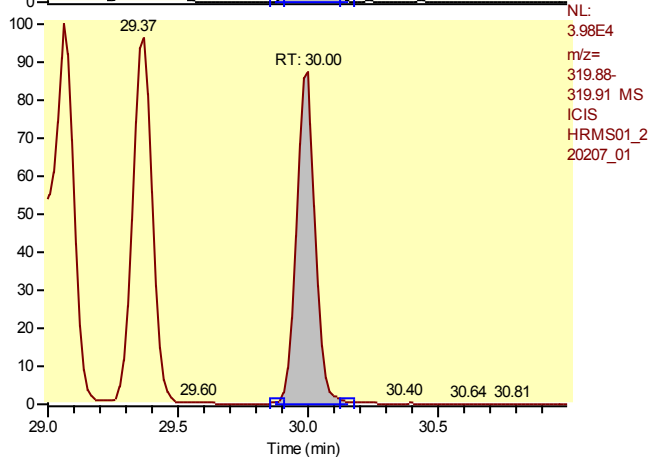


Chromatogram

Entry Parameters



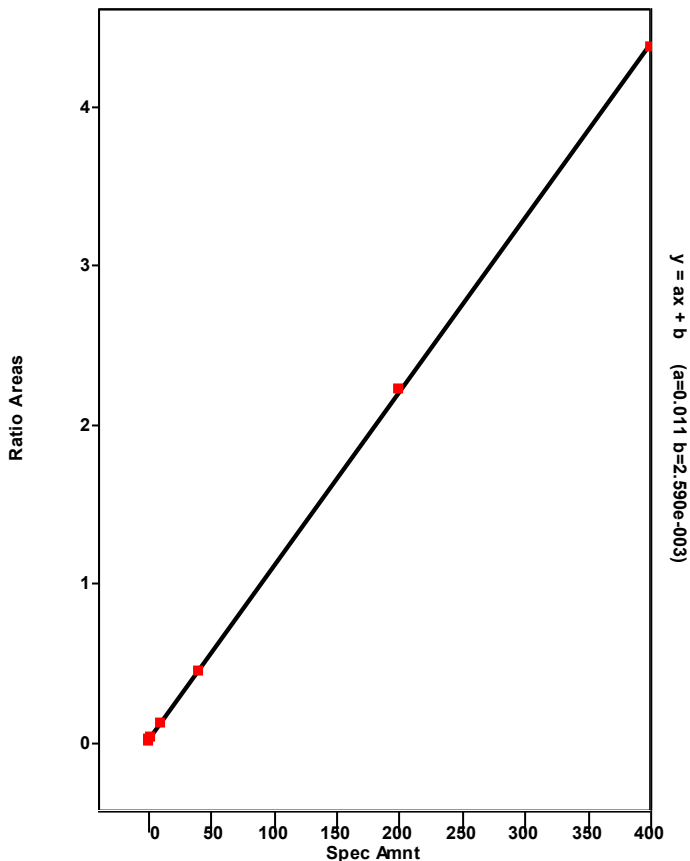
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	235538
RM1 Area	185881
RM1 Ratio (A)	0.7892
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	7.94
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

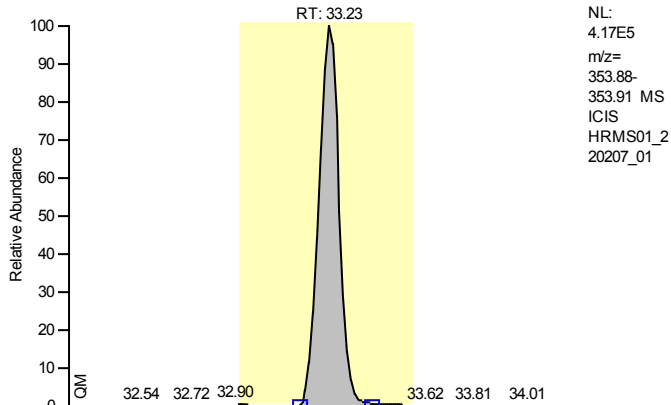
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



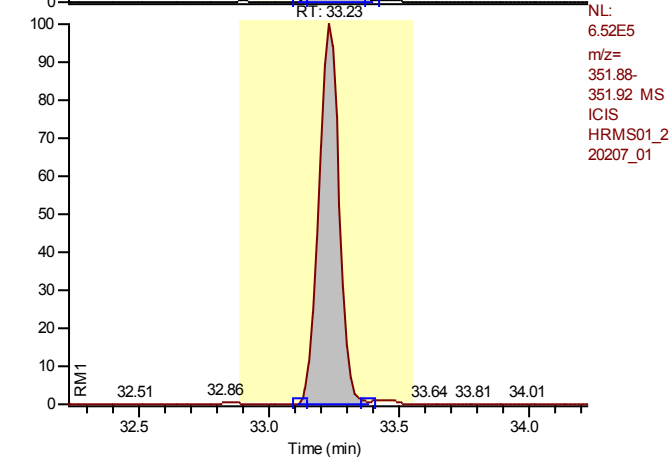
Chromatogram

Entry Parameters

RT: 32.23 - 34.23 SM: 7G



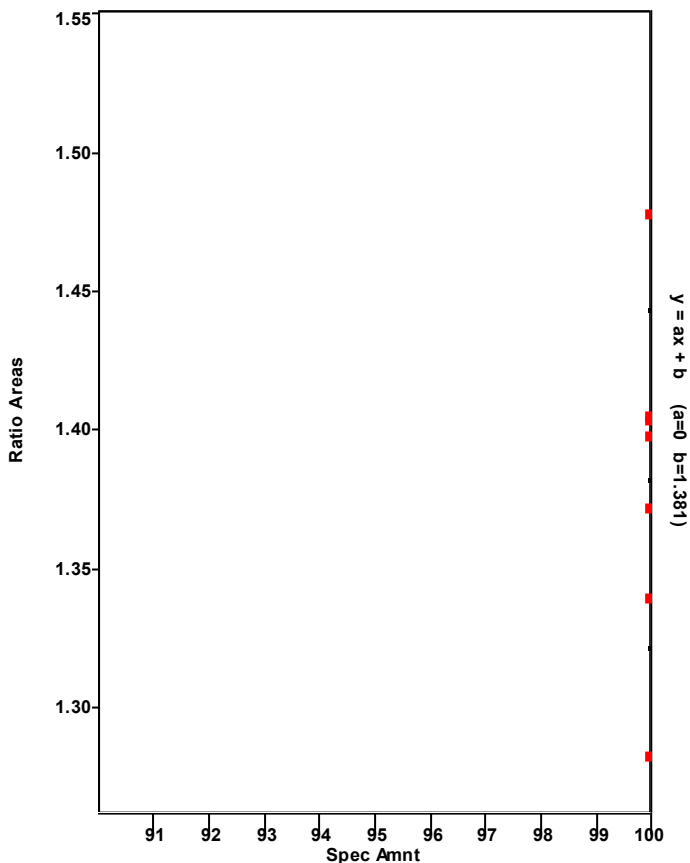
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	2269848
RM1 Area	3545220
RM1 Ratio (A)	1.5619
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	107.61
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

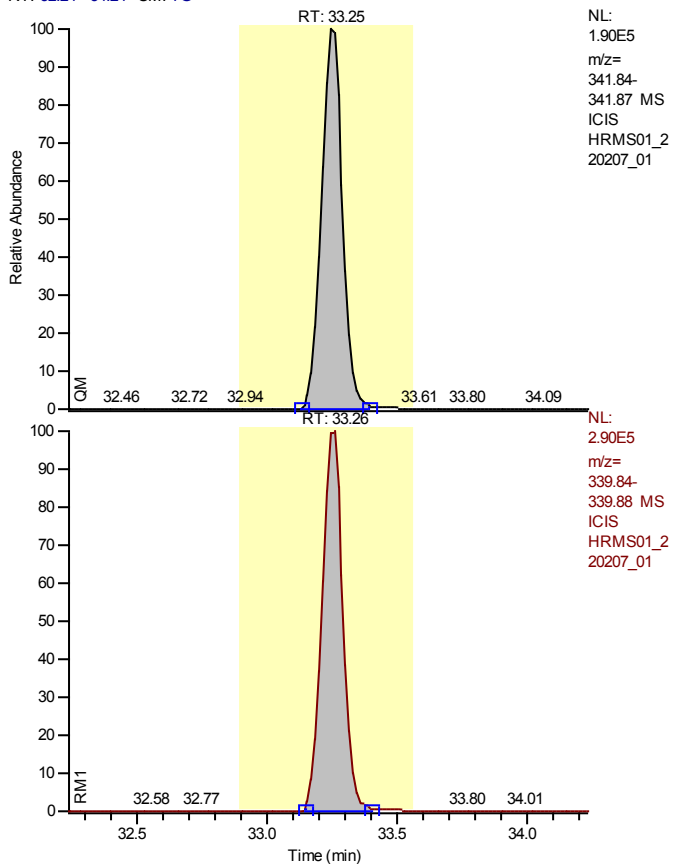
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.24 - 34.24 SM: 7G



NL:
1.90E5
m/z=
341.84-
341.87 MS
ICIS
HRMS01_2
20207_01

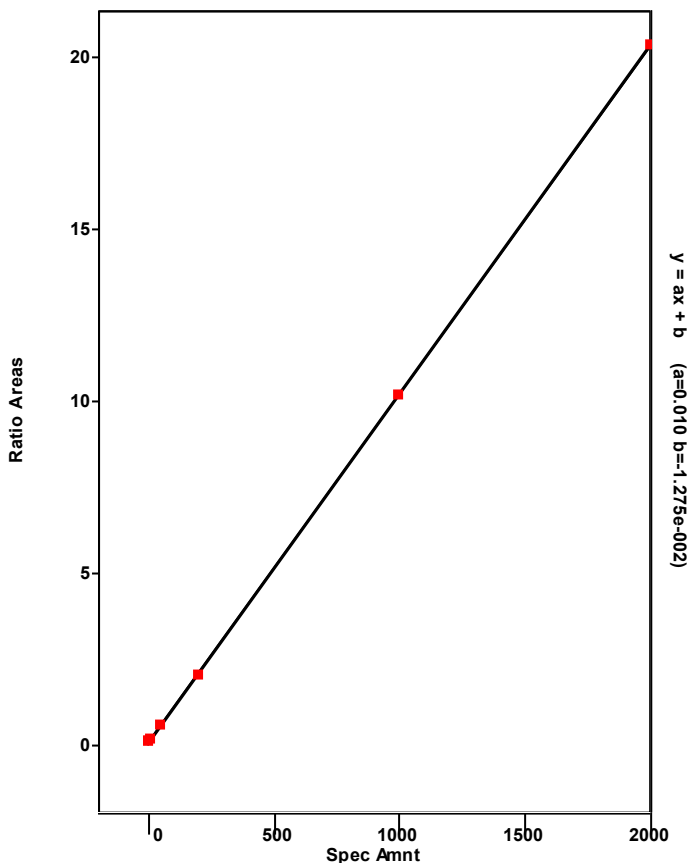
NL:
2.90E5
m/z=
339.84-
339.88 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	1059761
RM1 Area	1616211
RM1 Ratio (A)	1.5251
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	45.74
Percent Recovery (A)	91
TEQ (A)	1.3723
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

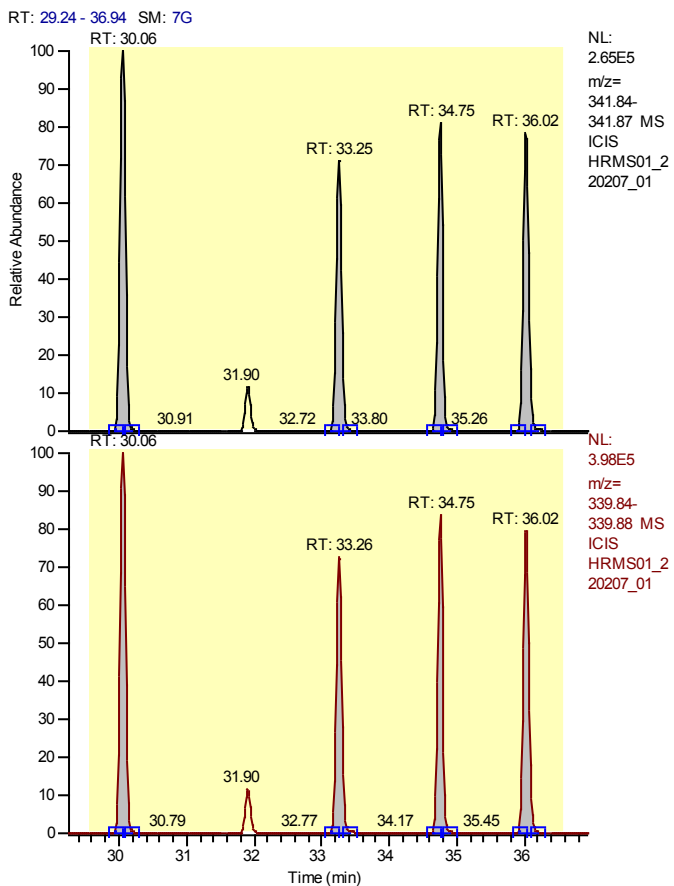
Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

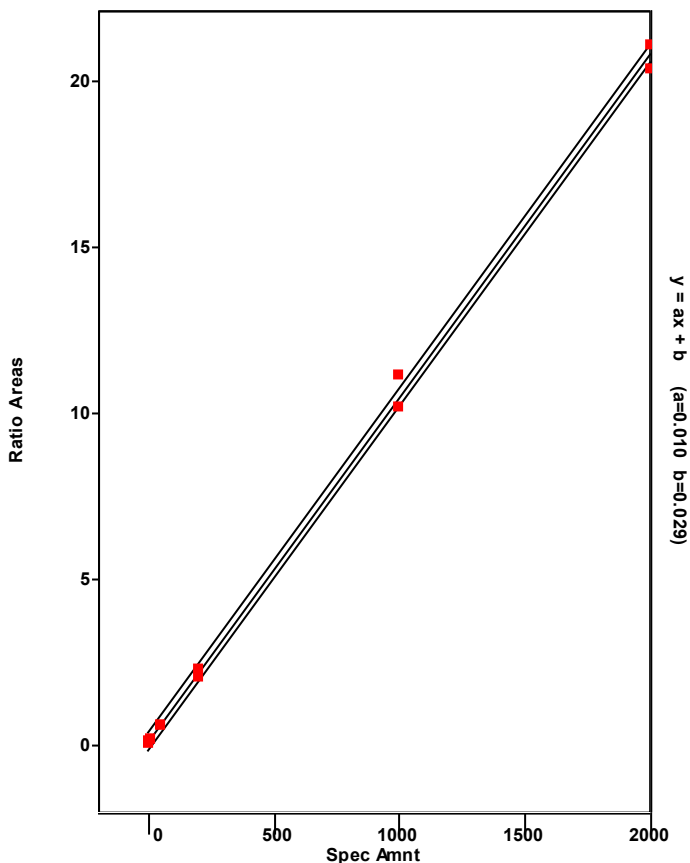


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	4748890
RM1 Area	7244312
RM1 Ratio (A)	1.5255
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	194.67
Percent Recovery (A)	389
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

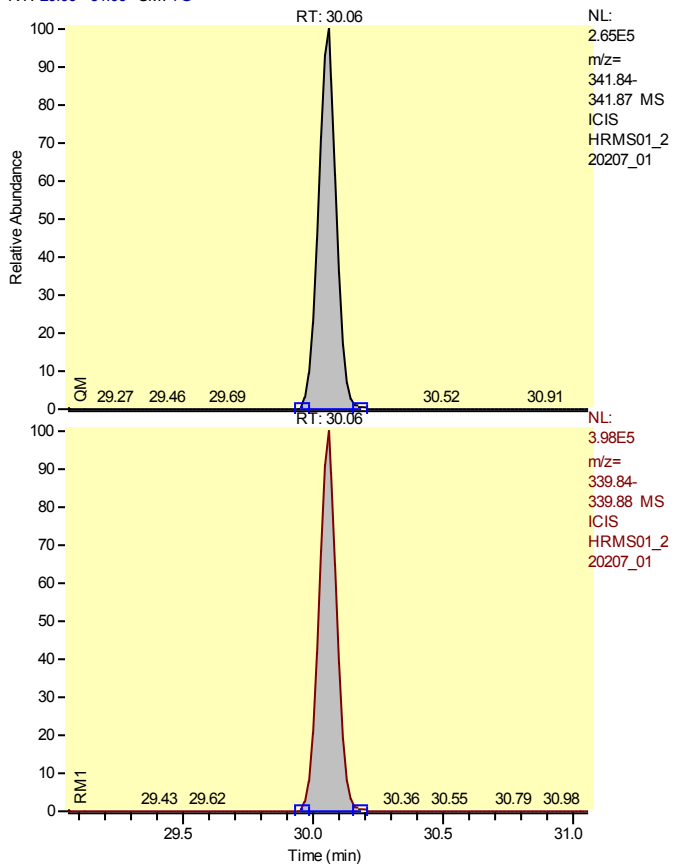
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 29.06 - 31.06 SM: 7G

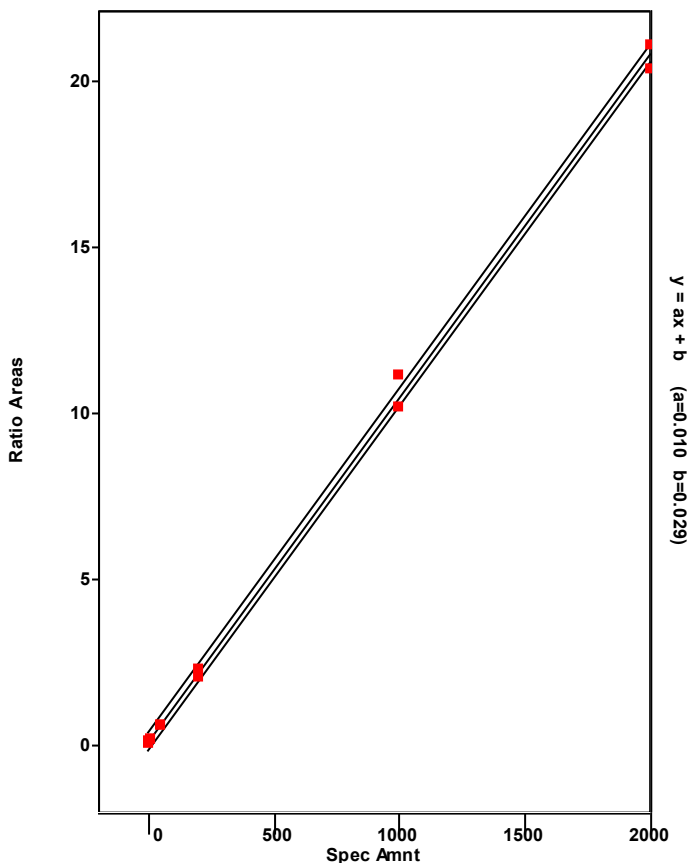


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1358976
RM1 Area	2037811
RM1 Ratio (A)	1.4995
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	55.14
Percent Recovery (A)	110
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

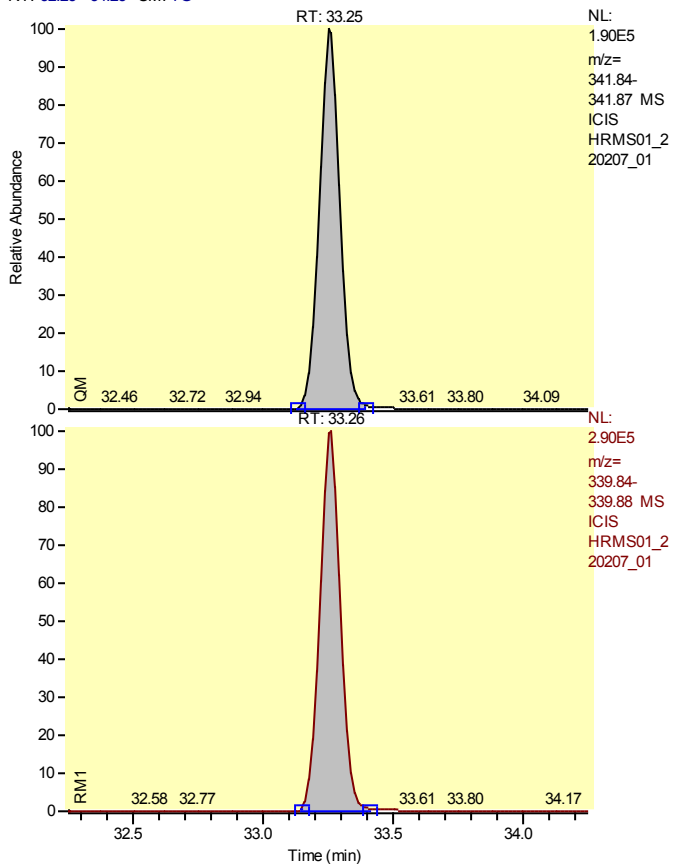
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.25 - 34.25 SM: 7G

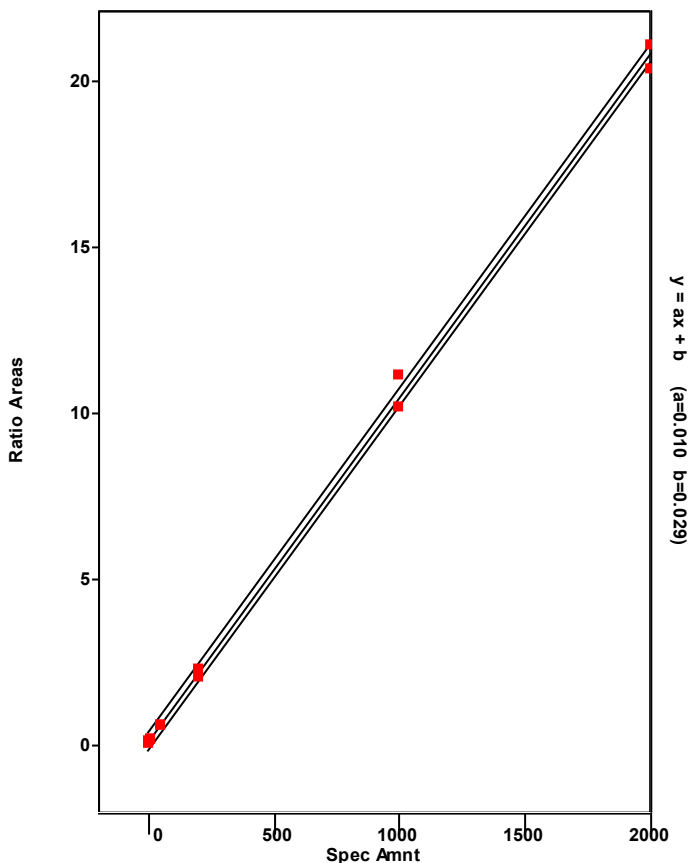


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1059761
RM1 Area	1616211
RM1 Ratio (A)	1.5251
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	43.44
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

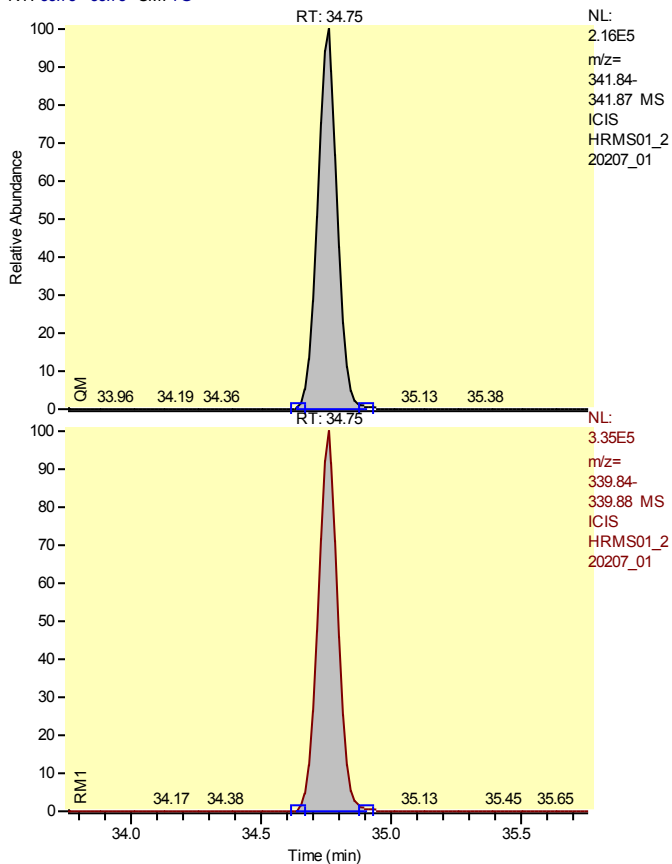
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.75-35.75 SM: 7G

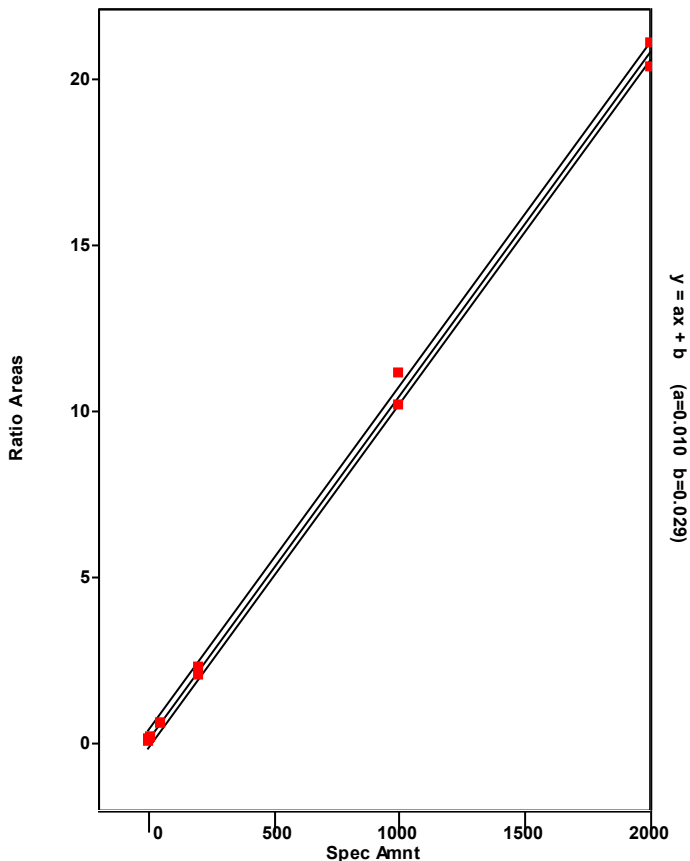


Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1150329
RM1 Area	1786708
RM1 Ratio (A)	1.5532
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.67
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

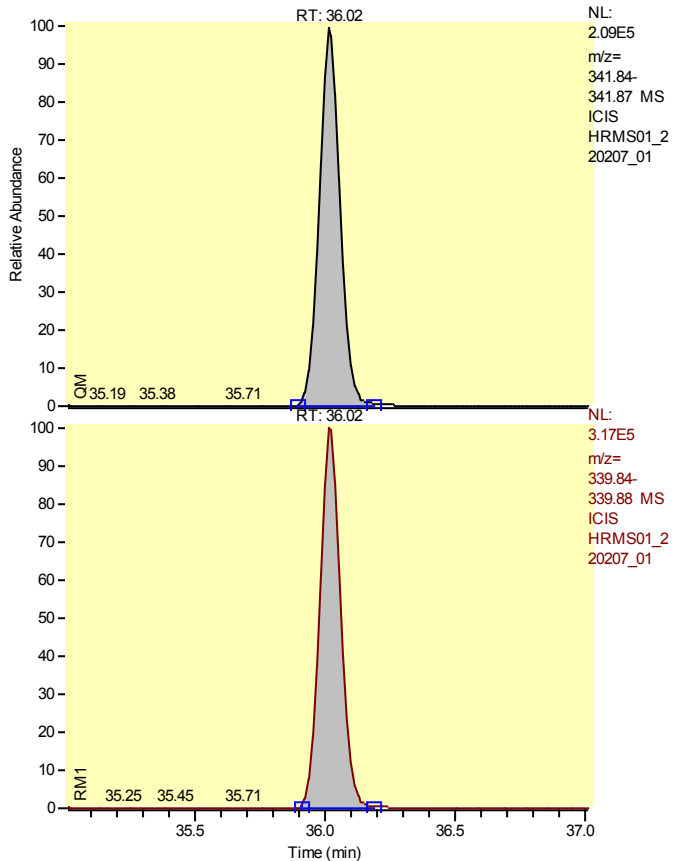
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 35.02 - 37.02 SM: 7G

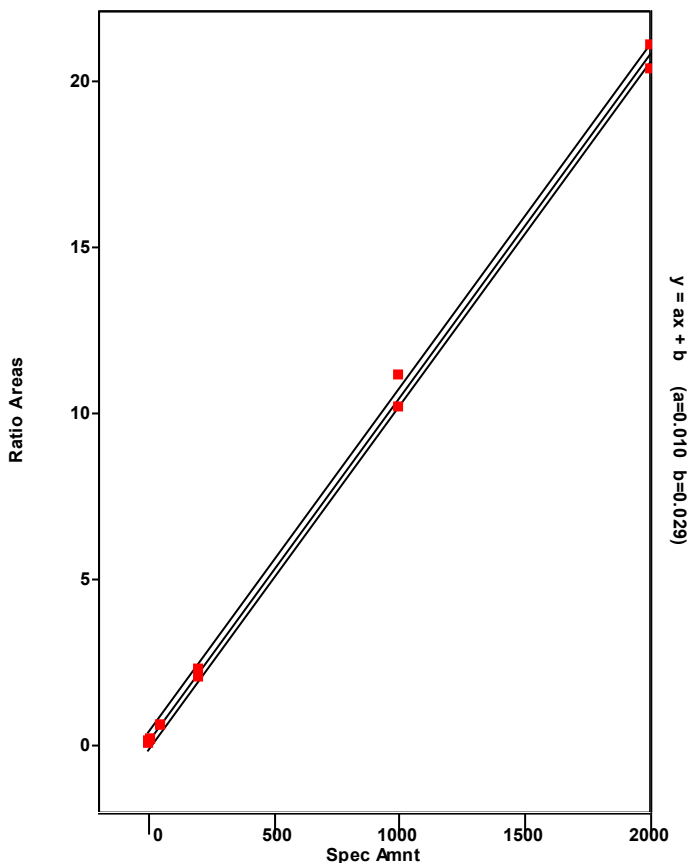


Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1179825
RM1 Area	1803581
RM1 Ratio (A)	1.5287
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	48.43
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

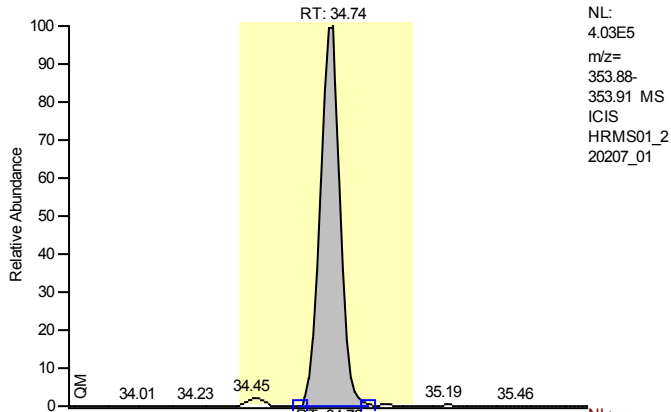
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



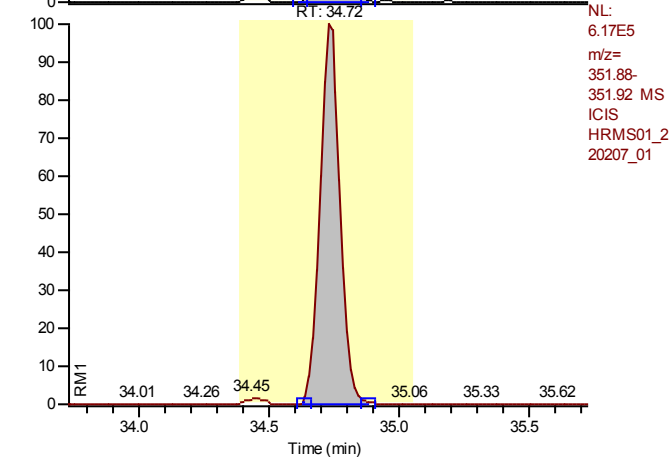
Chromatogram

Entry Parameters

RT: 33.72 - 35.72 SM: 7G



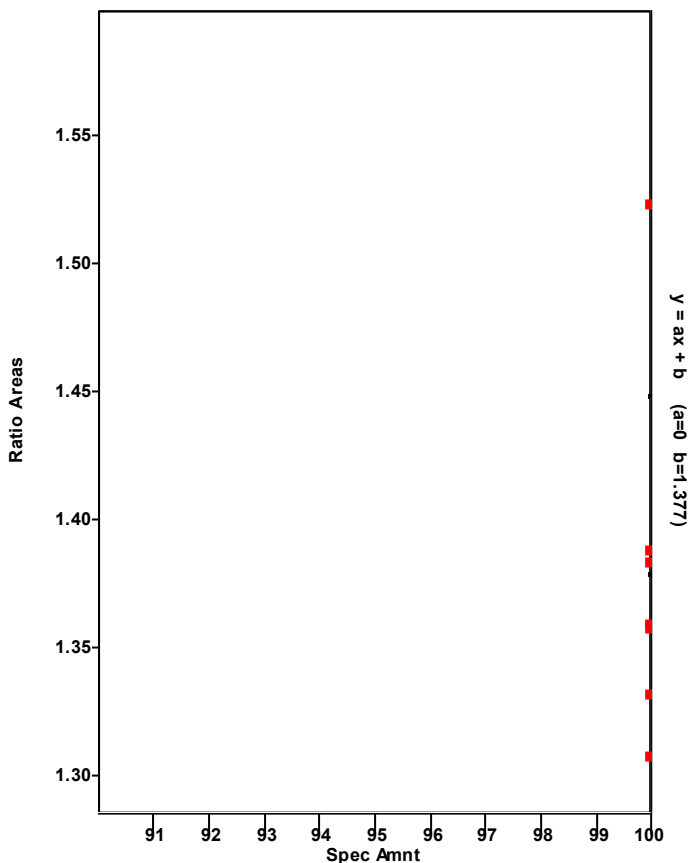
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	2177455
RM1 Area	3333646
RM1 Ratio (A)	1.5310
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	102.29
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

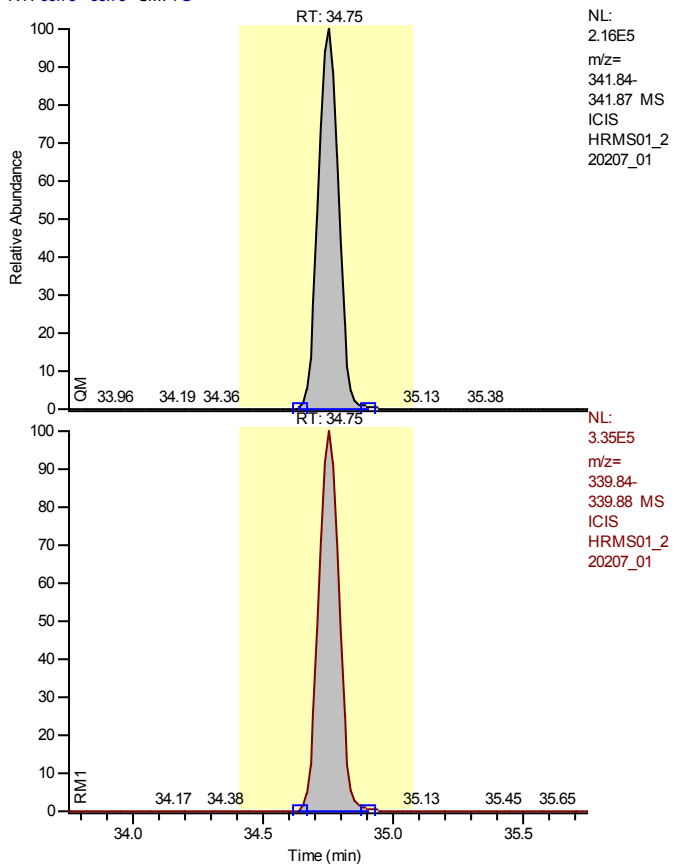
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.75 - 35.75 SM: 7G

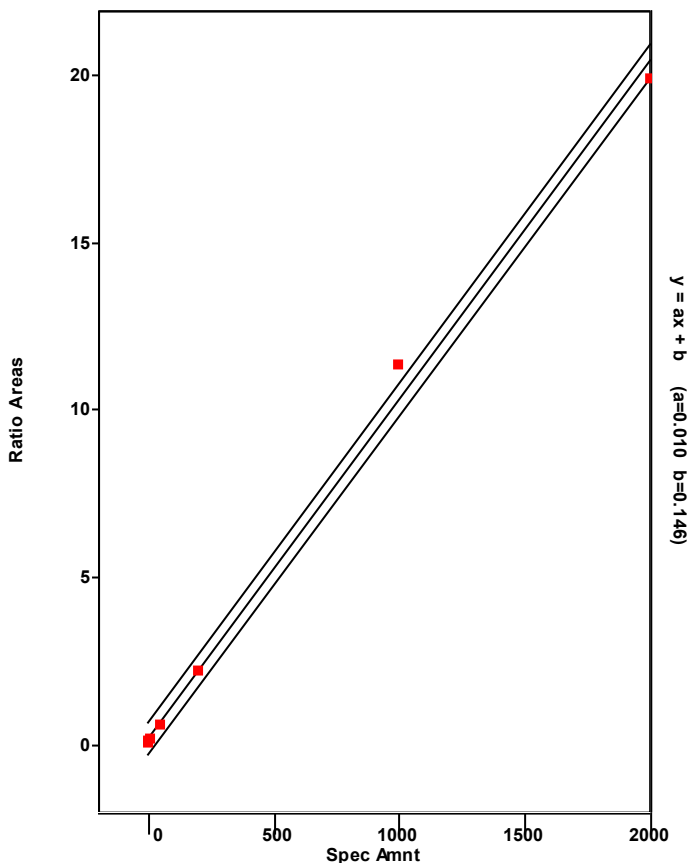


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	1150329
RM1 Area	1786708
RM1 Ratio (A)	1.5532
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.68
Percent Recovery (A)	95
TEQ (A)	14.3048
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

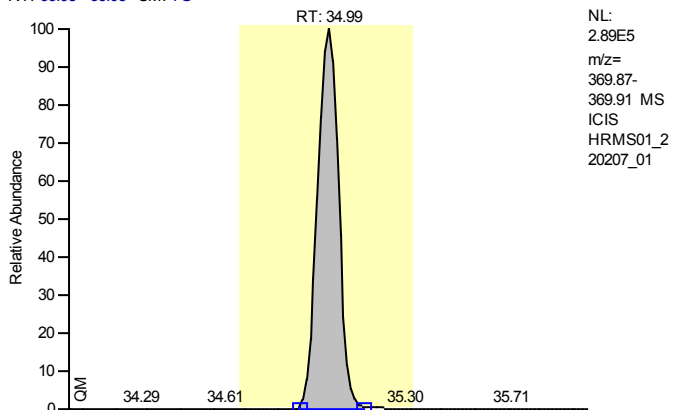
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



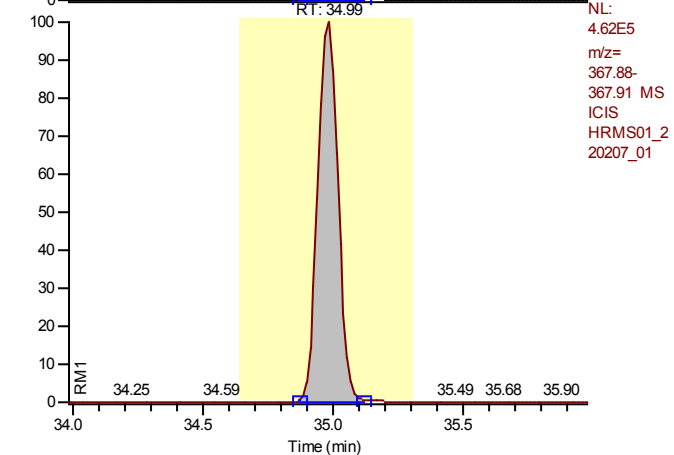
Chromatogram

Entry Parameters

RT: 33.98 - 35.98 SM: 7G



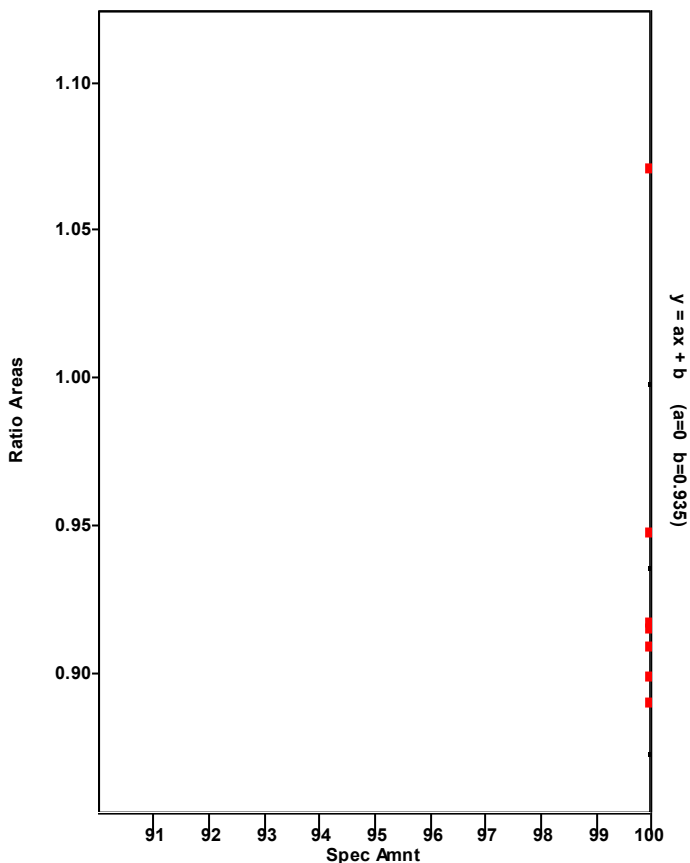
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1627856
RM1 Area	2496964
RM1 Ratio (A)	1.5339
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	112.83
Percent Recovery (A)	113
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

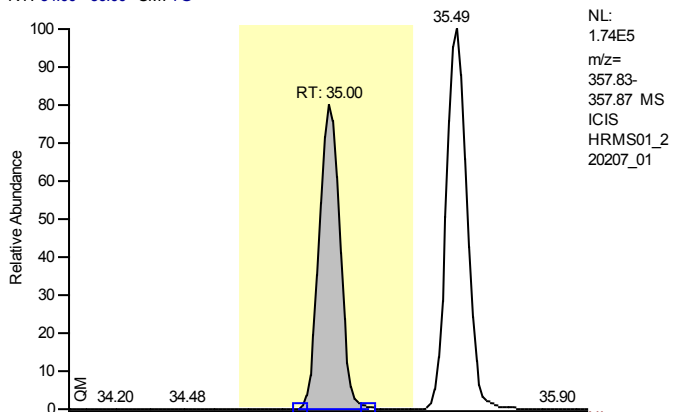
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



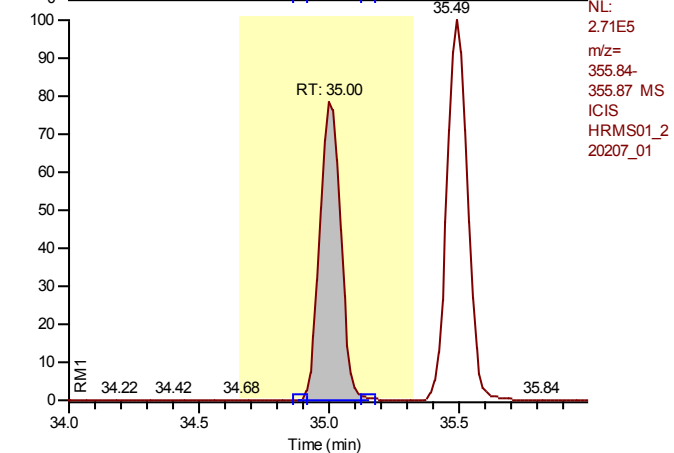
Chromatogram

Entry Parameters

RT: 34.00 - 36.00 SM: 7G



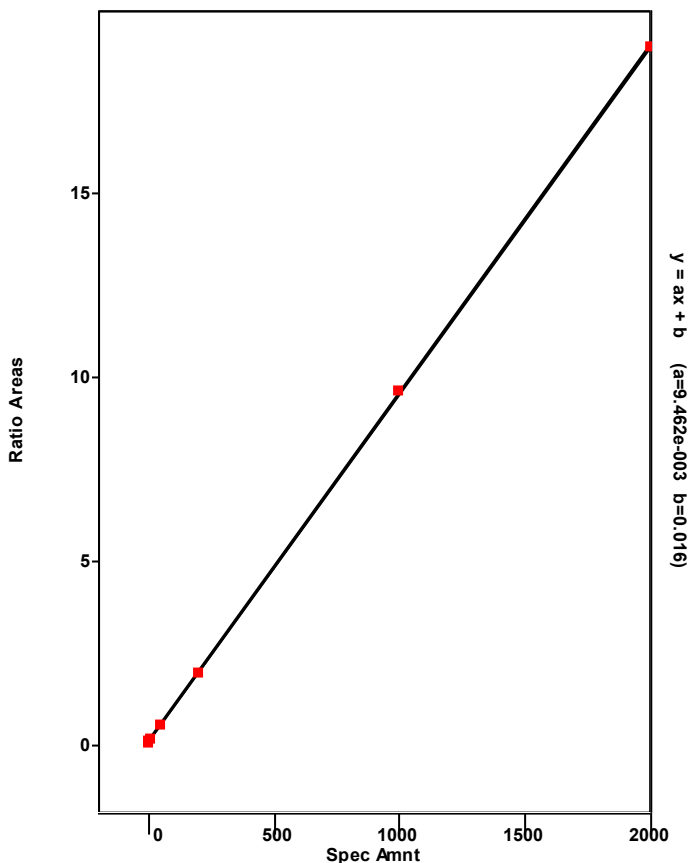
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	761774
RM1 Area	1178211
RM1 Ratio (A)	1.5467
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.16
Percent Recovery (A)	94
TEQ (A)	47.1616
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

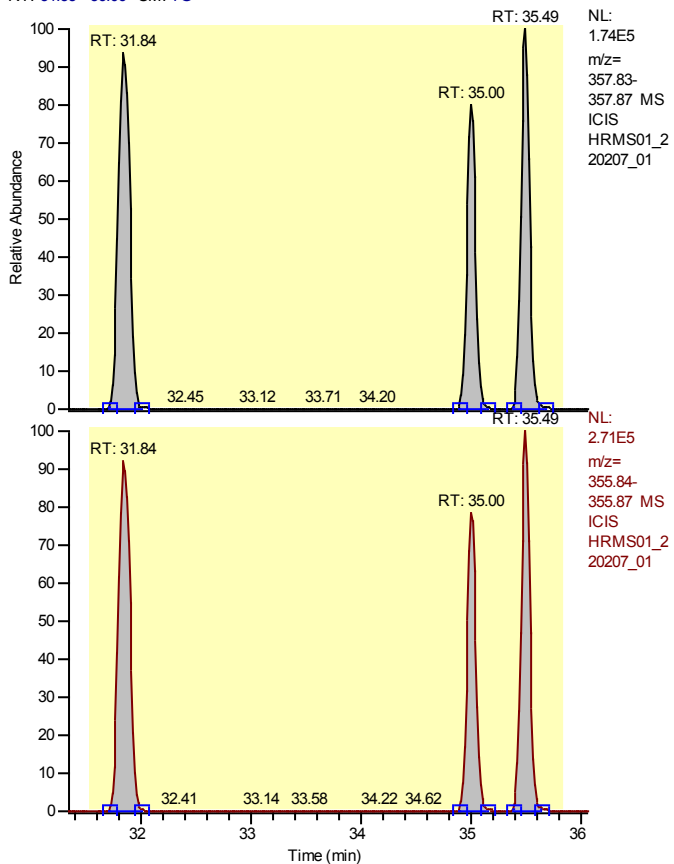
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.33 - 36.06 SM: 7G

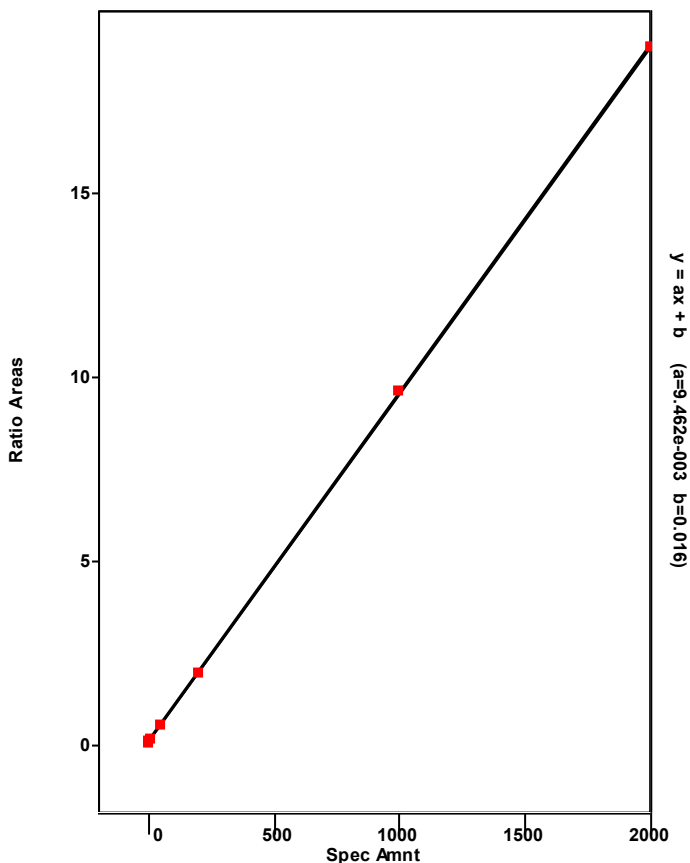


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	2910623
RM1 Area	4483260
RM1 Ratio (A)	1.5403
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	179.75
Percent Recovery (A)	359
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

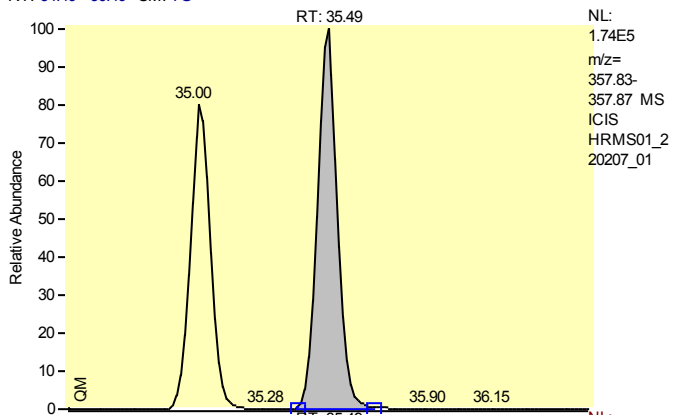
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



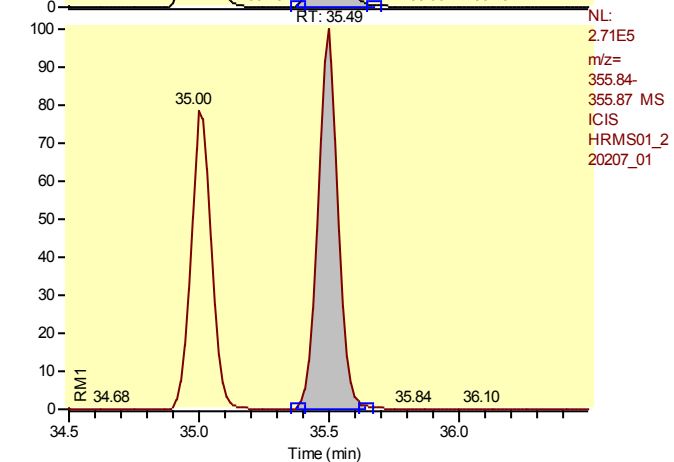
Chromatogram

Entry Parameters

RT: 34.49 - 36.49 SM: 7G



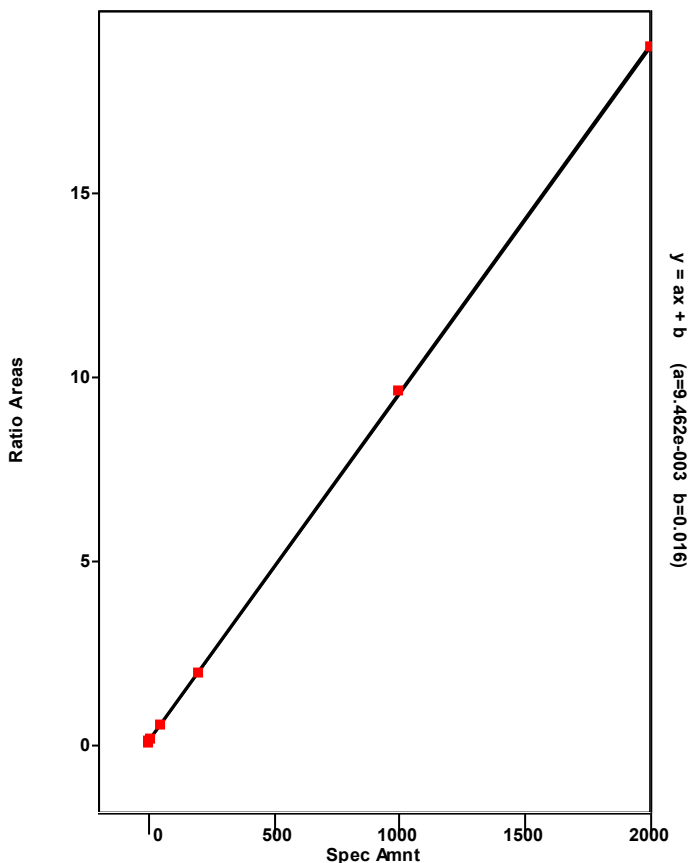
Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	945441
RM1 Area	1464483
RM1 Ratio (A)	1.5490
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	58.59
Percent Recovery (A)	117
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

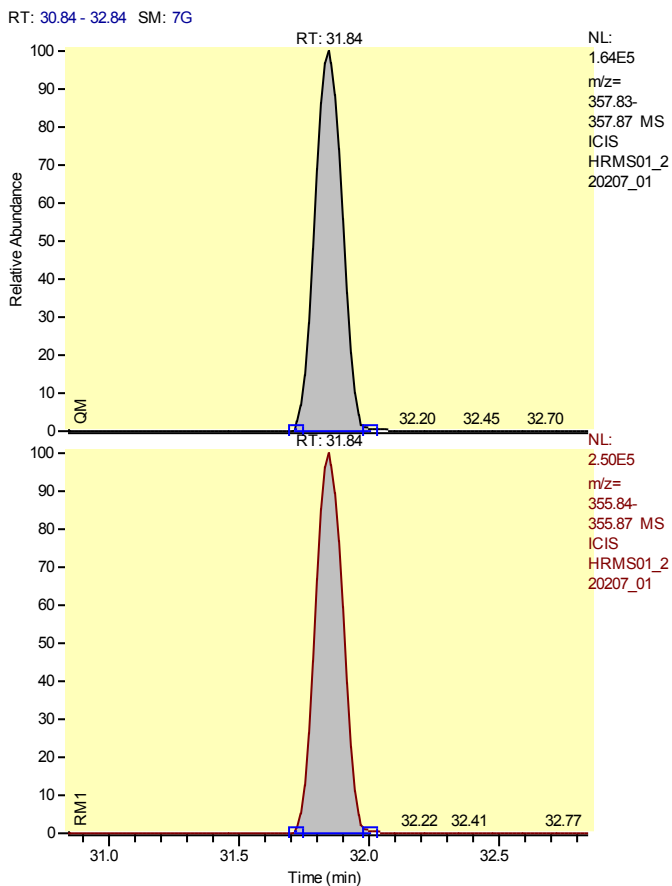
Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

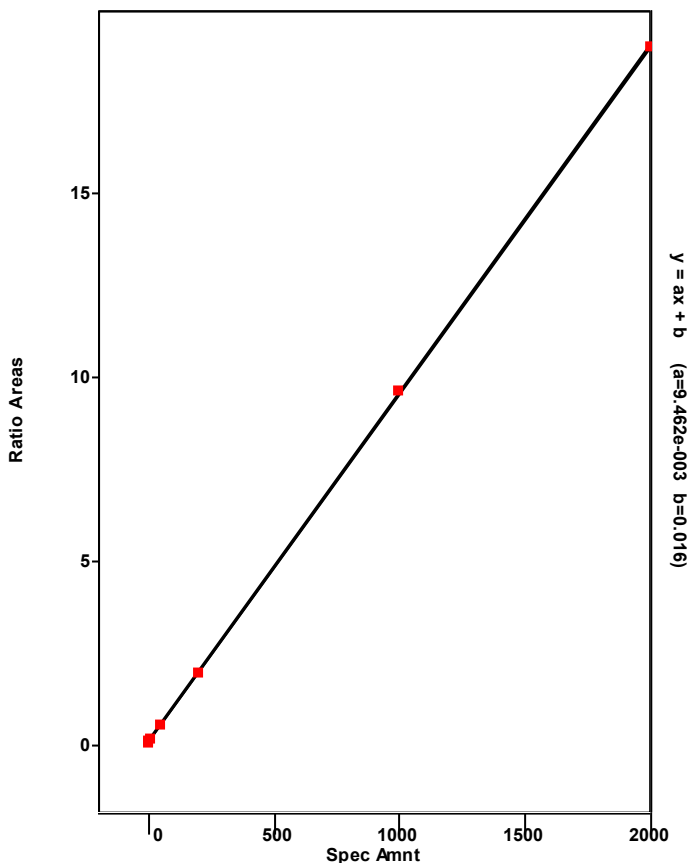


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	1203408
RM1 Area	1840566
RM1 Ratio (A)	1.5295
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	74.00
Percent Recovery (A)	148
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

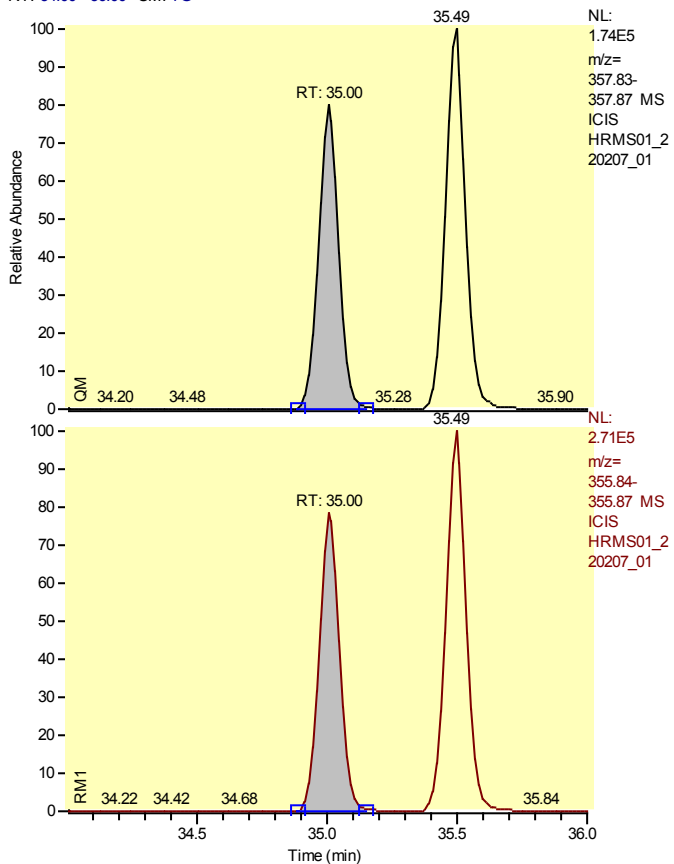
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.00 - 36.00 SM: 7G

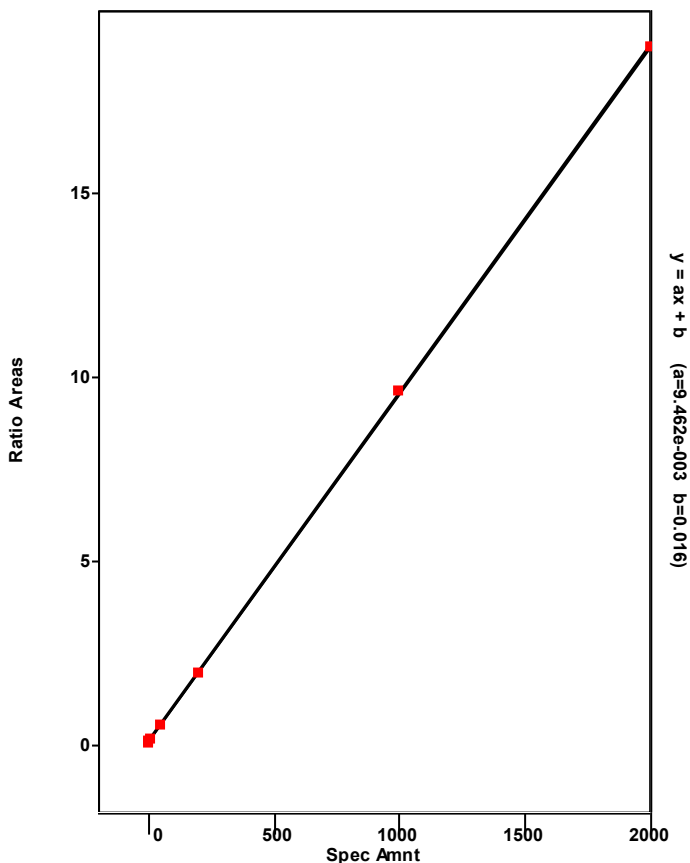


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	761774
RM1 Area	1178211
RM1 Ratio (A)	1.5467
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.16
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

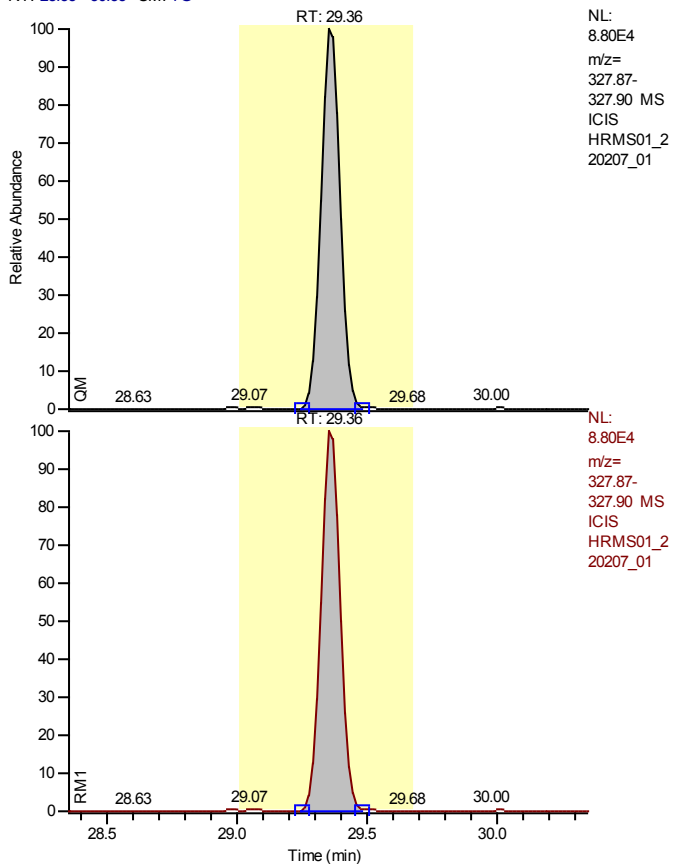
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.35 - 30.35 SM: 7G



NL:
8.80E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20207_01

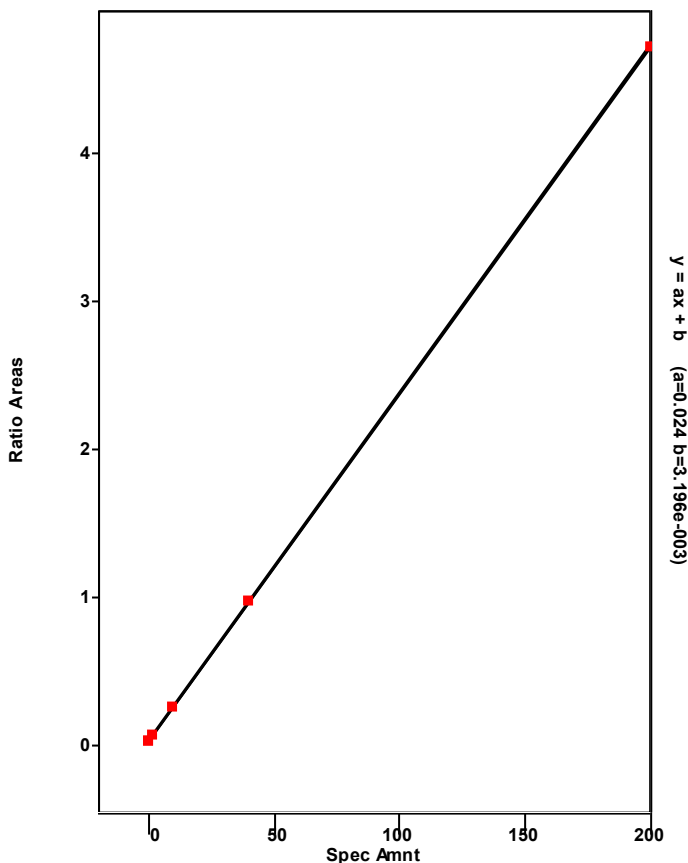
NL:
8.80E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	448453
RM1 Area	448453
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.51
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

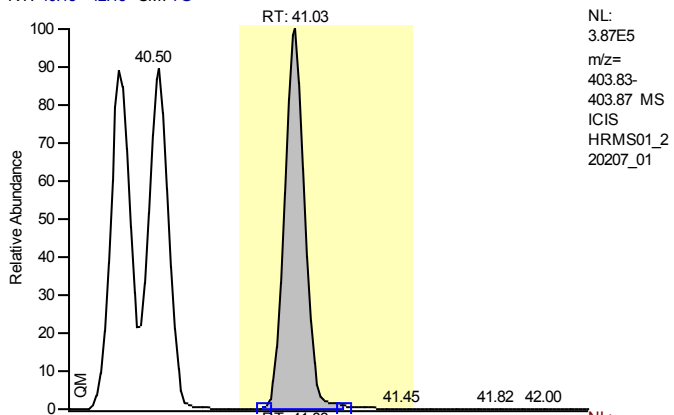
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

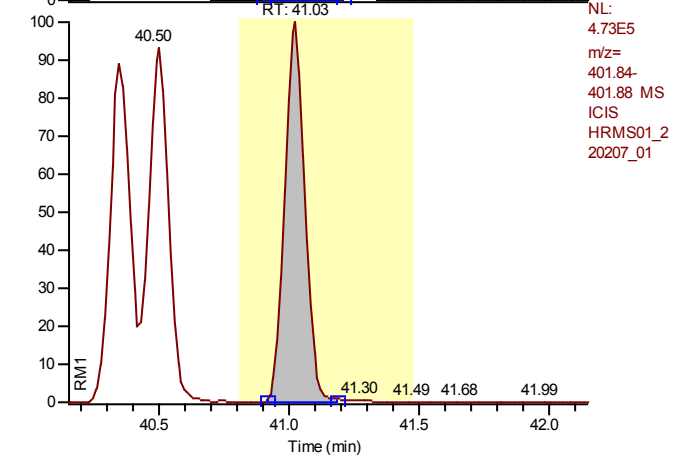
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
 3.87E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20207_01

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	2104185
RM1 Area	2560917
RM1 Ratio (A)	1.2171
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

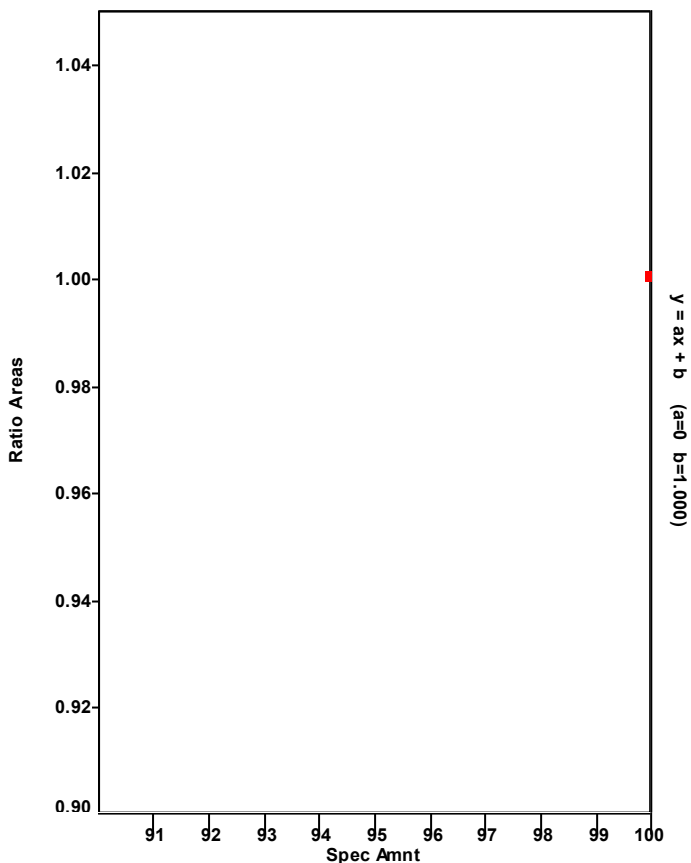


NL:
 4.73E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20207_01

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

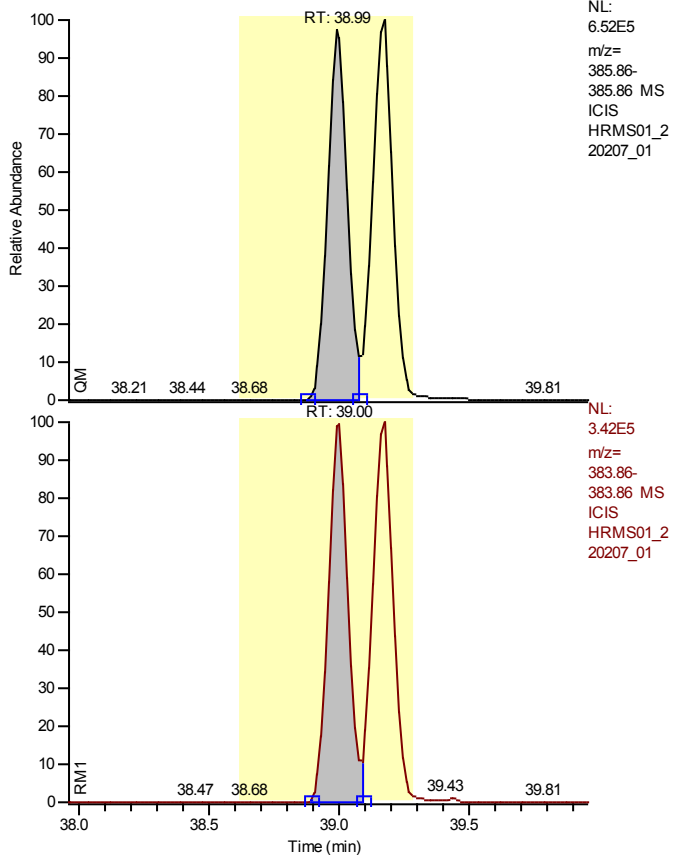
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 37.96 - 39.96 SM: 7G



NL:
6.52E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_01

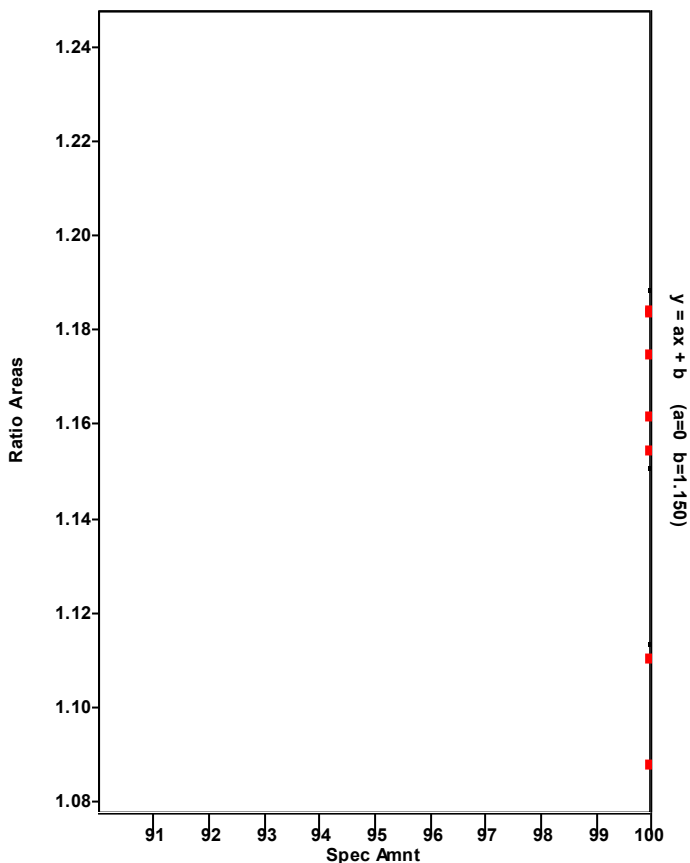
NL:
3.42E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	3344901
RM1 Area	1794291
RM1 Ratio (A)	0.5364
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	95.76
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

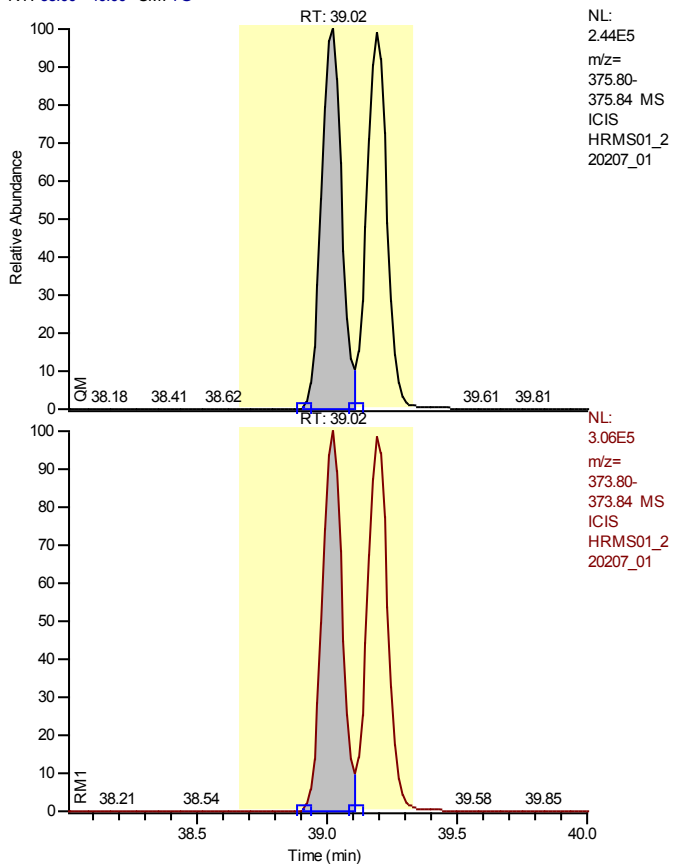
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.00 - 40.00 SM: 7G

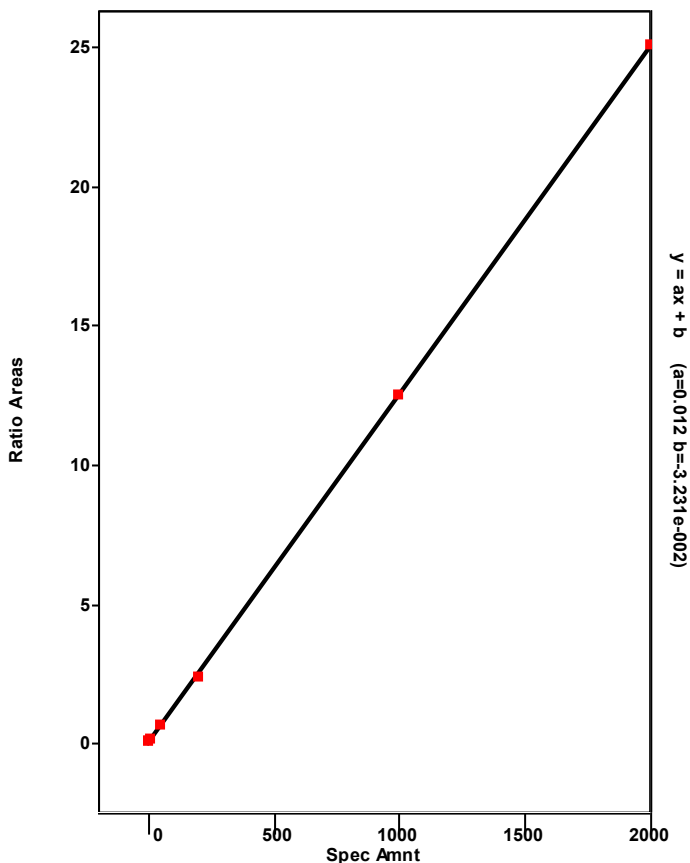


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	1295690
RM1 Area	1596979
RM1 Ratio (A)	1.2325
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.14
Percent Recovery (A)	90
TEQ (A)	4.5144
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

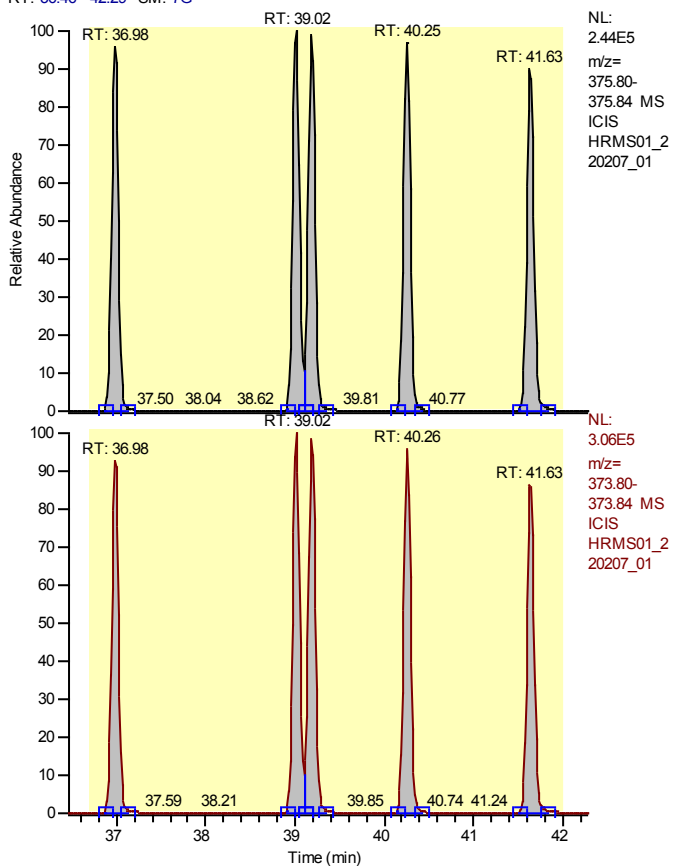
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.46 - 42.29 SM: 7G



NL: 2.44E5
 m/z= 375.80-375.84 MS
 ICIS HRMS01_2 20207_01

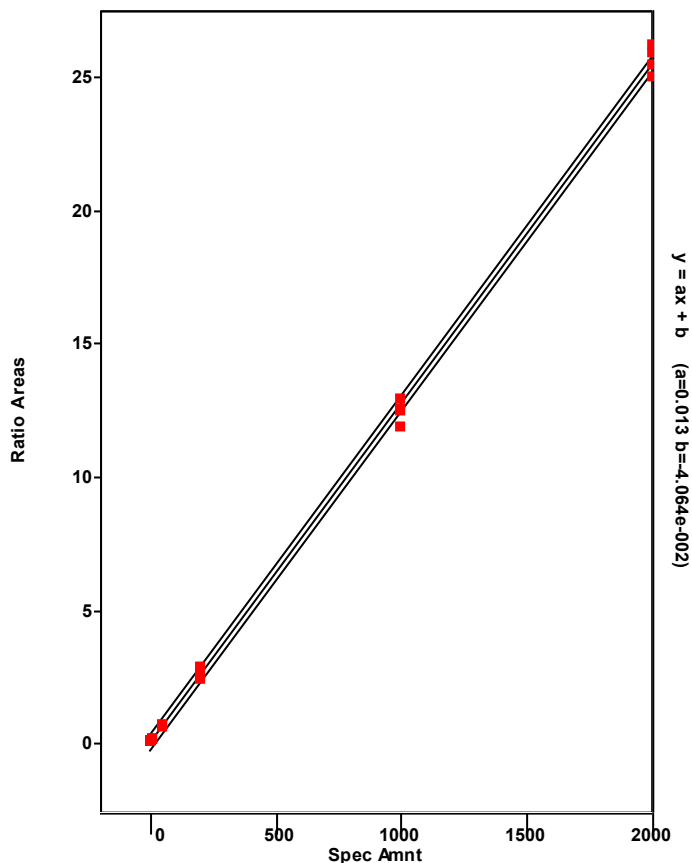
NL: 3.06E5
 m/z= 373.80-373.84 MS
 ICIS HRMS01_2 20207_01

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	6332225
RM1 Area	7812216
RM1 Ratio (A)	1.2337
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	216.92
Percent Recovery (A)	434
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

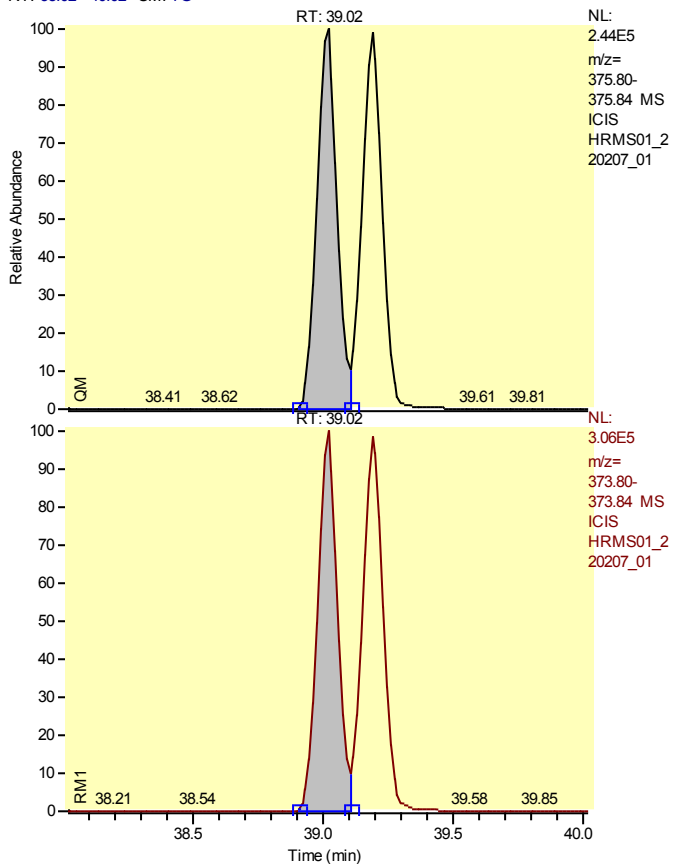
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.02 - 40.02 SM: 7G

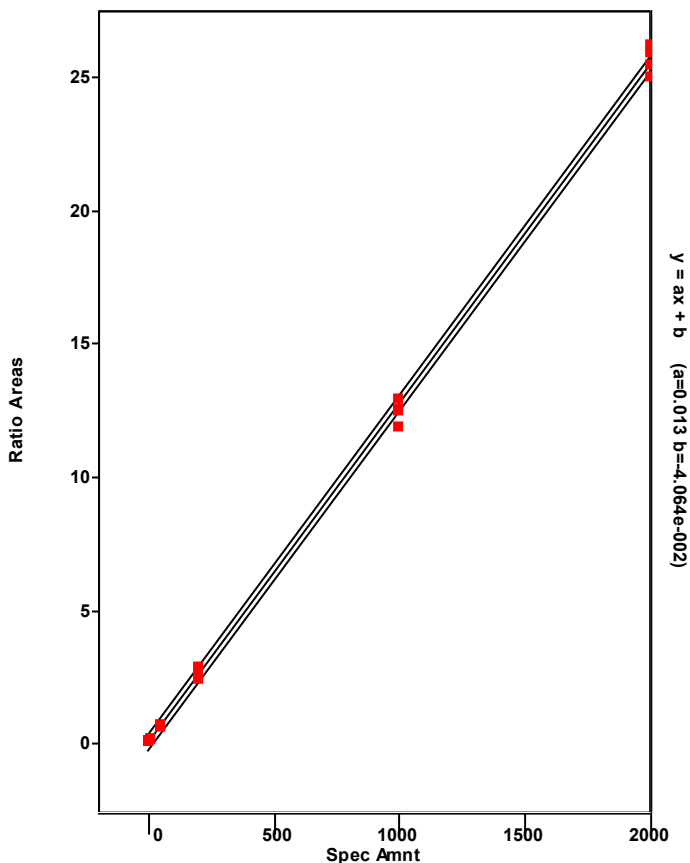


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1295690
RM1 Area	1596979
RM1 Ratio (A)	1.2325
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	44.36
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

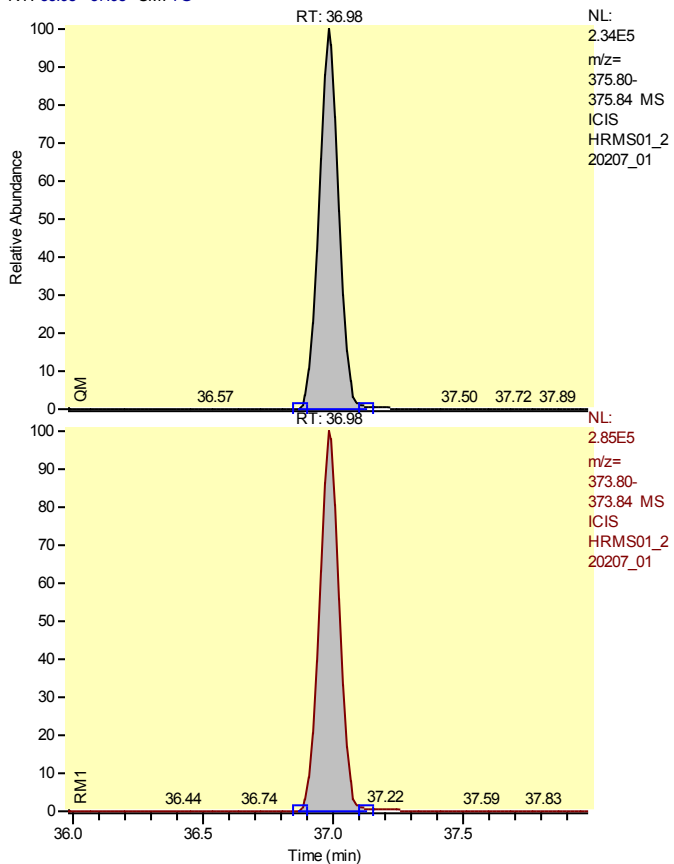
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 35.98 - 37.98 SM: 7G

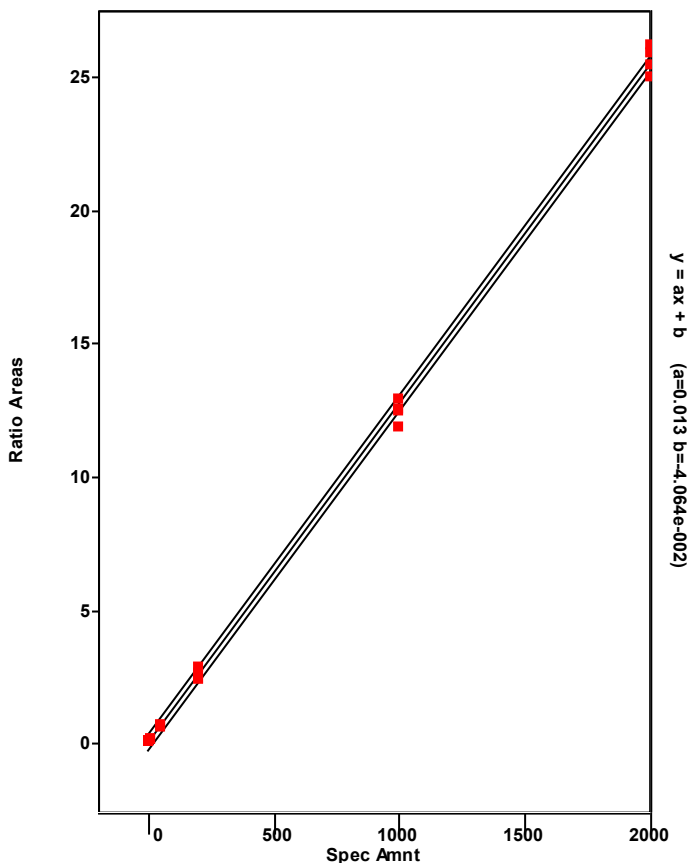


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1227407
RM1 Area	1507988
RM1 Ratio (A)	1.2286
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	41.95
Percent Recovery (A)	84
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

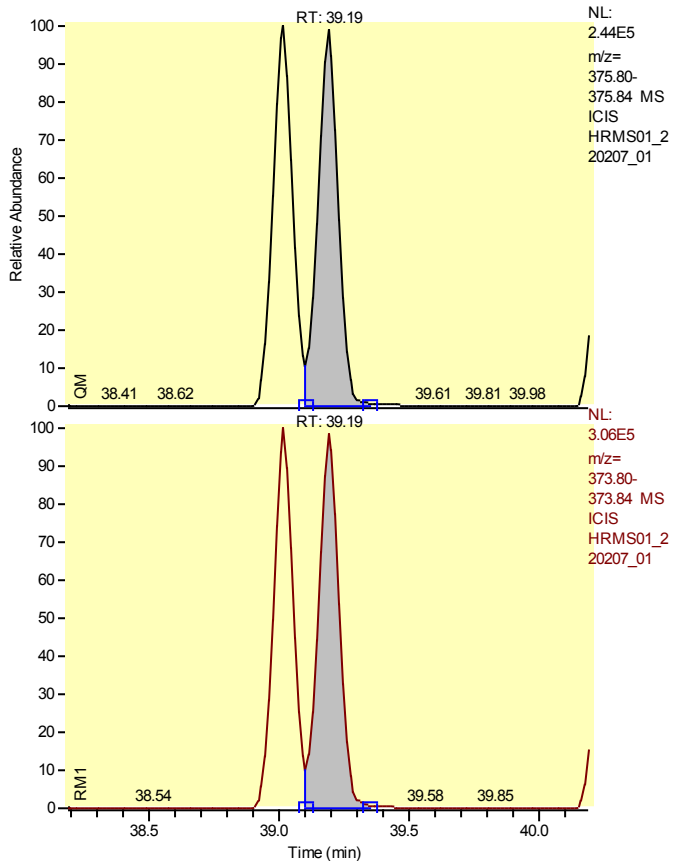
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.19 - 40.19 SM: 7G

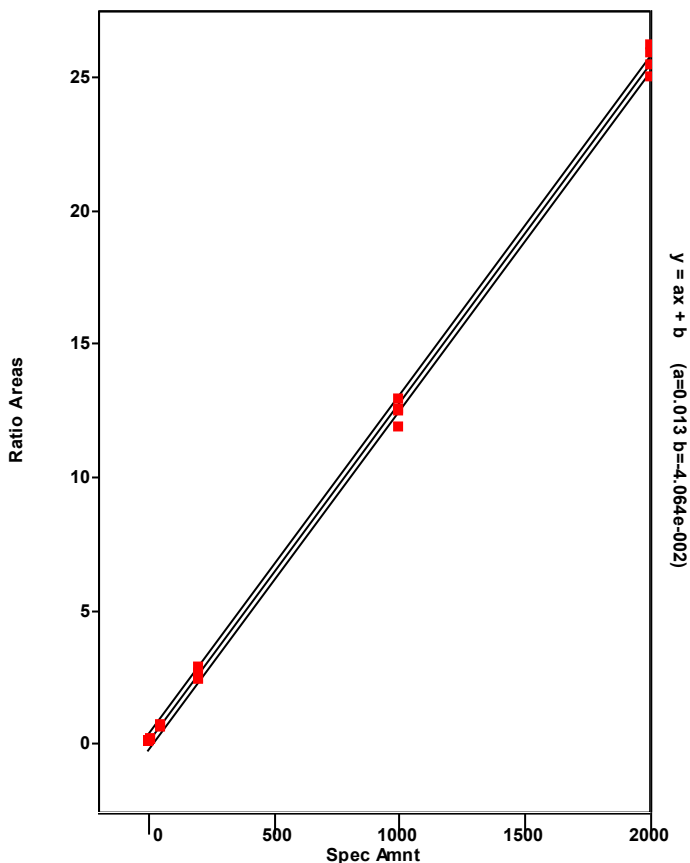


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1299809
RM1 Area	1650972
RM1 Ratio (A)	1.2702
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.25
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

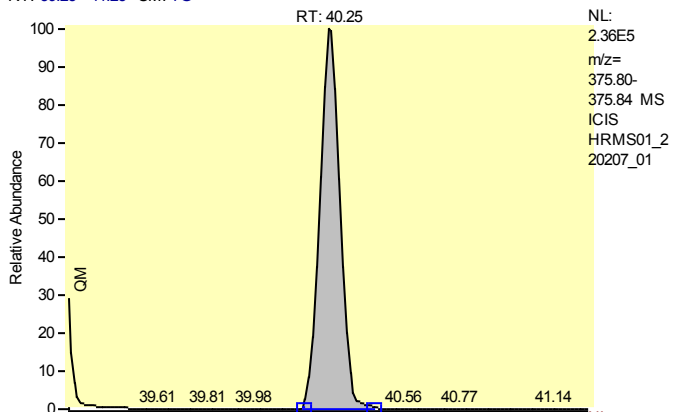
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



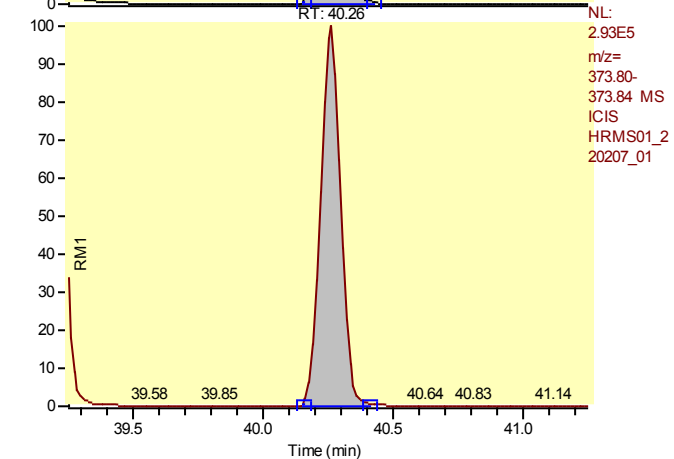
Chromatogram

Entry Parameters

RT: 39.25 - 41.25 SM: 7G



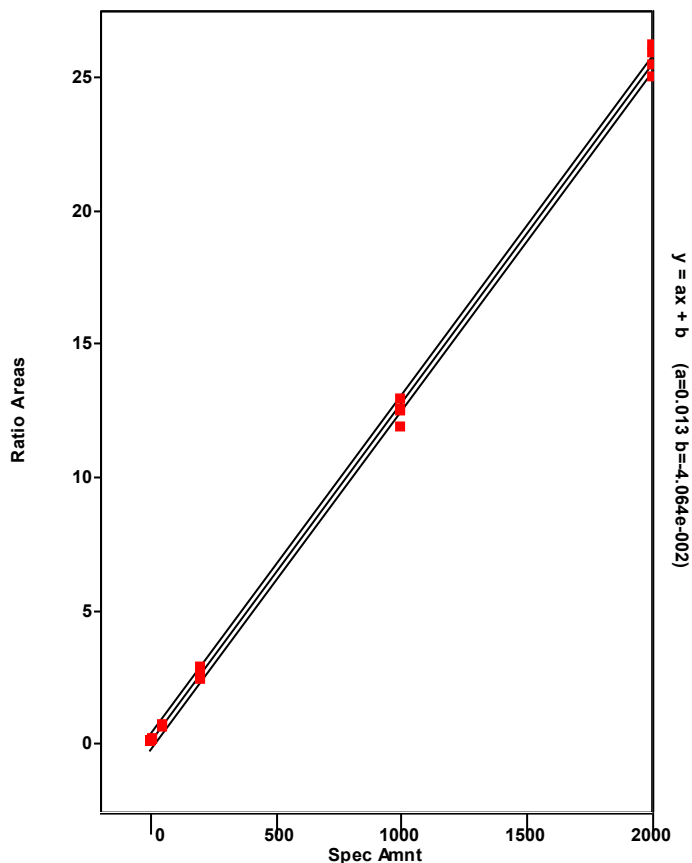
Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1277570
RM1 Area	1570521
RM1 Ratio (A)	1.2293
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	43.68
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

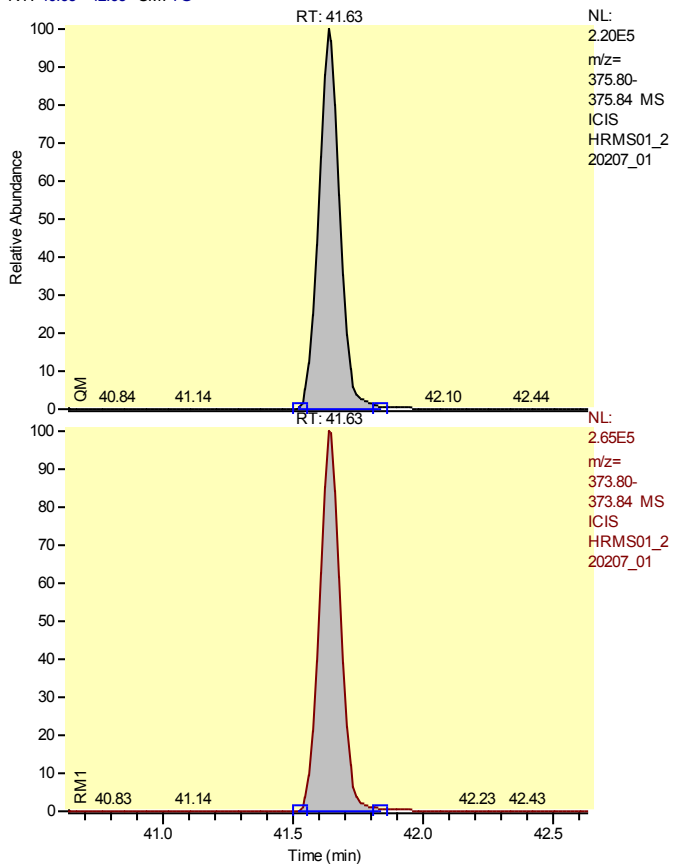
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 40.63 - 42.63 SM: 7G

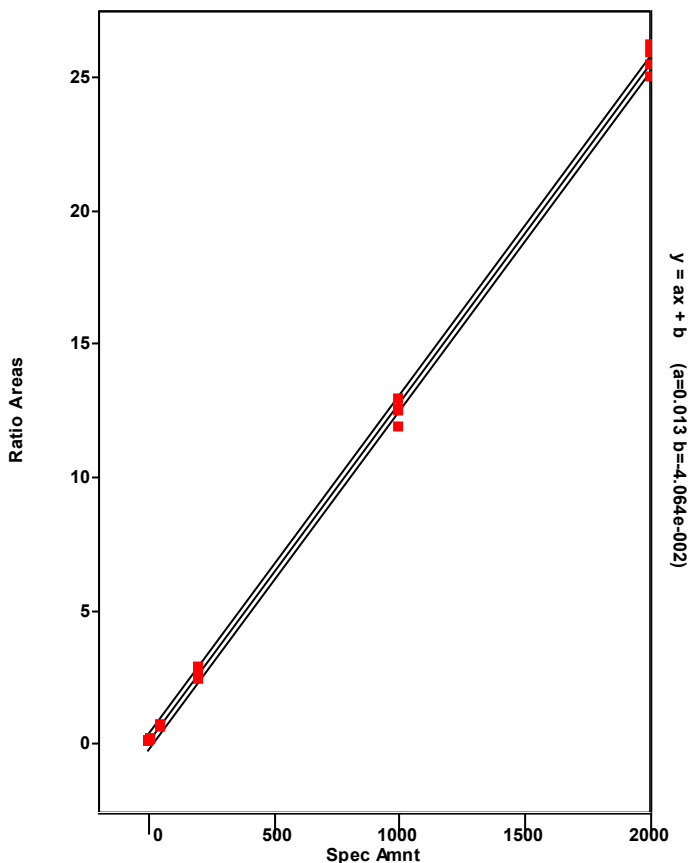


Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1231747
RM1 Area	1485755
RM1 Ratio (A)	1.2062
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	41.68
Percent Recovery (A)	83
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

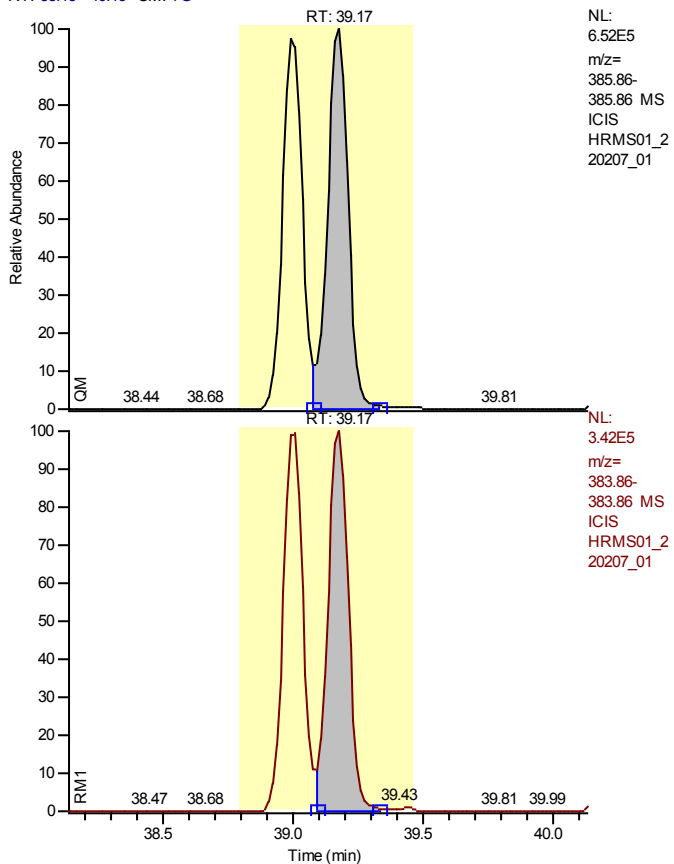
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G



NL:
6.52E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_01

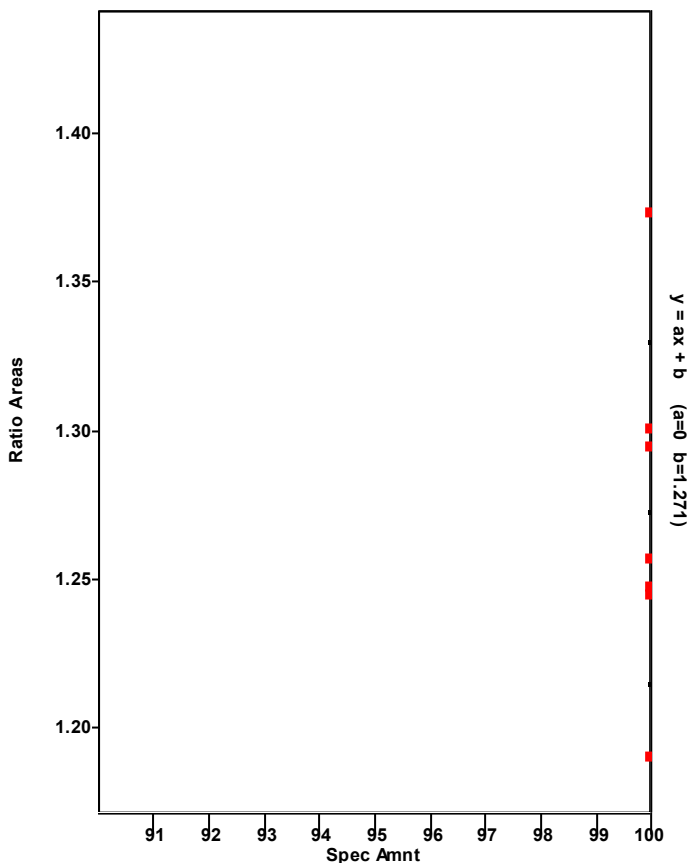
NL:
3.42E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	3584857
RM1 Area	1865708
RM1 Ratio (A)	0.5204
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	91.89
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

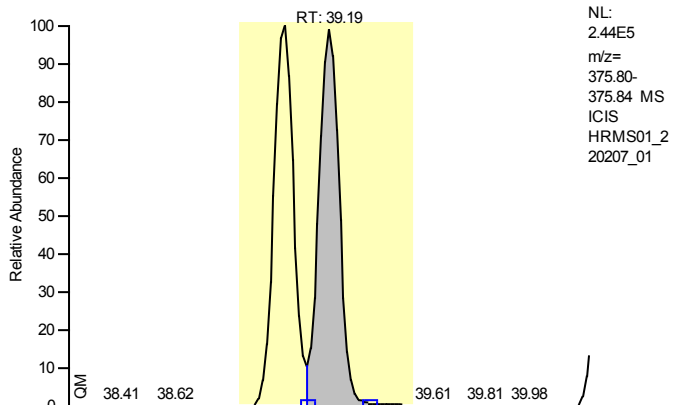
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



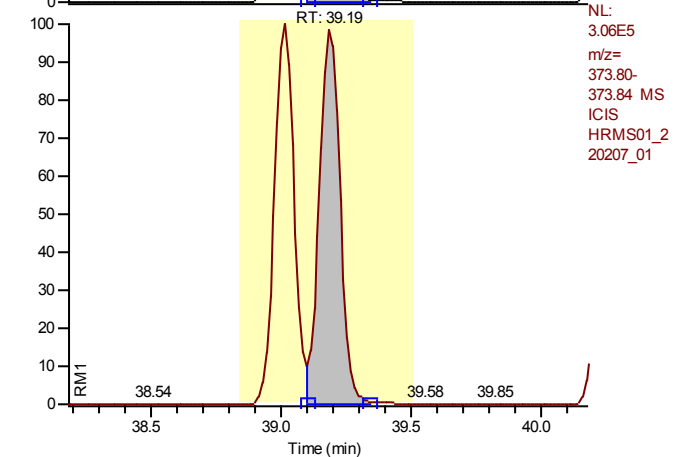
Chromatogram

Entry Parameters

RT: 38.18 - 40.18 SM: 7G



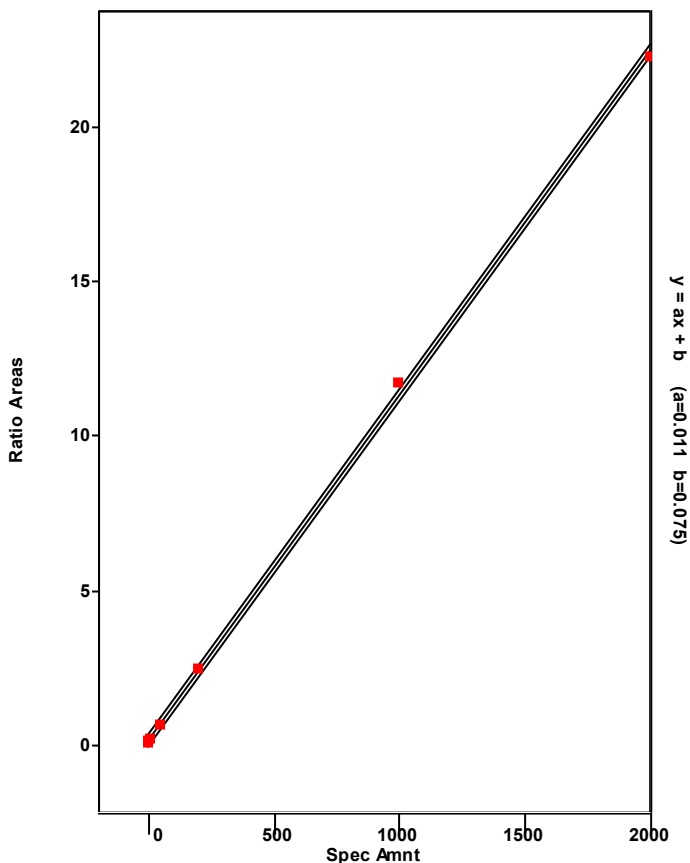
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	1299809
RM1 Area	1650972
RM1 Ratio (A)	1.2702
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.60
Percent Recovery (A)	91
TEQ (A)	4.5596
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

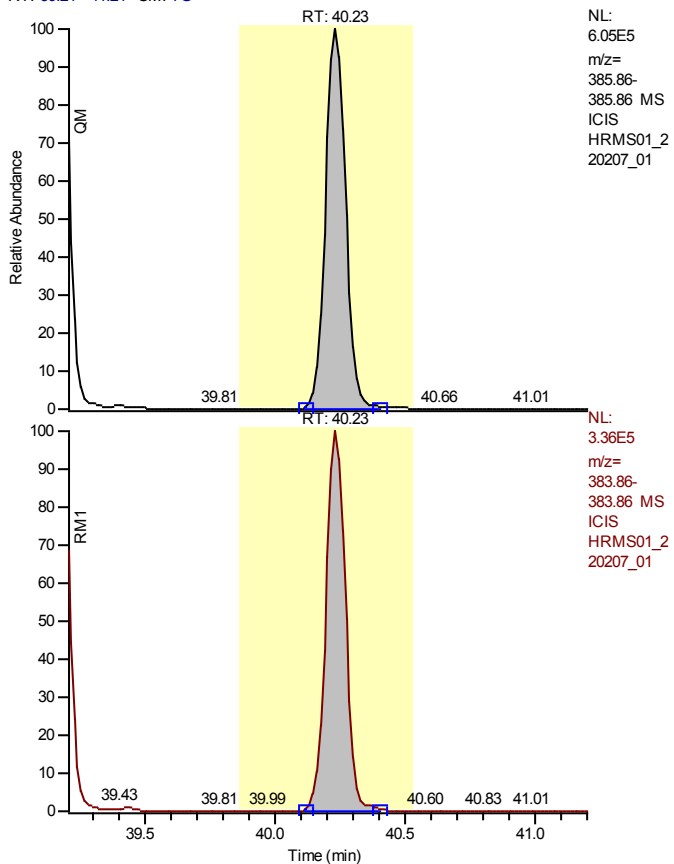
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

Entry Parameters

RT: 39.21 - 41.21 SM: 7G

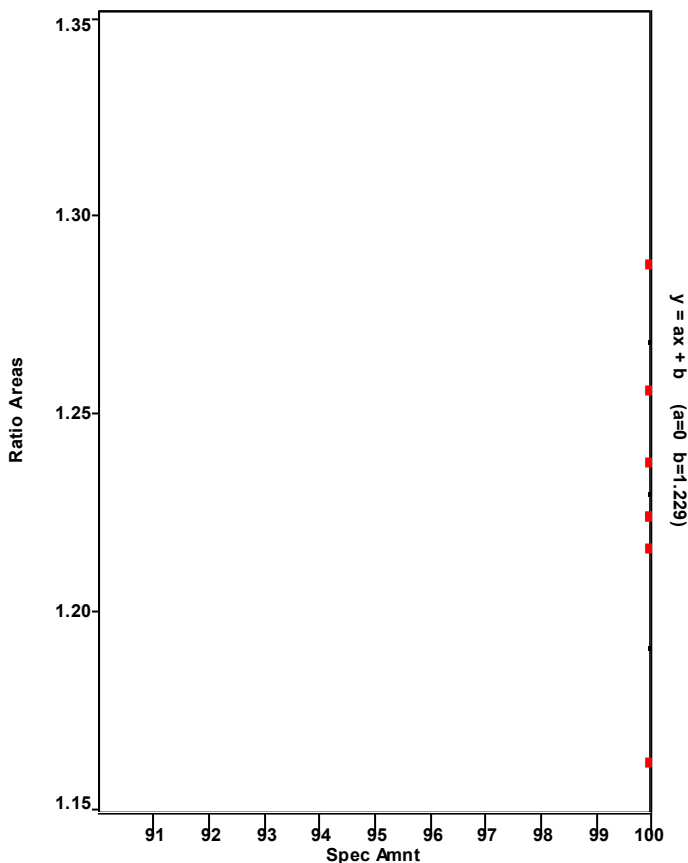


Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	3256808
RM1 Area	1756589
RM1 Ratio (A)	0.5394
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	87.45
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

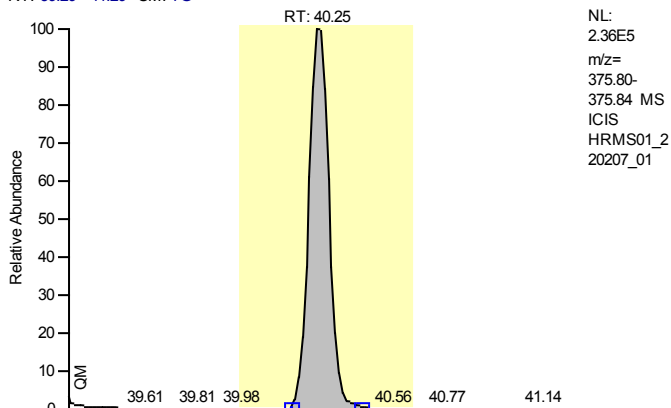
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



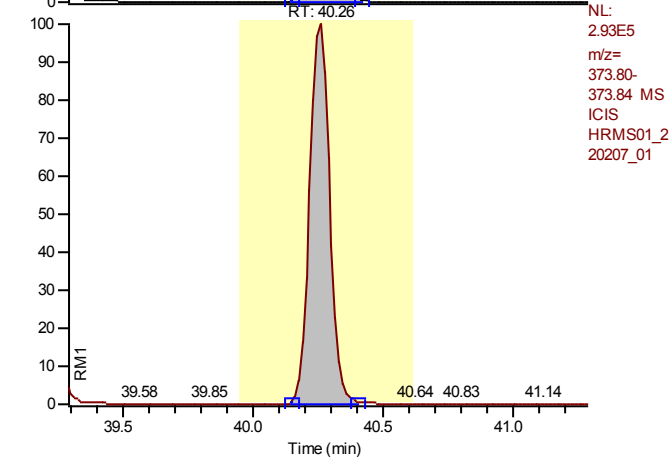
Chromatogram

Entry Parameters

RT: 39.29 - 41.29 SM: 7G



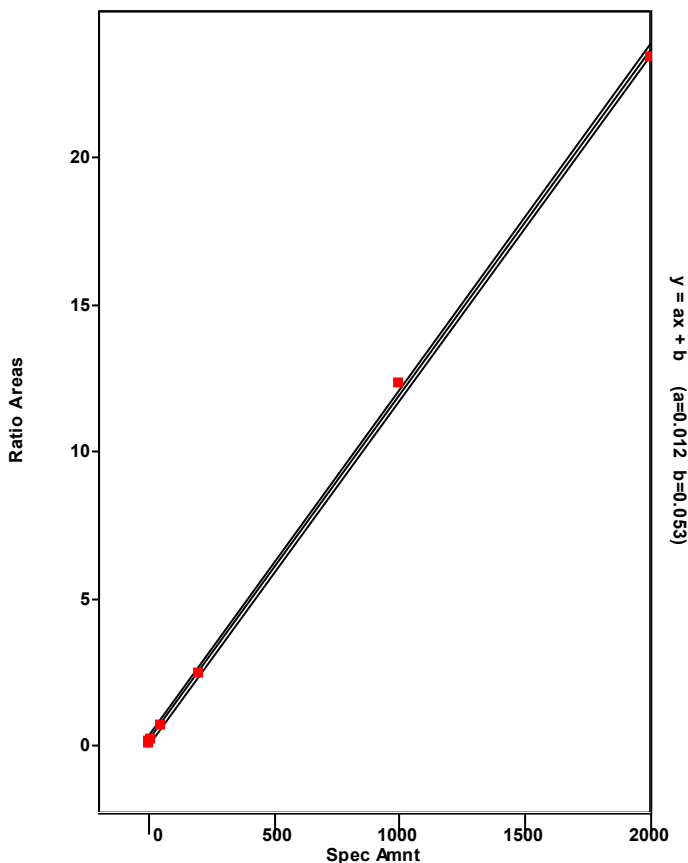
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	1277570
RM1 Area	1570521
RM1 Ratio (A)	1.2293
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.99
Percent Recovery (A)	92
TEQ (A)	4.5991
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

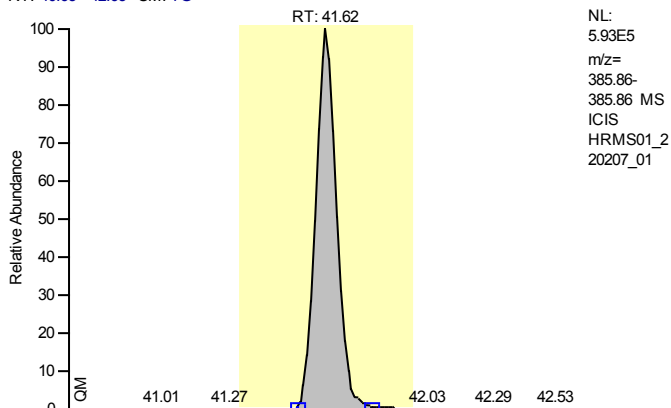
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



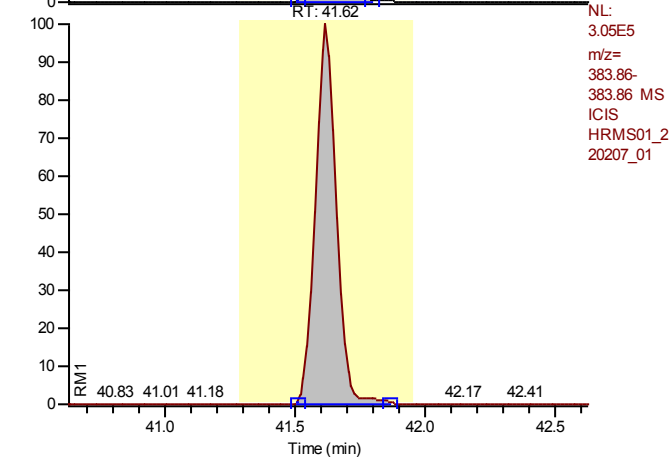
Chromatogram

Entry Parameters

RT: 40.63 - 42.63 SM: 7G



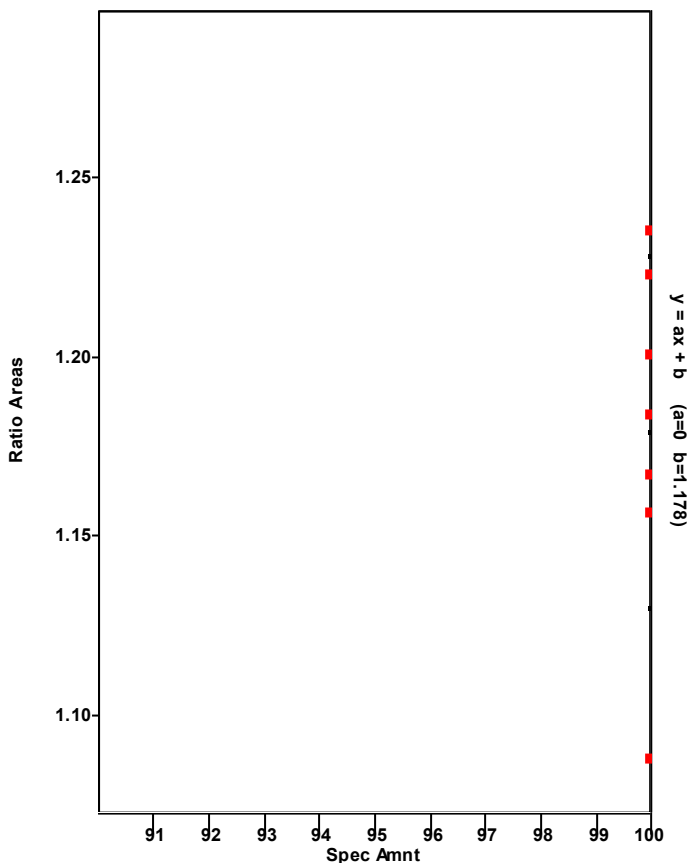
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	3322798
RM1 Area	1713380
RM1 Ratio (A)	0.5156
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	91.62
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

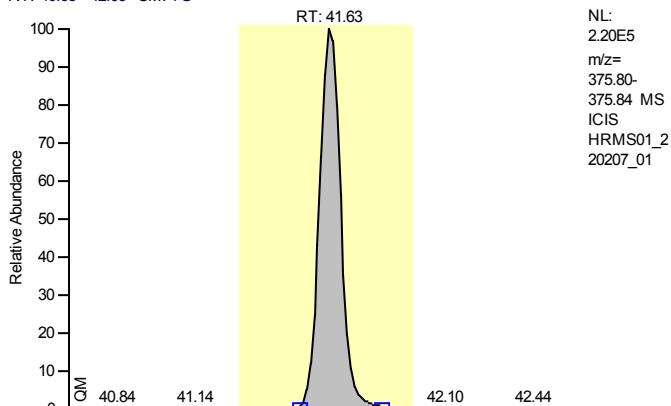
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



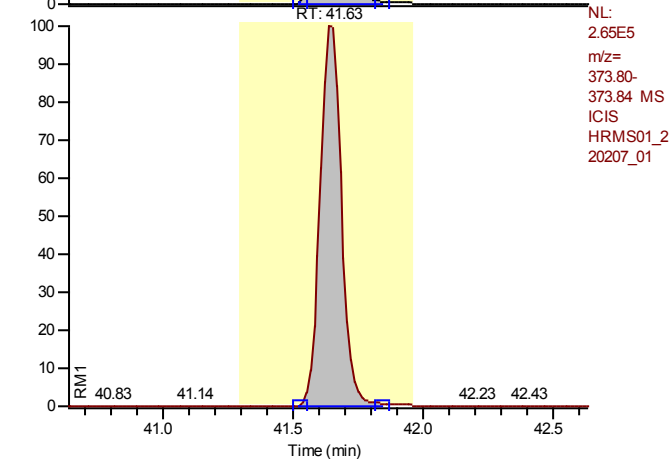
Chromatogram

Entry Parameters

RT: 40.63 - 42.63 SM: 7G



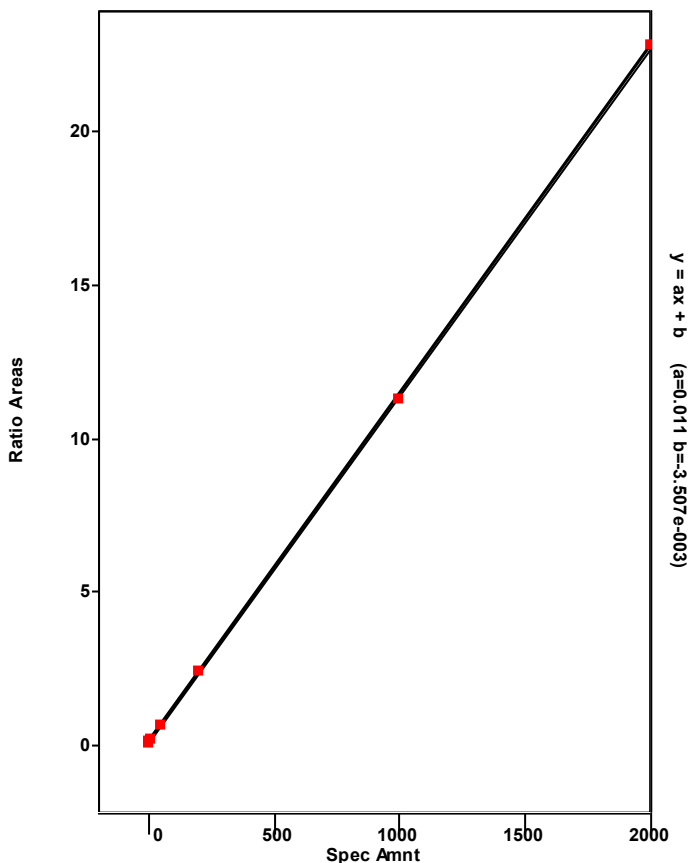
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	1231747
RM1 Area	1485755
RM1 Ratio (A)	1.2062
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.15
Percent Recovery (A)	92
TEQ (A)	4.6153
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

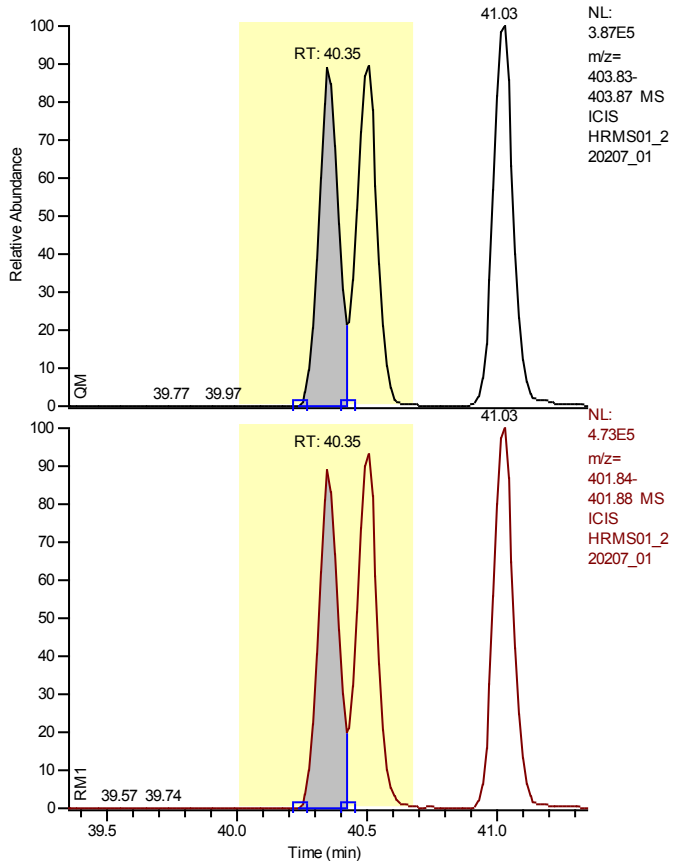
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

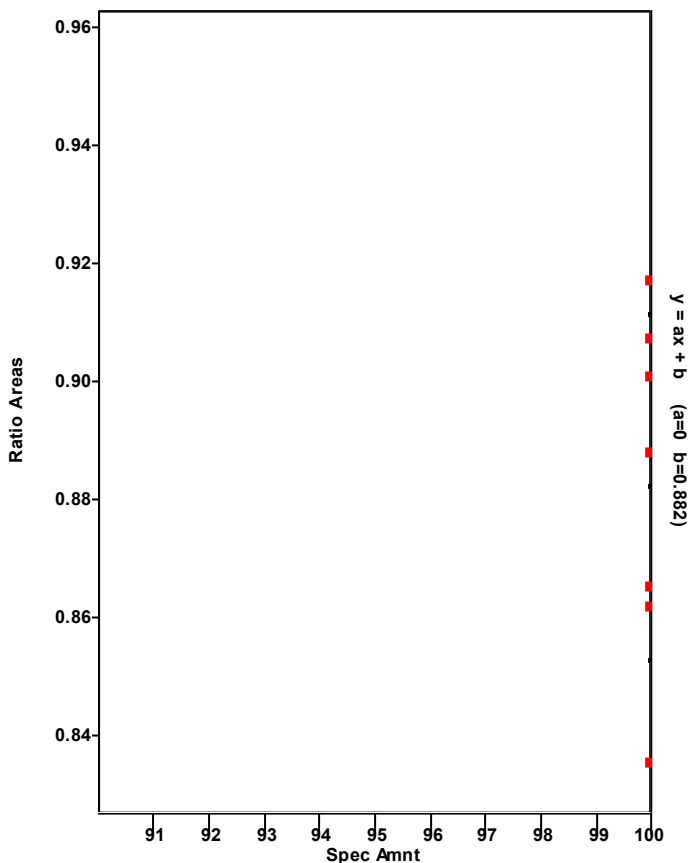
RT: 39.35 - 41.35 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1793515
RM1 Area	2201912
RM1 Ratio (A)	1.2277
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	97.14
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

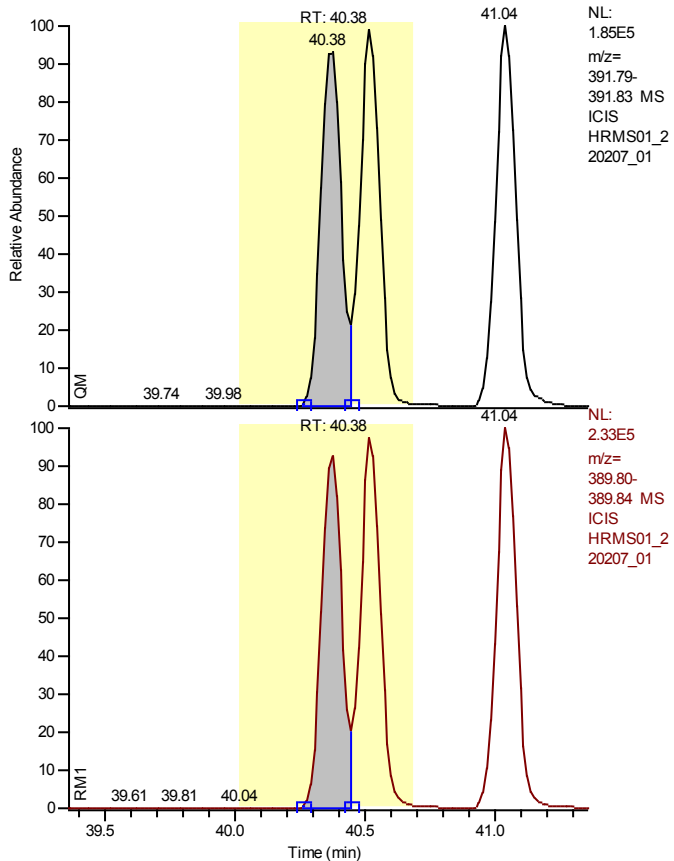
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.36 - 41.36 SM: 7G

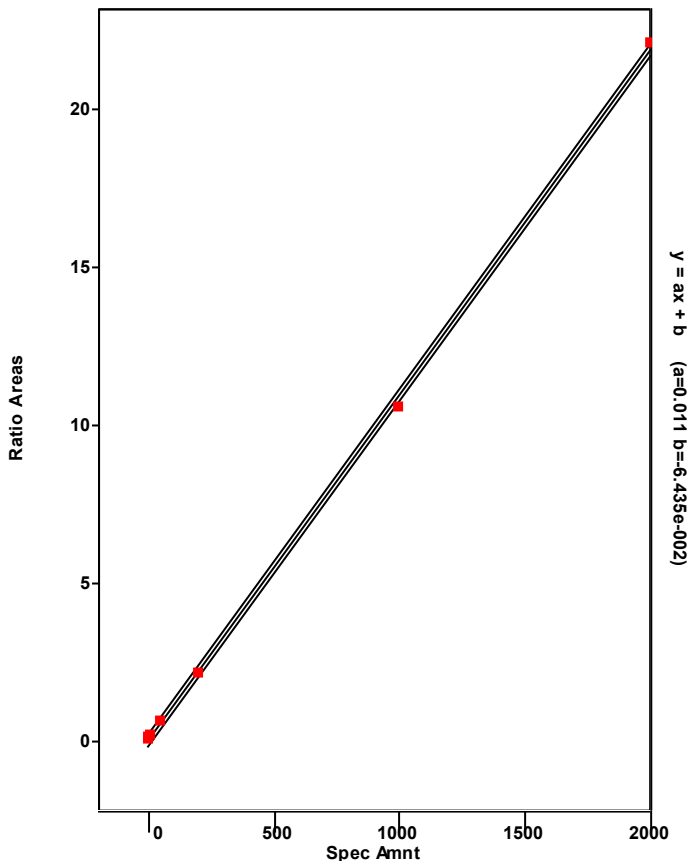


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	940274
RM1 Area	1157780
RM1 Ratio (A)	1.2313
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.92
Percent Recovery (A)	96
TEQ (A)	4.7923
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

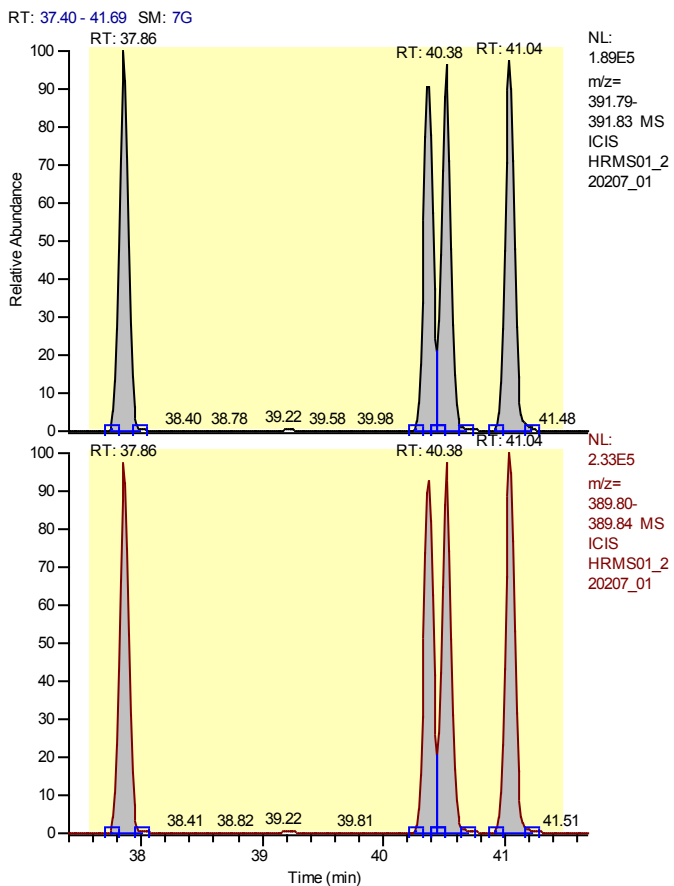
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

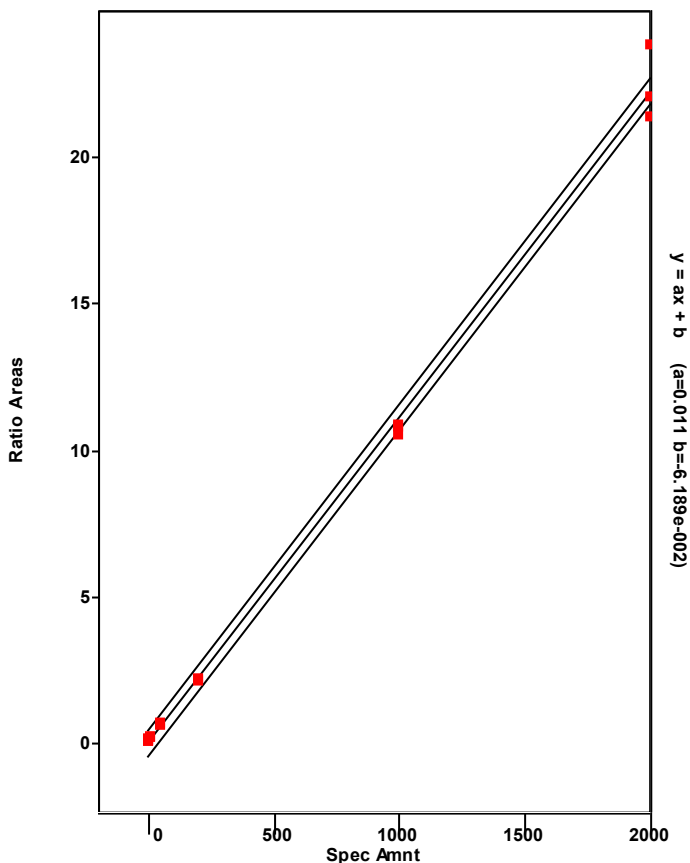


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	3917670
RM1 Area	4827350
RM1 Ratio (A)	1.2322
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	196.32
Percent Recovery (A)	393
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

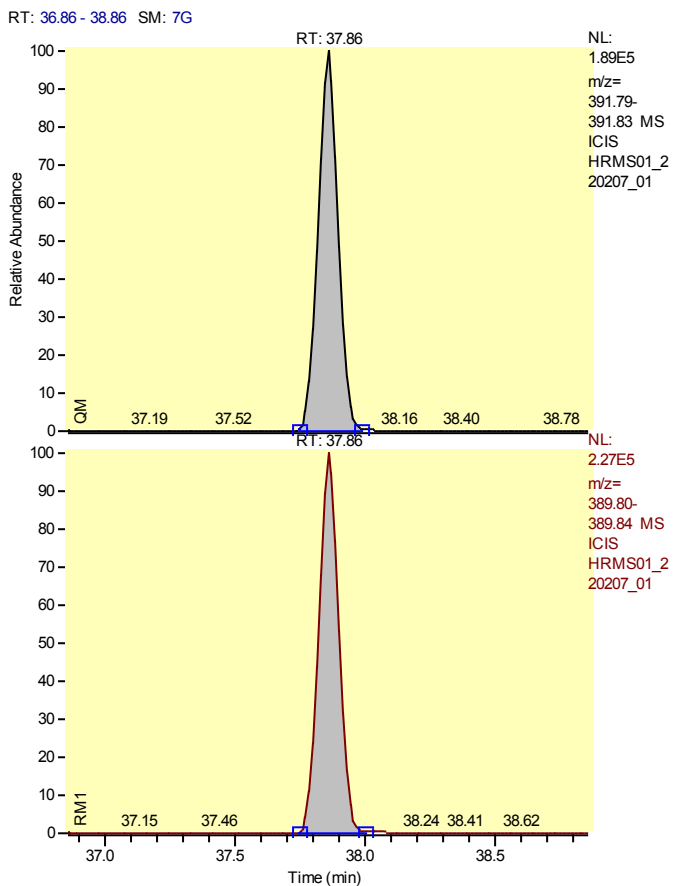
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

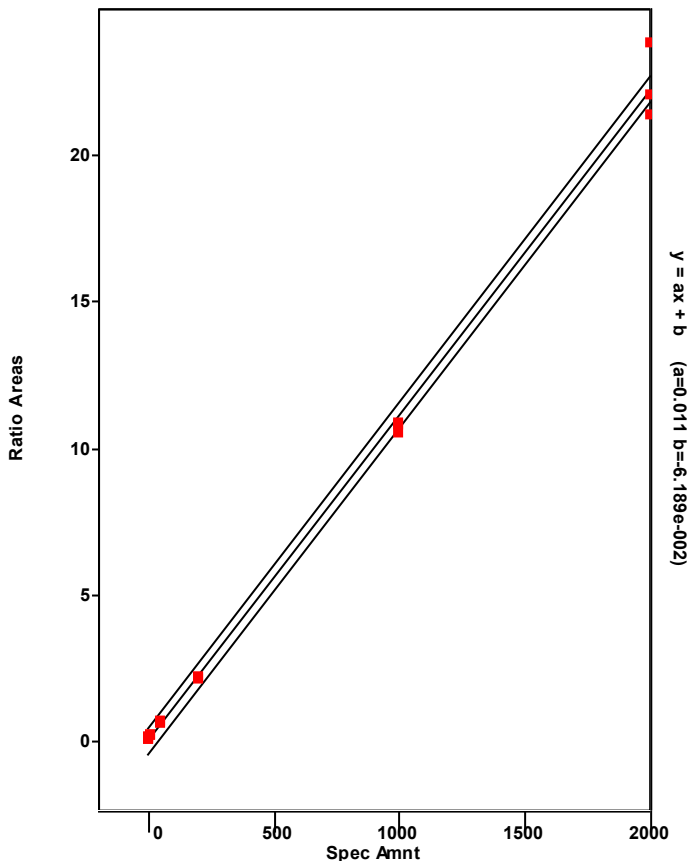


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	1007164
RM1 Area	1212969
RM1 Ratio (A)	1.2043
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	49.84
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

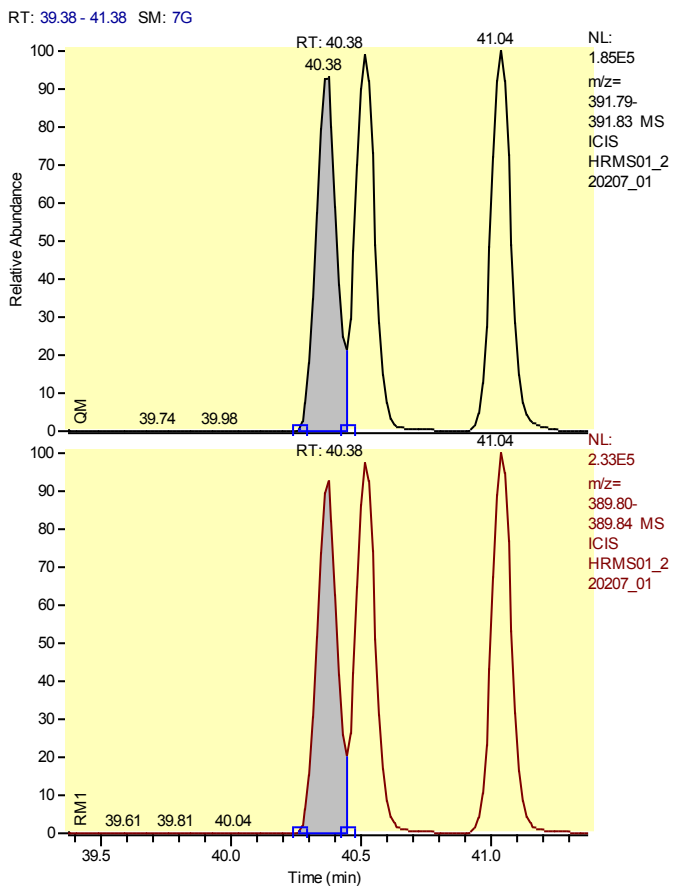
Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

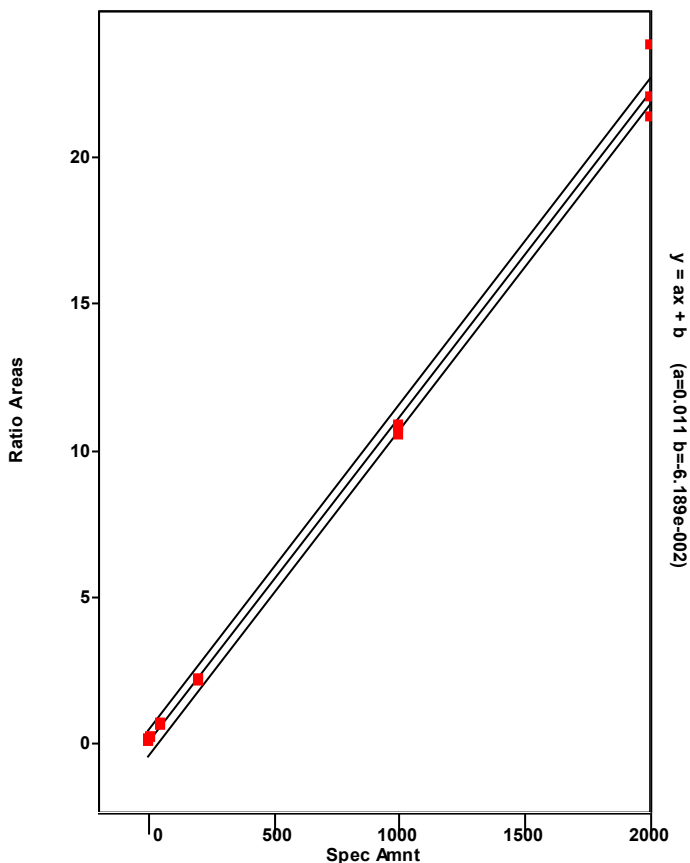


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	940274
RM1 Area	1157780
RM1 Ratio (A)	1.2313
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.10
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

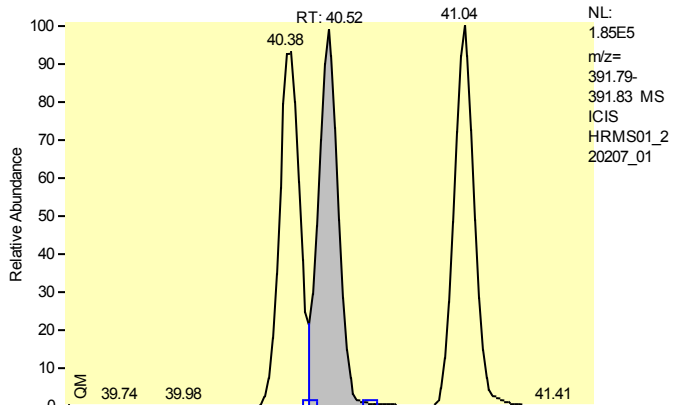
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



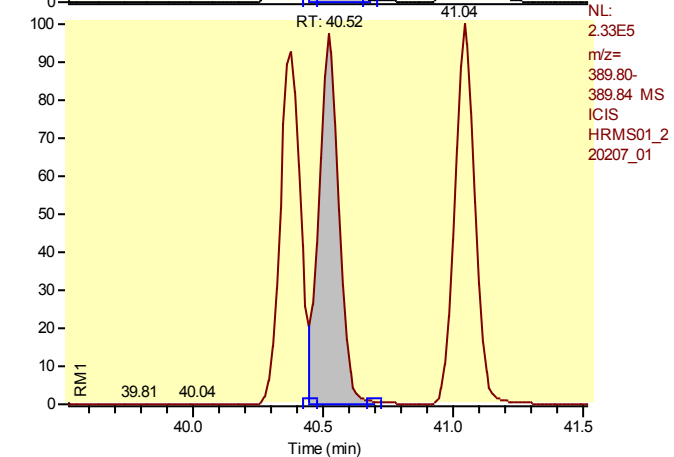
Chromatogram

Entry Parameters

RT: 39.52 - 41.52 SM: 7G



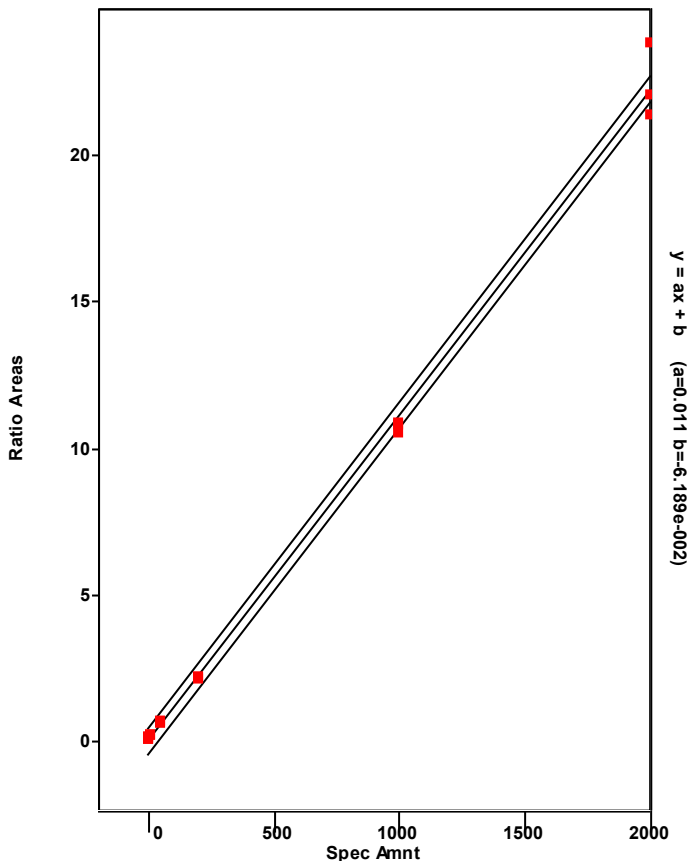
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	972639
RM1 Area	1210261
RM1 Ratio (A)	1.2443
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	49.01
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

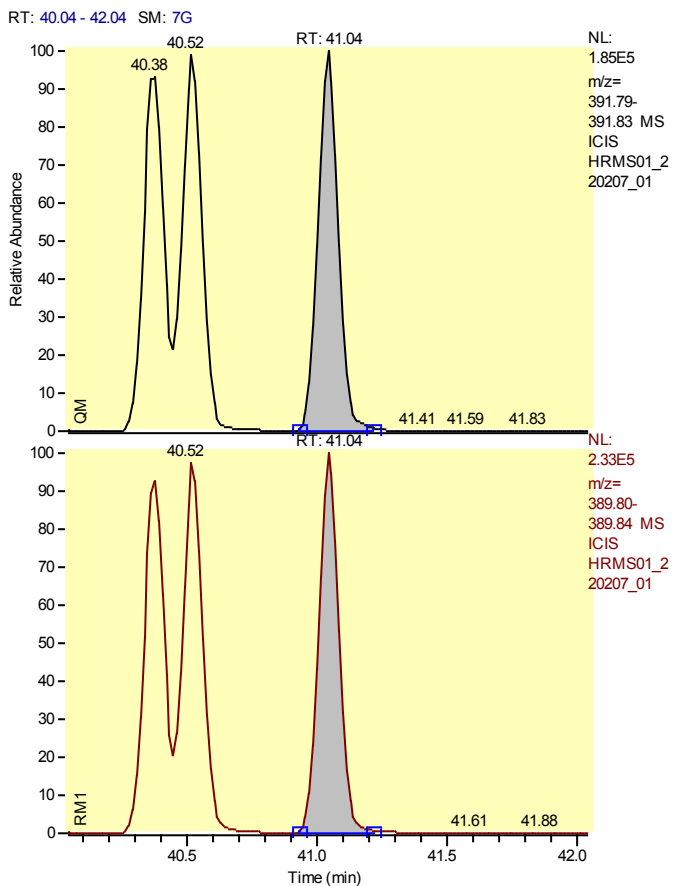
Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

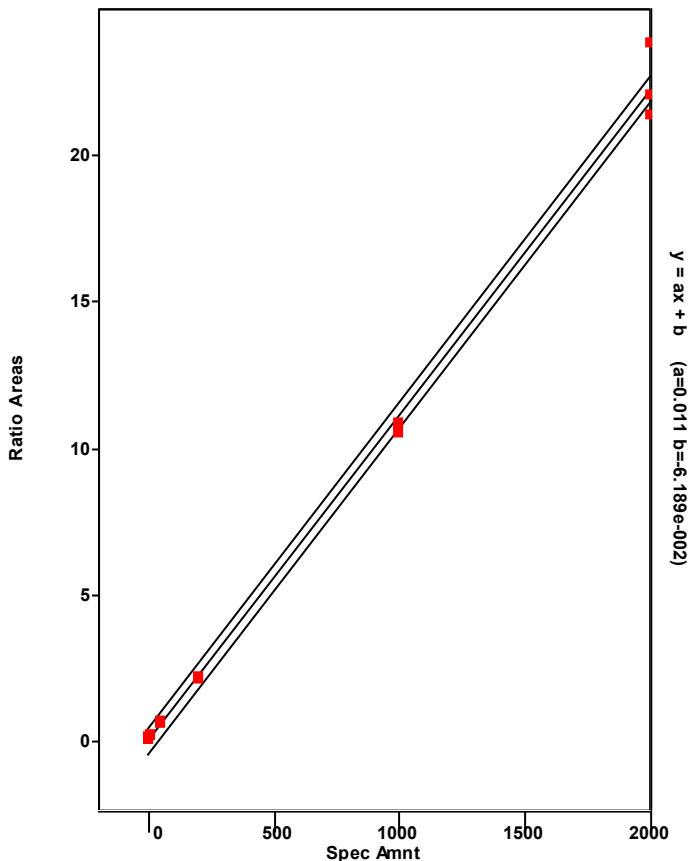


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	997592
RM1 Area	1246341
RM1 Ratio (A)	1.2493
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.38
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

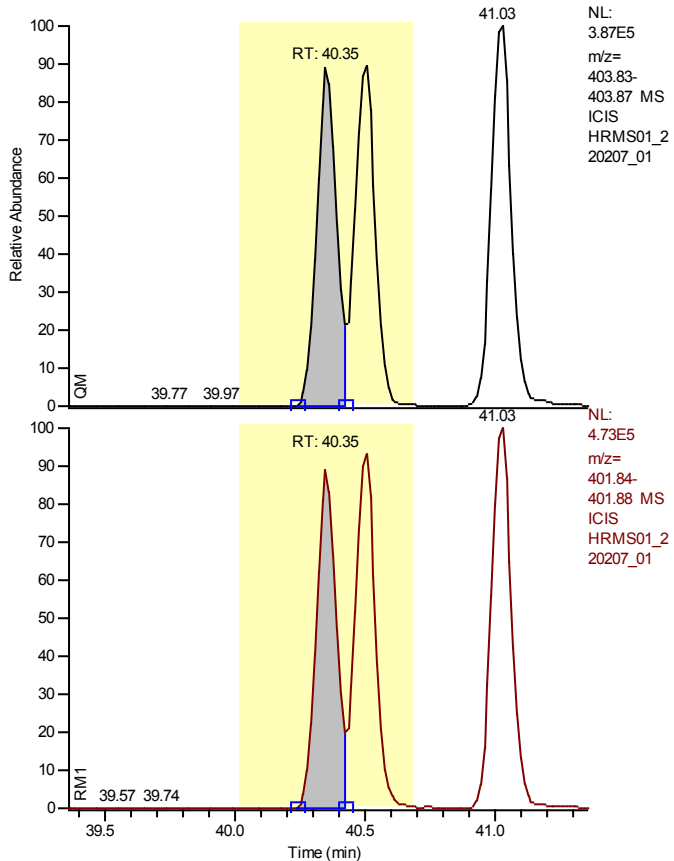
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

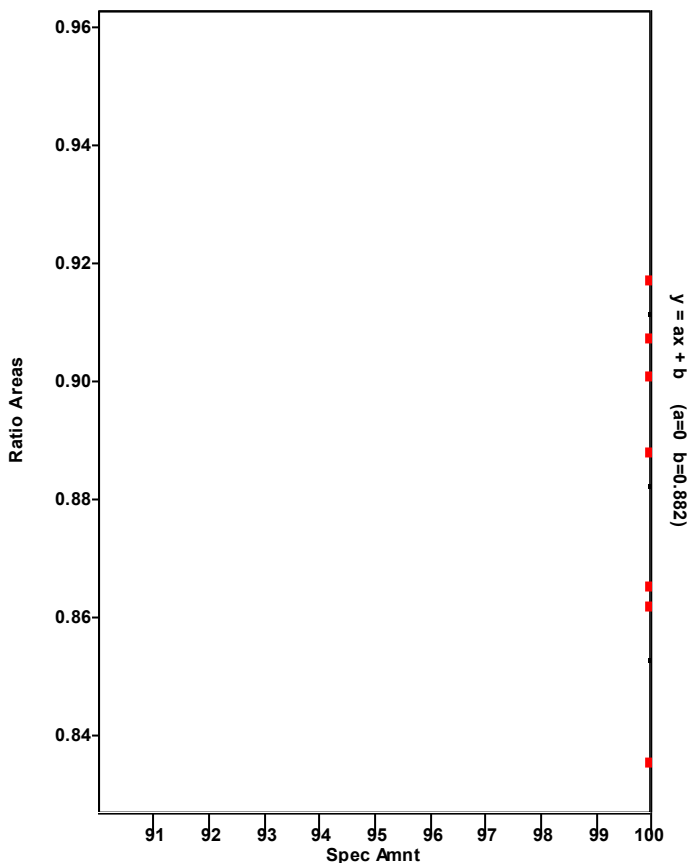
RT: 39.36 - 41.36 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1793515
RM1 Area	2201912
RM1 Ratio (A)	1.2277
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	97.14
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

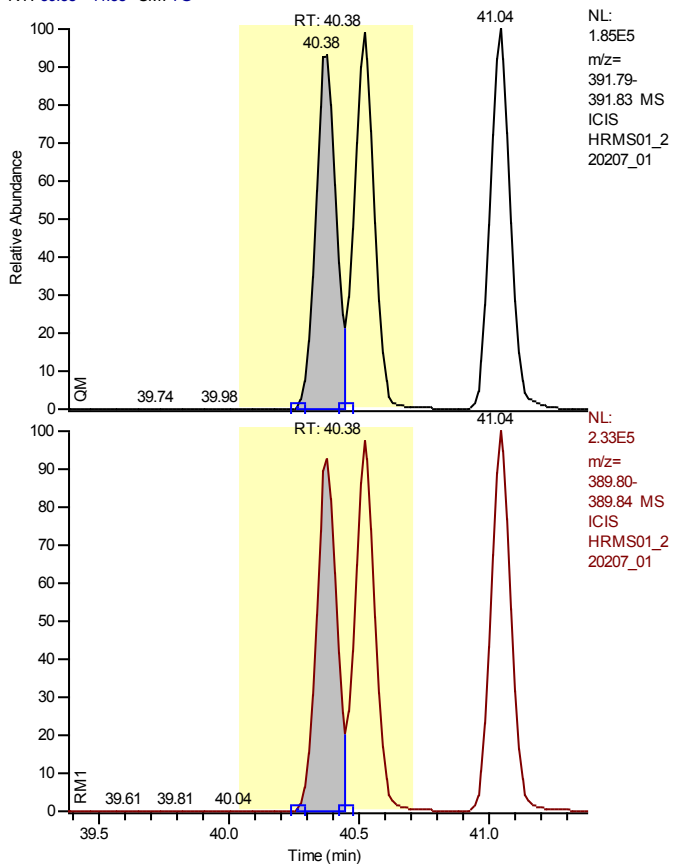
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.38 - 41.38 SM: 7G

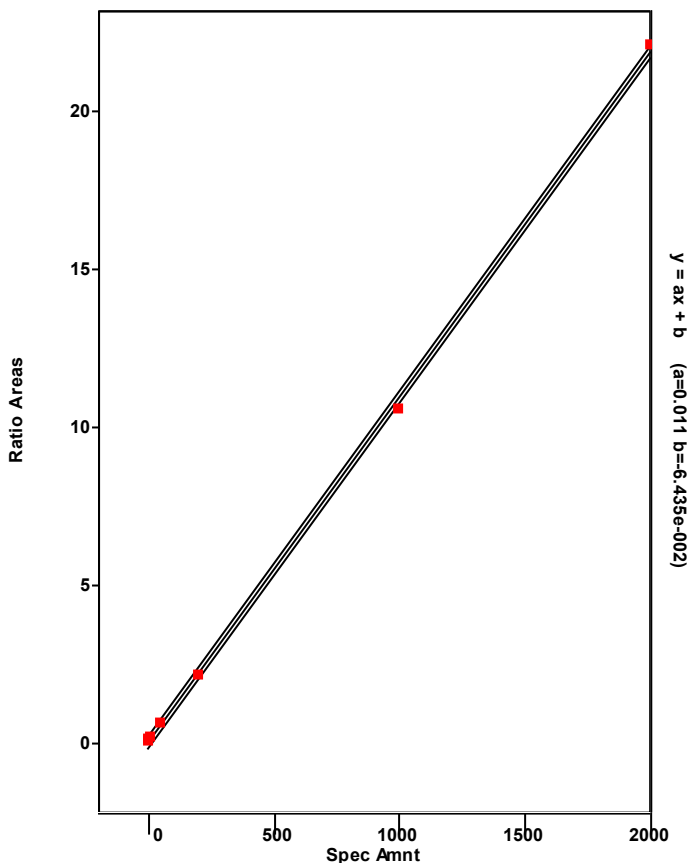


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	940274
RM1 Area	1157780
RM1 Ratio (A)	1.2313
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.92
Percent Recovery (A)	96
TEQ (A)	4.7923
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

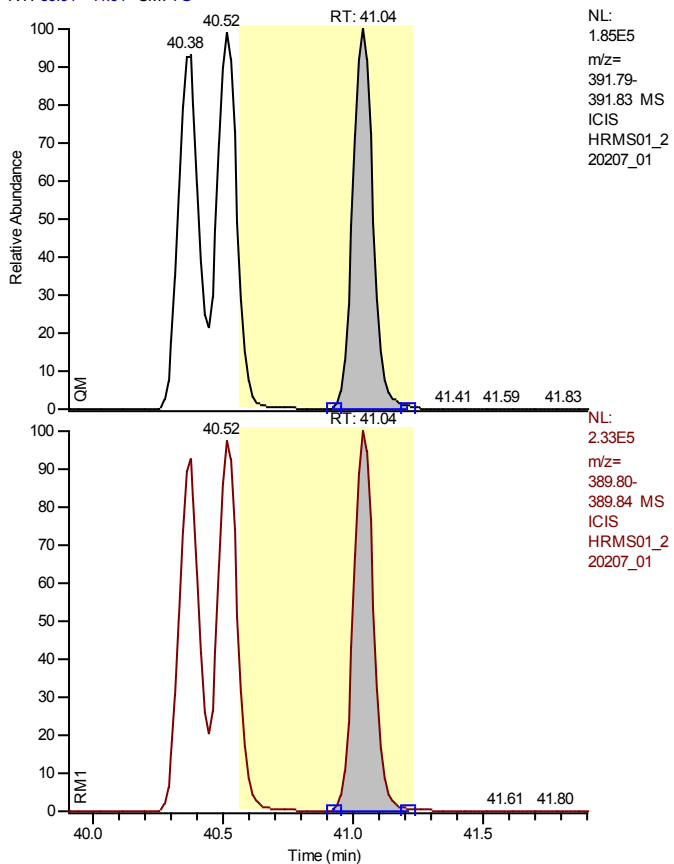
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 39.91 - 41.91 SM: 7G



NL:
1.85E5
m/z=
391.79-
391.83 MS
ICIS
HRMS01_2
20207_01

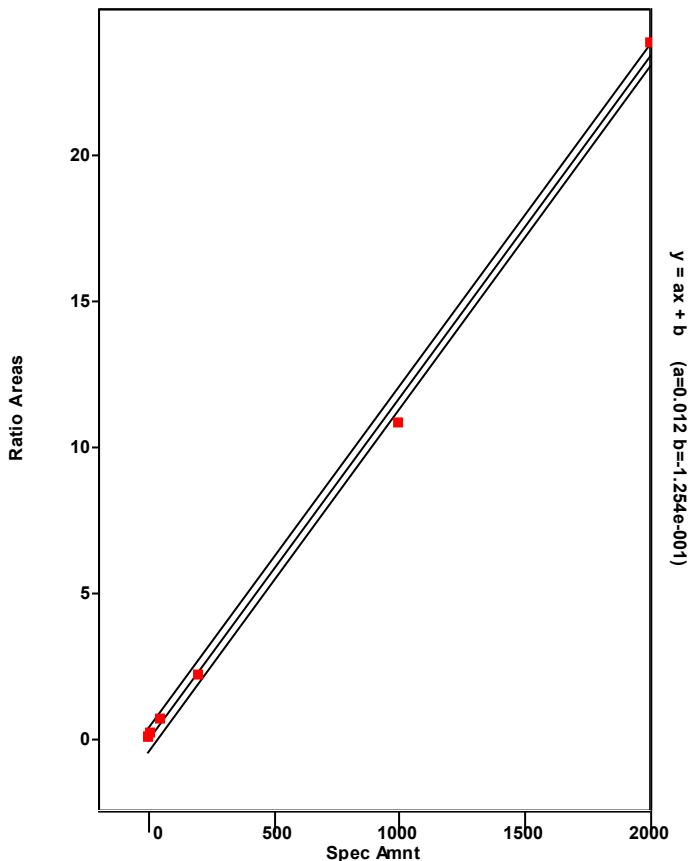
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	997592
RM1 Area	1246341
RM1 Ratio (A)	1.2493
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.61
Percent Recovery (A)	97
TEQ (A)	4.8606
Label2	

NL:
2.33E5
m/z=
389.80-
389.84 MS
ICIS
HRMS01_2
20207_01

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

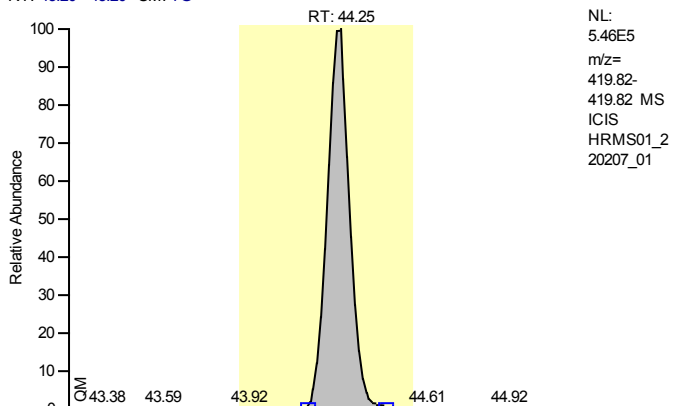
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



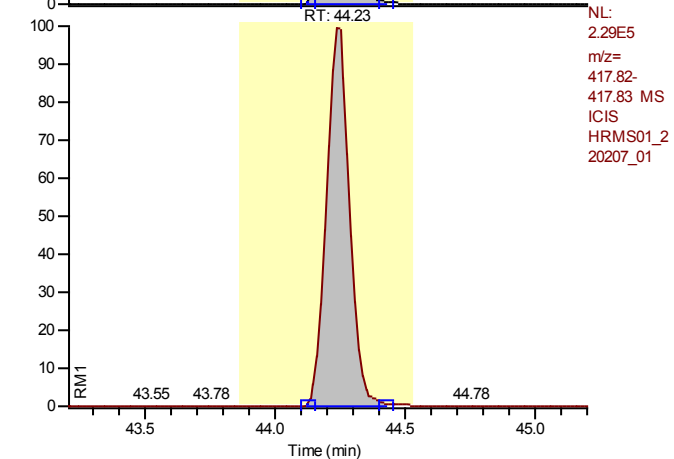
Chromatogram

Entry Parameters

RT: 43.20 - 45.20 SM: 7G

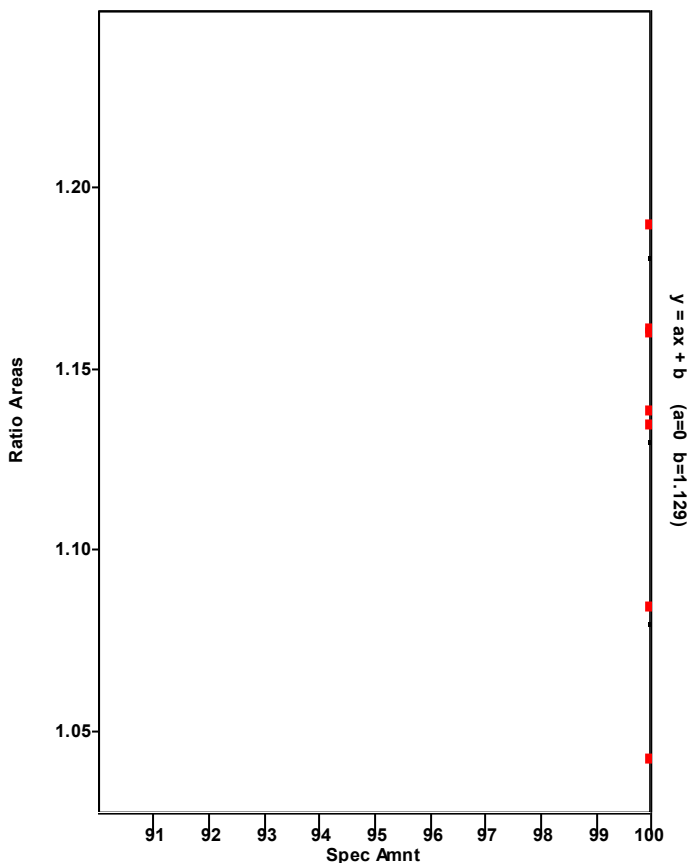


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	3275547
RM1 Area	1404129
RM1 Ratio (A)	0.4287
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	88.83
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

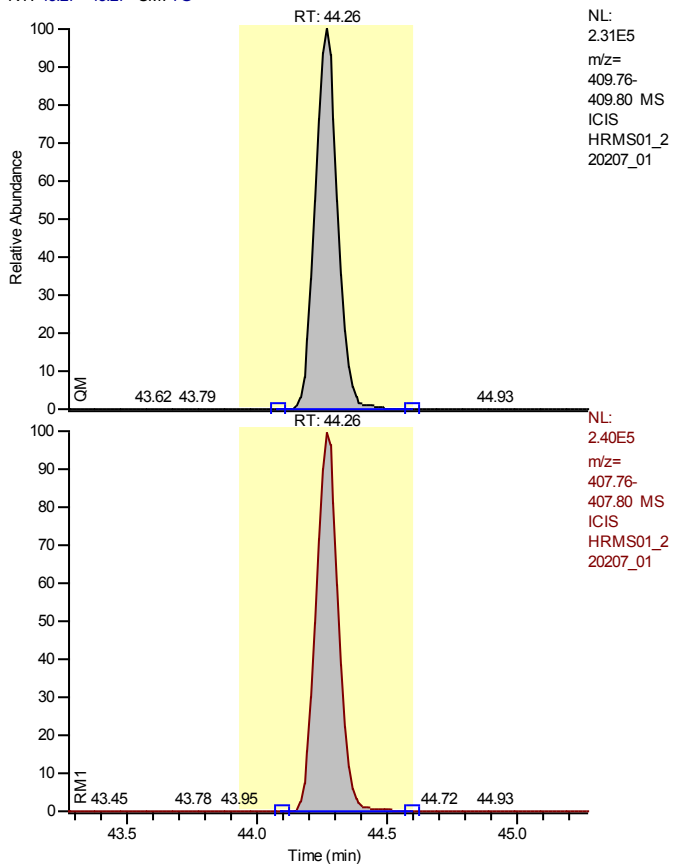
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.27 - 45.27 SM: 7G



NL:
2.31E5
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20207_01

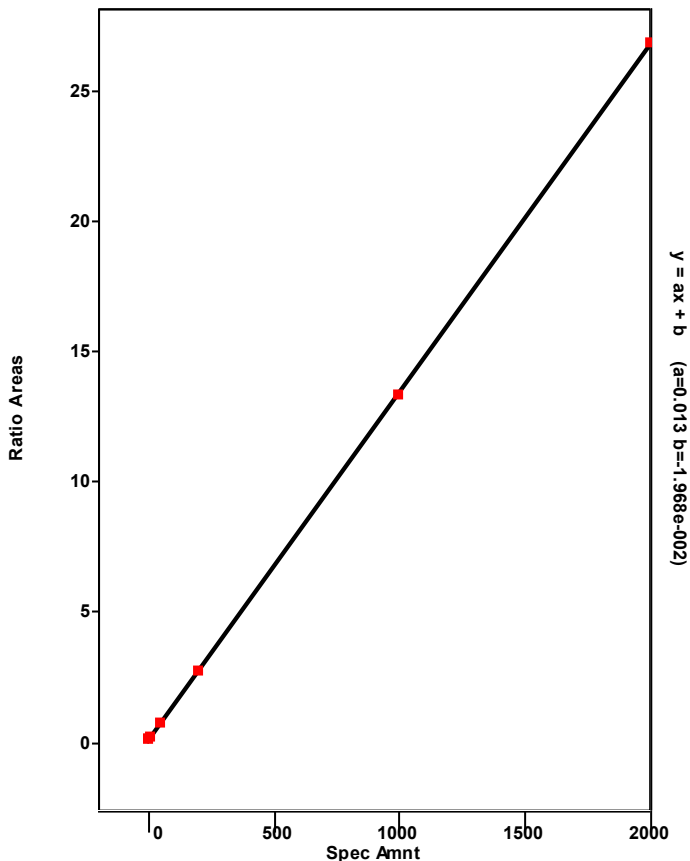
NL:
2.40E5
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	1399855
RM1 Area	1441581
RM1 Ratio (A)	1.0298
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	45.00
Percent Recovery (A)	90
TEQ (A)	0.4500
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

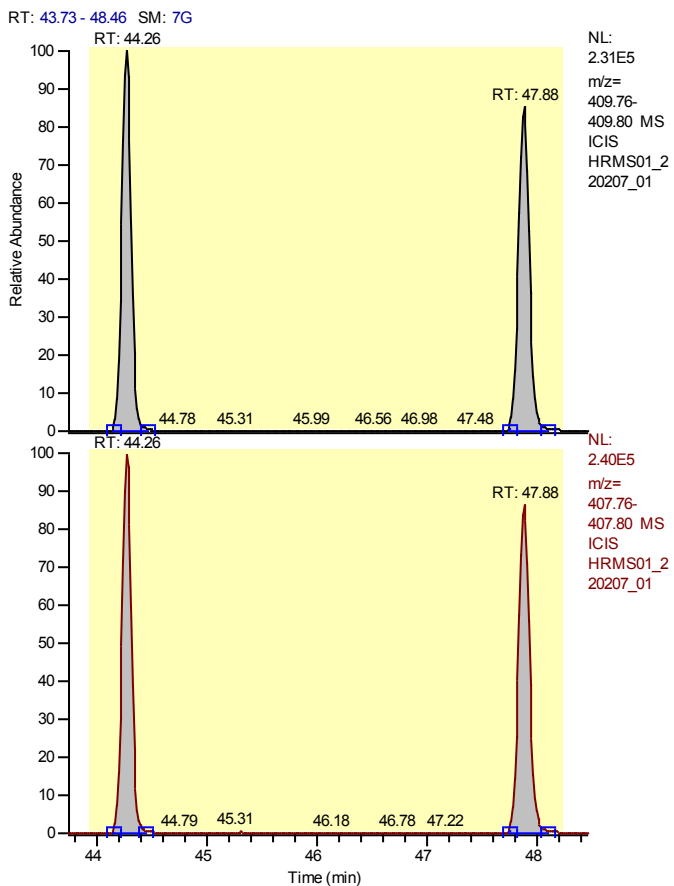
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

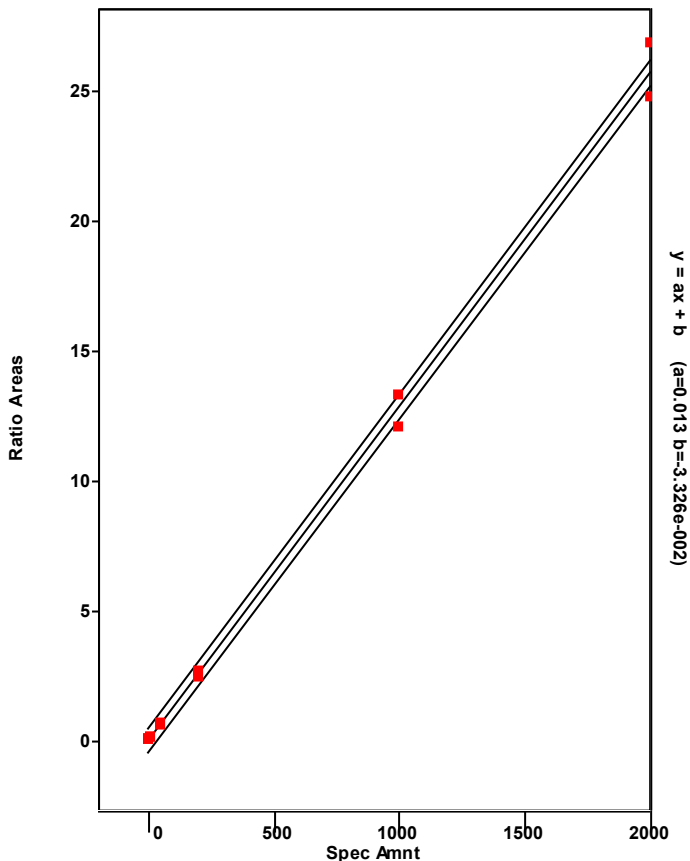


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	2769899
RM1 Area	2885641
RM1 Ratio (A)	1.0418
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	94.07
Percent Recovery (A)	188
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

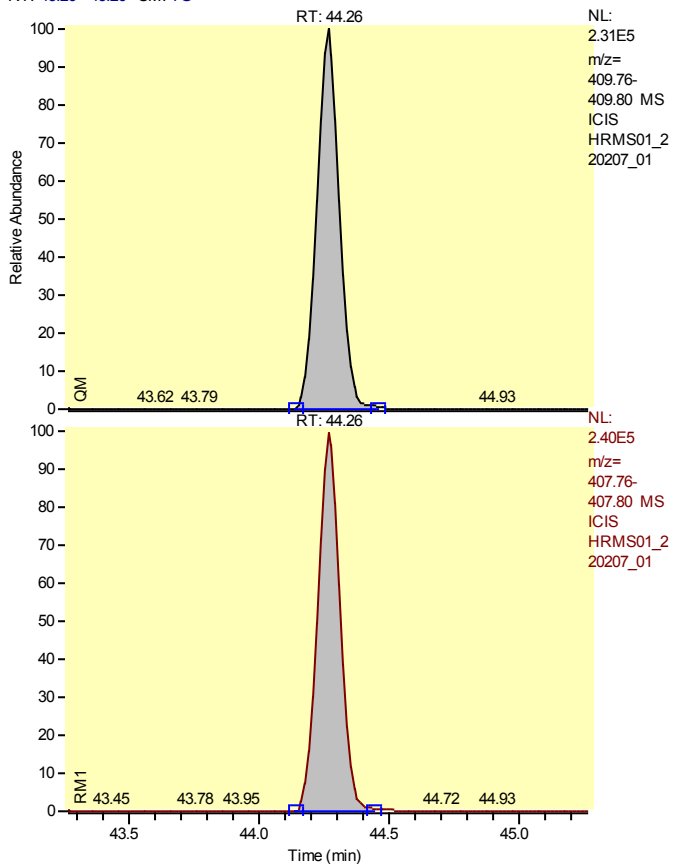
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.26 - 45.26 SM: 7G

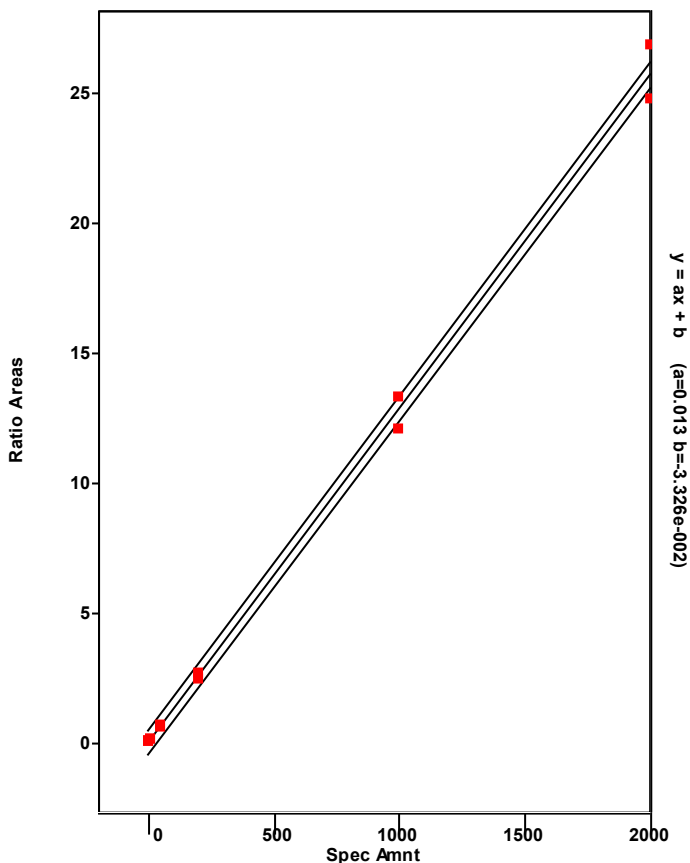


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1388503
RM1 Area	1428766
RM1 Ratio (A)	1.0290
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	46.86
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

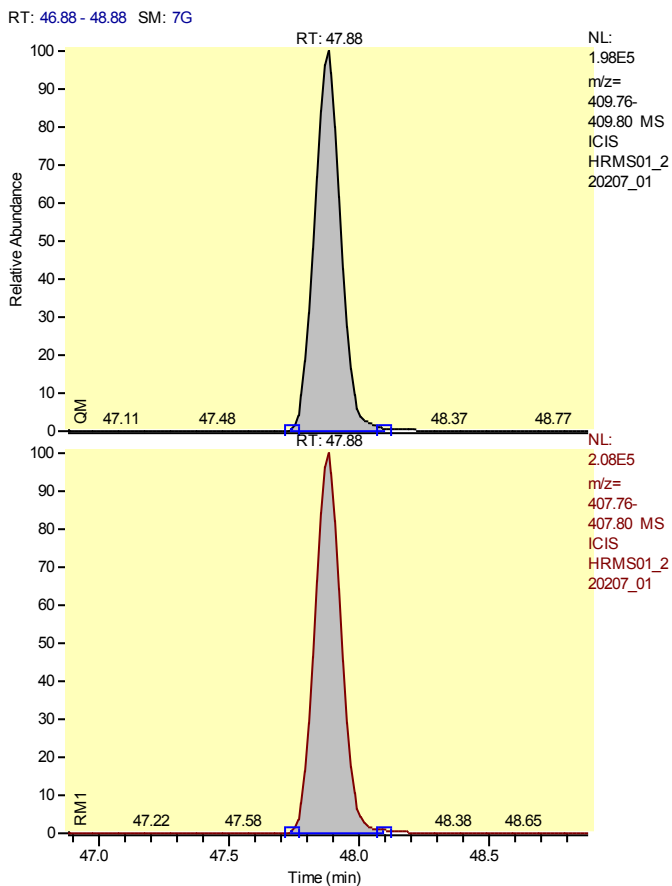
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

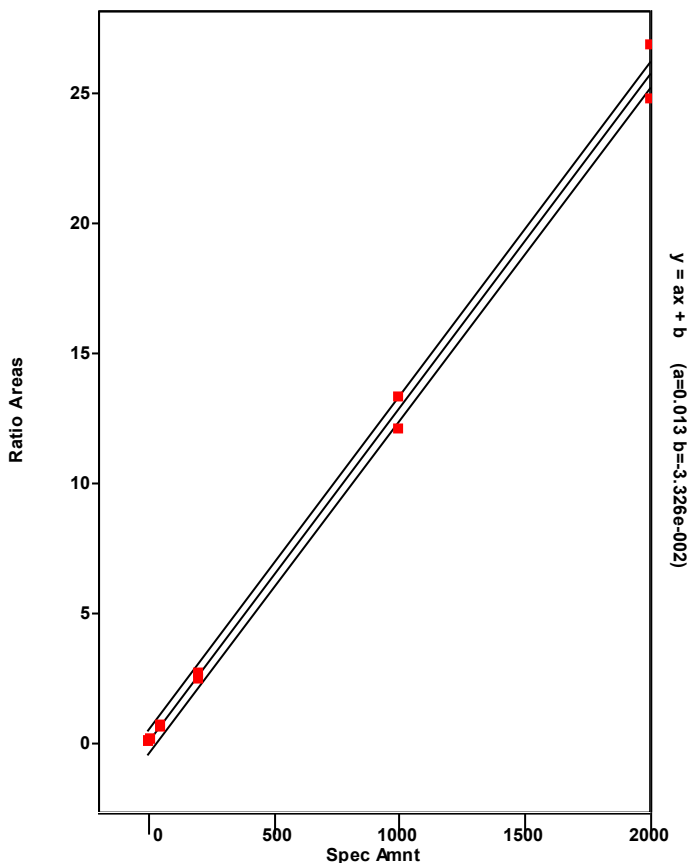


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1381396
RM1 Area	1456875
RM1 Ratio (A)	1.0546
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.21
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

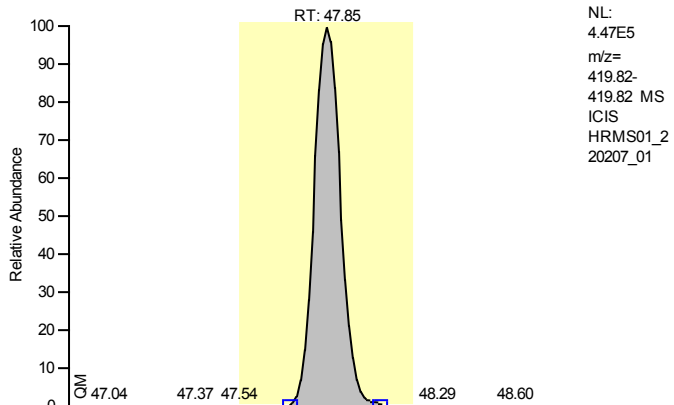
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



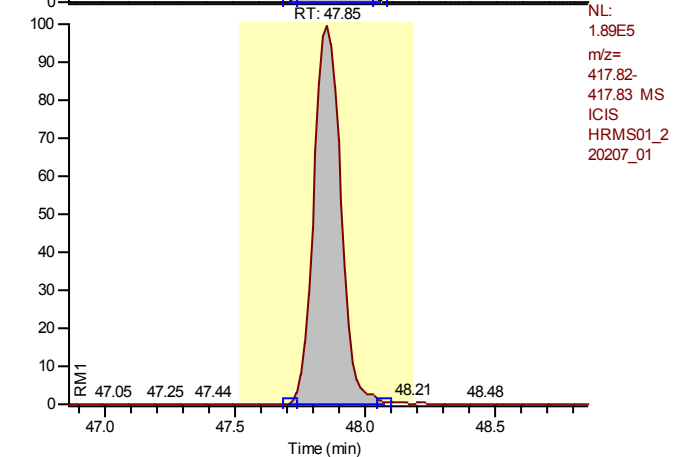
Chromatogram

Entry Parameters

RT: 46.86 - 48.86 SM: 7G

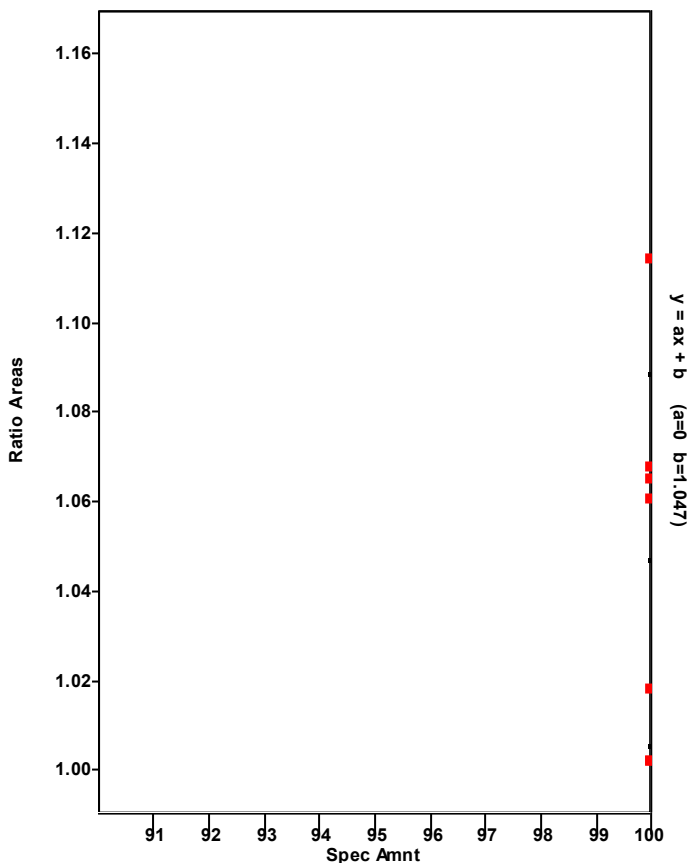


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	3169789
RM1 Area	1370331
RM1 Ratio (A)	0.4323
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	93.00
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

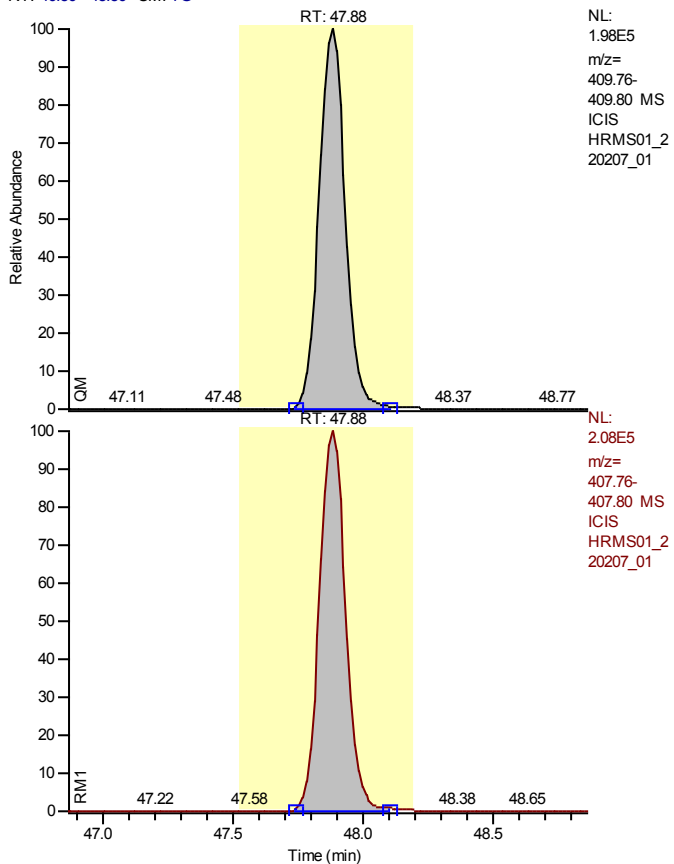
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.86 - 48.86 SM: 7G

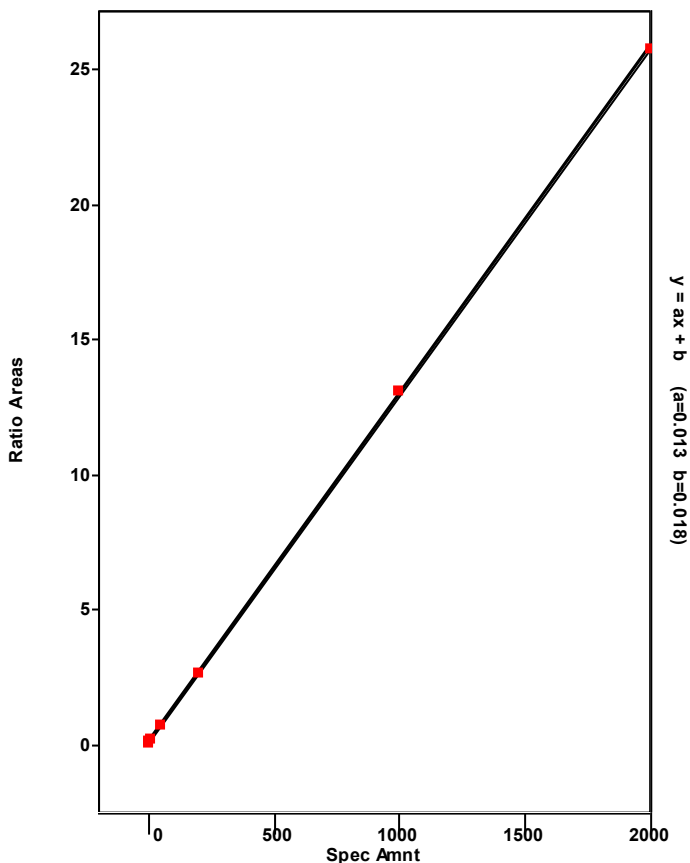


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	1381396
RM1 Area	1456875
RM1 Ratio (A)	1.0546
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.50
Percent Recovery (A)	95
TEQ (A)	0.4750
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

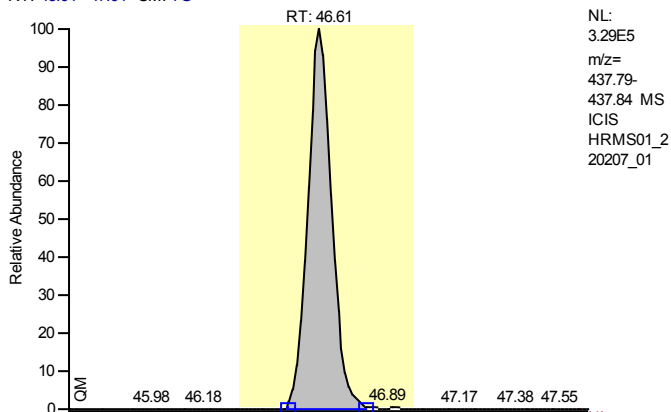
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



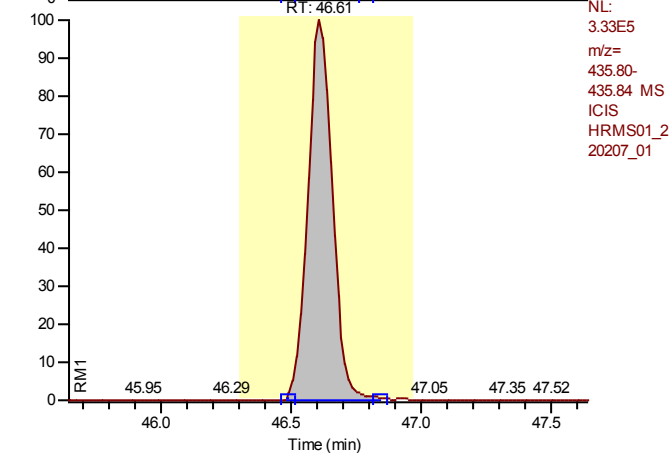
Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

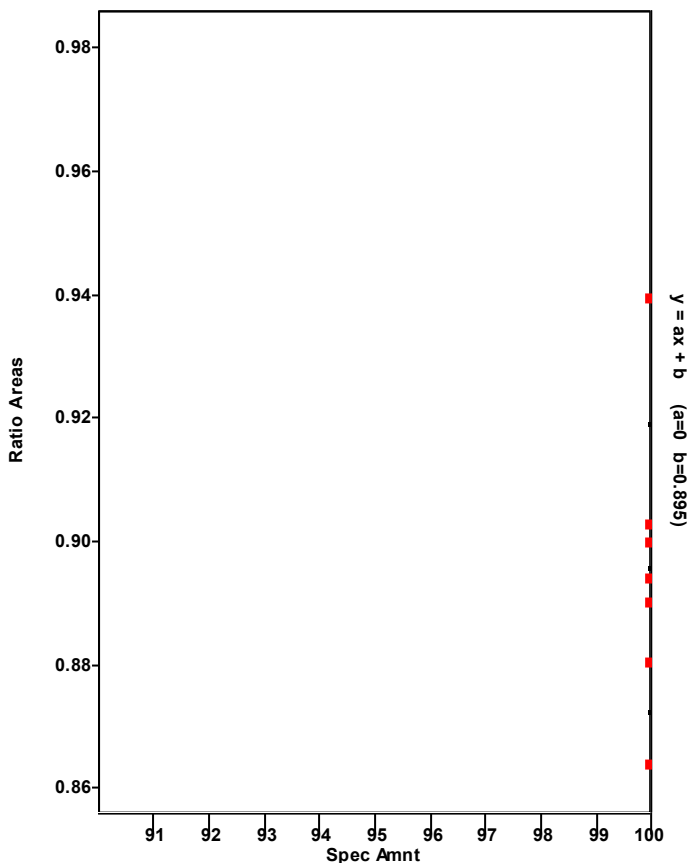


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	2108524
RM1 Area	2197960
RM1 Ratio (A)	1.0424
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	103.11
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

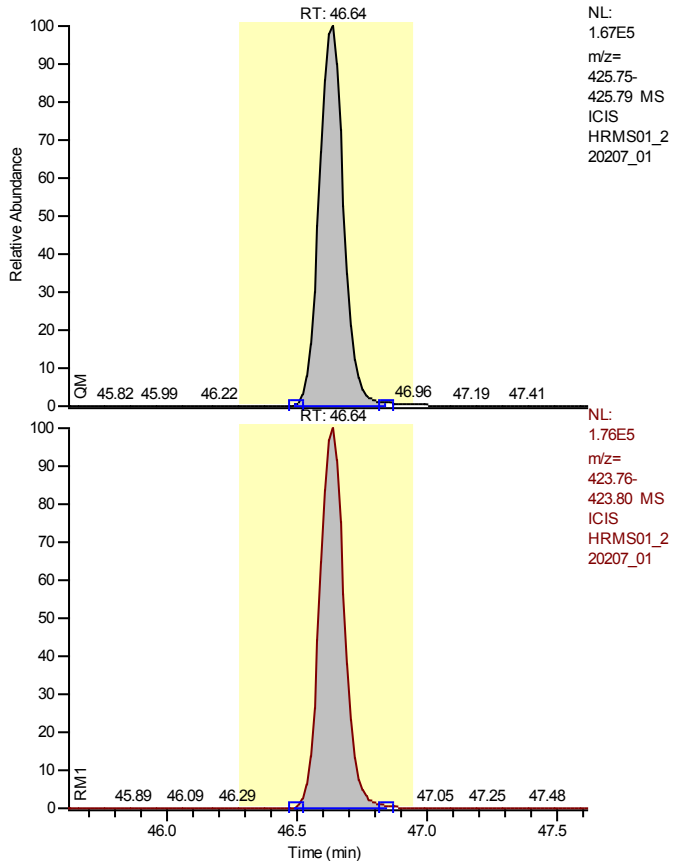
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.62 - 47.62 SM: 7G



NL:
1.67E5
m/z=
425.75-
425.79 MS
ICIS
HRMS01_2
20207_01

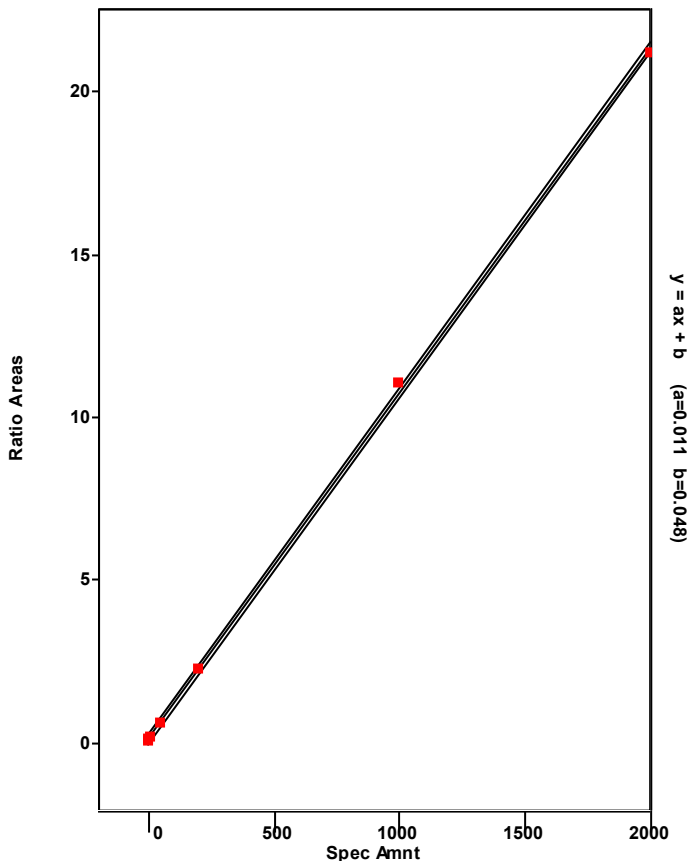
NL:
1.76E5
m/z=
423.76-
423.80 MS
ICIS
HRMS01_2
20207_01

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1095497
RM1 Area	1153199
RM1 Ratio (A)	1.0527
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.11
Percent Recovery (A)	94
TEQ (A)	0.4711
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

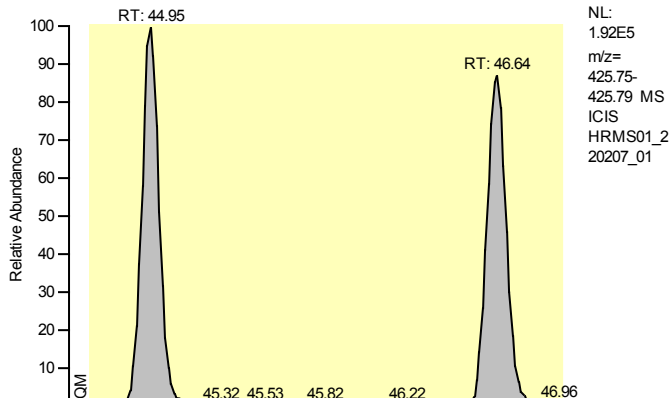
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



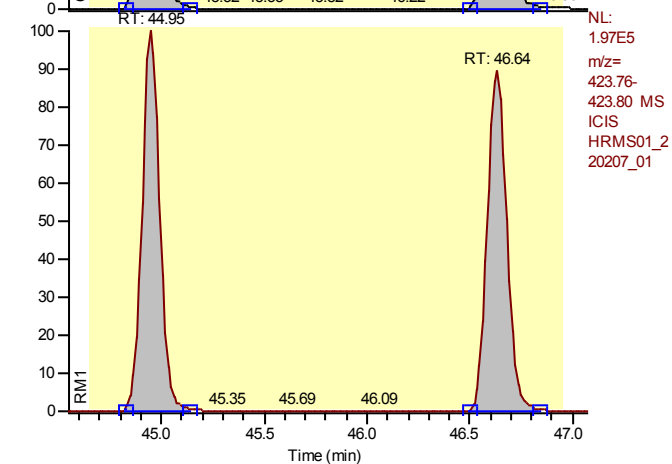
Chromatogram

Entry Parameters

RT: 44.55 - 47.08 SM: 7G



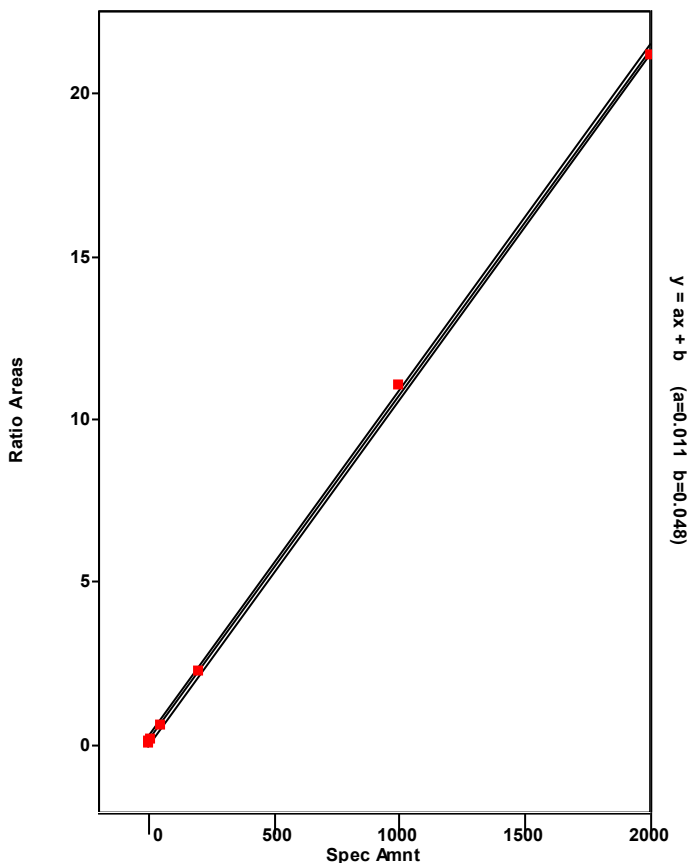
Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	2249129
RM1 Area	2348765
RM1 Ratio (A)	1.0443
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	96.33
Percent Recovery (A)	193
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

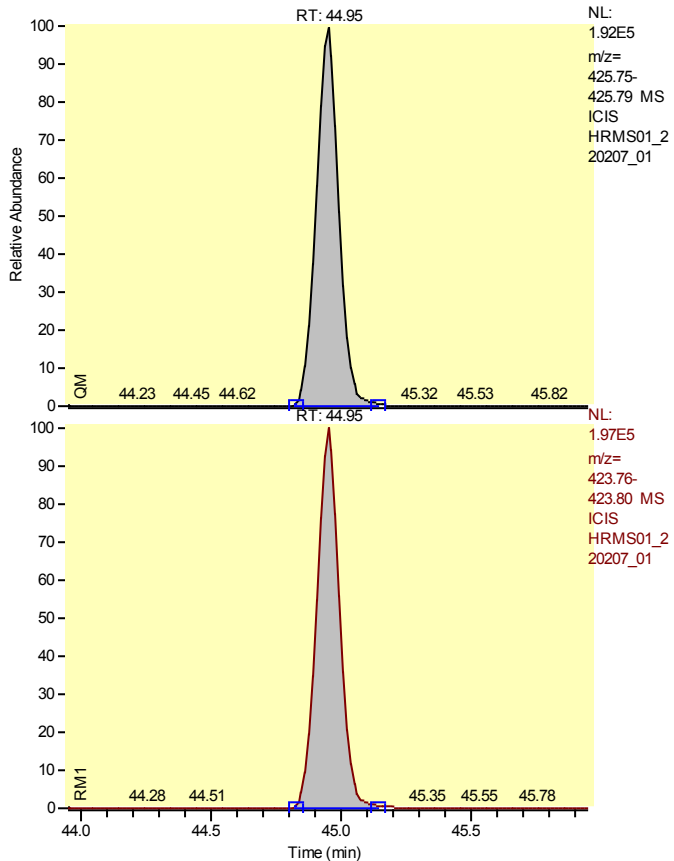
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.95 - 45.95 SM: 7G

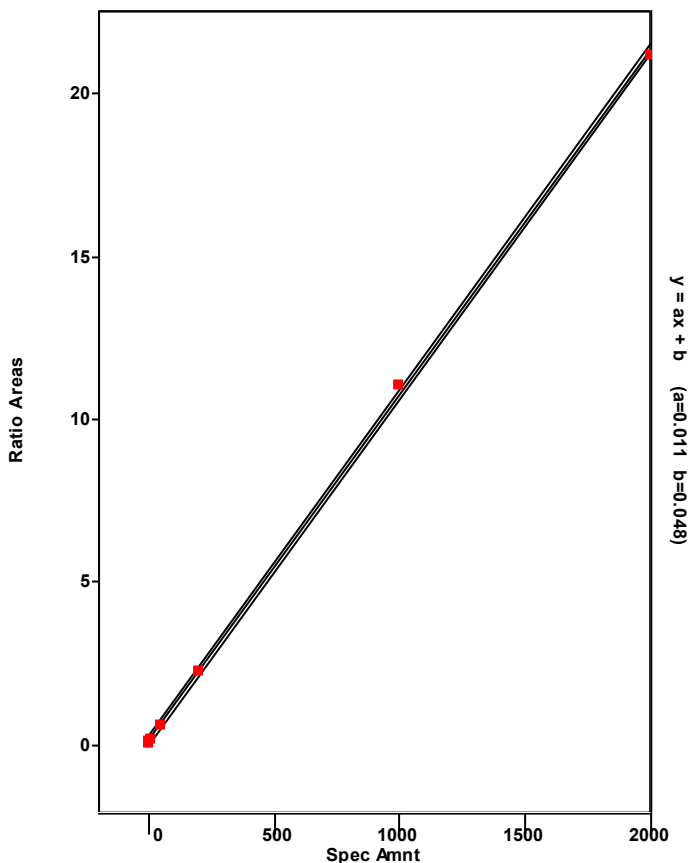


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1153633
RM1 Area	1195566
RM1 Ratio (A)	1.0363
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.22
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

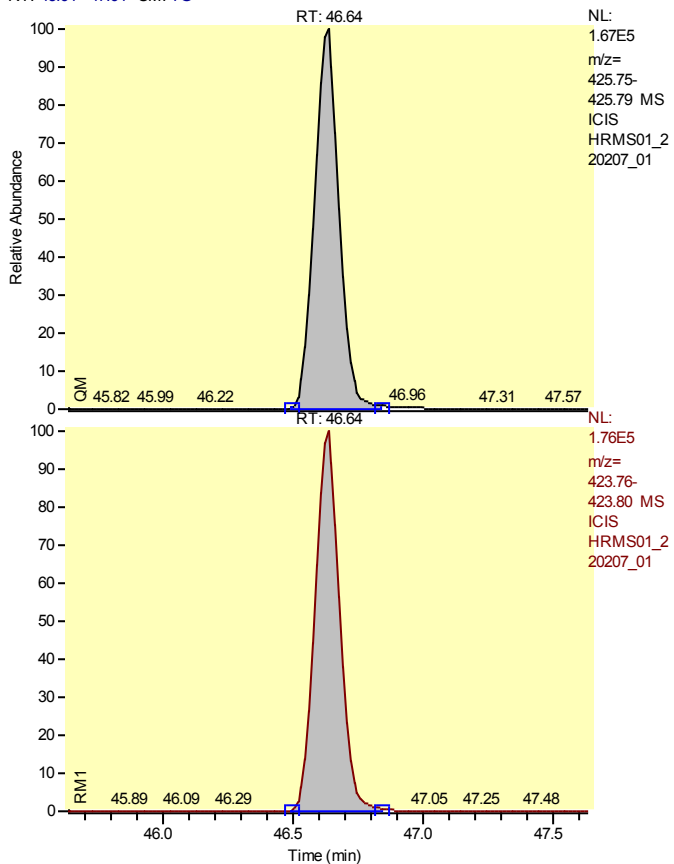
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

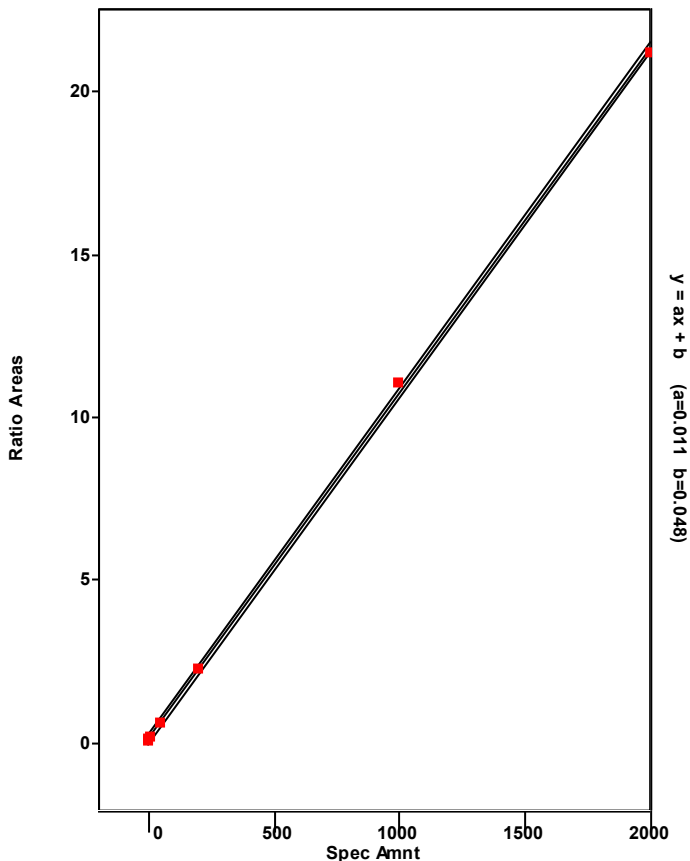


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1095497
RM1 Area	1153199
RM1 Ratio (A)	1.0527
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.11
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

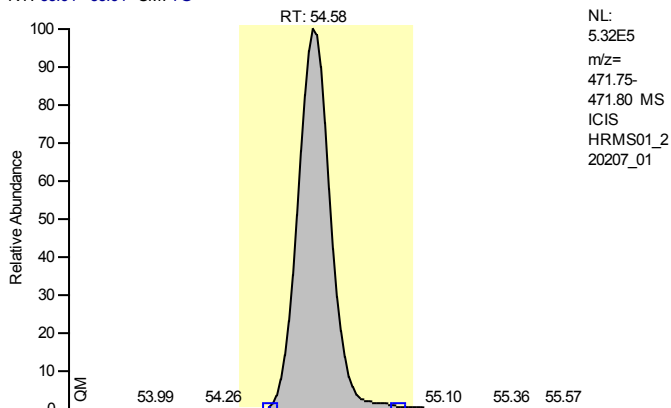
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



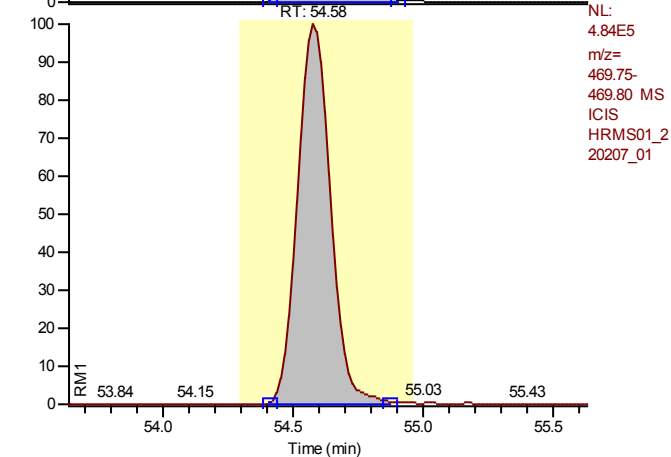
Chromatogram

Entry Parameters

RT: 53.64 - 55.64 SM: 7G



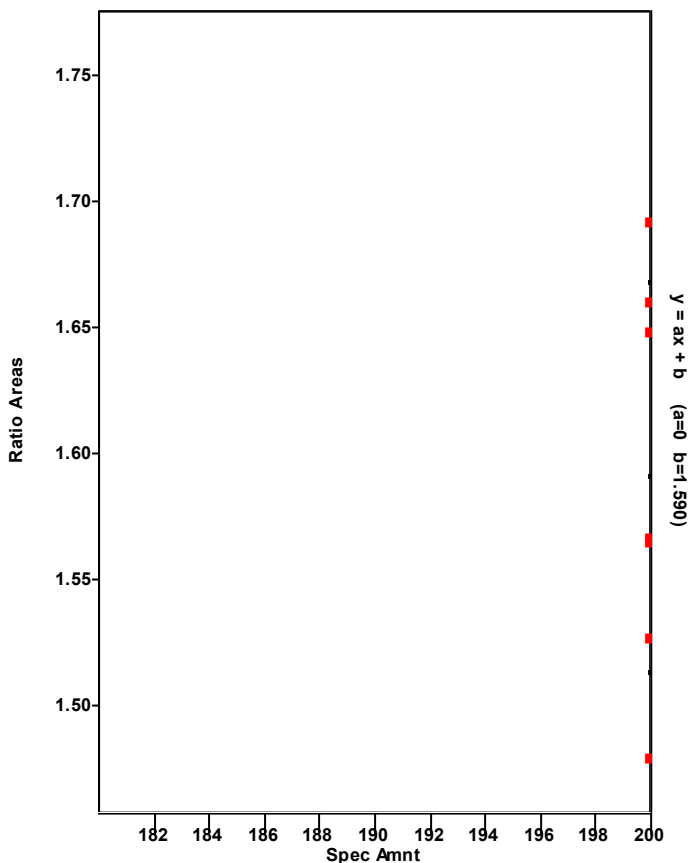
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	4673512
RM1 Area	4293072
RM1 Ratio (A)	0.9186
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	241.83
Percent Recovery (A)	121
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

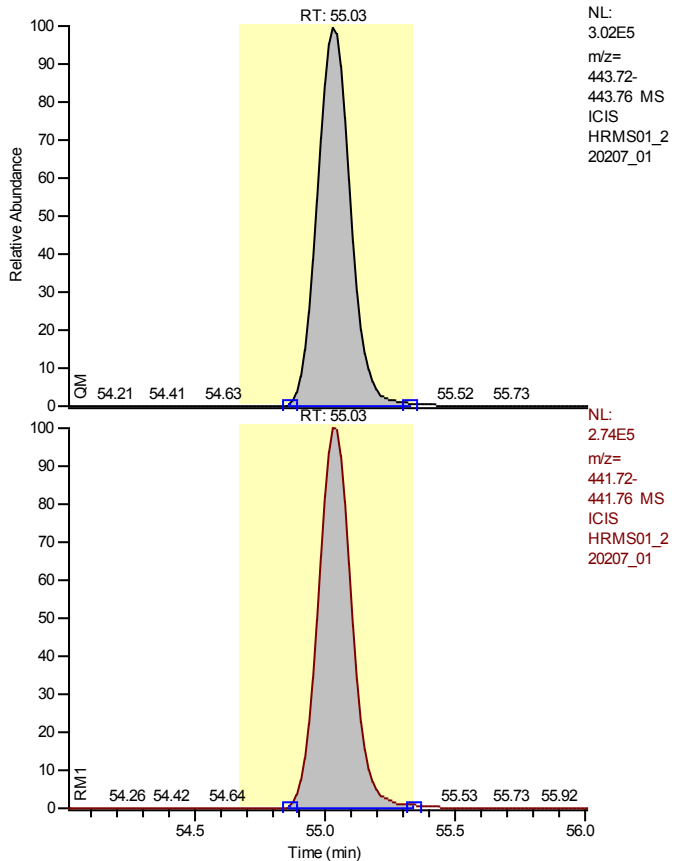
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.01 - 56.01 SM: 7G

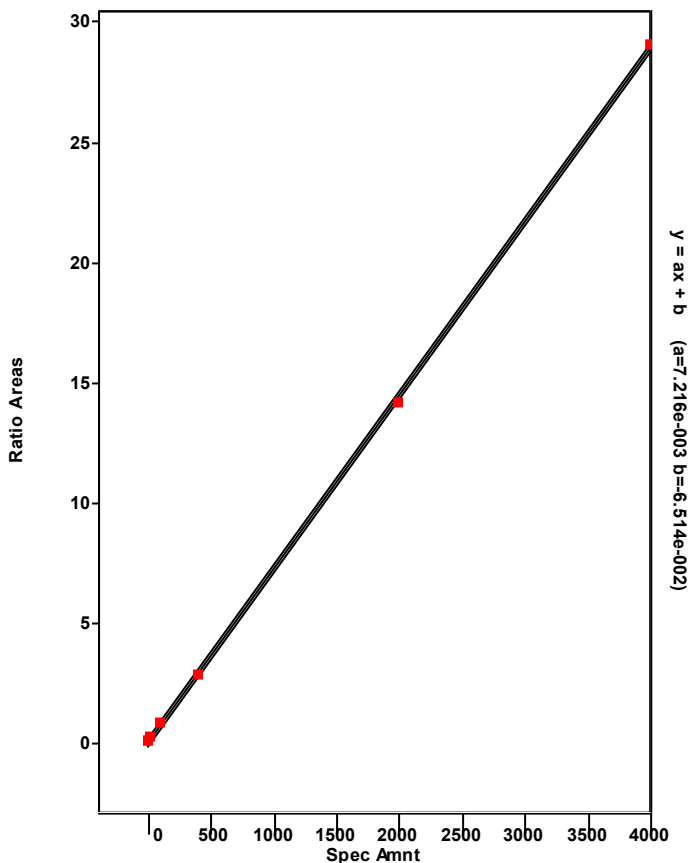


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	2690393
RM1 Area	2458356
RM1 Ratio (A)	0.9138
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	81.59
Percent Recovery (A)	82
TEQ (A)	0.0245
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

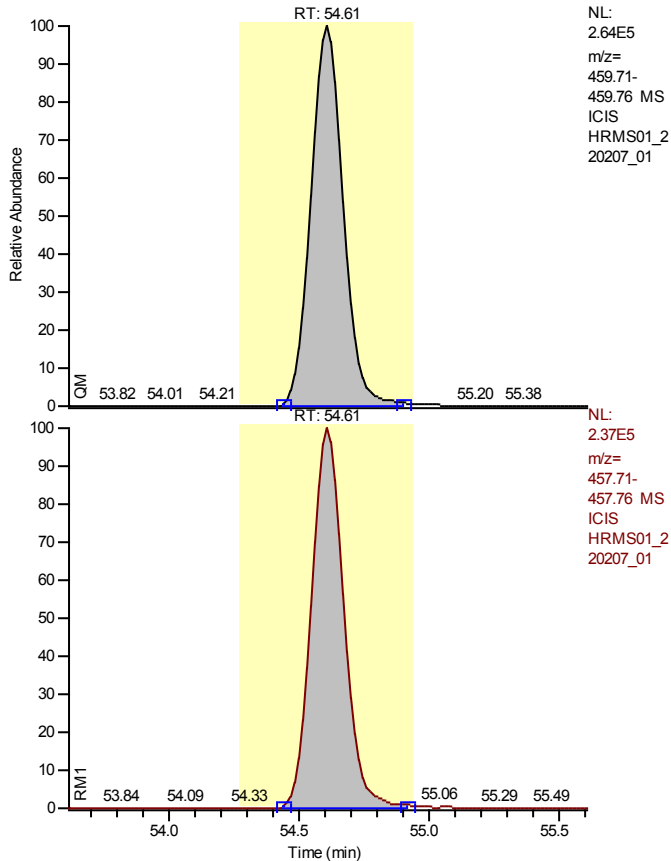
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.61 - 55.61 SM: 7G

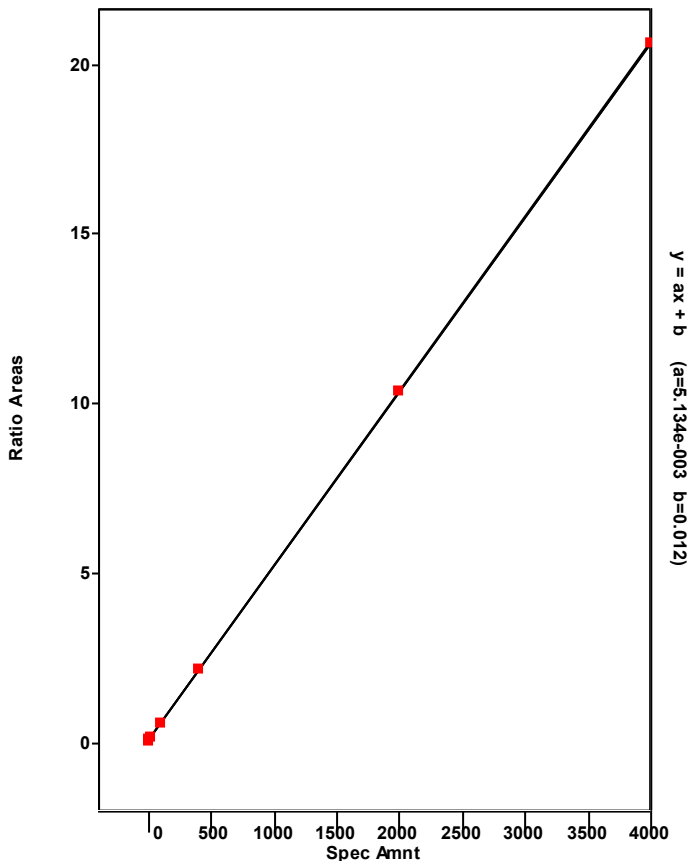


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	2283963
RM1 Area	2057396
RM1 Ratio (A)	0.9008
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	91.38
Percent Recovery (A)	91
TEQ (A)	0.0274
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

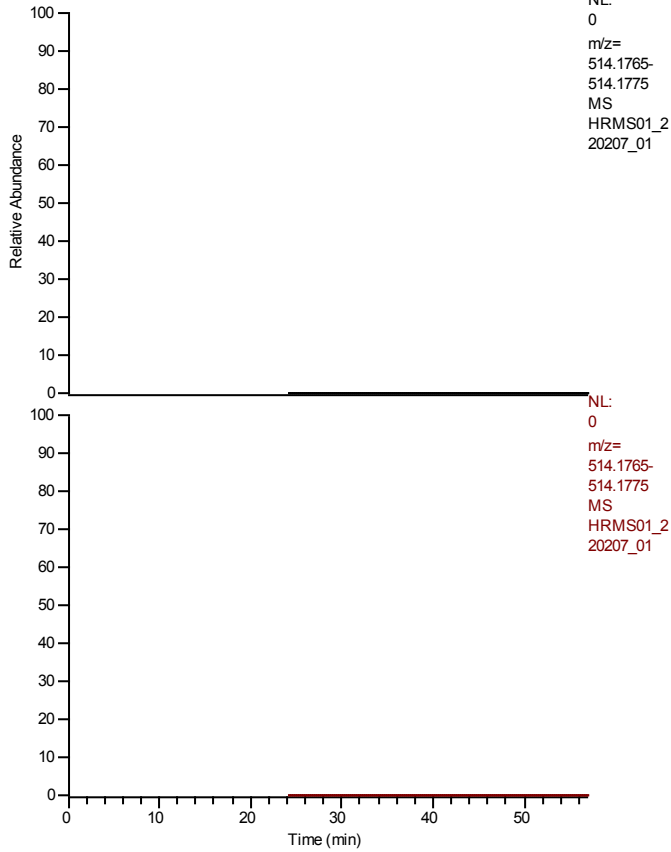
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.00 SM: 5G

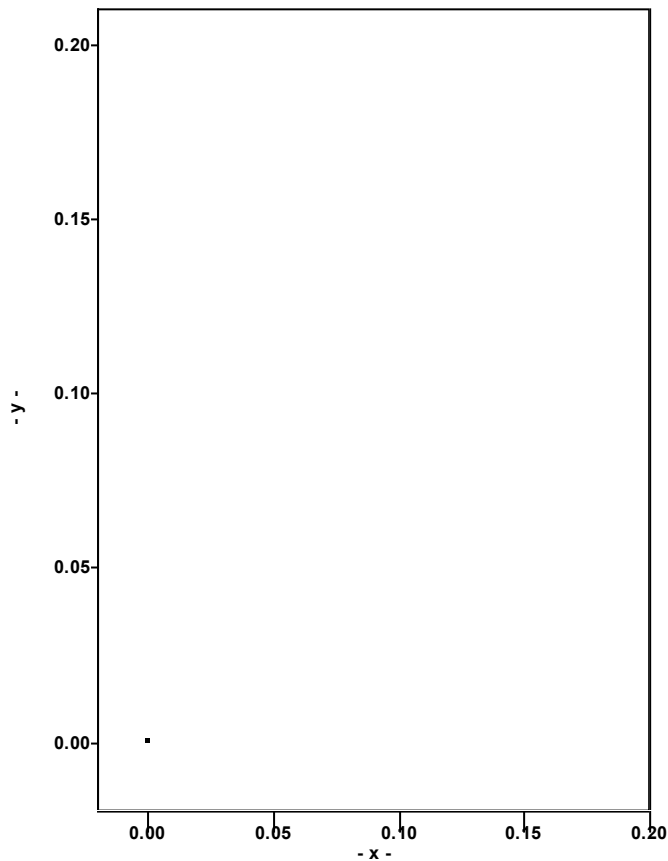


Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	20381433
RM1 Area	23455647
RM1 Ratio (A)	1.1508
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	798.25
Percent Recovery (A)	---
TEQ (A)	106.7754
Label2	

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20207_01

Entry: overall TEQ

Calibration Points of overall TEQ



Sample Raw Data

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 01:27
Number of Entries	46
Comment	
Vial	119
Sample Name	L2202953-01
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_15_seq
Data	hrms01_220207_15
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

HRMS01_220207_15_seq aquired 2022/02/08 01:27

SampleName: L2202953-01 Id: HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613 Comment:
 Study: Client:

Entry Parameters

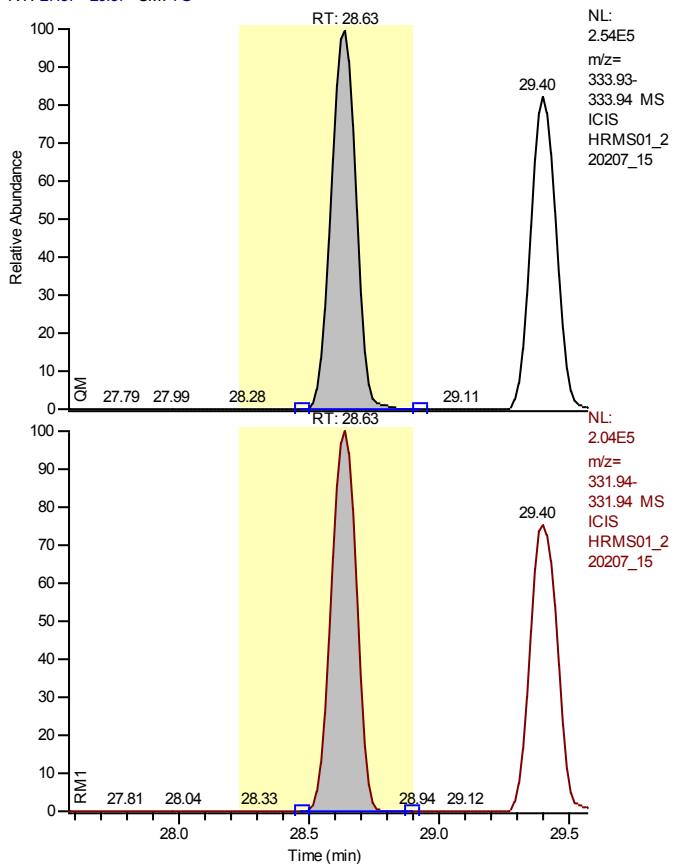
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1683709	1380872	0.8201	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2130467	1558972	0.7318	0.6500 - 0.8900	100.00	71.22	71	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
5	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1421727	1117650	0.7861	0.6500 - 0.8900	100.00	69.78	70	0.0000
6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
7	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
8	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1288485	2051487	1.5922	1.3200 - 1.7800	100.00	78.89	79	0.0000
9	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
10	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
11	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1335636	2133716	1.5975	1.3200 - 1.7800	100.00	82.19	82	0.0000
12	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
13	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		894190	1441647	1.6122	1.3200 - 1.7800	100.00	81.56	82	0.0000
14	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
15	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
16	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		340173	340173	1.0000	0.8500 - 1.1500	10.00	9.21	92	0.0000
17	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1405499	1722015	1.2252	1.0500 - 1.4300	100.00	100.00	100	0.0000
18	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2085799	1070213	0.5131	0.4300 - 0.5900	100.00	87.72	88	0.0000
19	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
20	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
21	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		2316796	1195717	0.5161	0.4300 - 0.5900	100.00	88.33	88	0.0000
22	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
23	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2063760	1114714	0.5401	0.4300 - 0.5900	100.00	82.70	83	0.0000
24	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
25	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1962919	1044328	0.5320	0.4300 - 0.5900	100.00	81.61	82	0.0000
26	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
27	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1073967	1229632	1.1449	1.0500 - 1.4300	100.00	83.54	84	0.0000
28	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
29	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
30	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		955259	1346804	1.4099	1.0500 - 1.4300	100.00	83.49	83	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
32	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
33	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1743476	857267	0.4917	0.3700 - 0.5100	100.00	73.64	74	0.0000
34	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	4479	8969	2.0023	0.8800 - 1.2000	0.00	n.d. < 0.38	---	n.d.
35	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
36	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1419929	673445	0.4743	0.3700 - 0.5100	100.00	63.96	64	0.0000
37	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
38	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1054533	1174394	1.1137	0.8800 - 1.2000	100.00	79.60	80	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	12915	12404	0.9604	0.8800 - 1.2000	0.00	1.02	---	0.0000
40	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	31727	28981	0.9134	0.8800 - 1.2000	0.00	2.46	---	0.0000
41	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	18812	16577	0.8812	0.8800 - 1.2000	0.00	1.43	---	0.0000
42	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	12915	12404	0.9604	0.8800 - 1.2000	0.00	1.02	---	0.0000
43	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1813187	1719220	0.9482	0.7600 - 1.0200	200.00	142.11	71	0.0000
44	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
45	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	81684	73806	0.9035	0.7600 - 1.0200	0.00	8.31	---	0.0025
46	overall TEQ	overall TEQ test		94600	86209	0.9113	0.0000 - 0.0000	0.00	9.33	---	0.0025

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

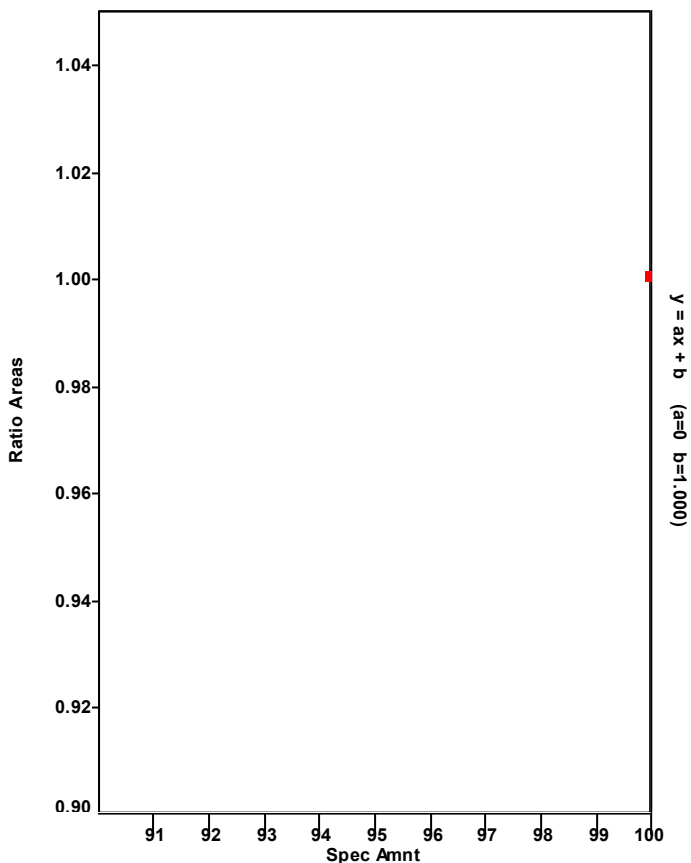


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1683709
RM1 Area	1380872
RM1 Ratio (A)	0.8201
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

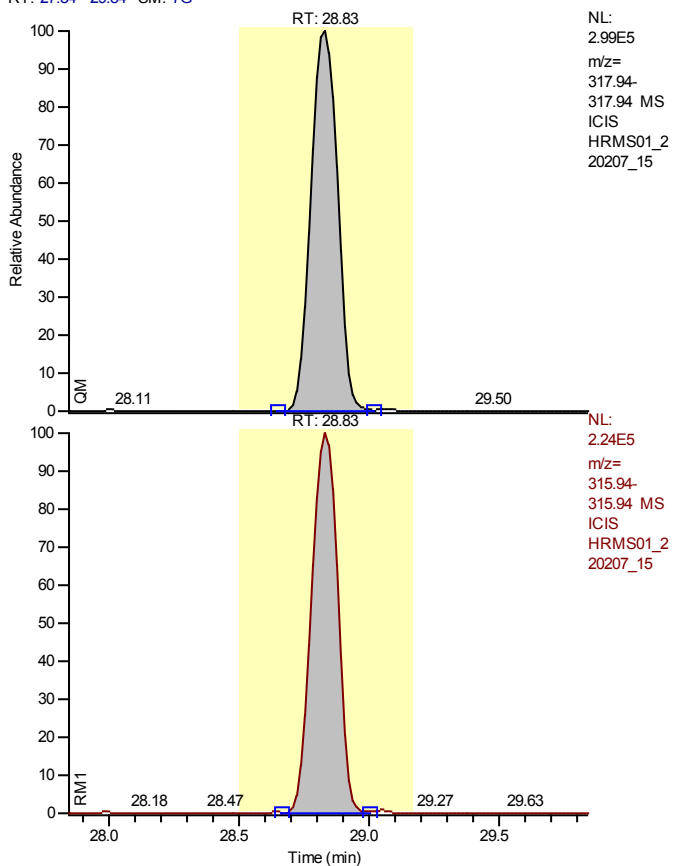
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



NL:
 2.99E5
 m/z=
 317.94
 MS
 ICIS
 HRMS01_2
 20207_15

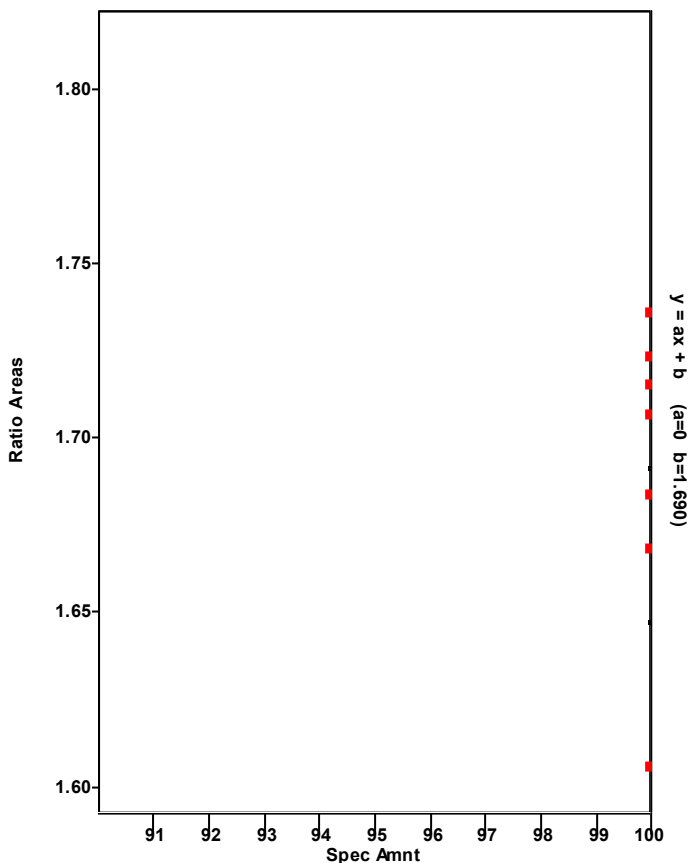
NL:
 2.24E5
 m/z=
 315.94
 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2130467
RM1 Area	1558972
RM1 Ratio (A)	0.7318
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	71.22
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

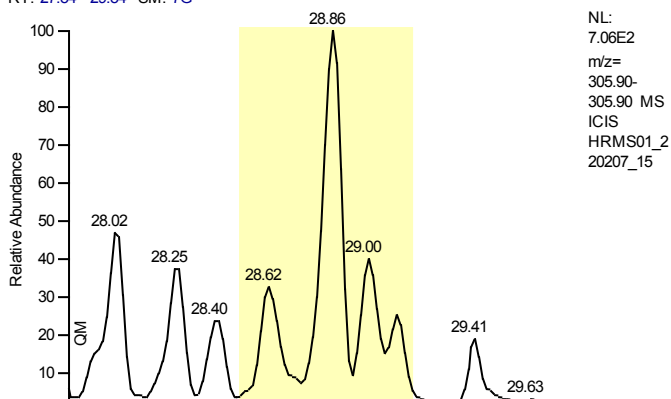
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



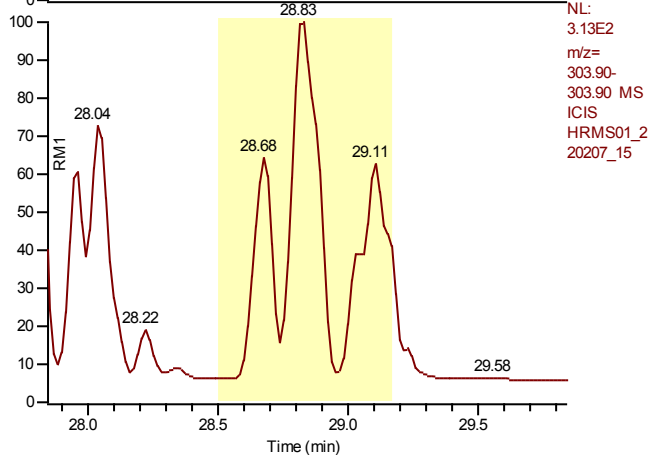
Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



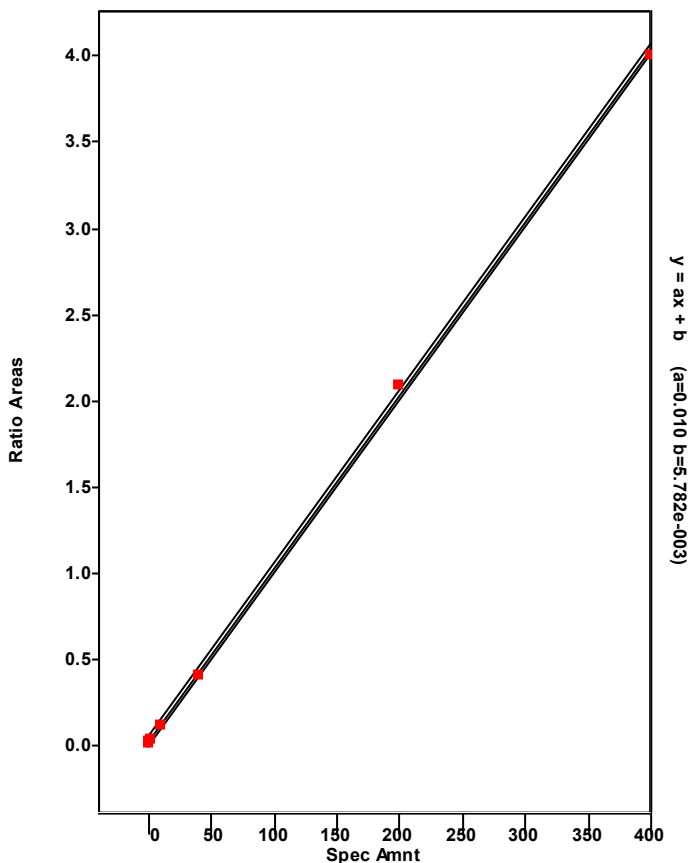
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

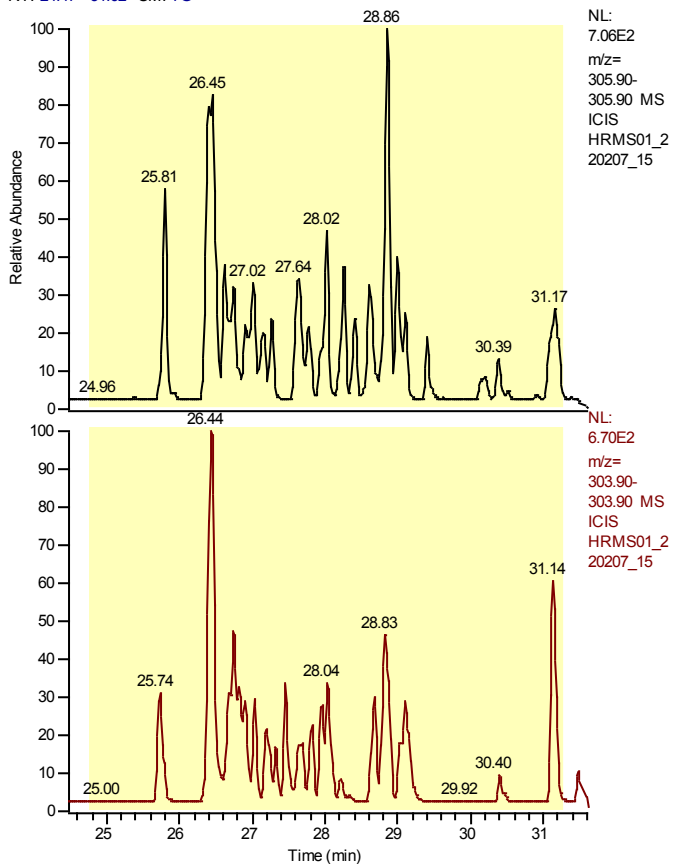
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.47 - 31.62 SM: 7G

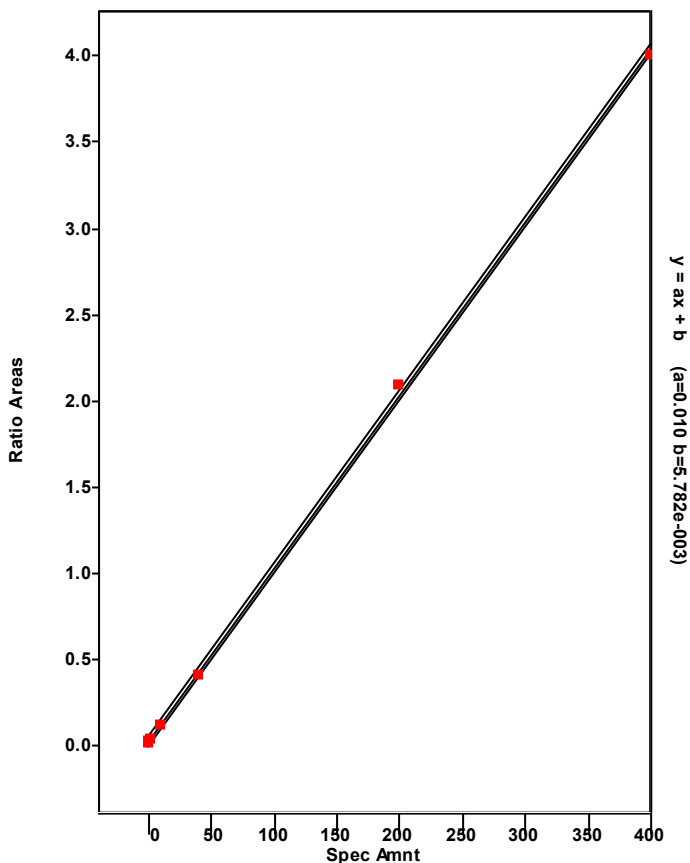


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

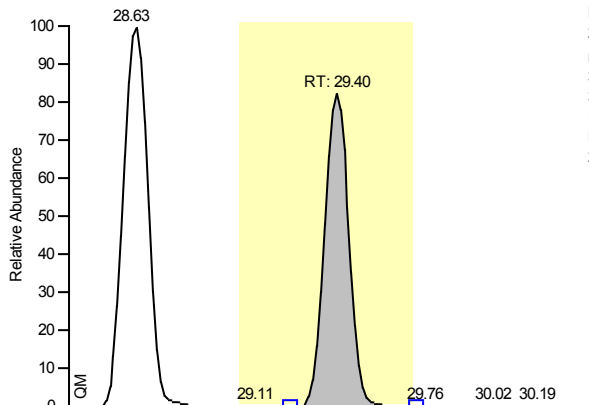
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

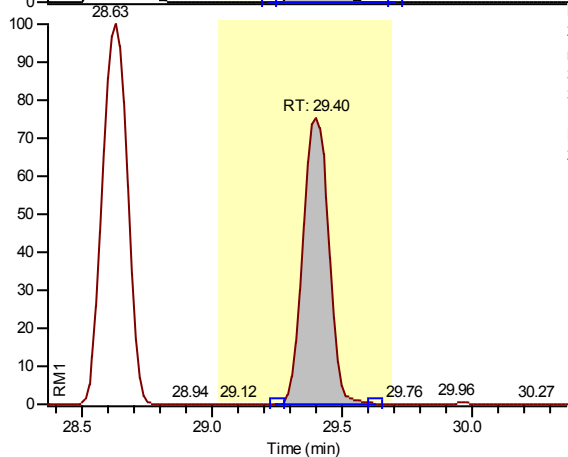
Entry Parameters

RT: 28.37 - 30.37 SM: 7G



NL:
 2.54E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1421727
RM1 Area	1117650
RM1 Ratio (A)	0.7861
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	69.78
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	

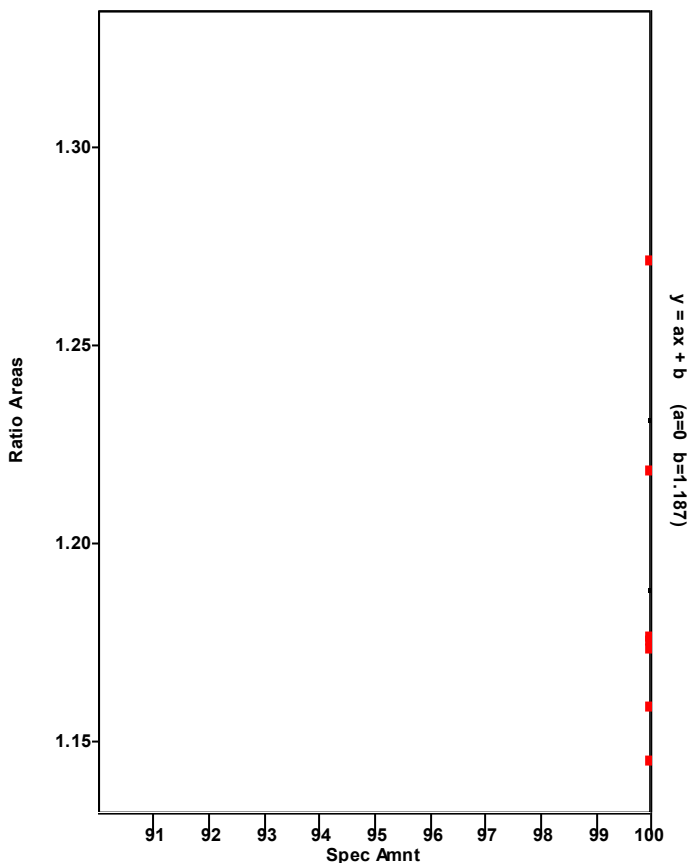


NL:
 2.04E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

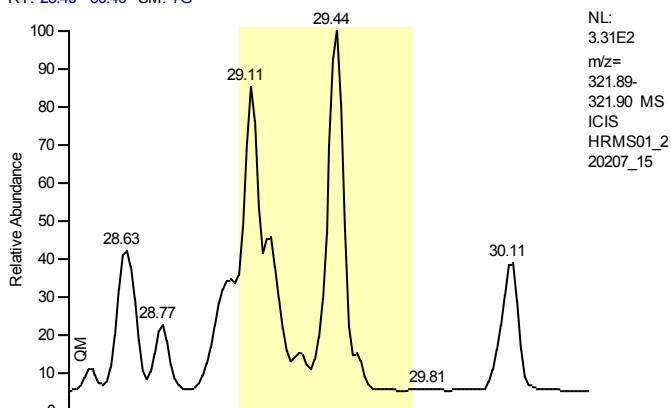
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



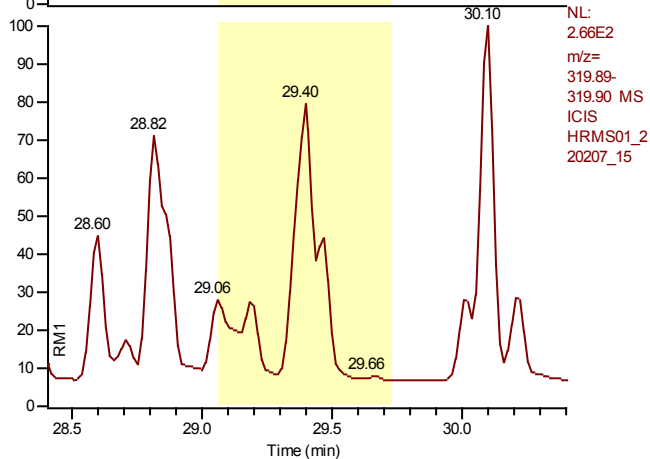
Chromatogram

Entry Parameters

RT: 28.40 - 30.40 SM: 7G



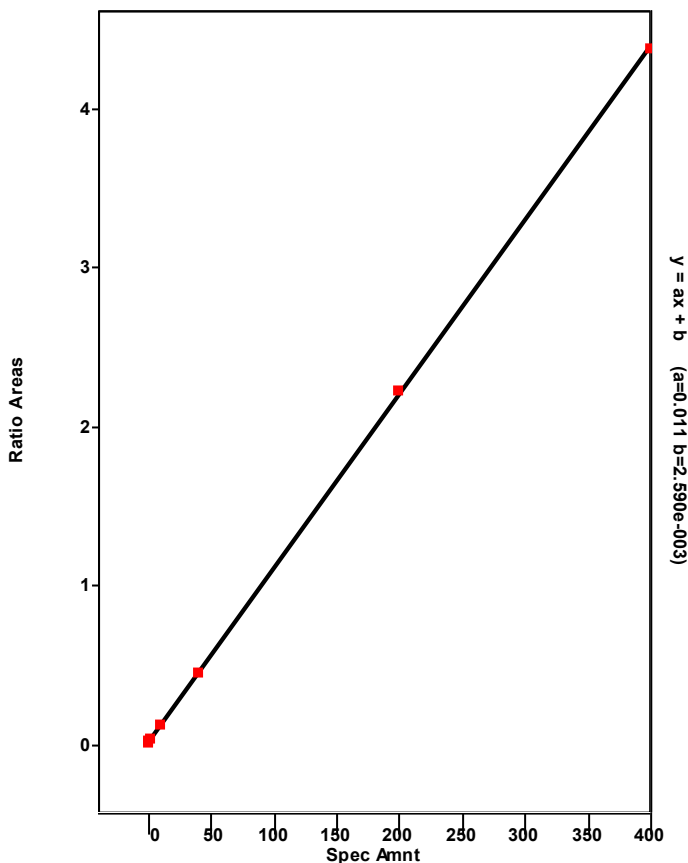
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

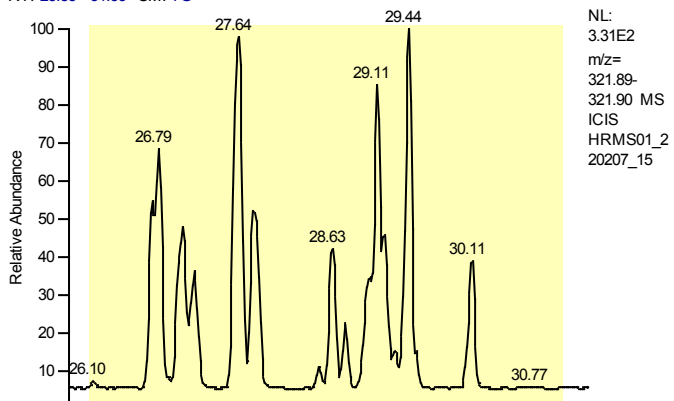
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



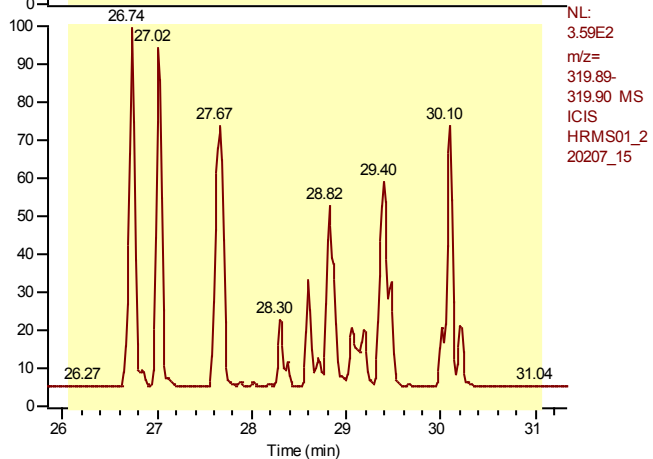
Chromatogram

Entry Parameters

RT: 25.83 - 31.33 SM: 7G



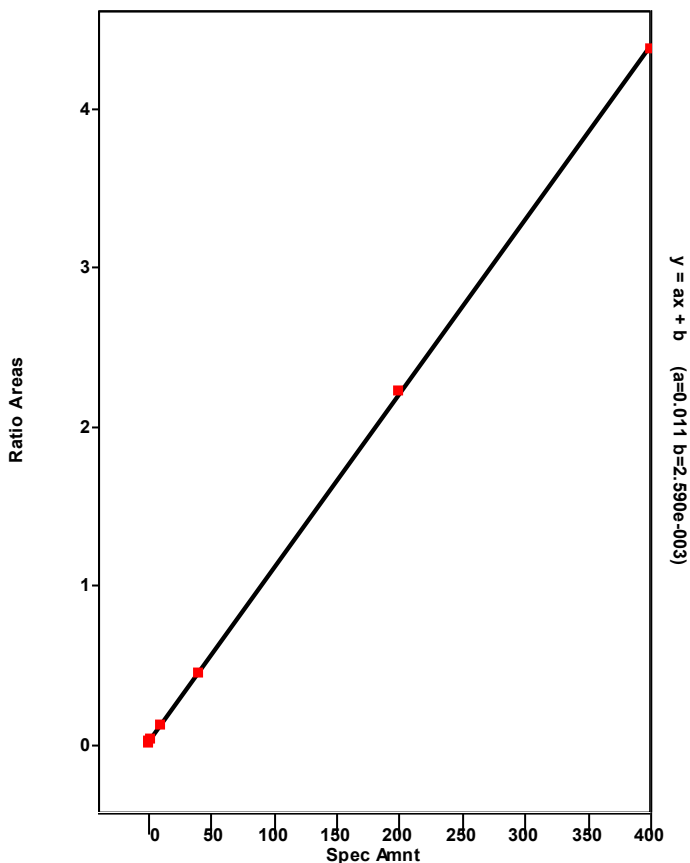
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

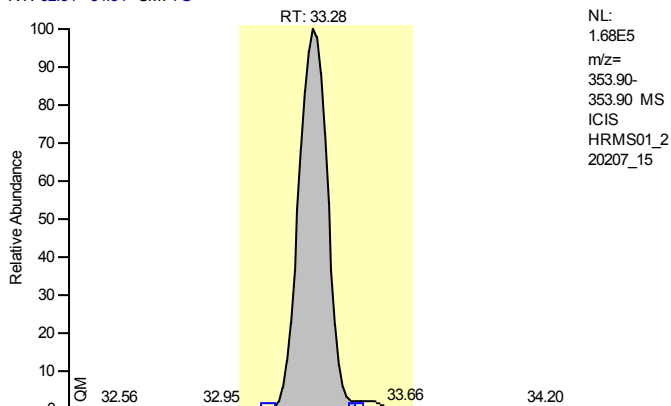
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



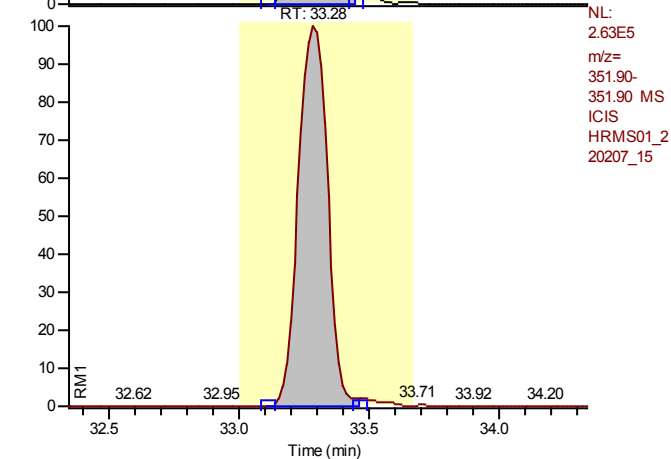
Chromatogram

Entry Parameters

RT: 32.34 - 34.34 SM: 7G



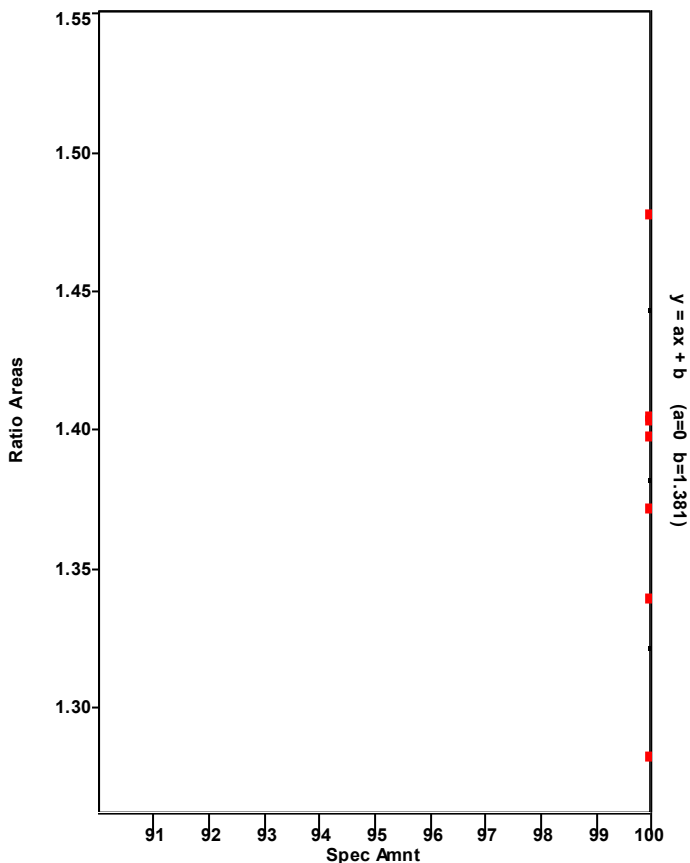
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1288485
RM1 Area	2051487
RM1 Ratio (A)	1.5922
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	78.89
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

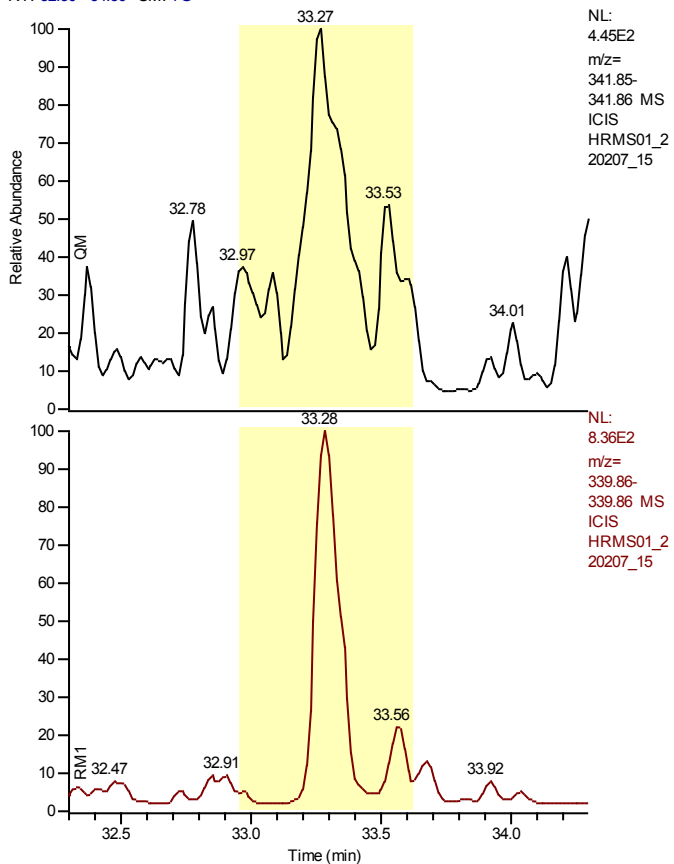
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



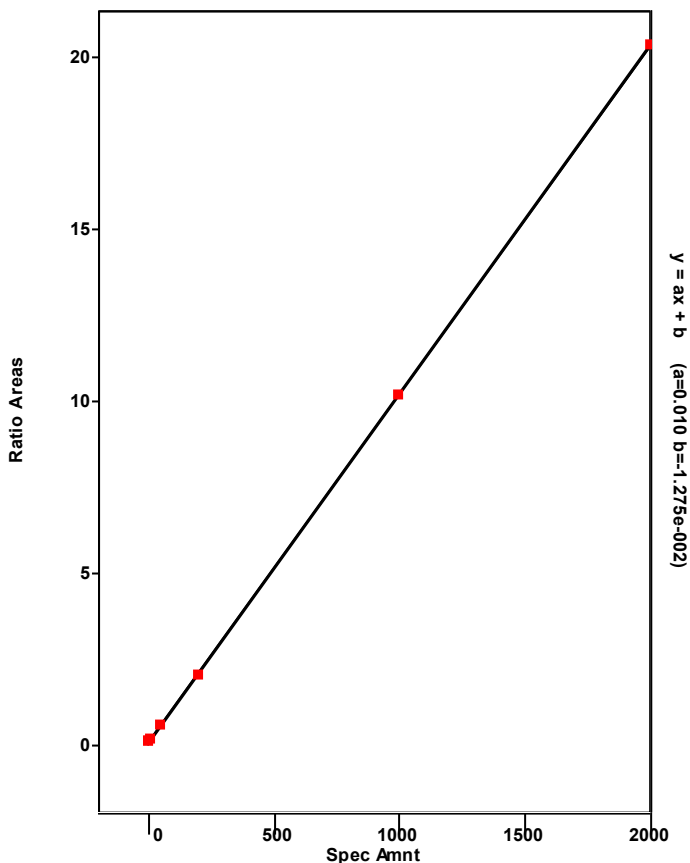
NL:
4.45E2
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20207_15

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

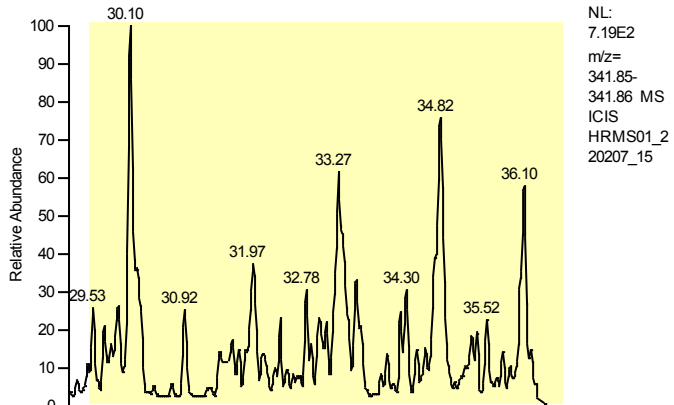
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



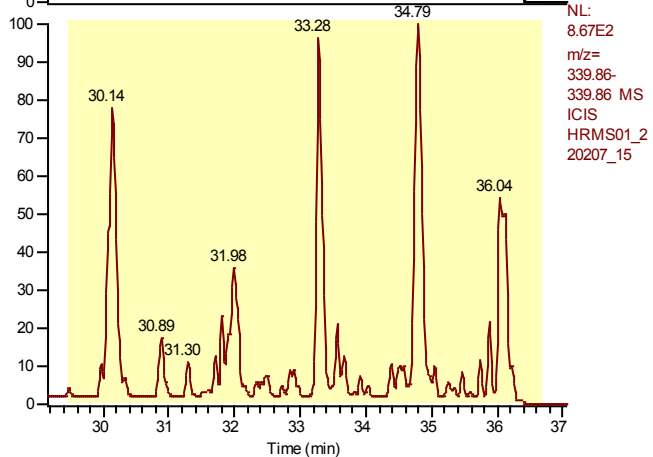
Chromatogram

Entry Parameters

RT: 29.14 - 37.06 SM: 7G



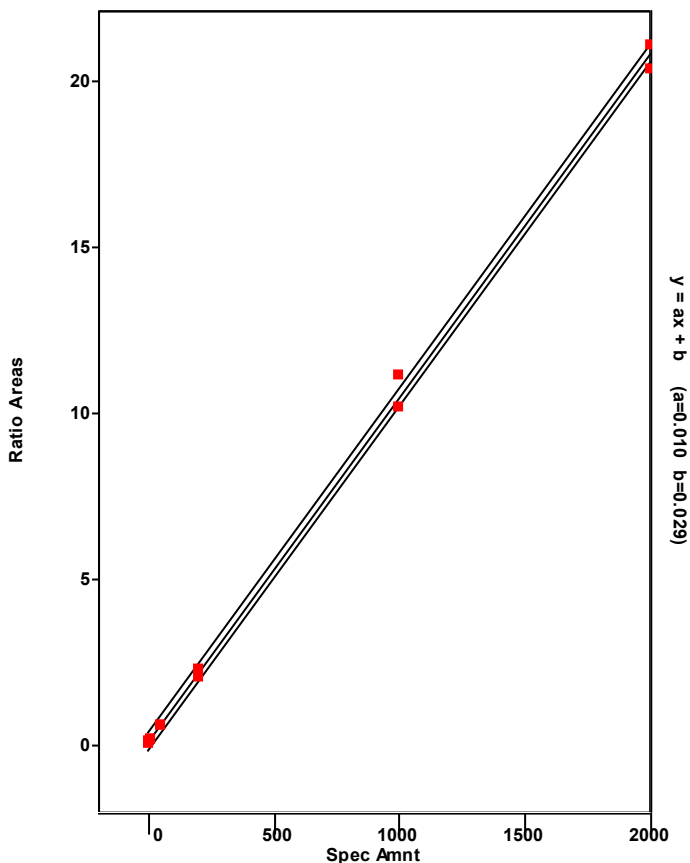
Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

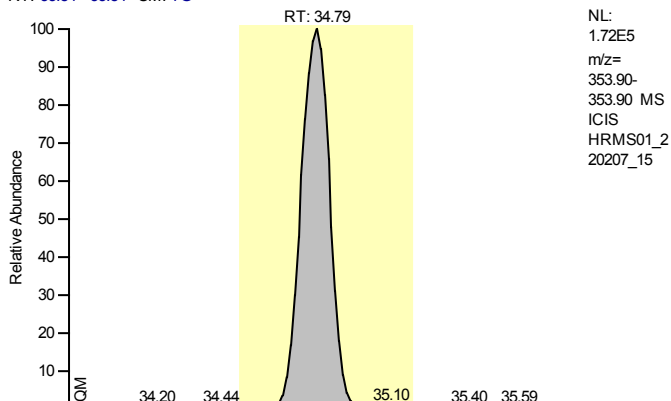
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



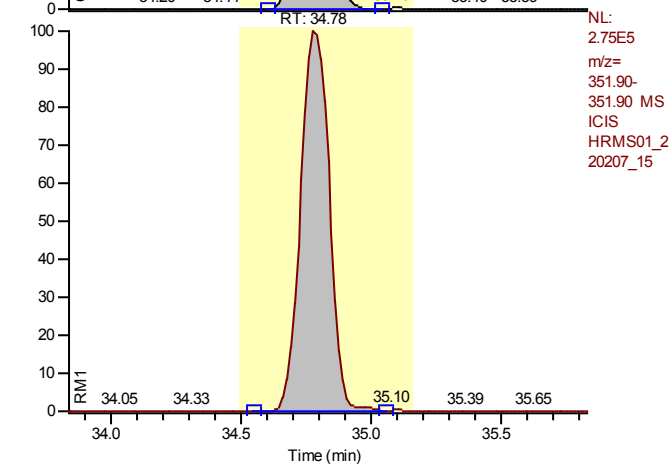
Chromatogram

Entry Parameters

RT: 33.84 - 35.84 SM: 7G



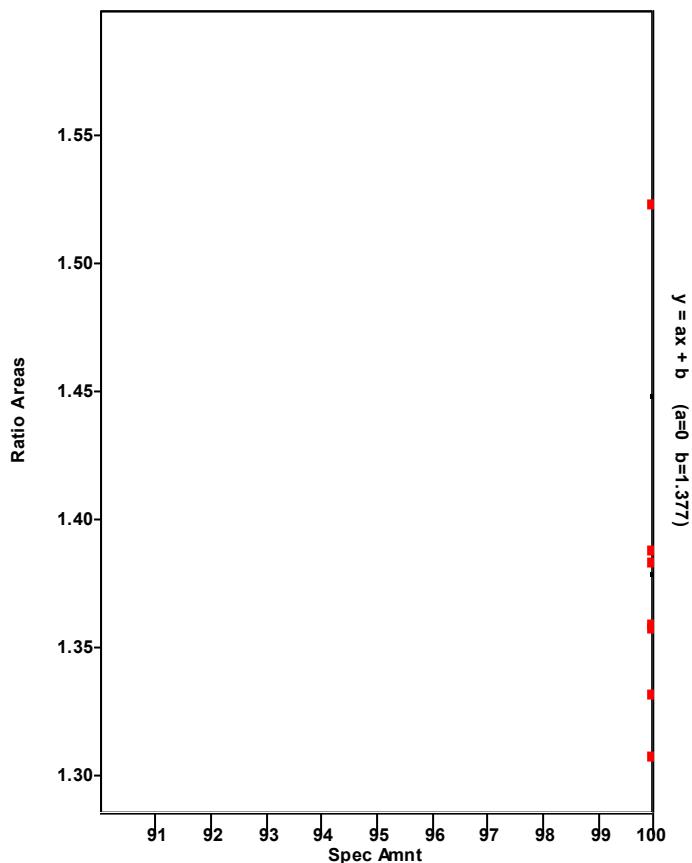
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1335636
RM1 Area	2133716
RM1 Ratio (A)	1.5975
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	82.19
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

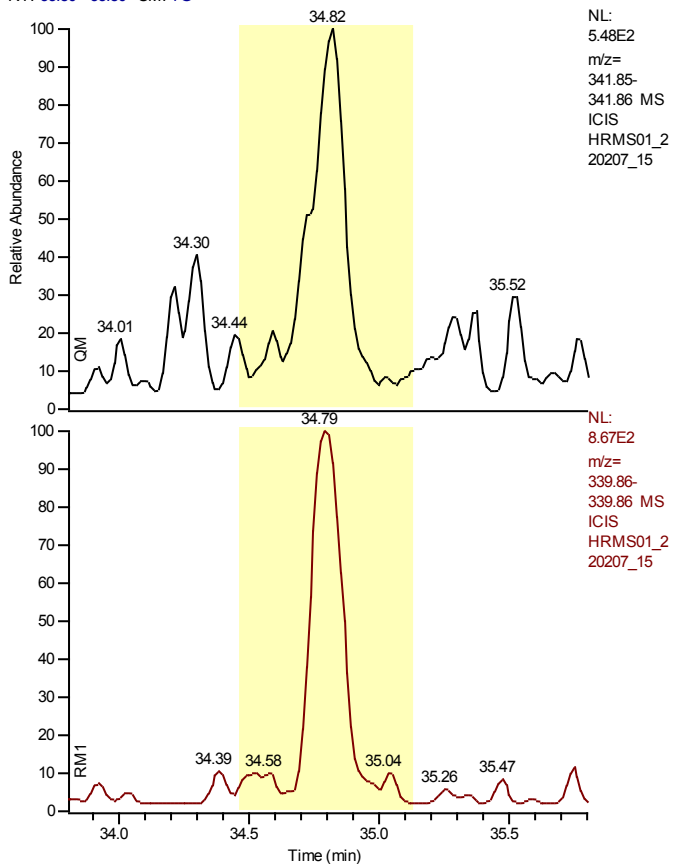
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.80 - 35.80 SM: 7G

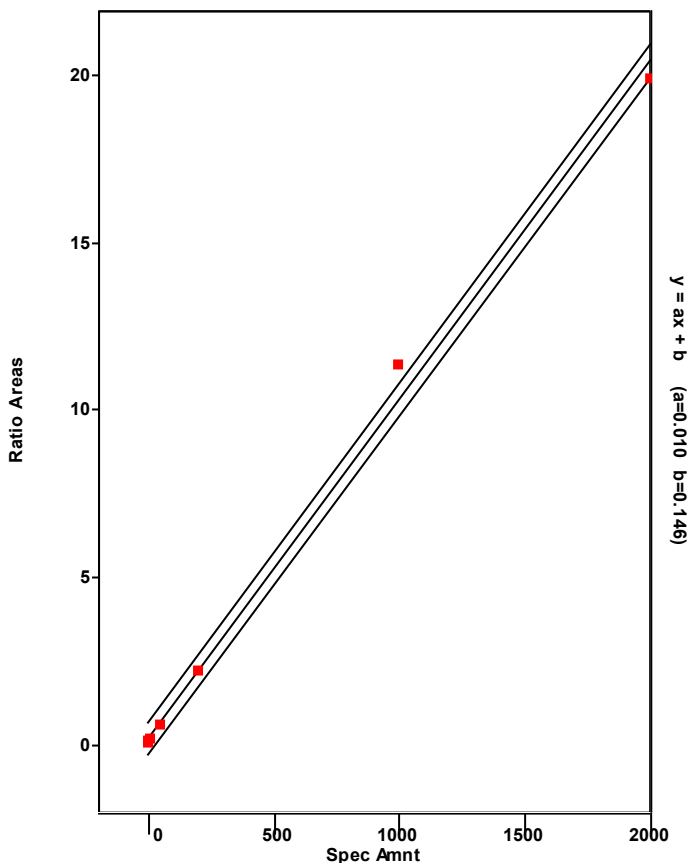


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

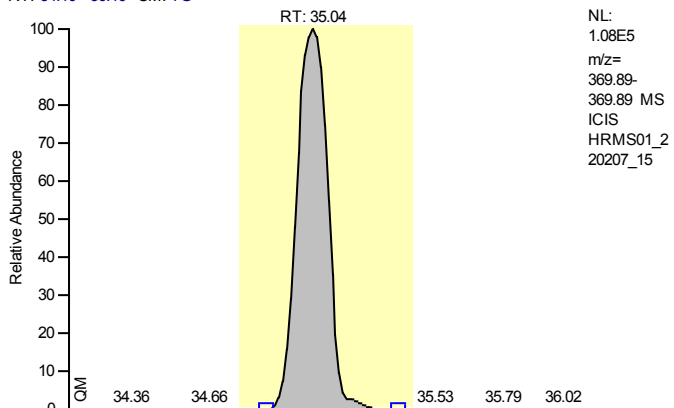
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



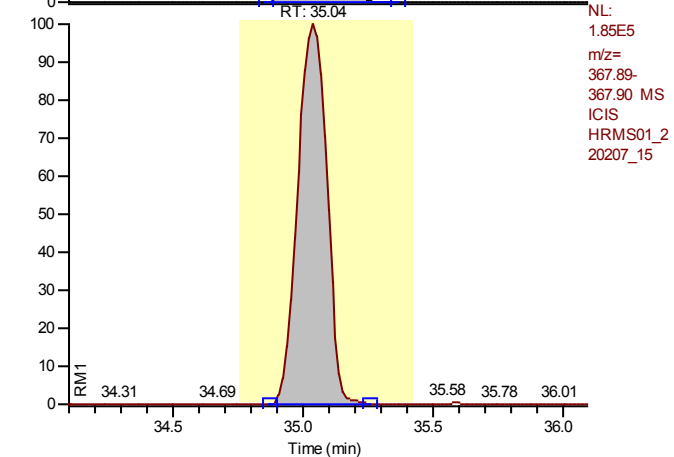
Chromatogram

Entry Parameters

RT: 34.10 - 36.10 SM: 7G



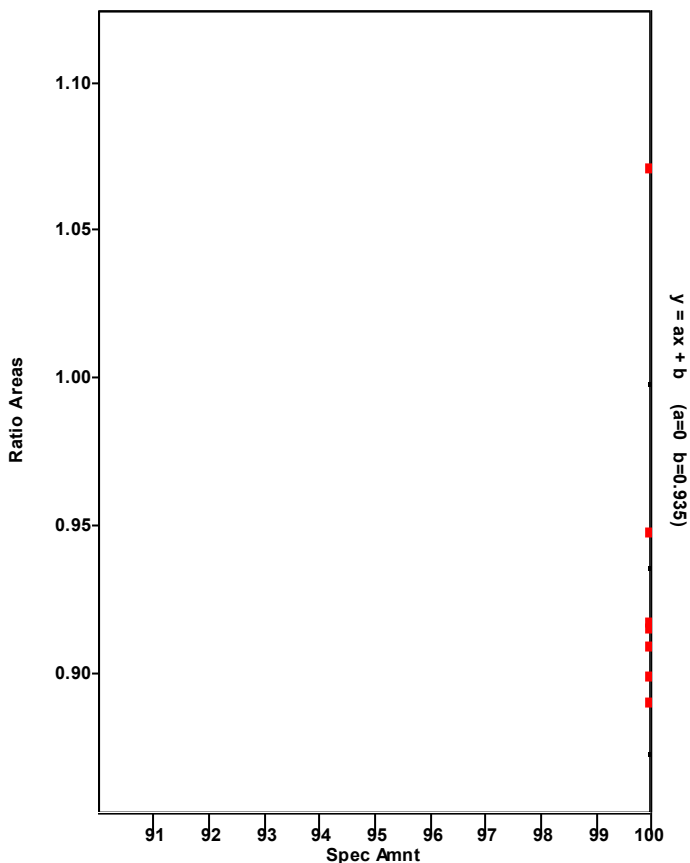
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	894190
RM1 Area	1441647
RM1 Ratio (A)	1.6122
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	81.56
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

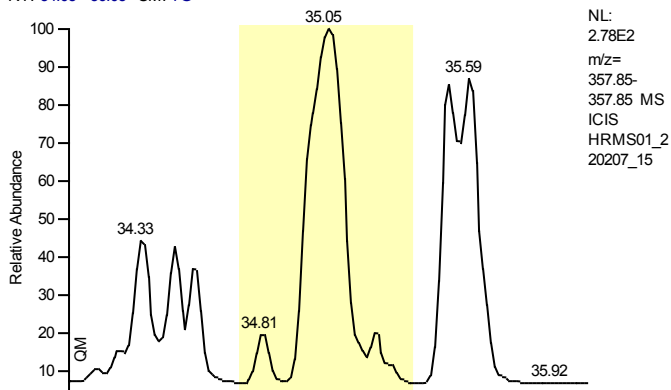
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



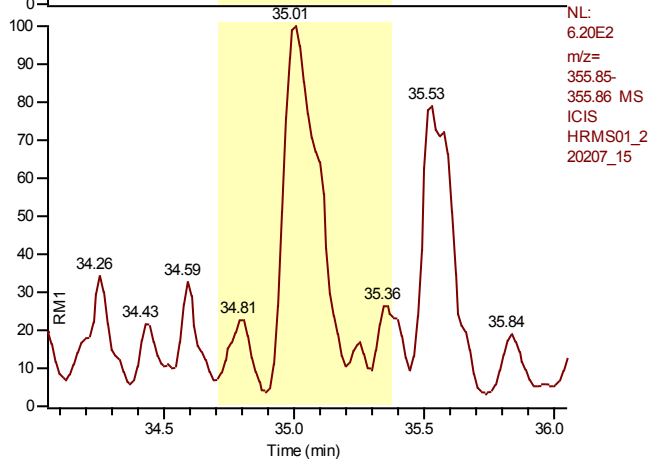
Chromatogram

Entry Parameters

RT: 34.05 - 36.05 SM: 7G



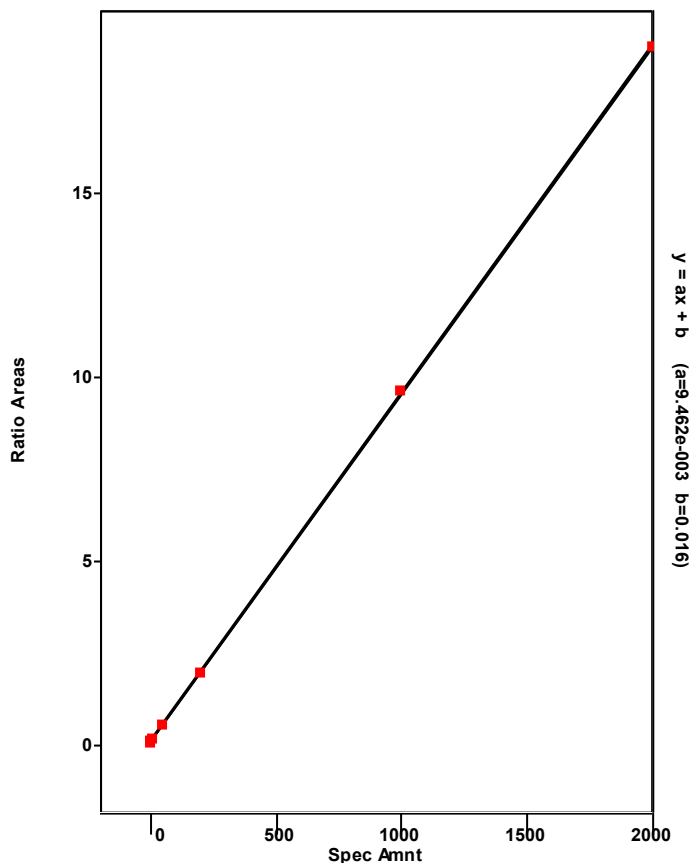
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

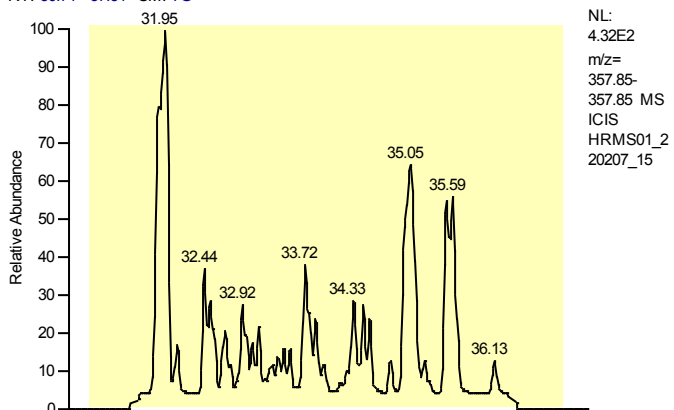
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



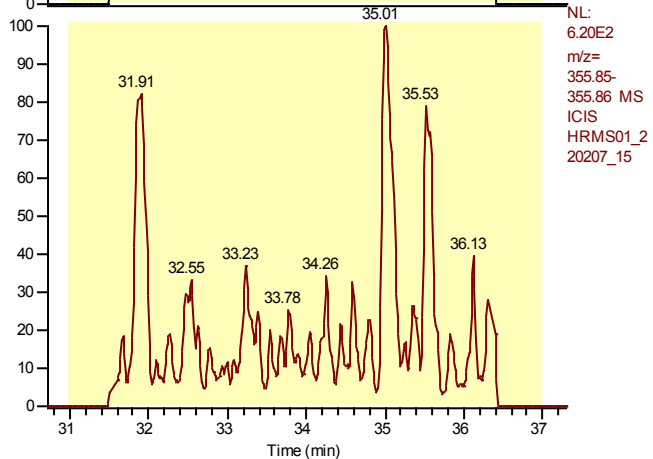
Chromatogram

Entry Parameters

RT: 30.71 - 37.31 SM: 7G



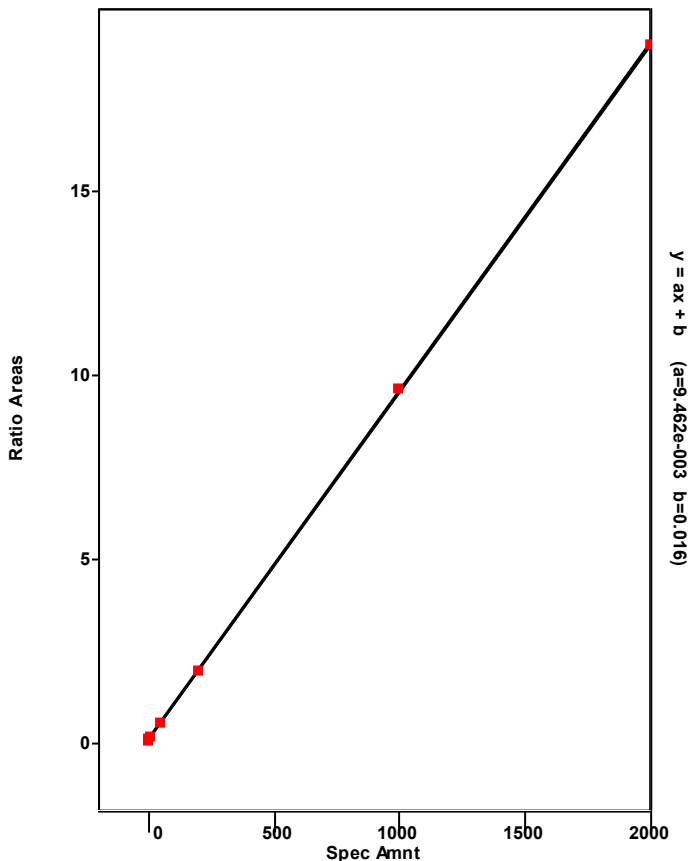
Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

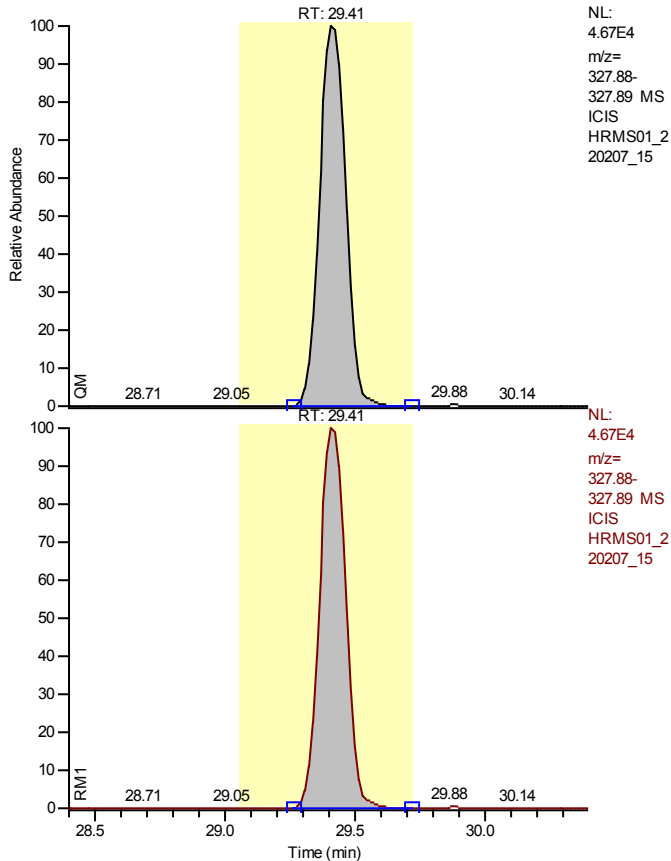
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.40 - 30.40 SM: 7G

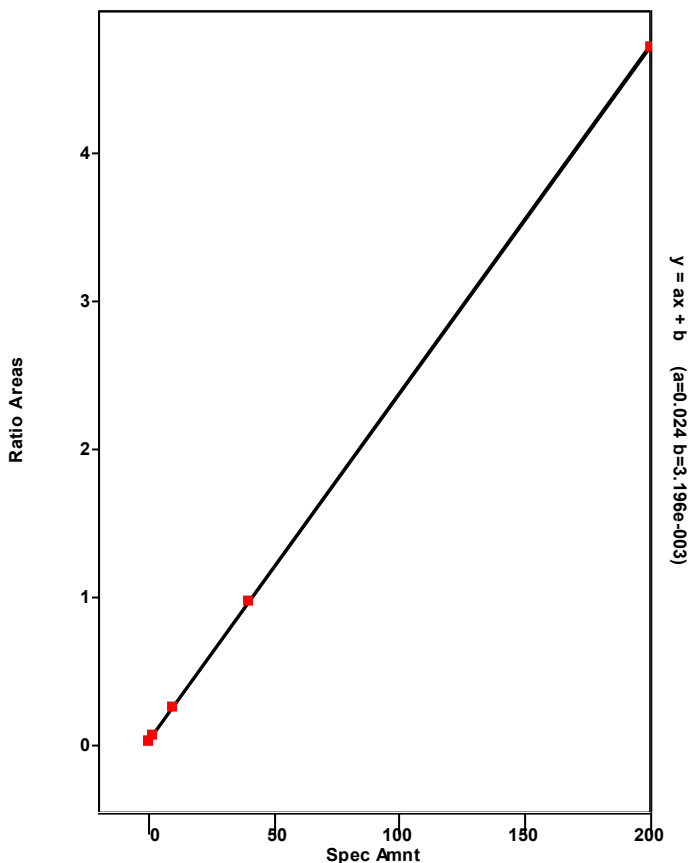


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	340173
RM1 Area	340173
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.21
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

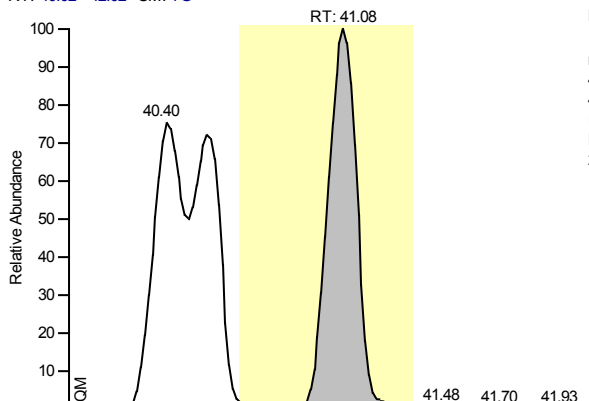
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

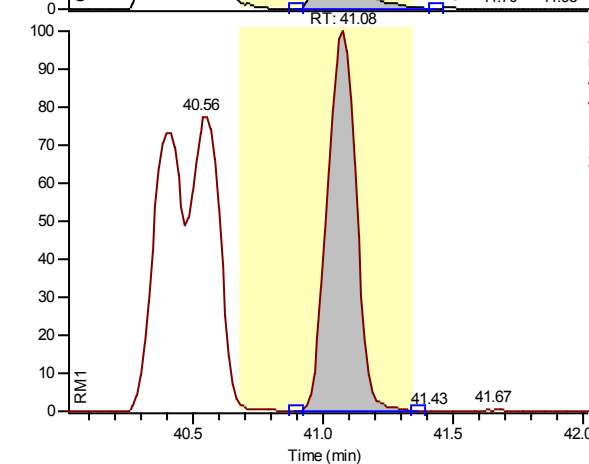
Entry Parameters

RT: 40.02- 42.02 SM: 7G



NL:
 1.80E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1405499
RM1 Area	1722015
RM1 Ratio (A)	1.2252
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

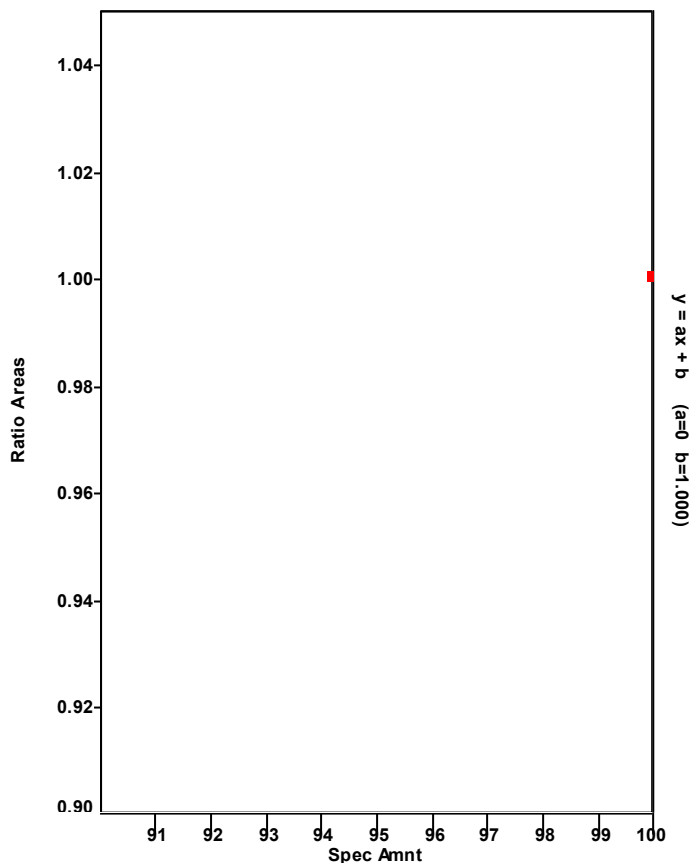


NL:
 2.21E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

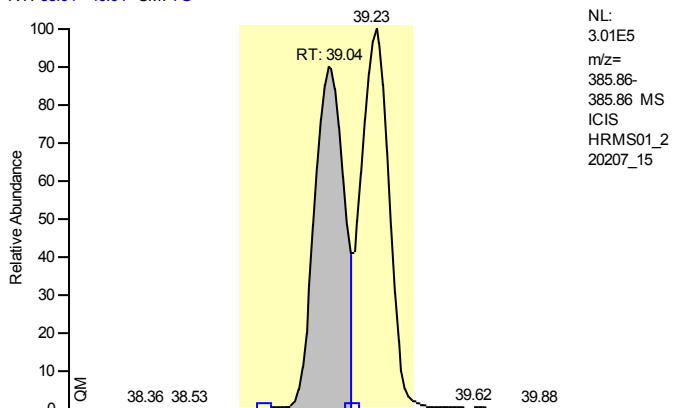
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



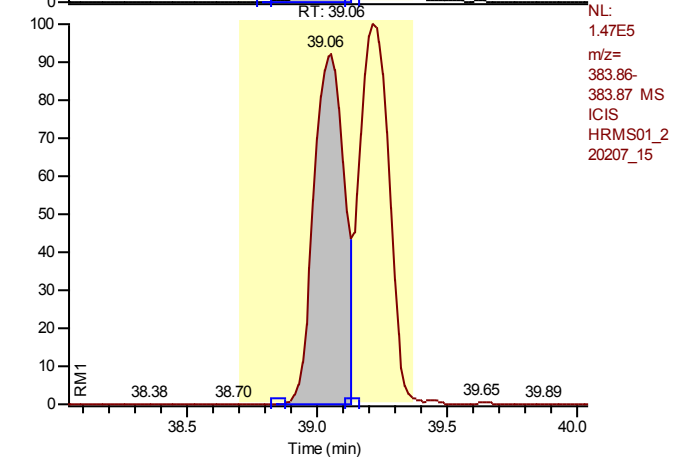
Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



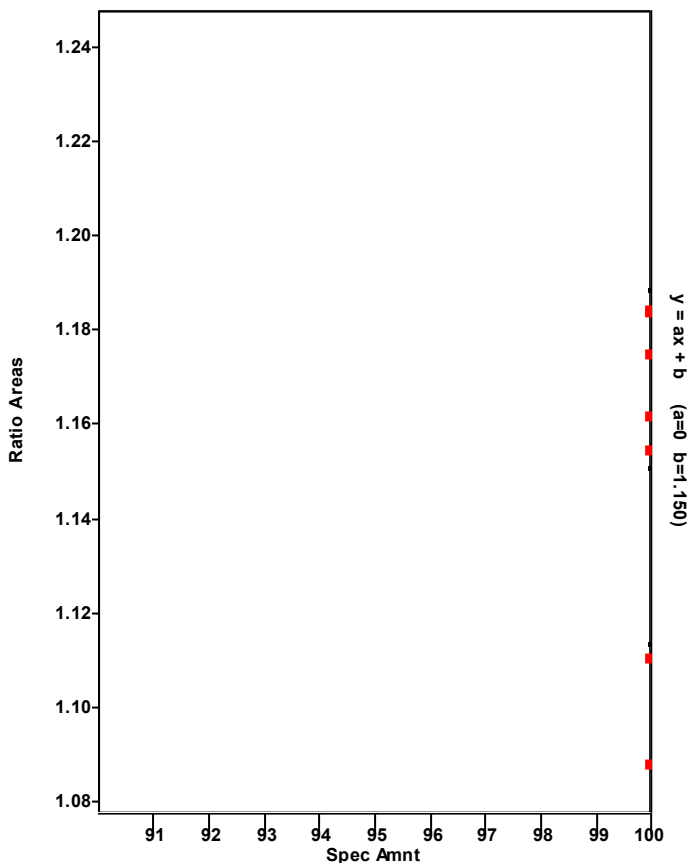
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2085799
RM1 Area	1070213
RM1 Ratio (A)	0.5131
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	87.72
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

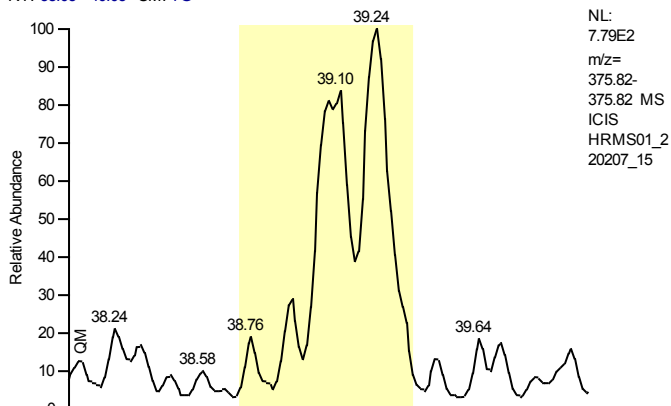
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



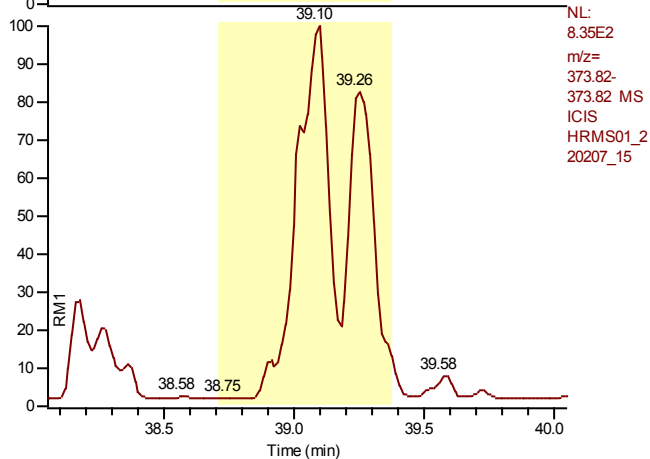
Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G



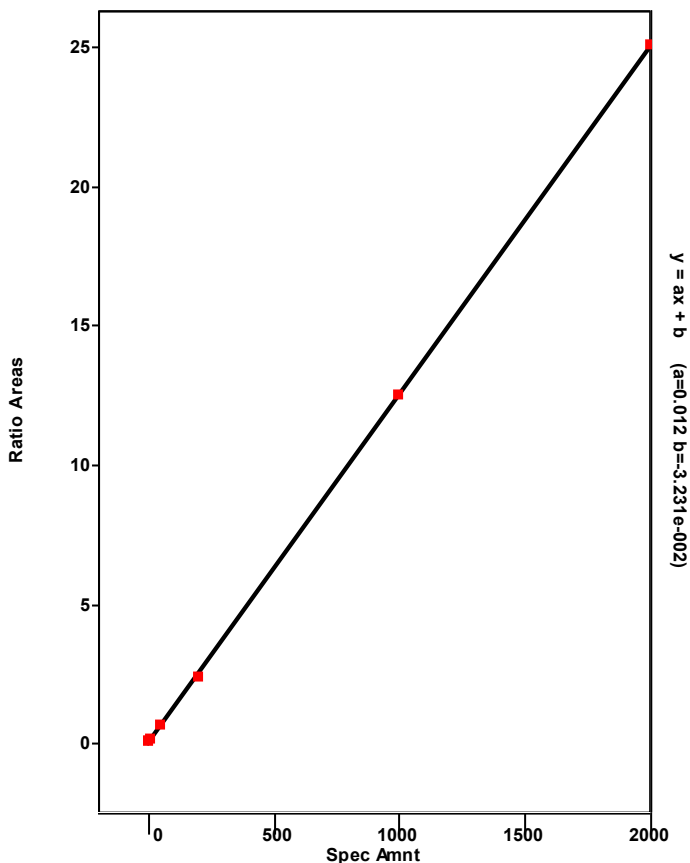
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

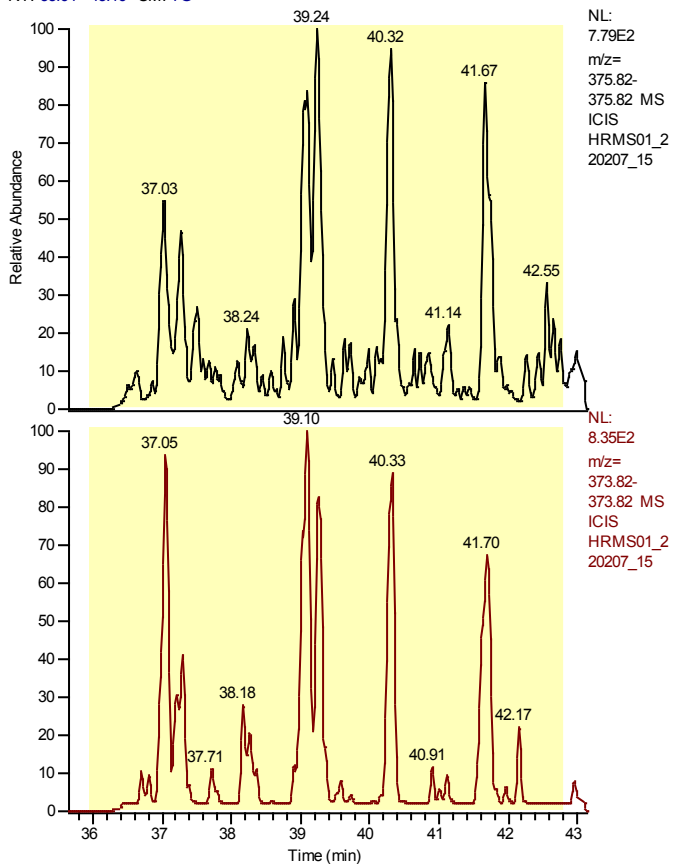
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.64 - 43.16 SM: 7G



NL:
 7.79E2
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_15

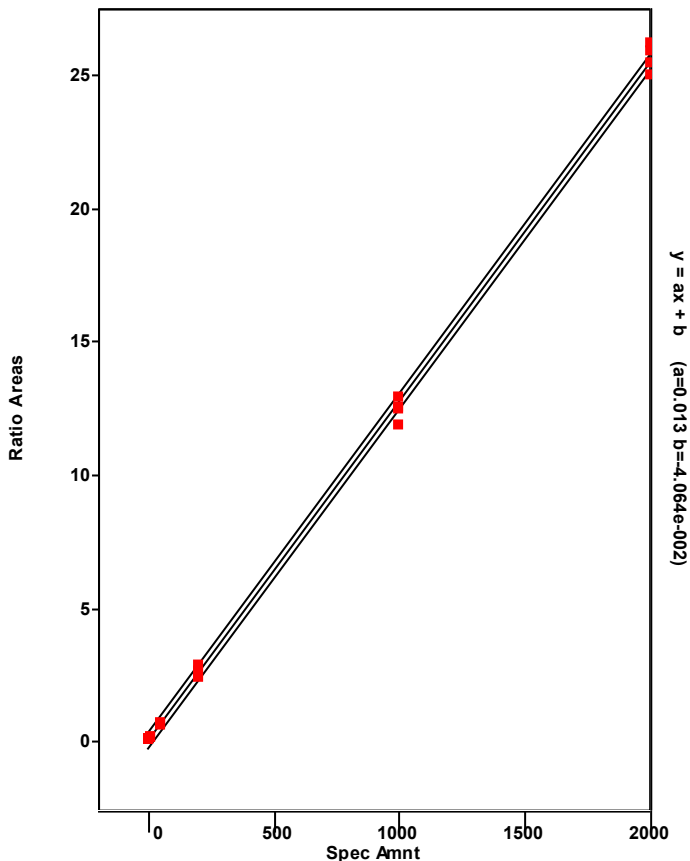
NL:
 8.35E2
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

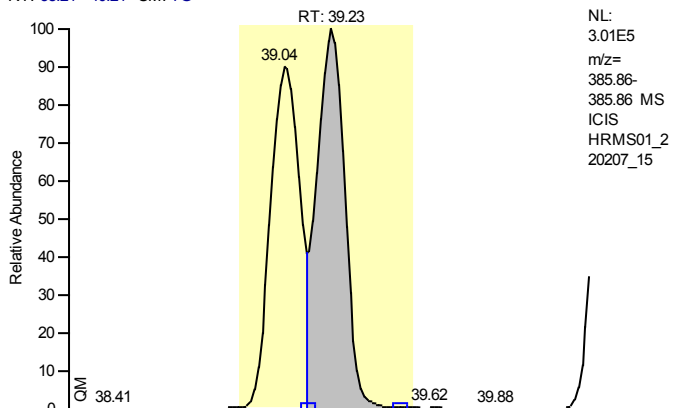
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

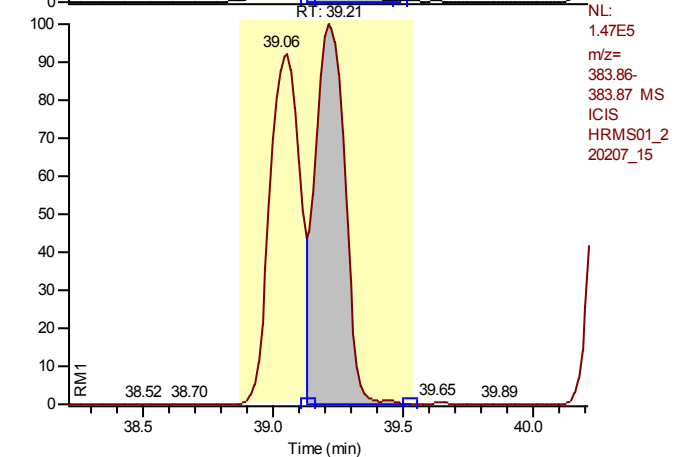
Entry Parameters

RT: 38.21 - 40.21 SM: 7G



NL:
 3.01E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	2316796
RM1 Area	1195717
RM1 Ratio (A)	0.5161
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	88.33
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

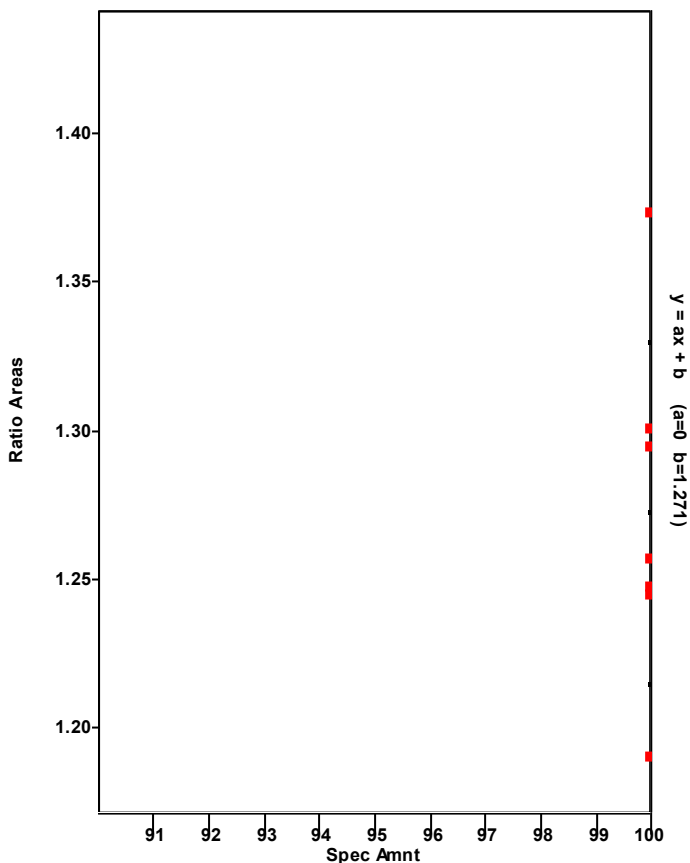


NL:
 1.47E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

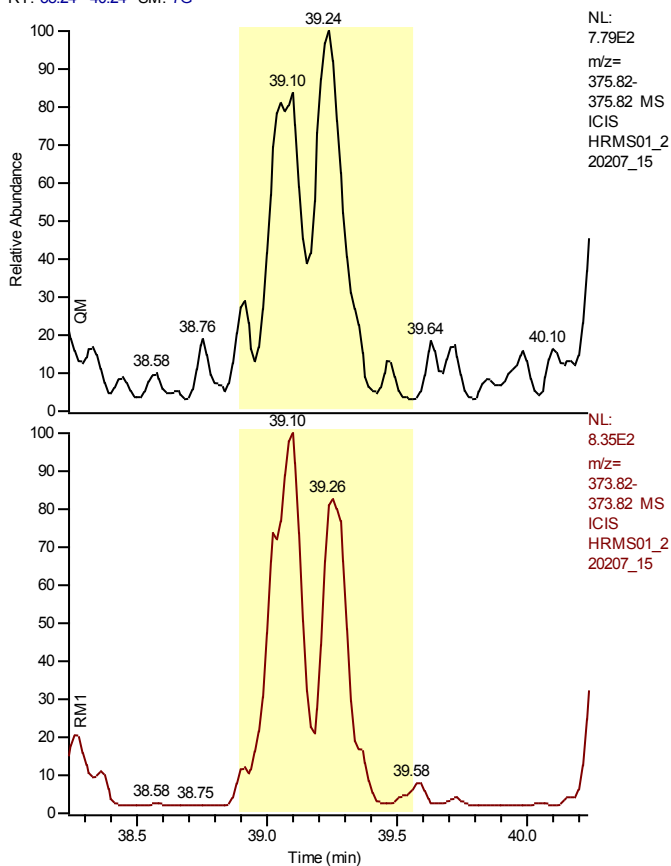
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G

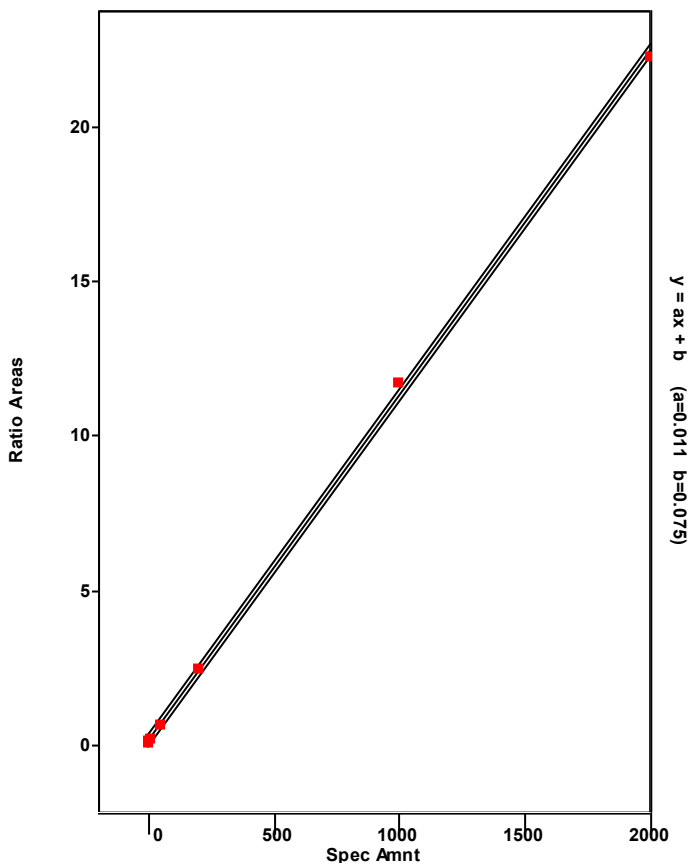


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

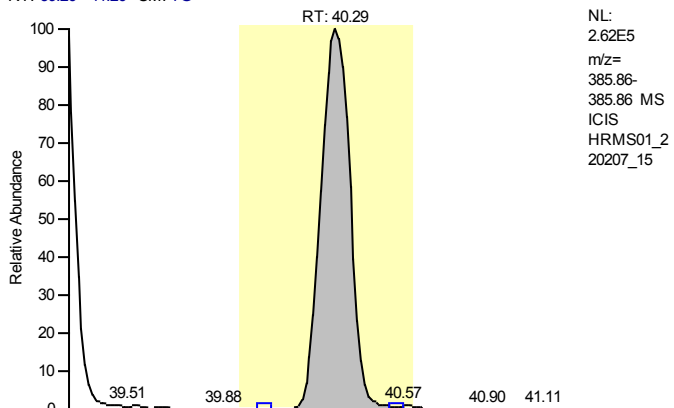
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

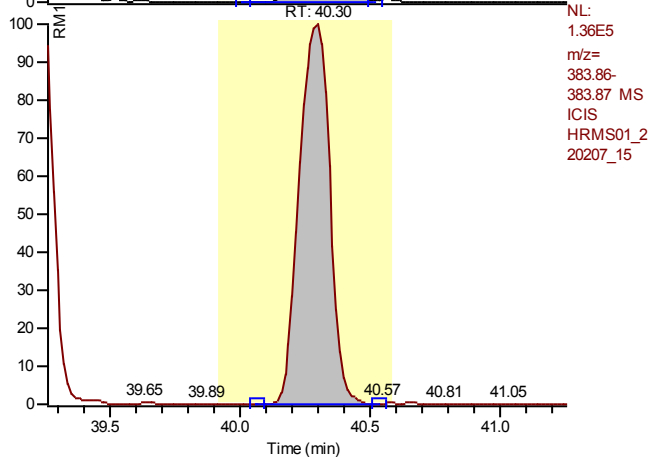
Entry Parameters

RT: 39.26 - 41.26 SM: 7G



NL:
 2.62E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2063760
RM1 Area	1114714
RM1 Ratio (A)	0.5401
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	82.70
Percent Recovery (A)	83
TEQ (A)	0.0000
Label2	

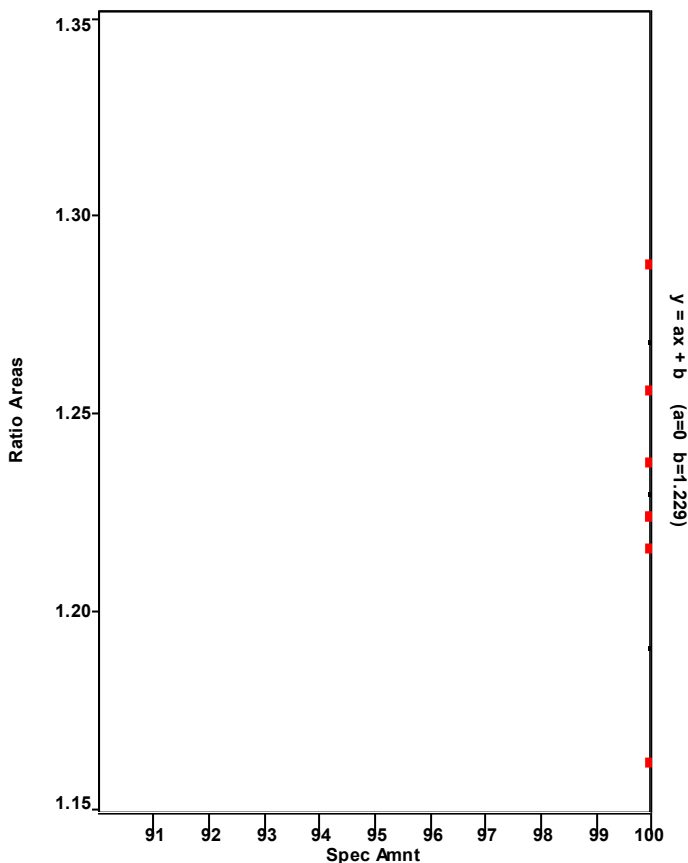


NL:
 1.36E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

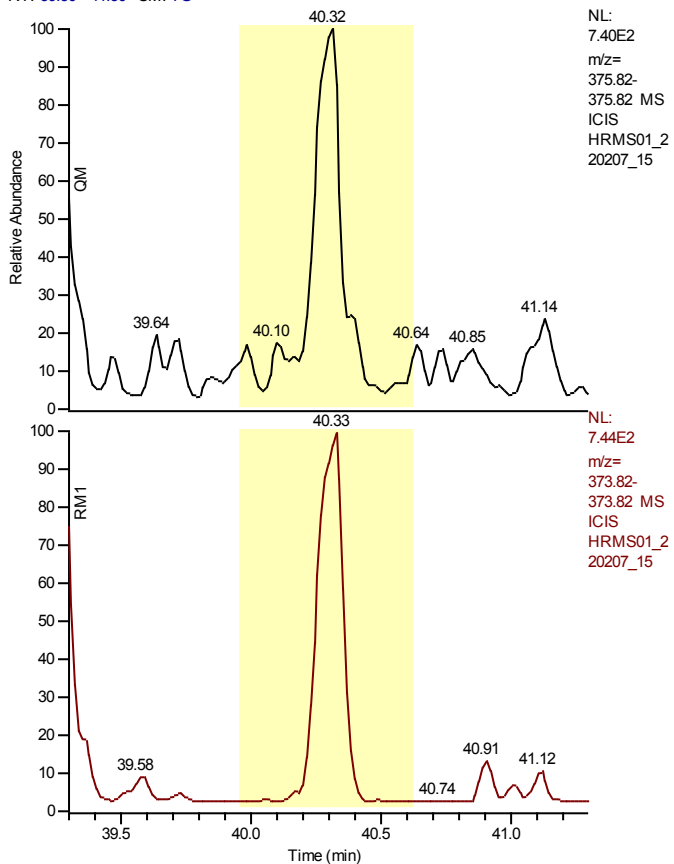
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G

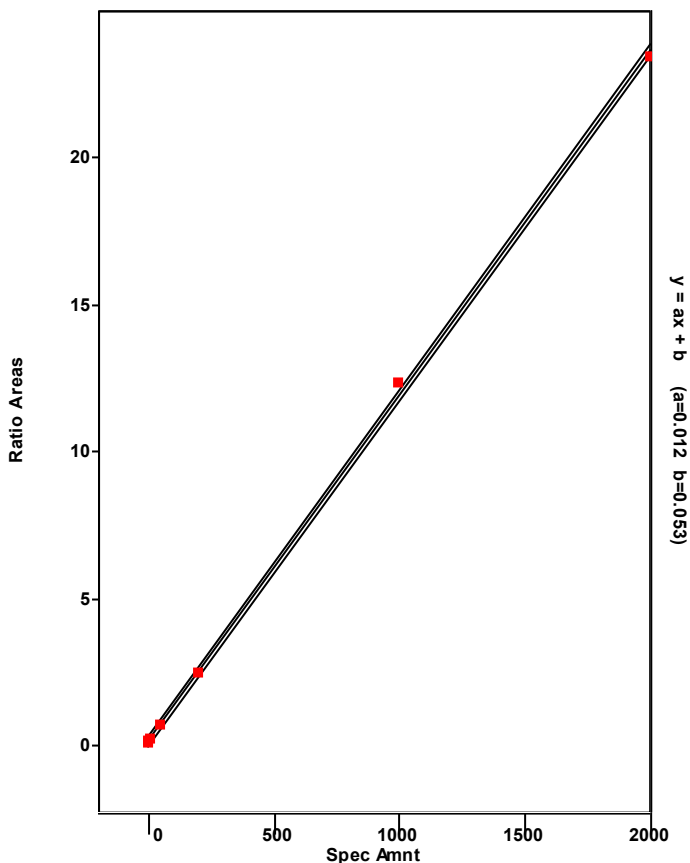


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

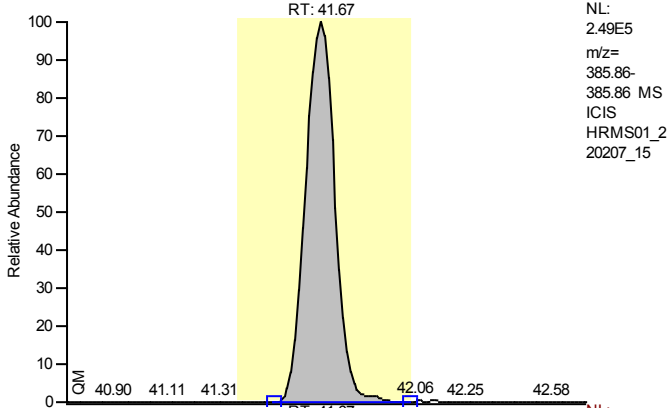
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



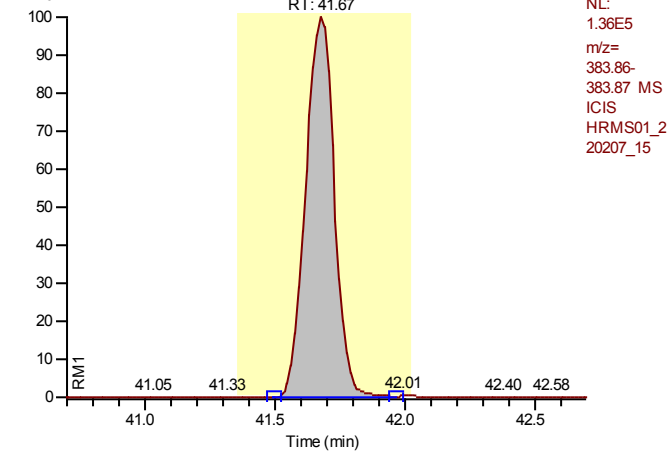
Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G



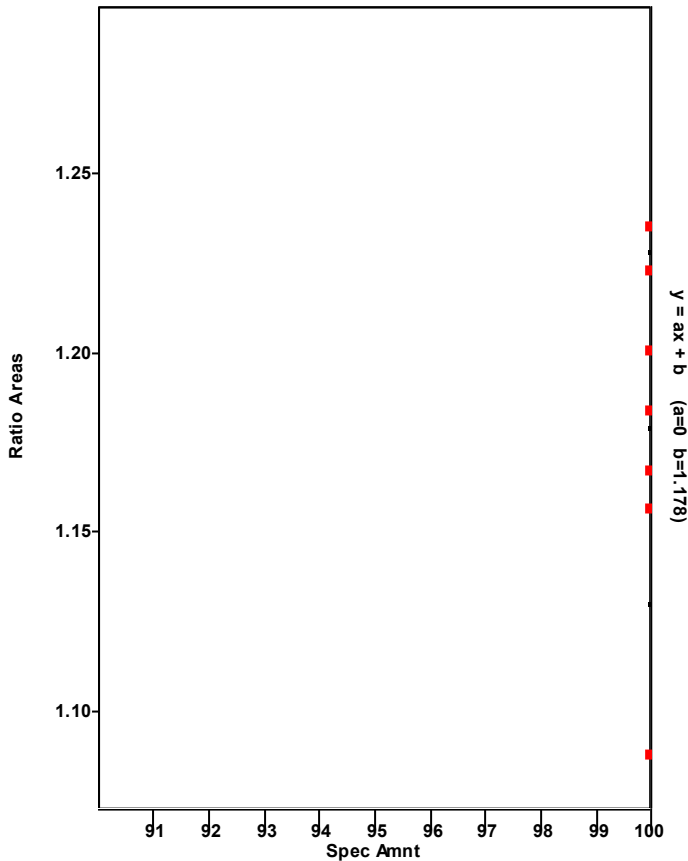
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1962919
RM1 Area	1044328
RM1 Ratio (A)	0.5320
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	81.61
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

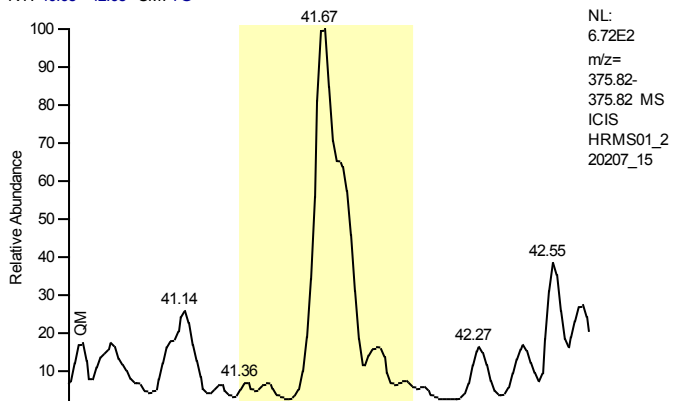
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



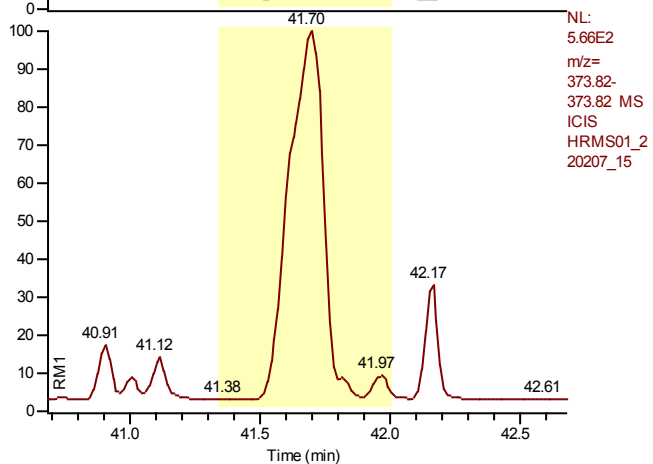
Chromatogram

Entry Parameters

RT: 40.68 - 42.68 SM: 7G



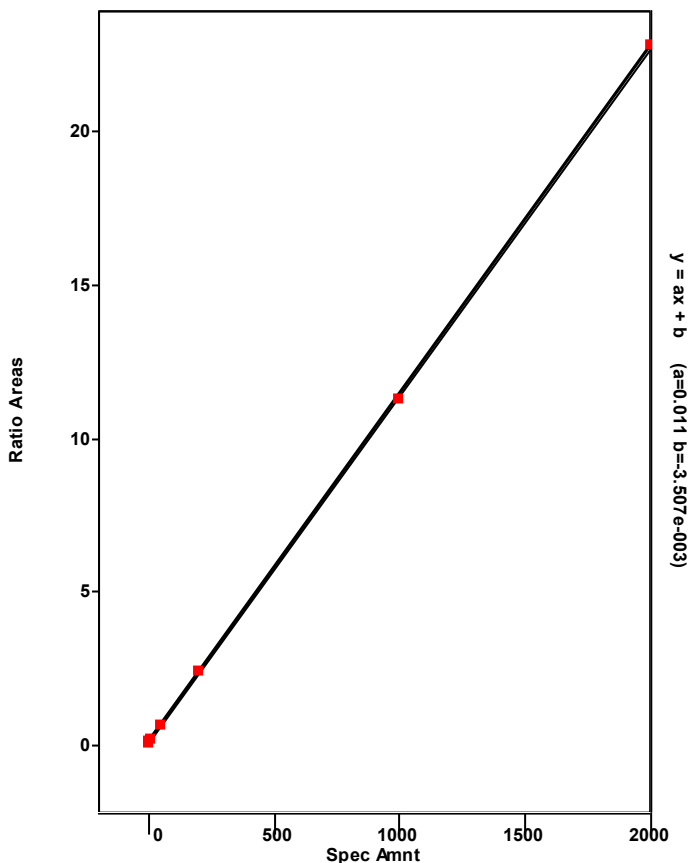
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

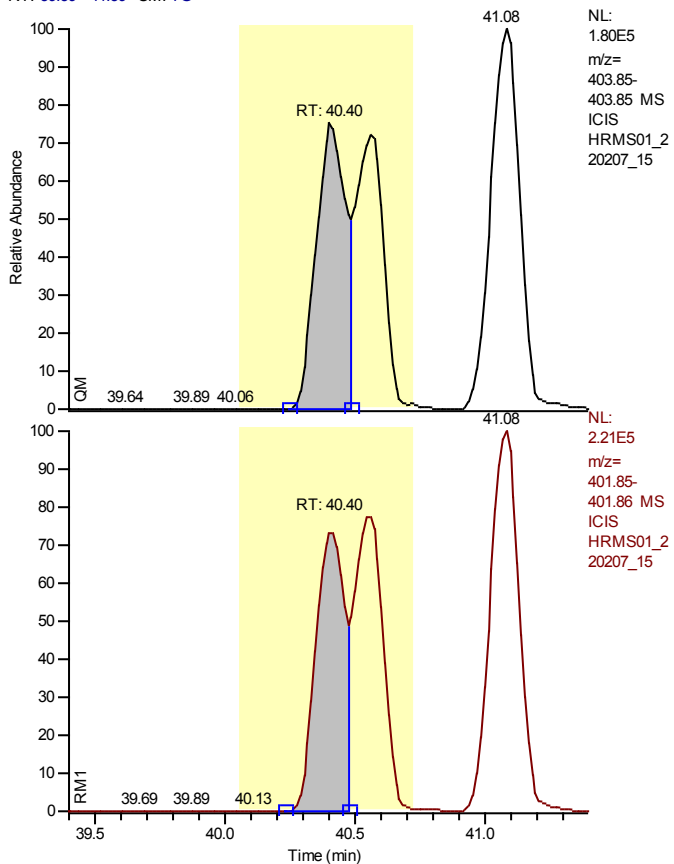
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

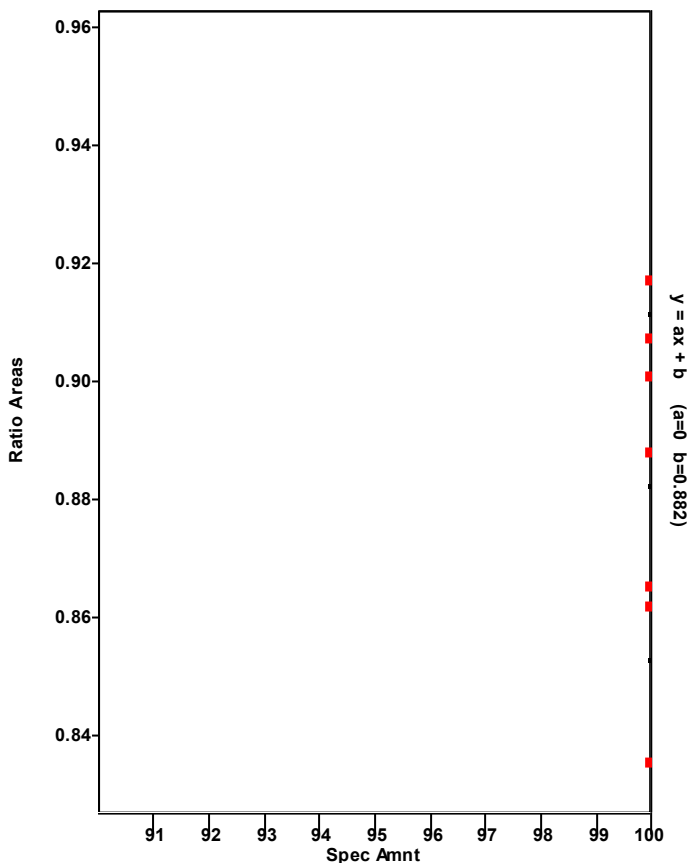
RT: 39.39 - 41.39 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1073967
RM1 Area	1229632
RM1 Ratio (A)	1.1449
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	83.54
Percent Recovery (A)	84
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

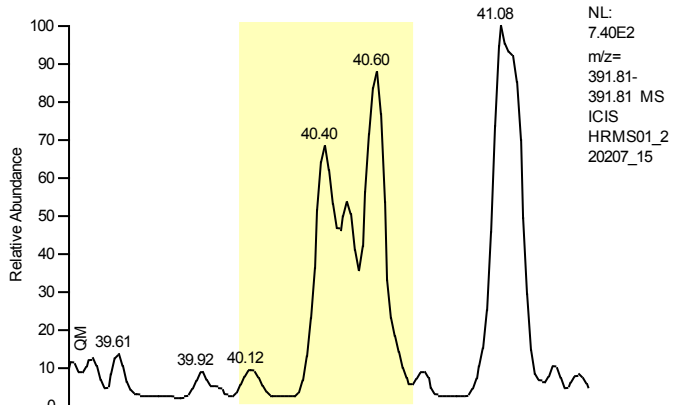
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



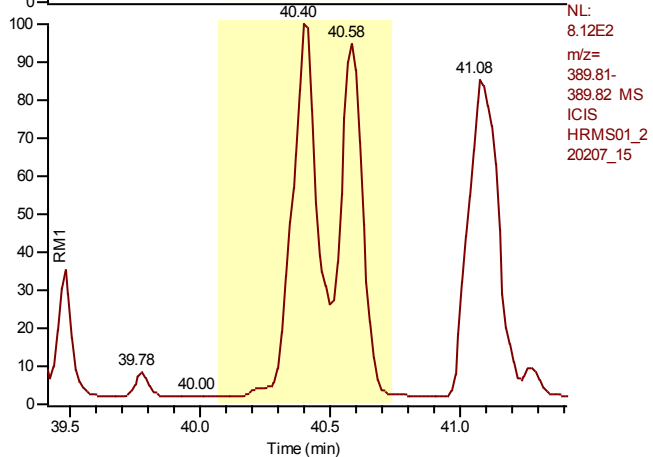
Chromatogram

Entry Parameters

RT: 39.41 - 41.41 SM: 7G



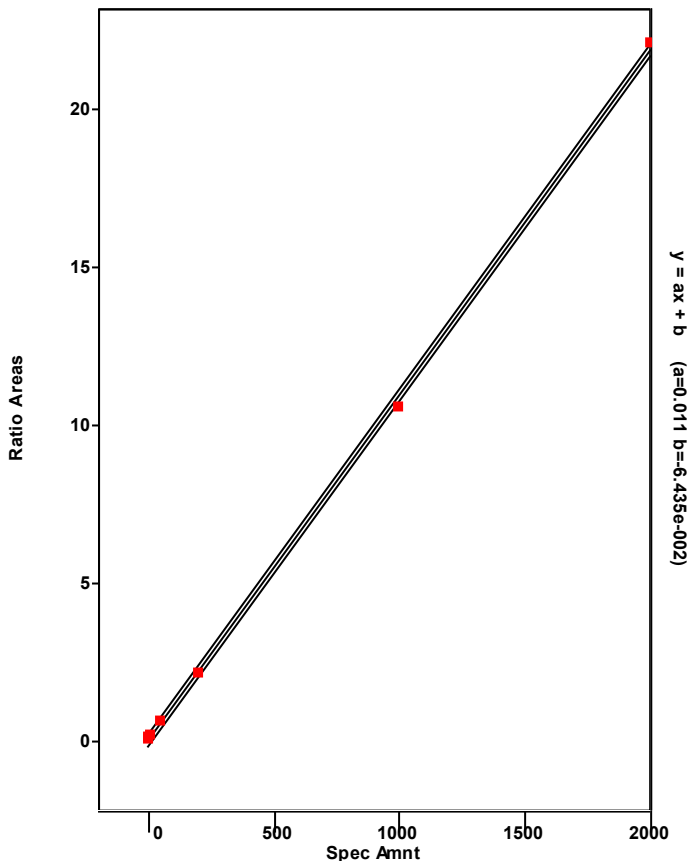
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

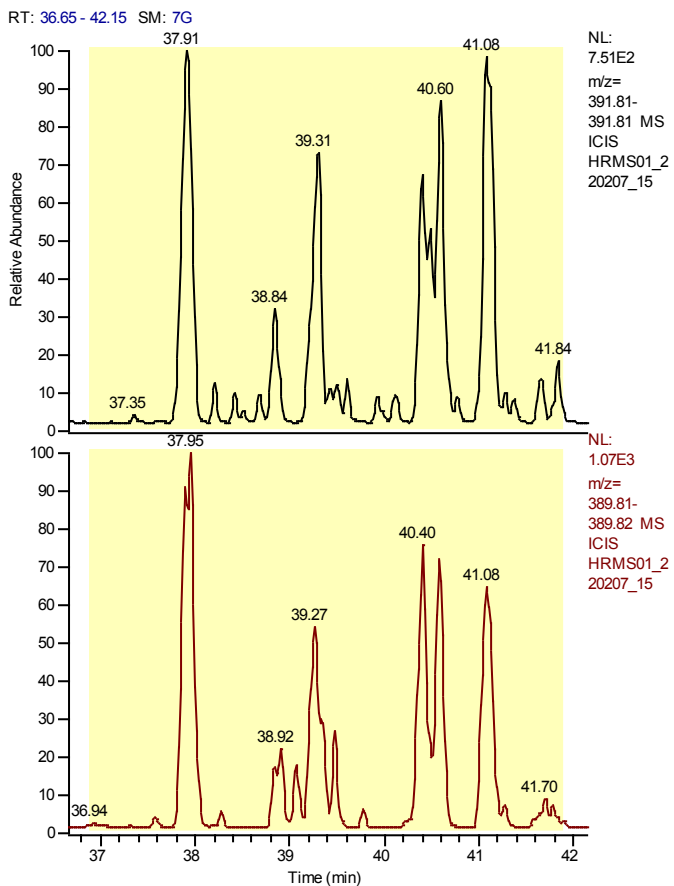
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

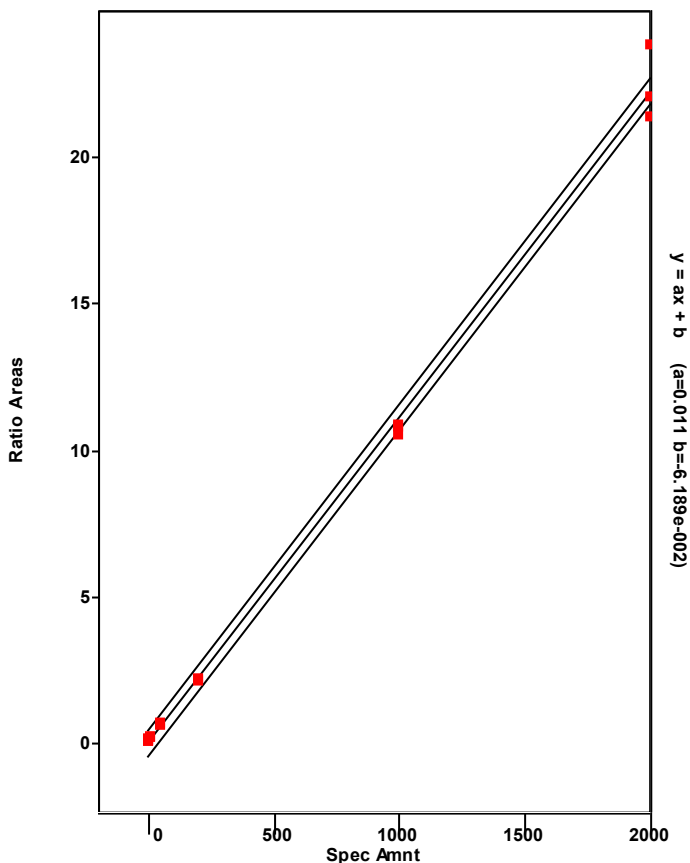


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

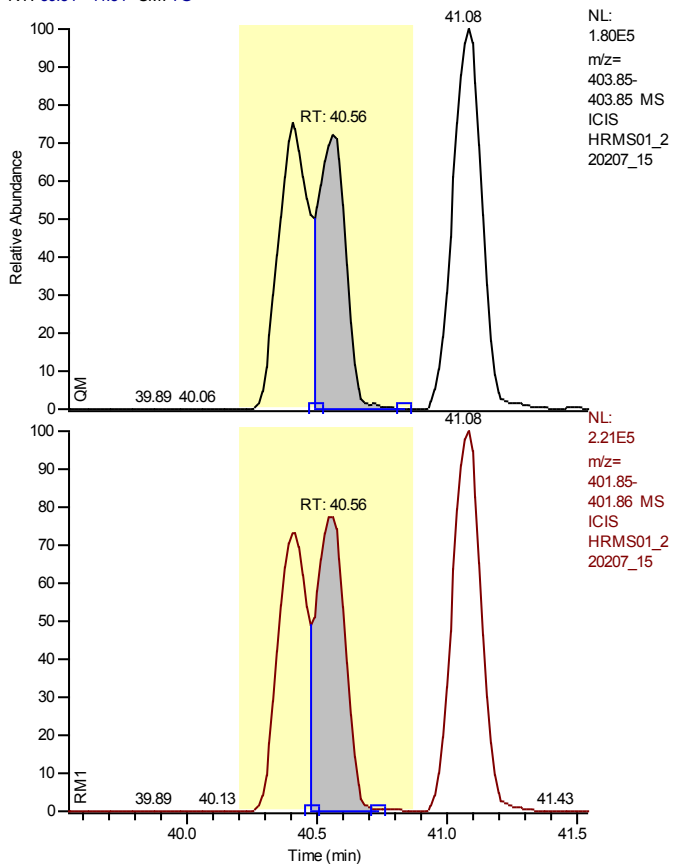
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

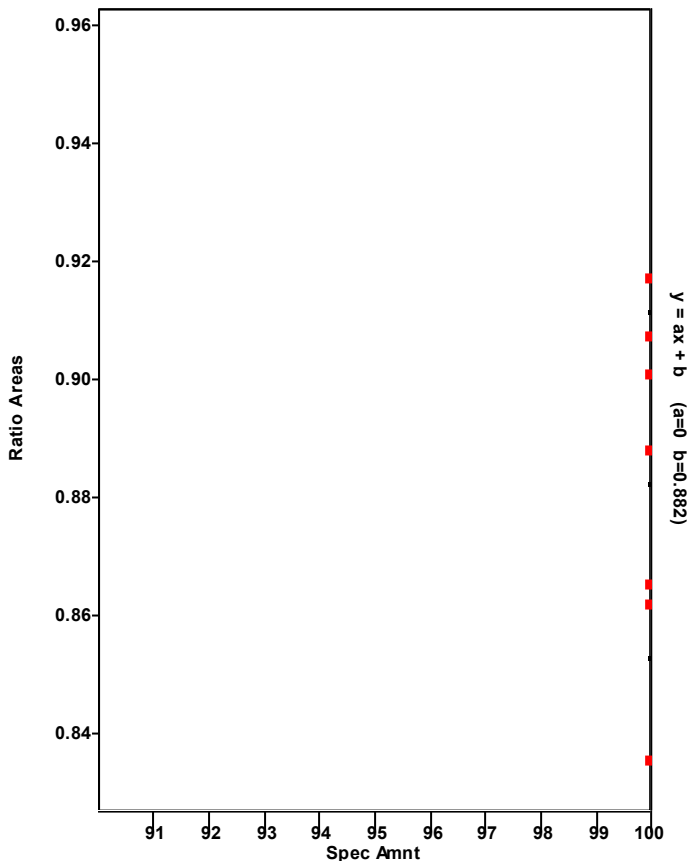
RT: 39.54 - 41.54 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	955259
RM1 Area	1346804
RM1 Ratio (A)	1.4099
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	83.49
Percent Recovery (A)	83
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

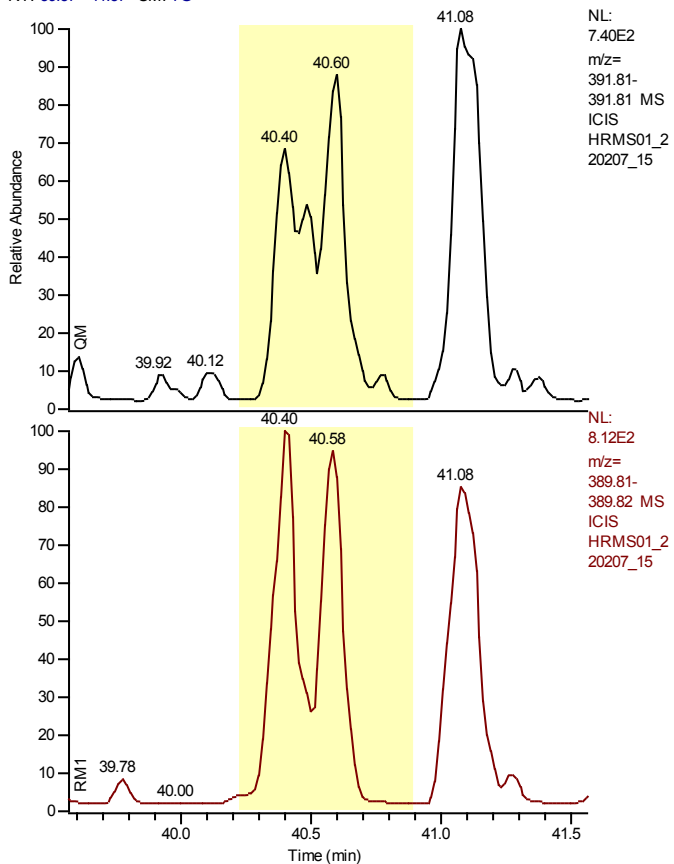
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.57 - 41.57 SM: 7G



NL:
7.40E2
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20207_15

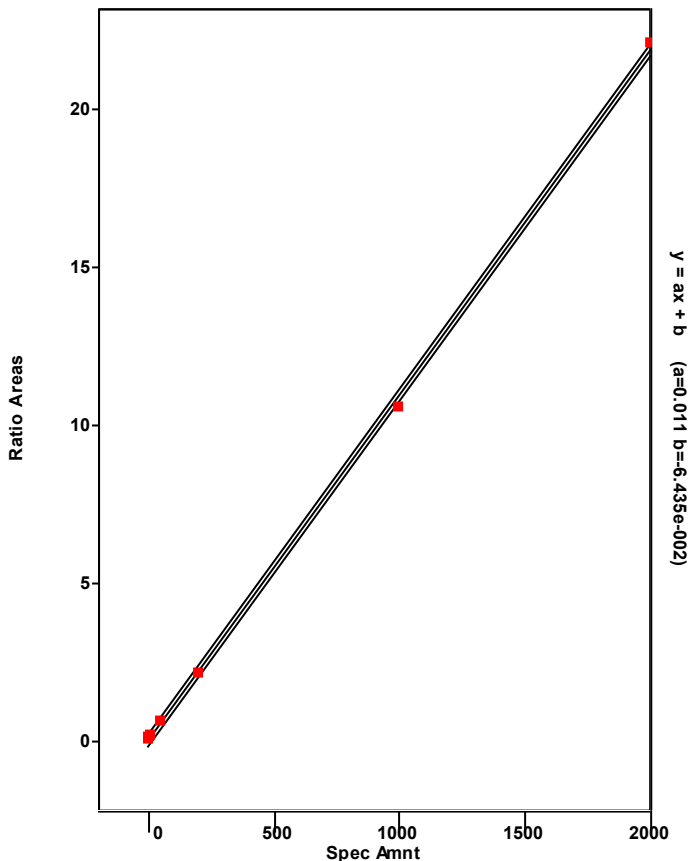
NL:
8.12E2
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20207_15

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

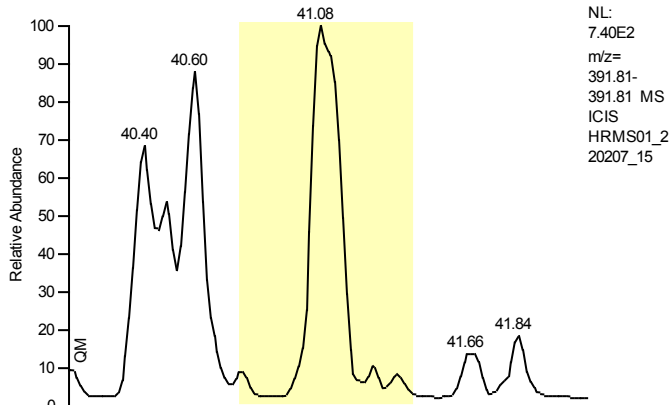
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

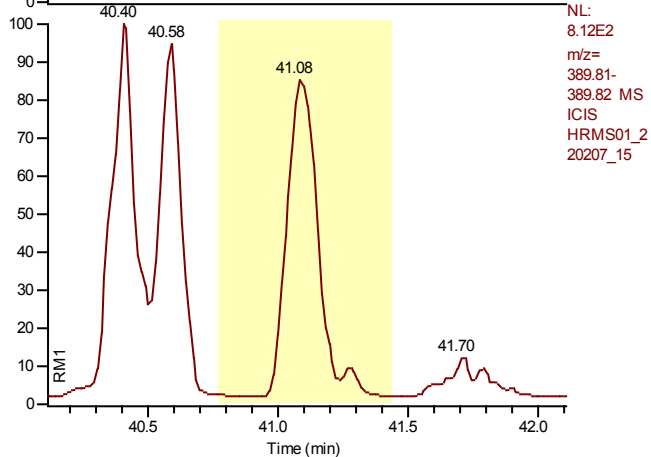
Entry Parameters

RT: 40.11 - 42.11 SM: 7G



NL:
 7.40E2
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

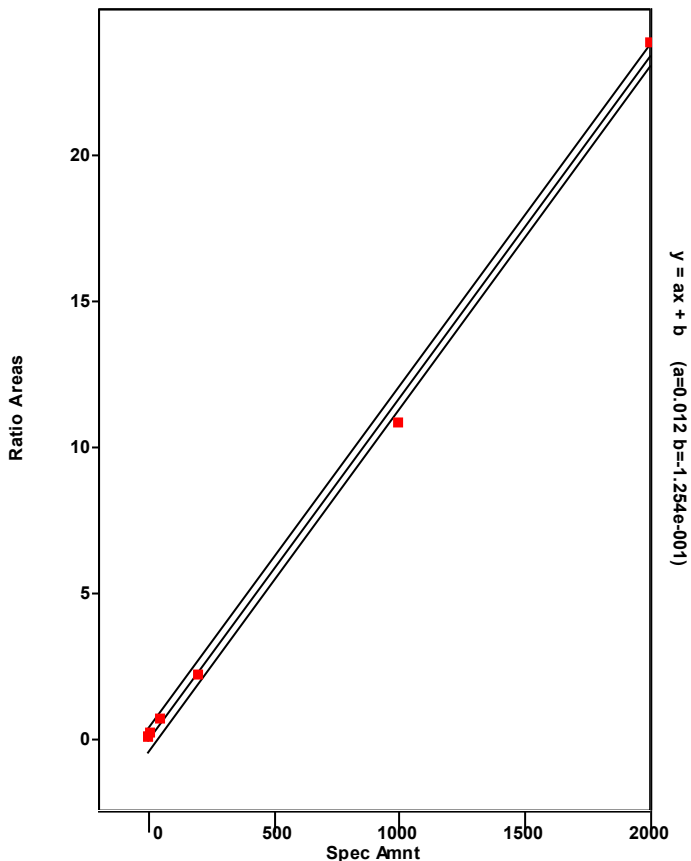


NL:
 8.12E2
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

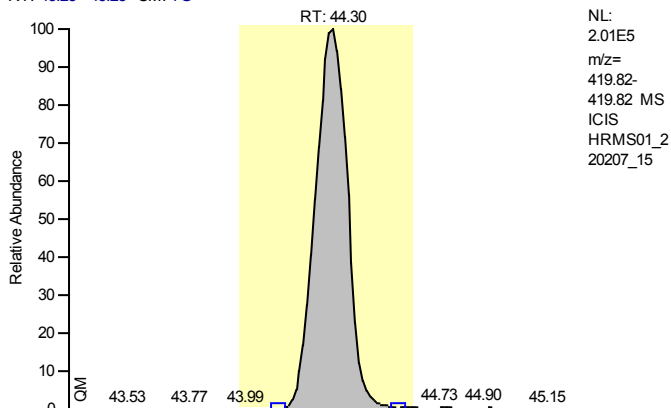
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



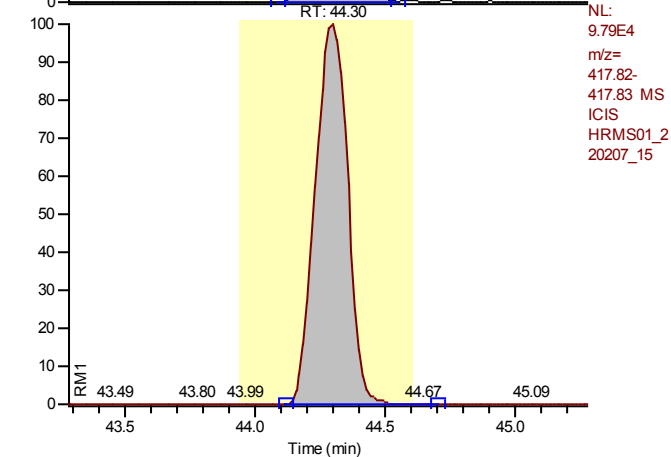
Chromatogram

Entry Parameters

RT: 43.28 - 45.28 SM: 7G

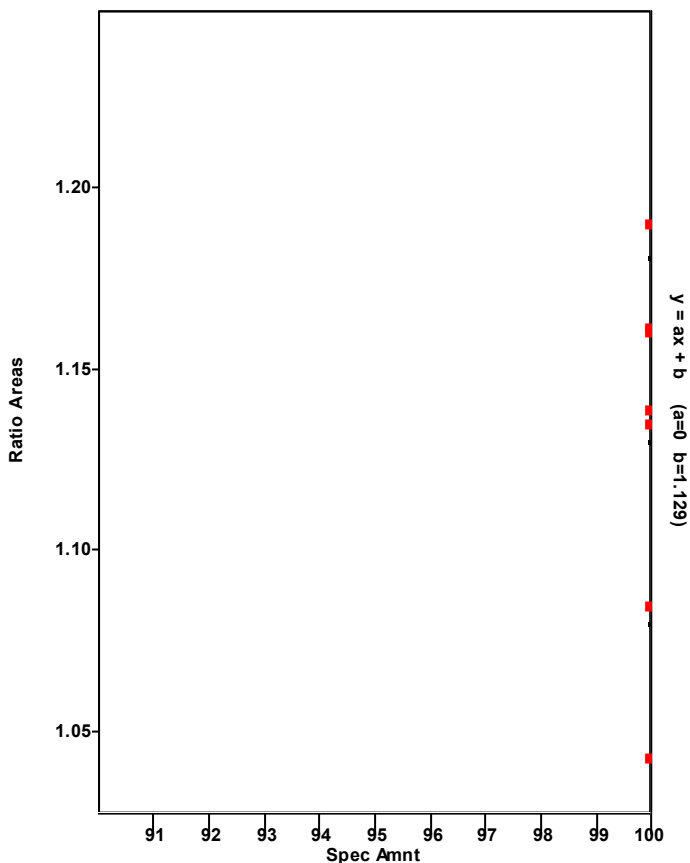


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1743476
RM1 Area	857267
RM1 Ratio (A)	0.4917
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	73.64
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

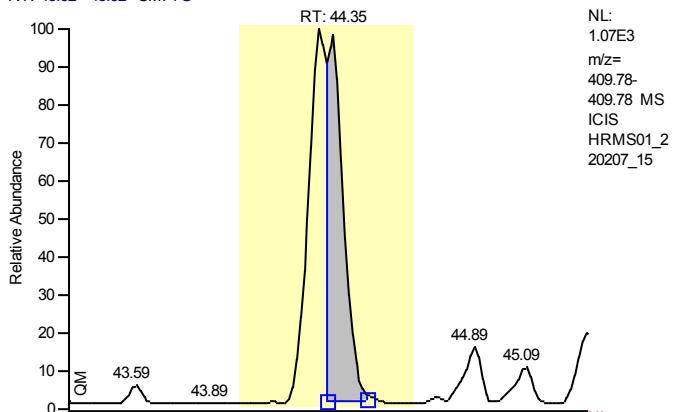
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



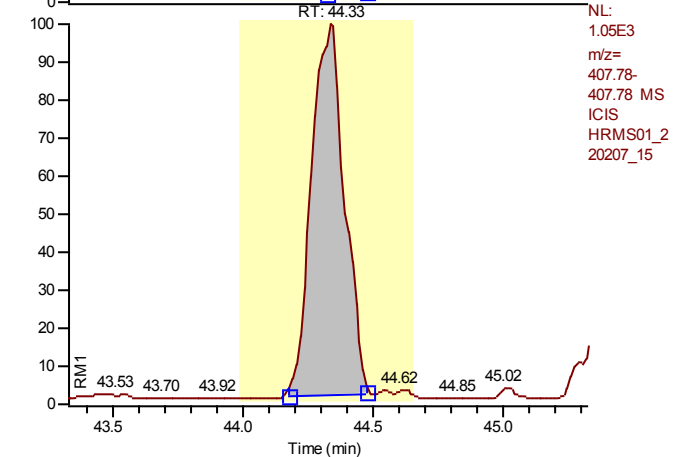
Chromatogram

Entry Parameters

RT: 43.32 - 45.32 SM: 7G



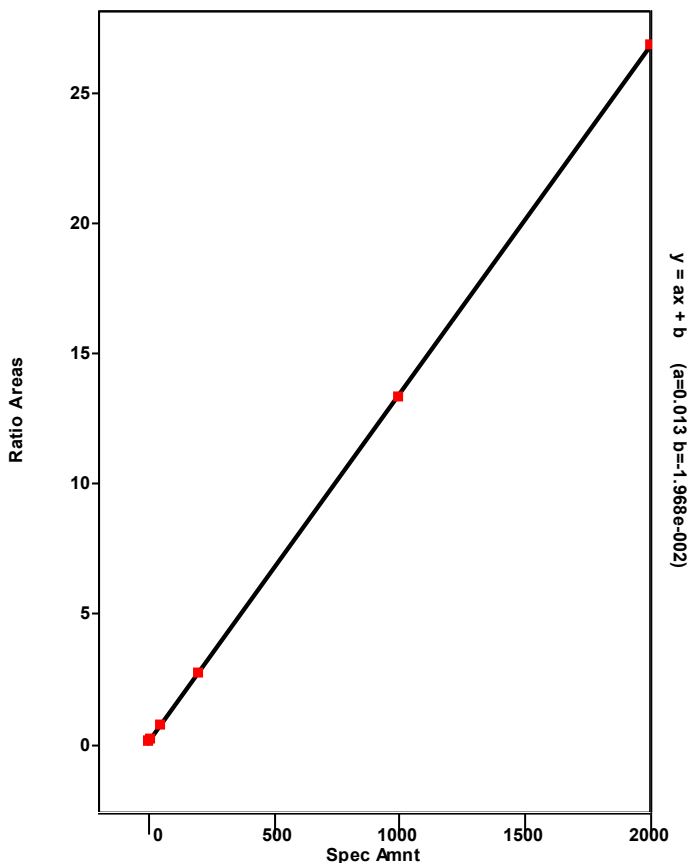
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	4479
RM1 Area	8969
RM1 Ratio (A)	2.0023
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.38
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

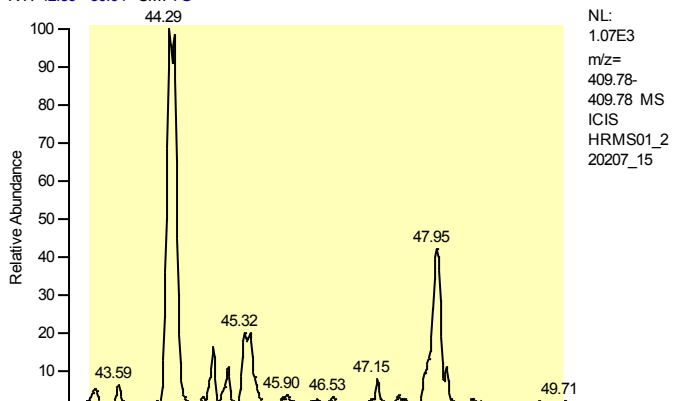
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



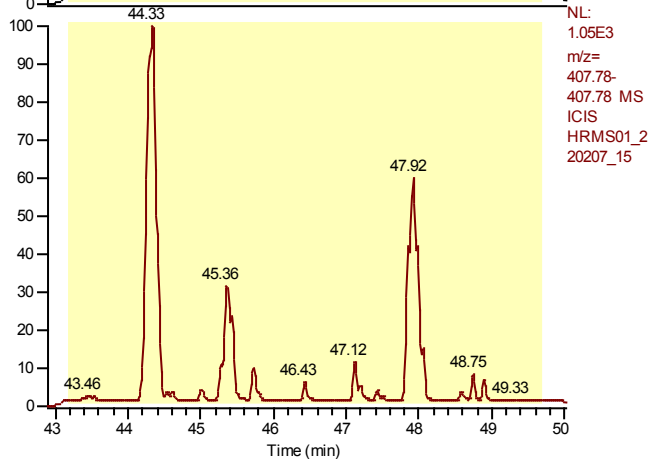
Chromatogram

Entry Parameters

RT: 42.89 - 50.04 SM: 7G



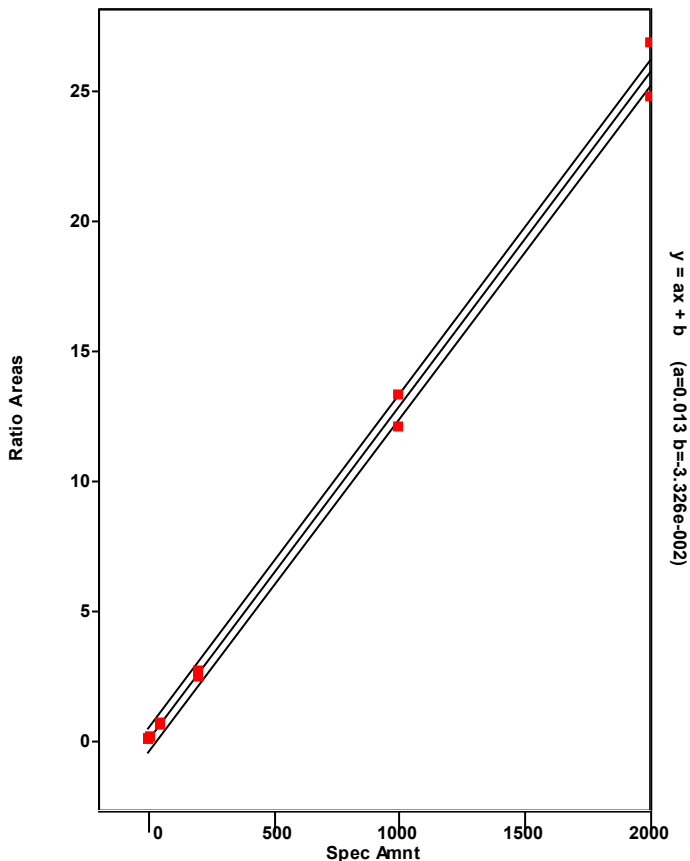
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

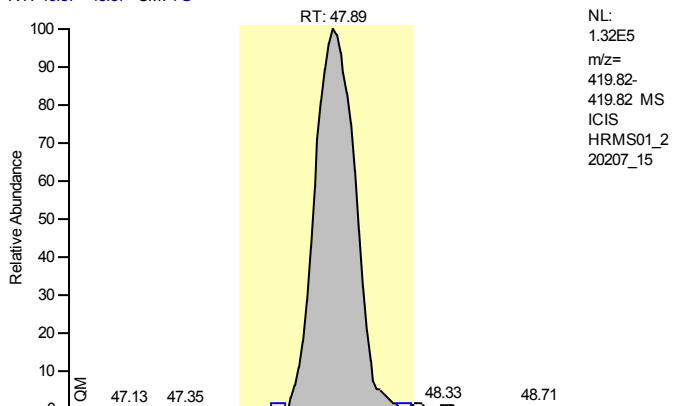
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

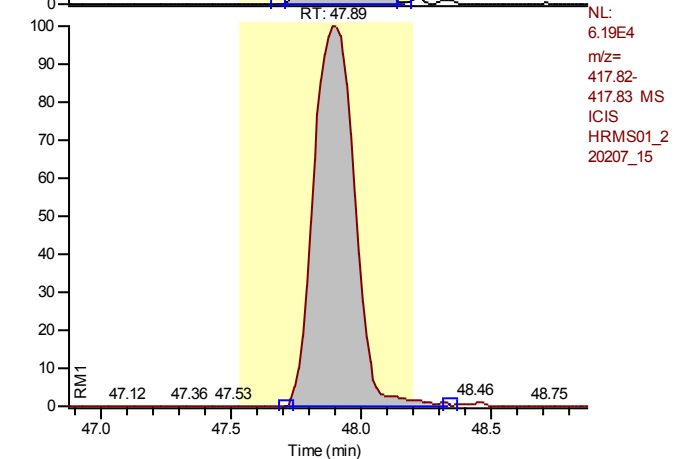
Entry Parameters

RT: 46.87 - 48.87 SM: 7G



NL:
 1.32E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_15

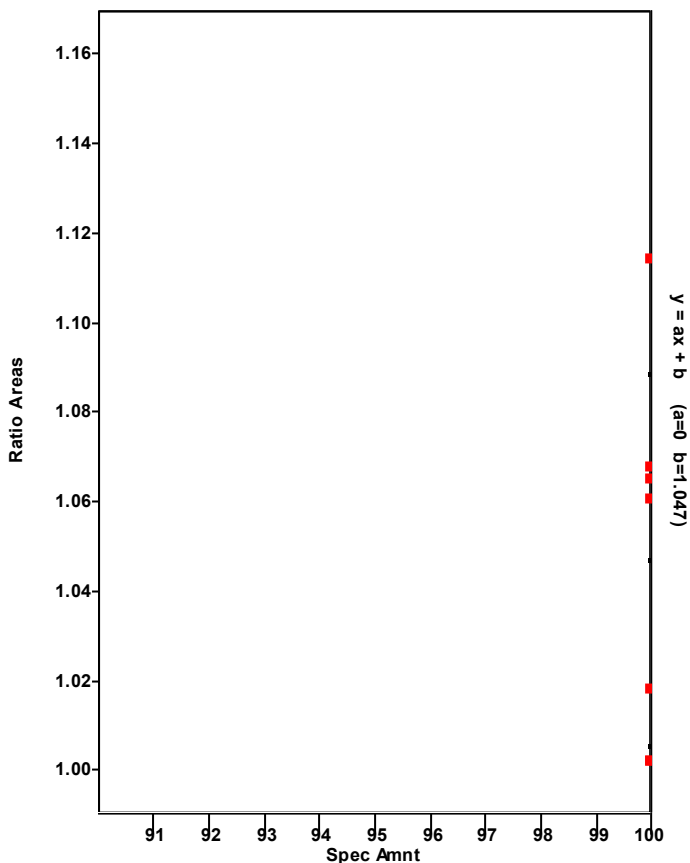
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1419929
RM1 Area	673445
RM1 Ratio (A)	0.4743
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	63.96
Percent Recovery (A)	64
TEQ (A)	0.0000
Label2	



NL:
 6.19E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_15

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

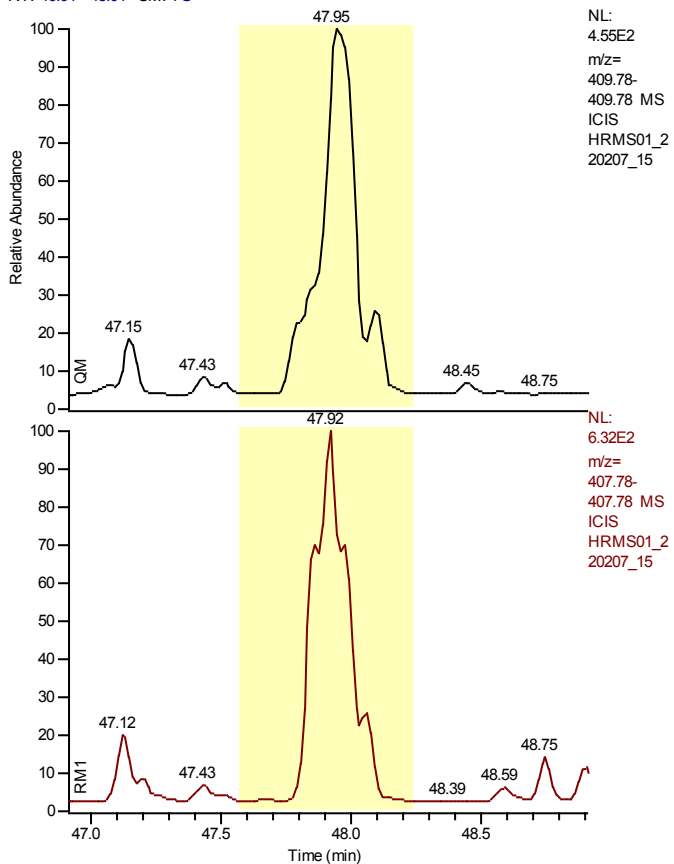
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.91 - 48.91 SM: 7G

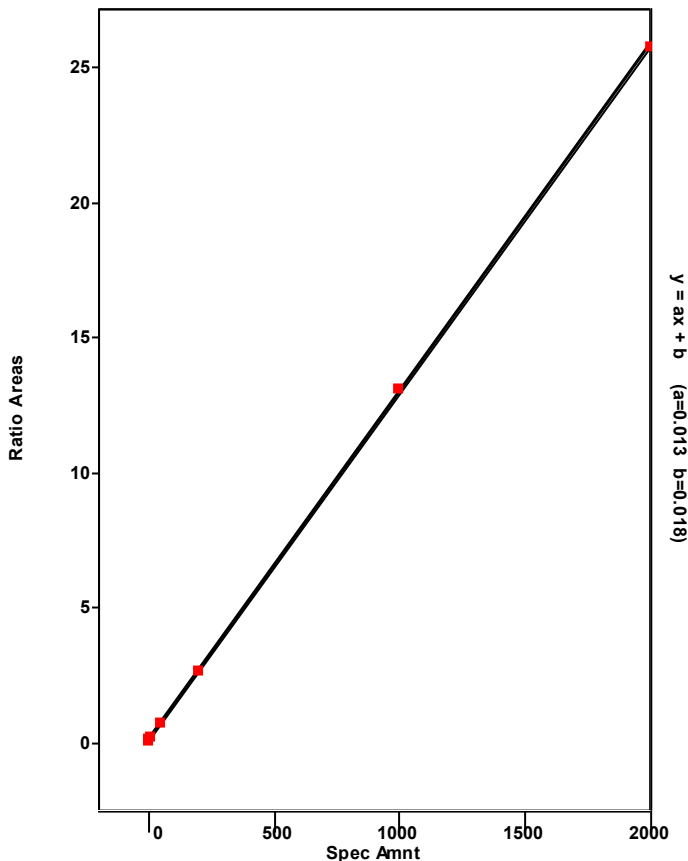


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

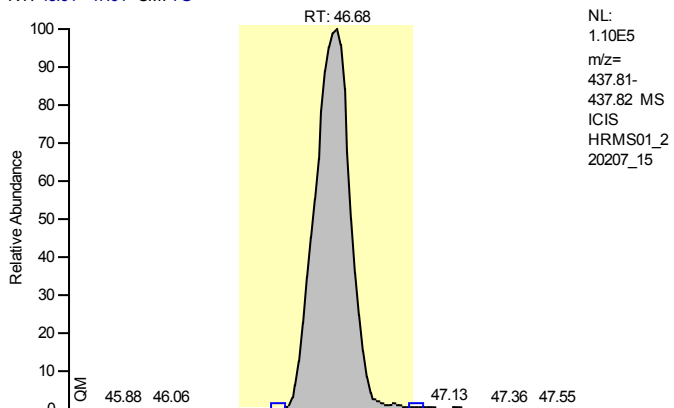
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

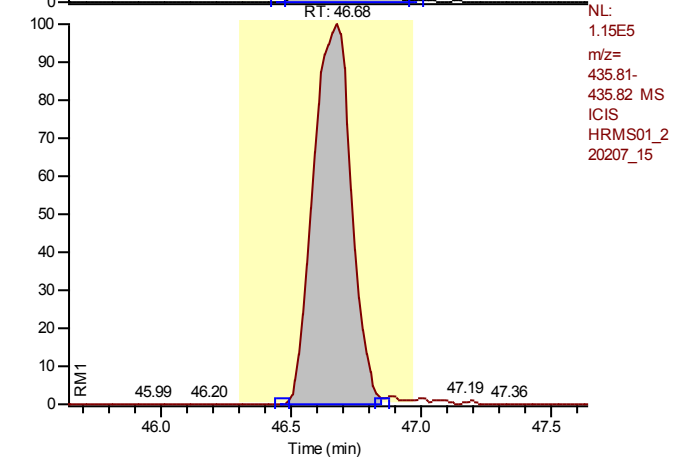
Entry Parameters

RT: 45.64 - 47.64 SM: 7G



NL:
 1.10E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_15

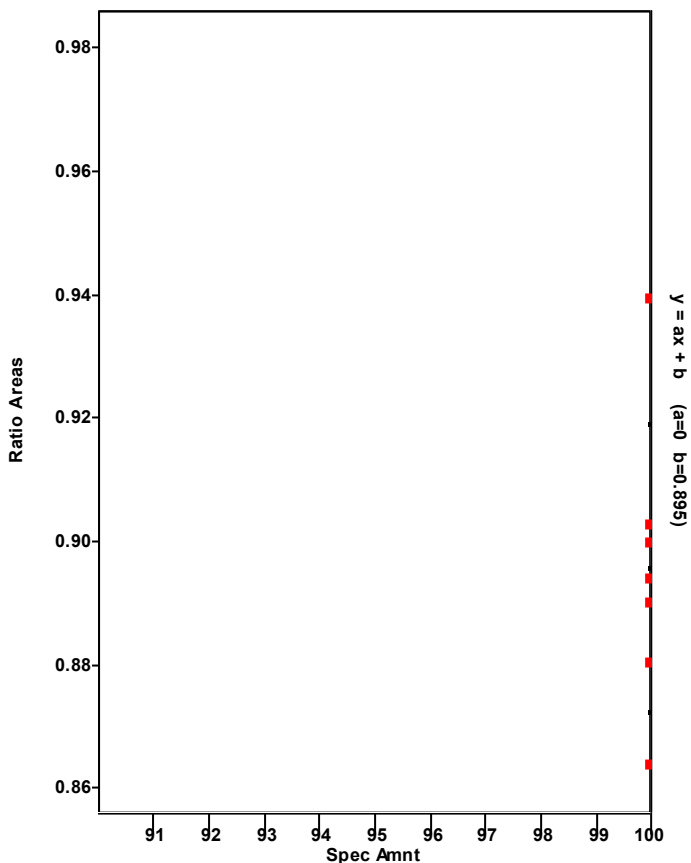
Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1054533
RM1 Area	1174394
RM1 Ratio (A)	1.1137
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	79.60
Percent Recovery (A)	80
TEQ (A)	0.0000
Label2	



NL:
 1.15E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_15

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

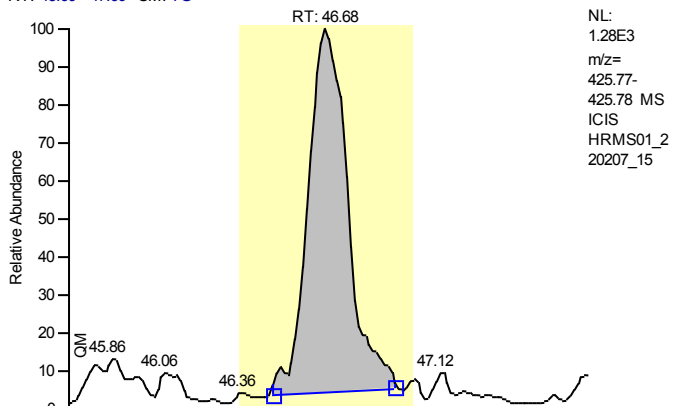
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

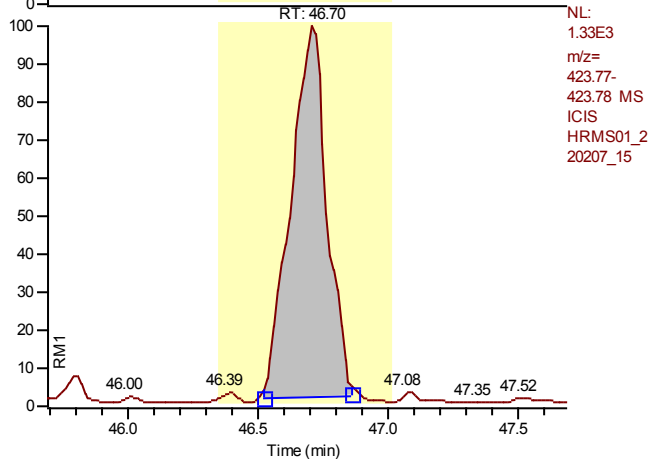
Entry Parameters

RT: 45.69 - 47.69 SM: 7G



NL:
 1.28E3
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	12915
RM1 Area	12404
RM1 Ratio (A)	0.9604
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.02
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

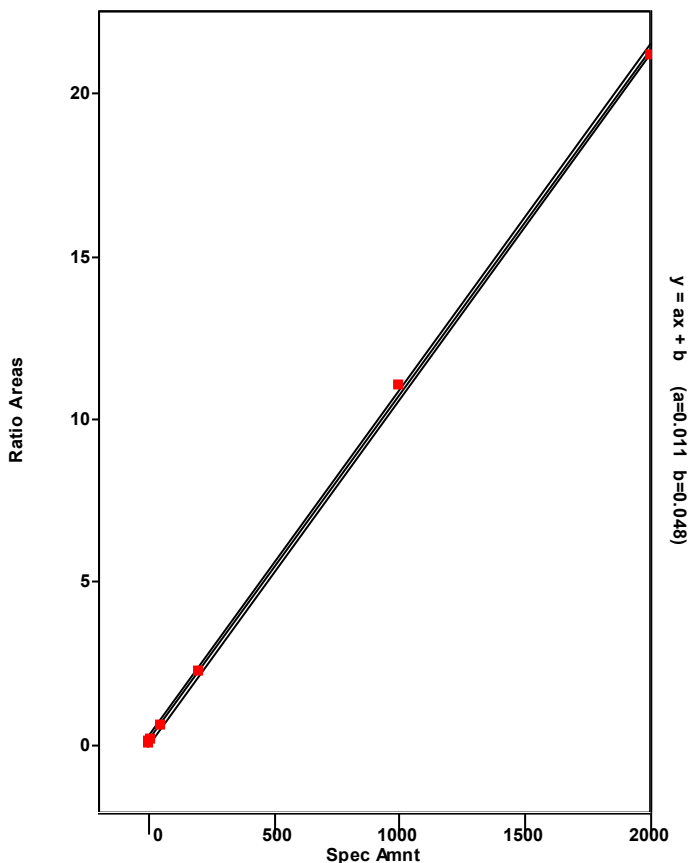


NL:
 1.33E3
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20207_15

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

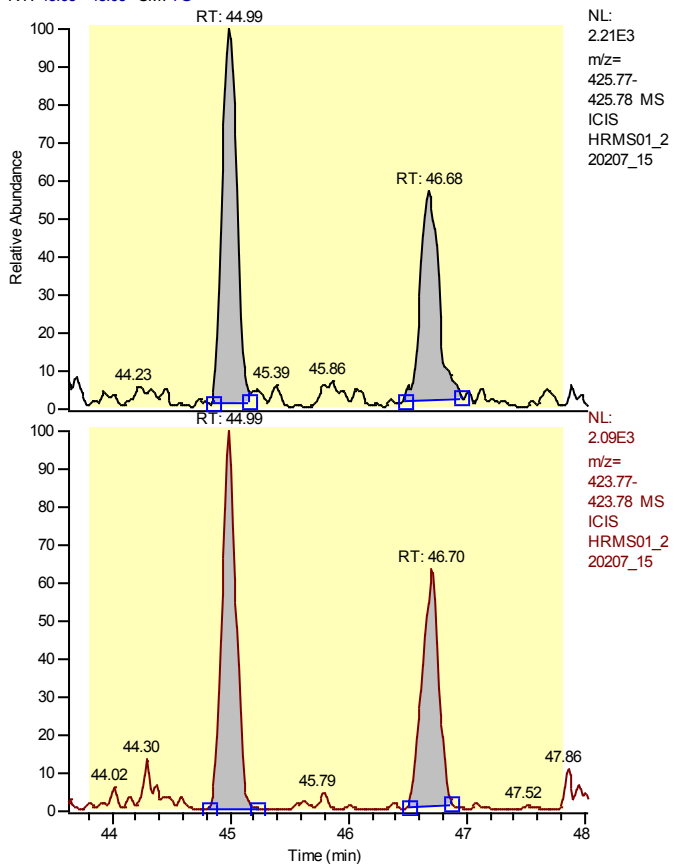
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.63 - 48.03 SM: 7G

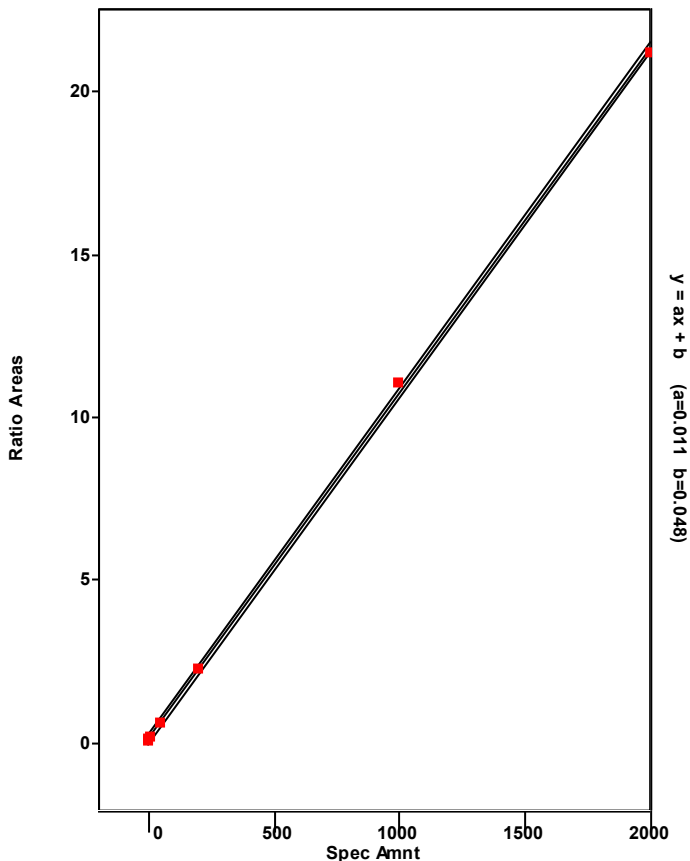


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	31727
RM1 Area	28981
RM1 Ratio (A)	0.9134
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	2.46
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

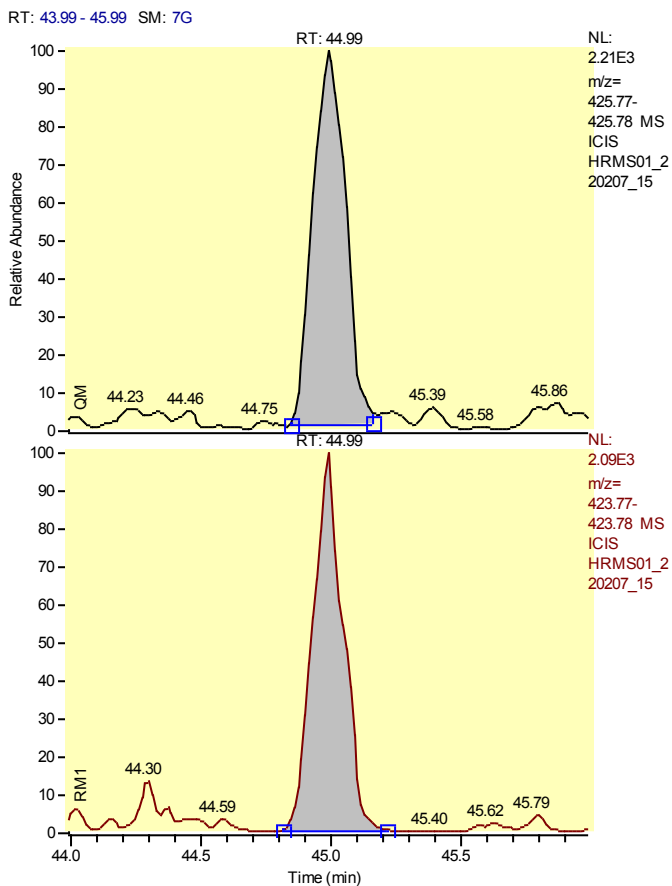
Calibration Points of Total Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

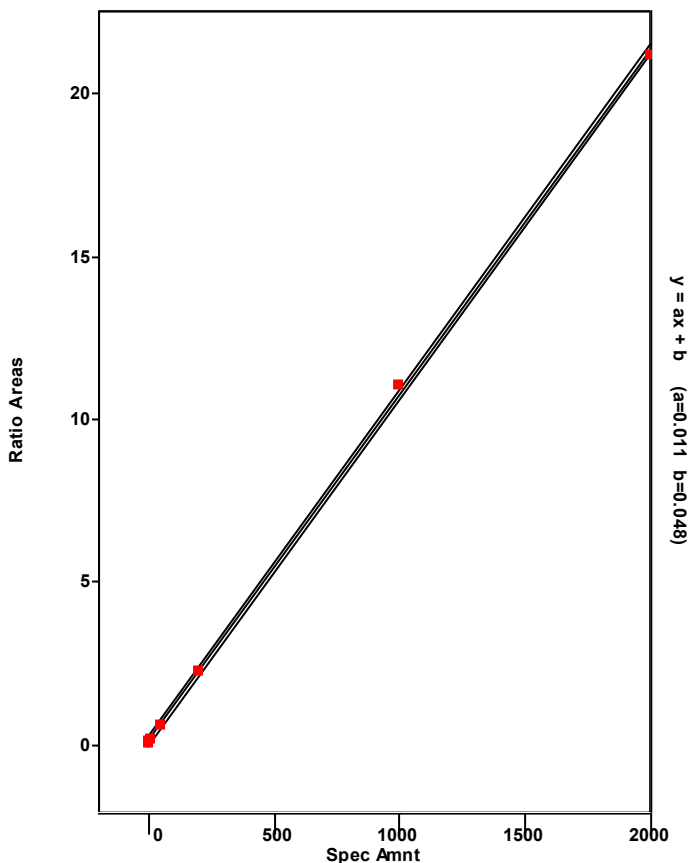


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	18812
RM1 Area	16577
RM1 Ratio (A)	0.8812
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.43
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

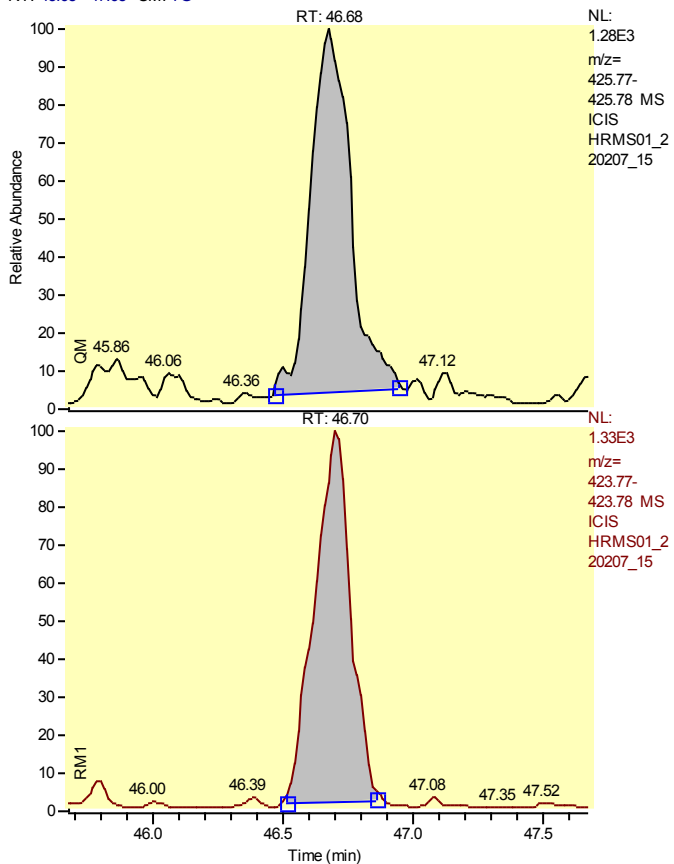
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G

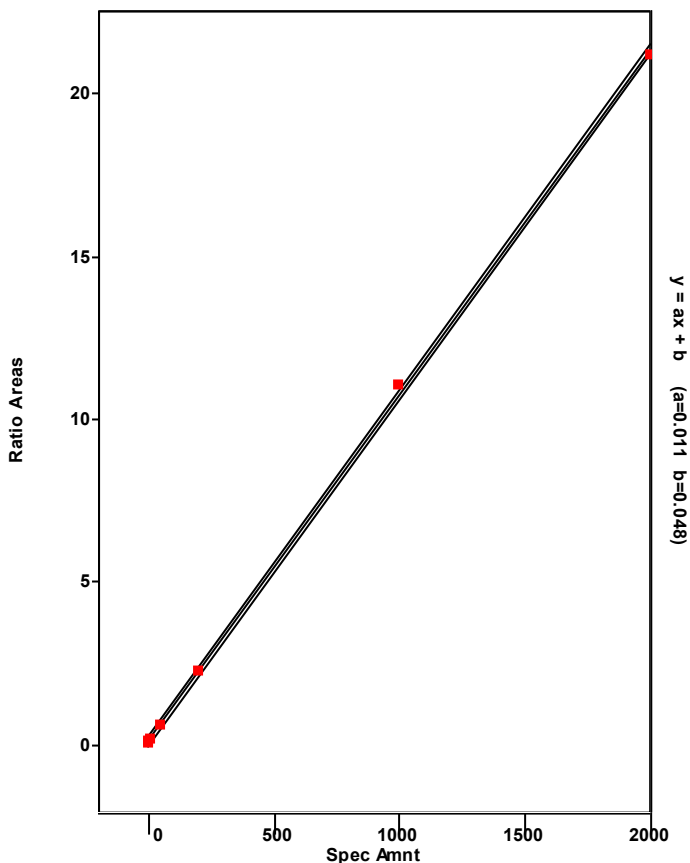


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	12915
RM1 Area	12404
RM1 Ratio (A)	0.9604
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.02
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

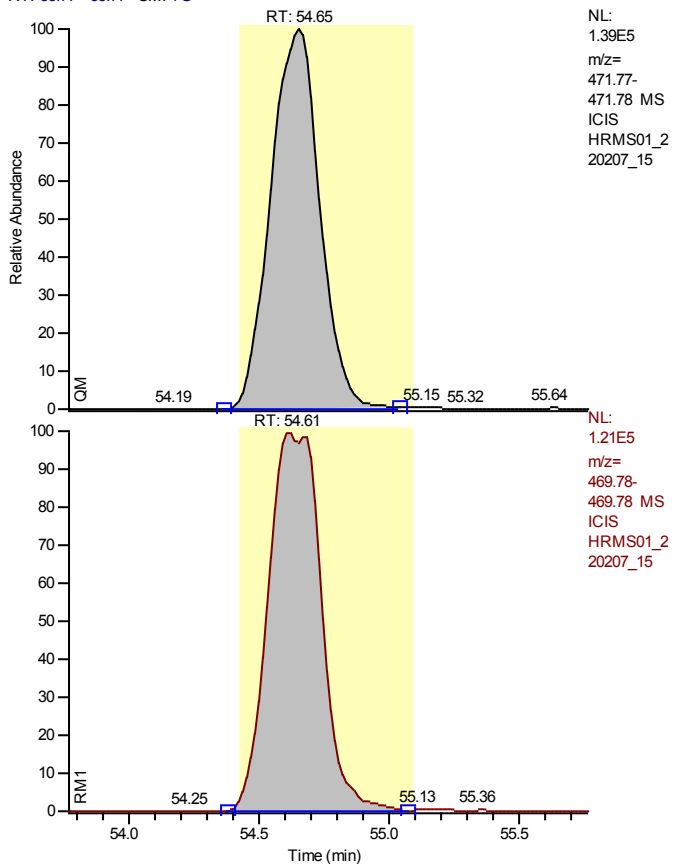
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 53.77 - 55.77 SM: 7G



NL:
 1.39E5
 m/z=
 471.77-
 471.78 MS
 ICIS
 HRMS01_2
 20207_15

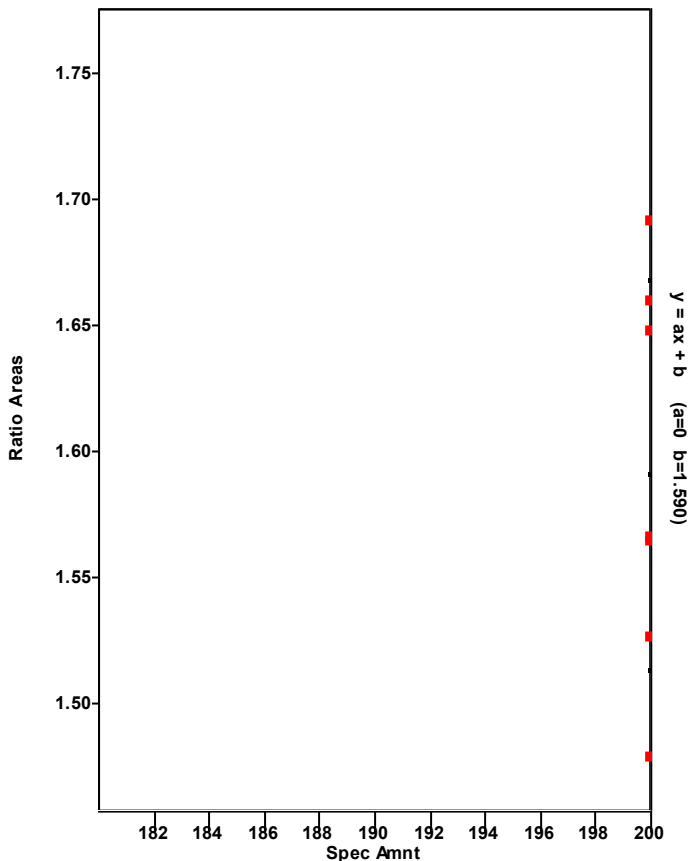
NL:
 1.21E5
 m/z=
 469.78-
 469.78 MS
 ICIS
 HRMS01_2
 20207_15

Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1813187
RM1 Area	1719220
RM1 Ratio (A)	0.9482
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	142.11
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

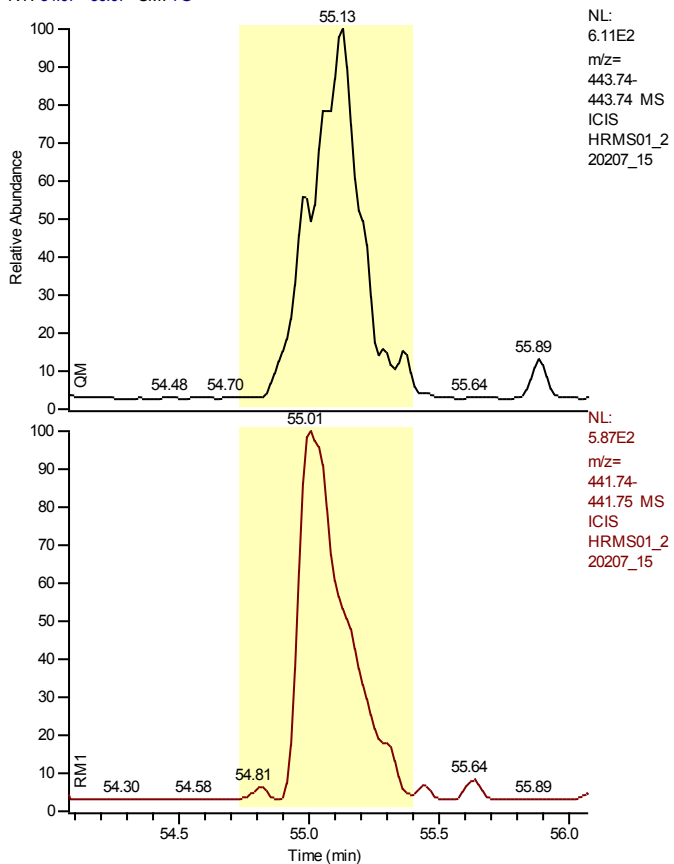
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.07 - 56.07 SM: 7G

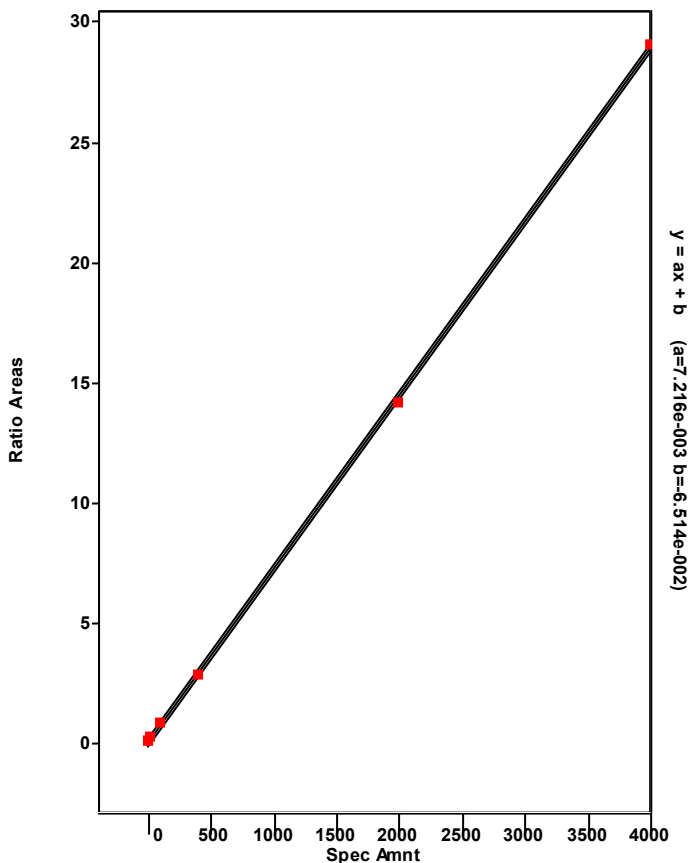


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

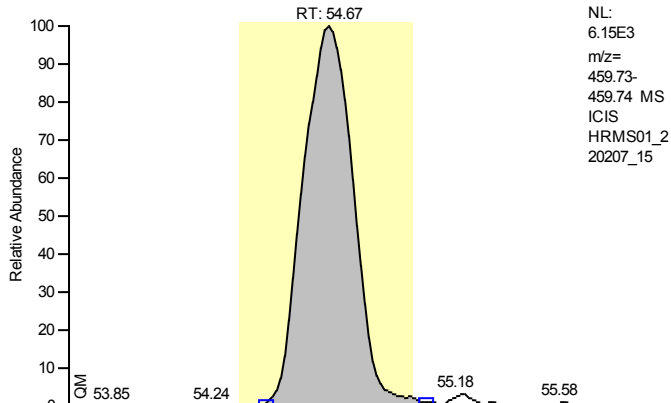
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



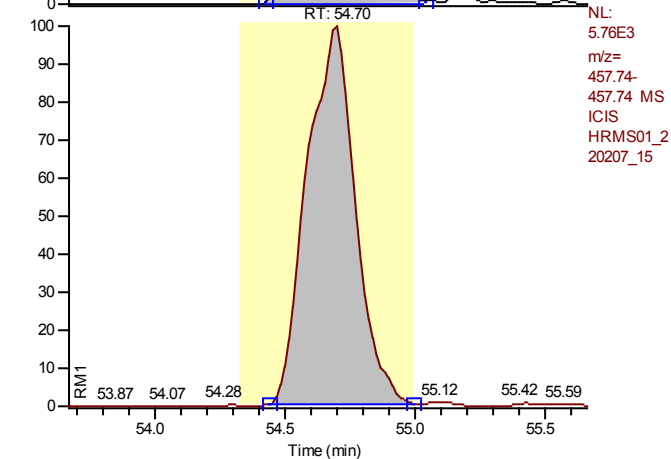
Chromatogram

Entry Parameters

RT: 53.66 - 55.66 SM: 7G



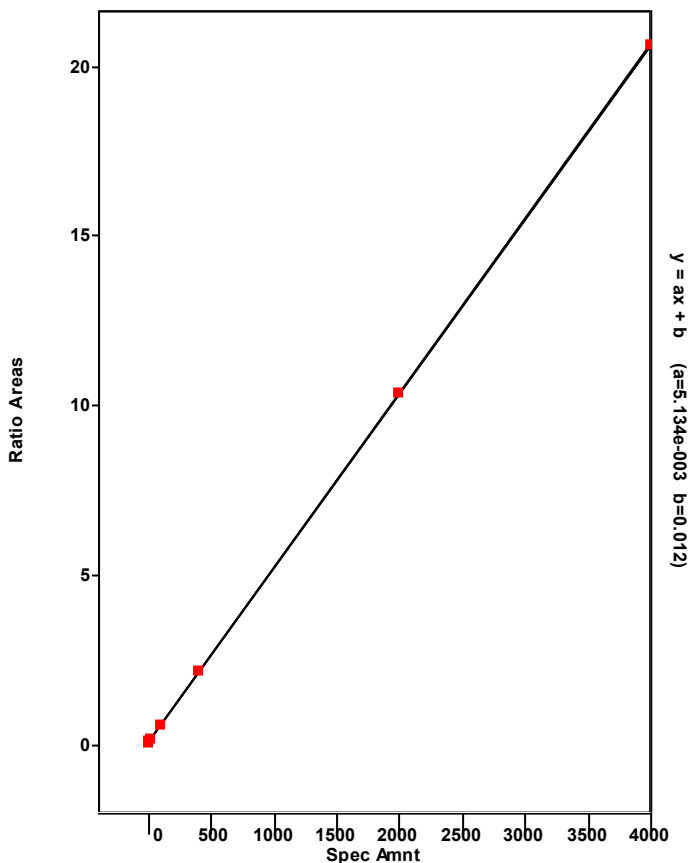
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	81684
RM1 Area	73806
RM1 Ratio (A)	0.9035
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	8.31
Percent Recovery (A)	---
TEQ (A)	0.0025
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

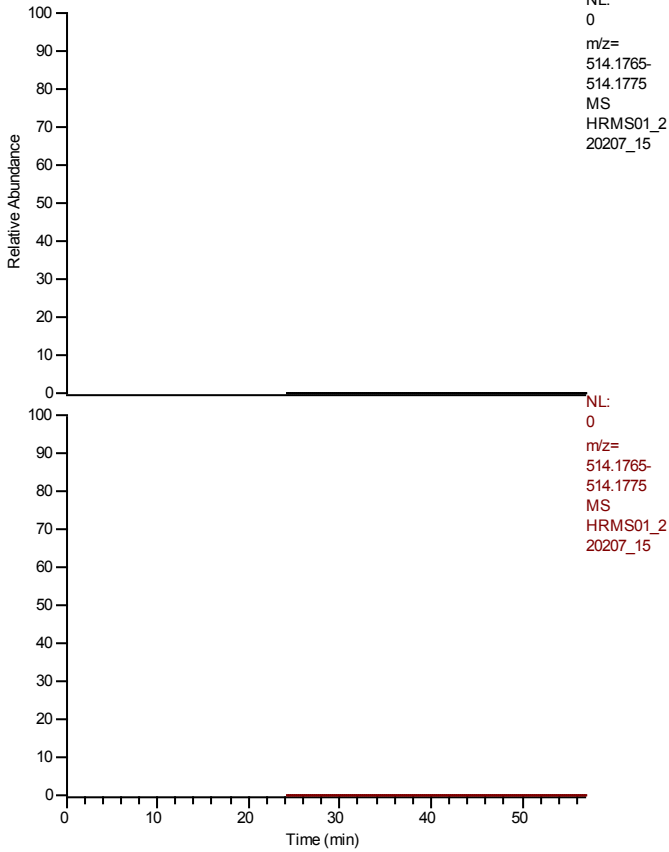
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

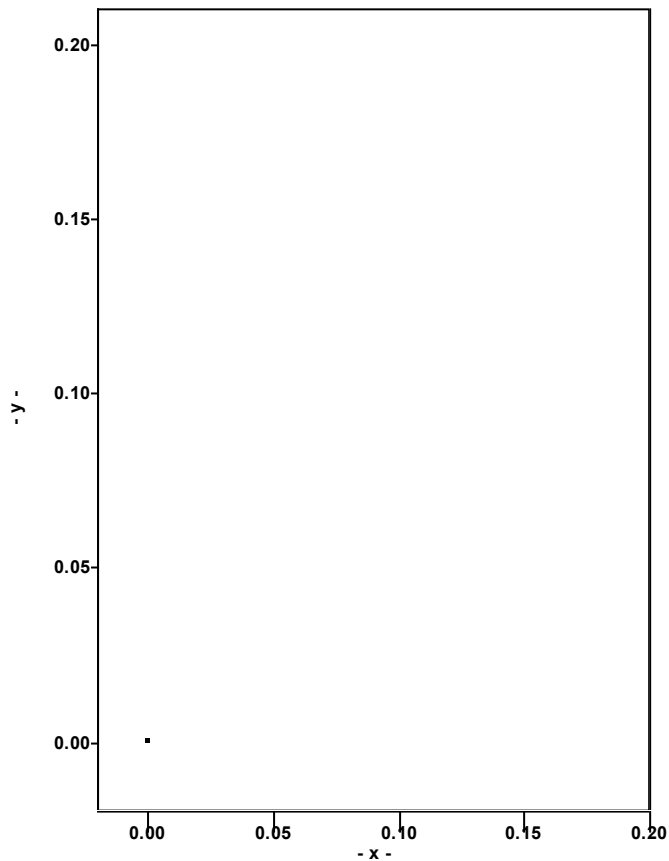
RT: 0.00 - 56.99 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	94600
RM1 Area	86209
RM1 Ratio (A)	0.9113
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	9.33
Percent Recovery (A)	---
TEQ (A)	0.0025
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 02:38
Number of Entries	47
Comment	
Vial	121
Sample Name	L2202953-02
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_17_seq
Data	hrms01_220207_17
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

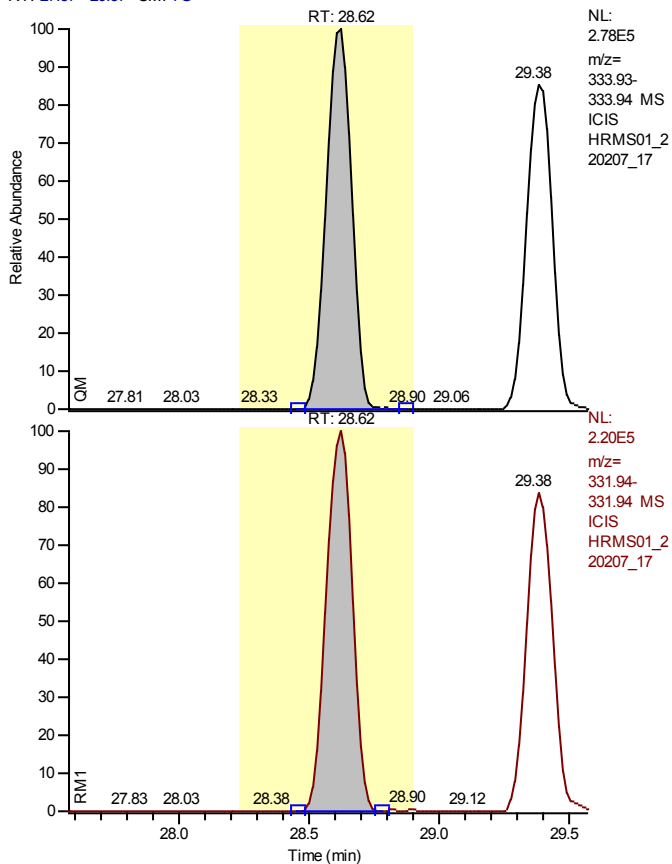
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1880662	1518384	0.8074	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2329864	1844470	0.7917	0.6500 - 0.8900	100.00	72.65	73	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	6706	5273	0.7864	0.6500 - 0.8900	0.00	0.28	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	6706	5273	0.7864	0.6500 - 0.8900	0.00	0.28	---	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1621619	1278675	0.7885	0.6500 - 0.8900	100.00	71.86	72	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
9	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1304088	2124220	1.6289	1.3200 - 1.7800	100.00	73.01	73	0.0000
10	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
11	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
12	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1311262	2111123	1.6100	1.3200 - 1.7800	100.00	73.10	73	0.0000
13	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
14	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		918961	1442171	1.5693	1.3200 - 1.7800	100.00	74.33	74	0.0000
15	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
16	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
17	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		382352	382352	1.0000	0.8500 - 1.1500	10.00	9.33	93	0.0000
18	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1177948	1458933	1.2385	1.0500 - 1.4300	100.00	100.00	100	0.0000
19	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1630945	907652	0.5565	0.4300 - 0.5900	100.00	83.69	84	0.0000
20	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
21	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
22	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1790916	931269	0.5200	0.4300 - 0.5900	100.00	81.19	81	0.0000
23	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
24	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1592633	841686	0.5285	0.4300 - 0.5900	100.00	75.12	75	0.0000
25	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
26	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1596784	846057	0.5299	0.4300 - 0.5900	100.00	78.62	79	0.0000
27	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
28	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		842312	1037555	1.2318	1.0500 - 1.4300	100.00	80.86	81	0.0000
29	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
30	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
31	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		867515	1153014	1.3291	1.0500 - 1.4300	100.00	86.91	87	0.0000
32	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
33	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
34	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1515511	709172	0.4679	0.3700 - 0.5100	100.00	74.71	75	0.0000
35	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
36	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
37	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1405379	616524	0.4387	0.3700 - 0.5100	100.00	73.27	73	0.0000
38	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		975243	949407	0.9735	0.8800 - 1.2000	100.00	81.53	82	0.0000
40	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	9320	9680	1.0385	0.8800 - 1.2000	0.00	0.89	---	0.0000
41	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	19444	19401	0.9978	0.8800 - 1.2000	0.00	1.82	---	0.0000
42	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	10124	9721	0.9602	0.8800 - 1.2000	0.00	0.93	---	0.0000
43	Total Heptachlorodibenzo-p-dioxin__3	Single native HpCDD	CAS# 37871-00-4	9320	9680	1.0385	0.8800 - 1.2000	0.00	0.89	---	0.0000
44	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1745849	1609636	0.9220	0.7600 - 1.0200	200.00	160.11	80	0.0000
45	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
46	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	57199	56503	0.9878	0.7600 - 1.0200	0.00	6.40	---	0.0019
47	overall TEQ	overall TEQ test		66519	66183	0.9949	0.0000 - 0.0000	0.00	7.29	---	0.0019

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

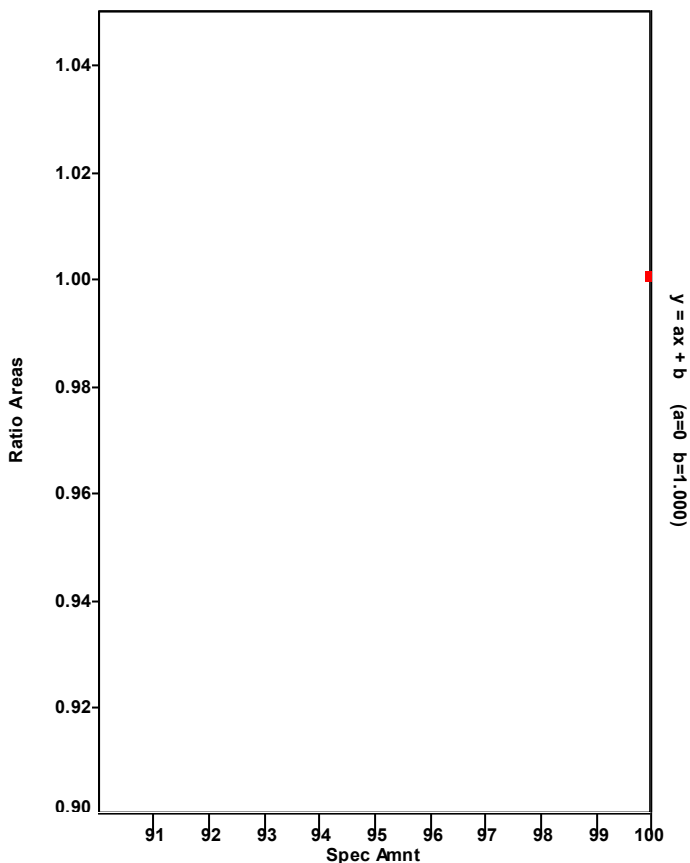


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1880662
RM1 Area	1518384
RM1 Ratio (A)	0.8074
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

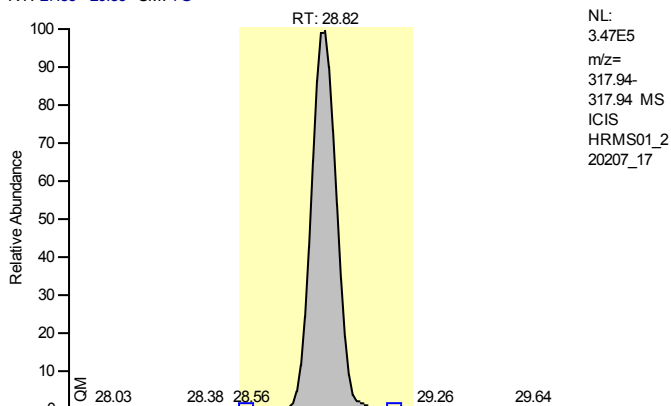
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



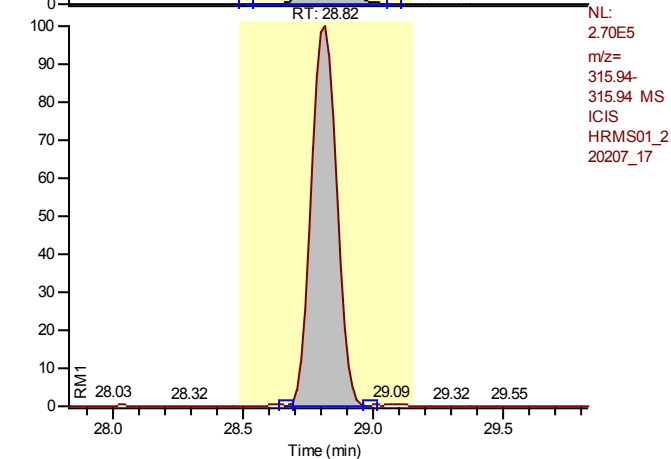
Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G



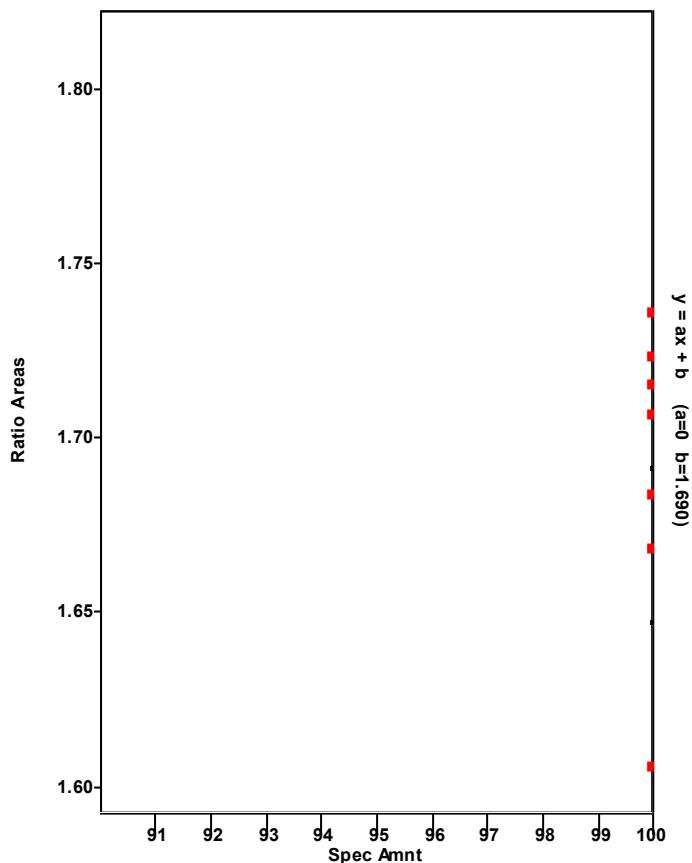
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2329864
RM1 Area	1844470
RM1 Ratio (A)	0.7917
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	72.65
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

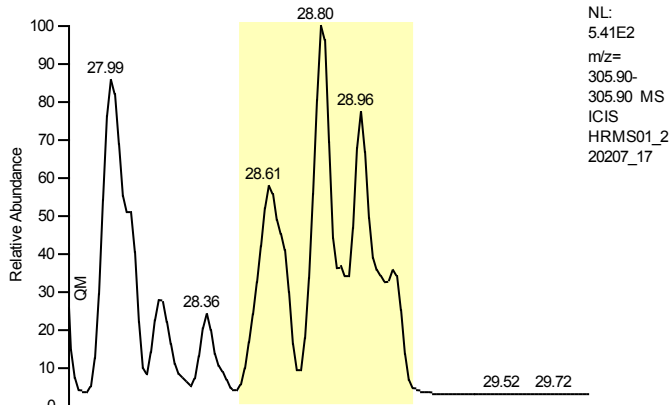
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



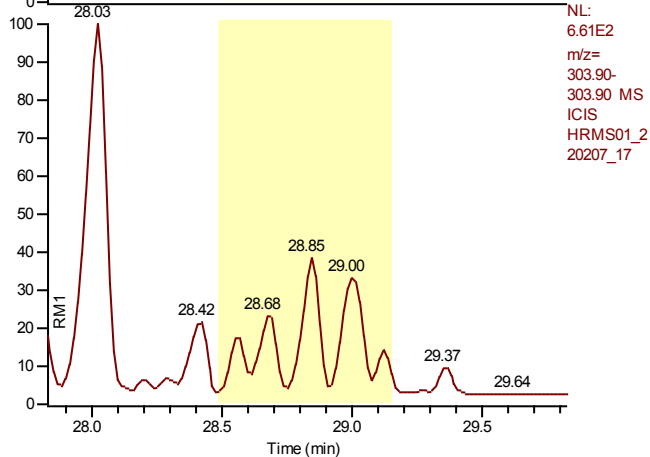
Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G



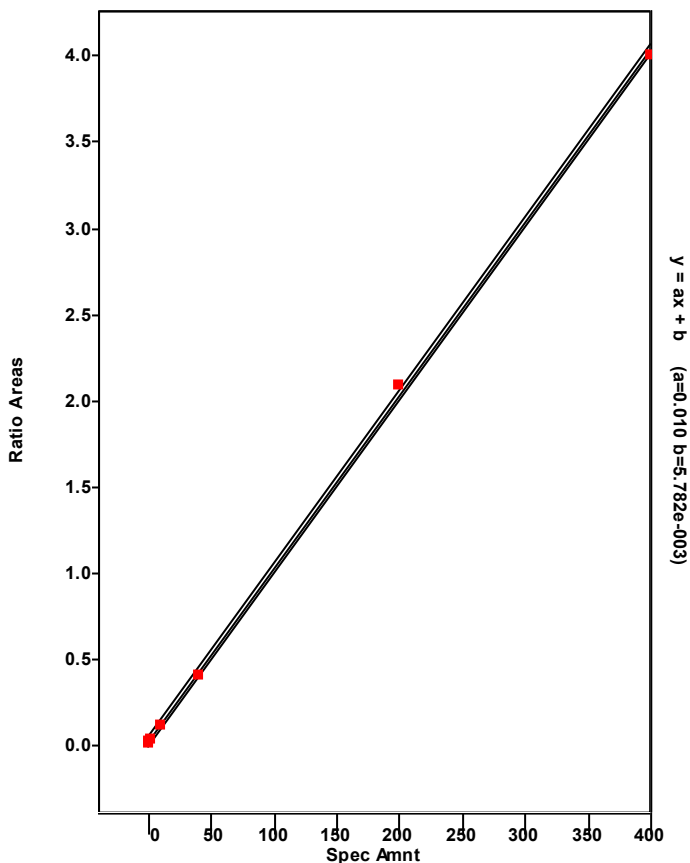
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

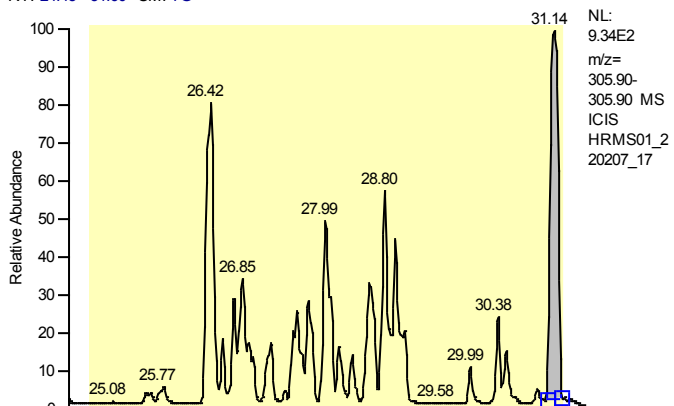
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



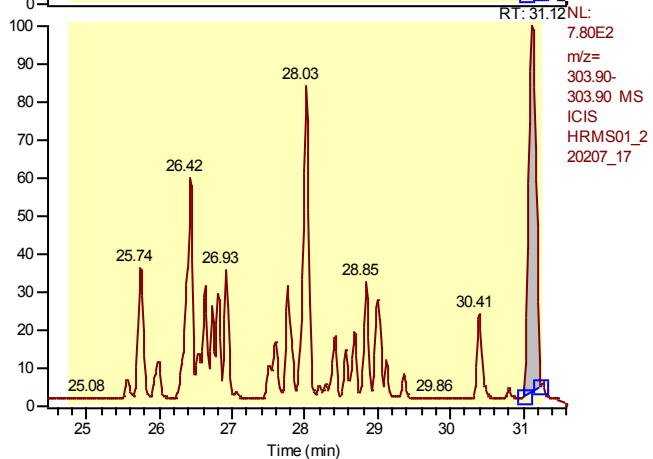
Chromatogram

Entry Parameters

RT: 24.45 - 31.60 SM: 7G



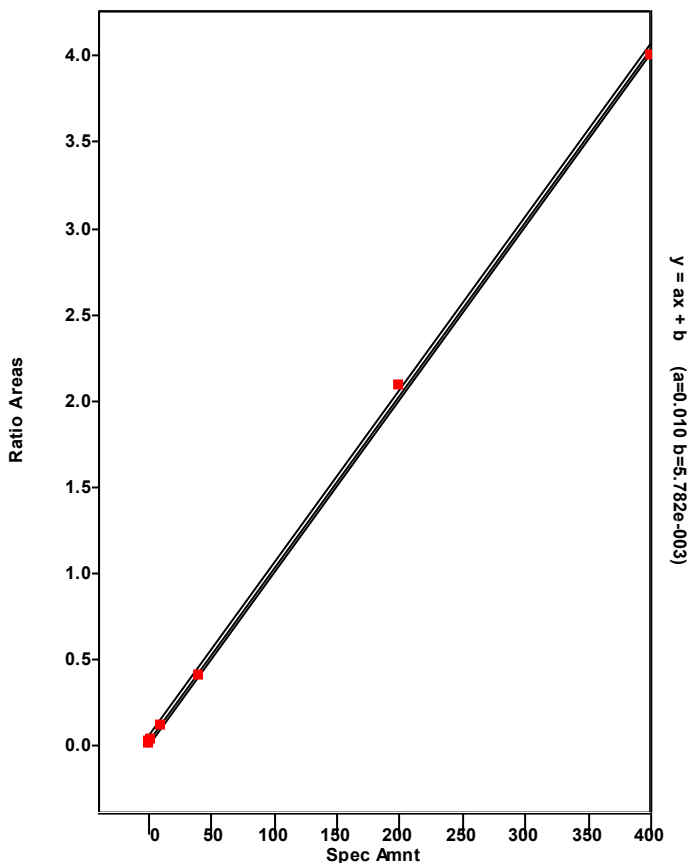
Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	6706
RM1 Area	5273
RM1 Ratio (A)	0.7864
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.28
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

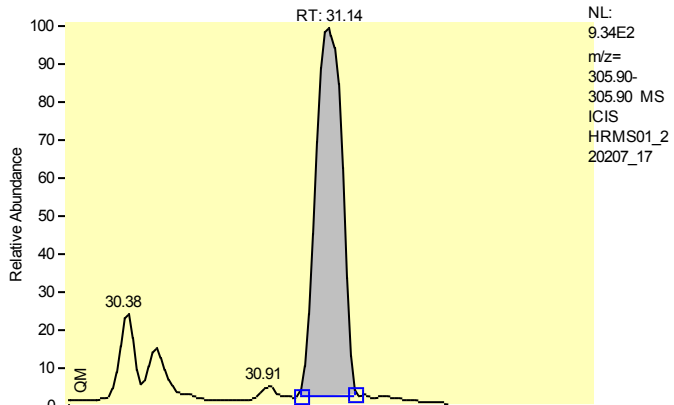
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

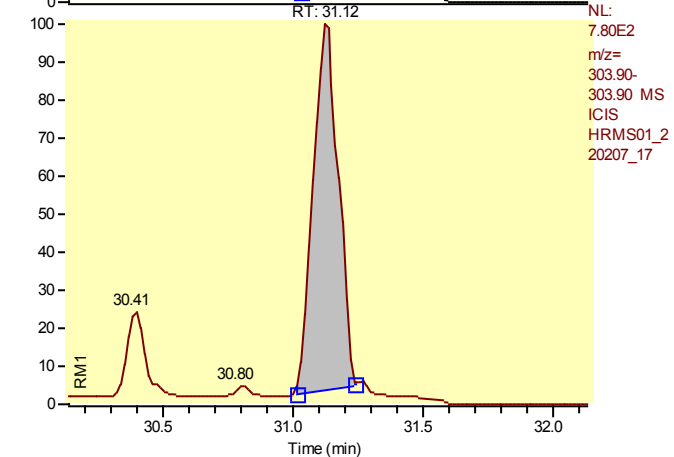
Entry Parameters

RT: 30.14 - 32.14 SM: 7G



NL:
9.34E2
m/z=
305.90-
305.90 MS
ICIS
HRMS01_2
20207_17

Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	6706
RM1 Area	5273
RM1 Ratio (A)	0.7864
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.28
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

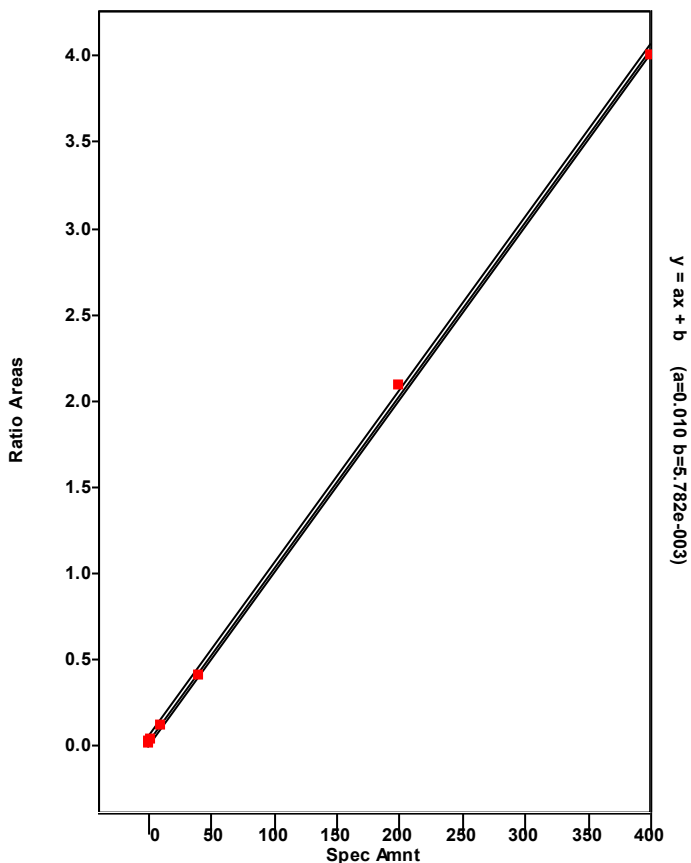


NL:
7.80E2
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20207_17

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

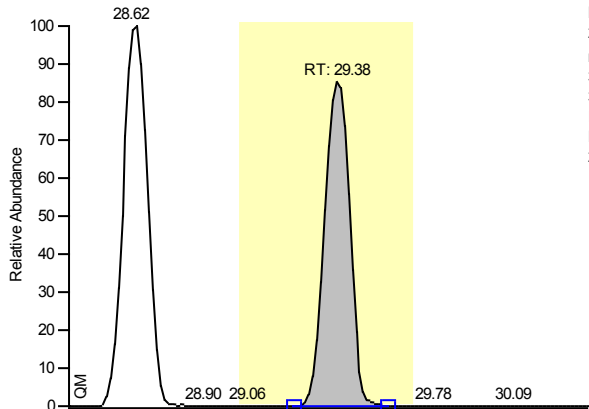
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

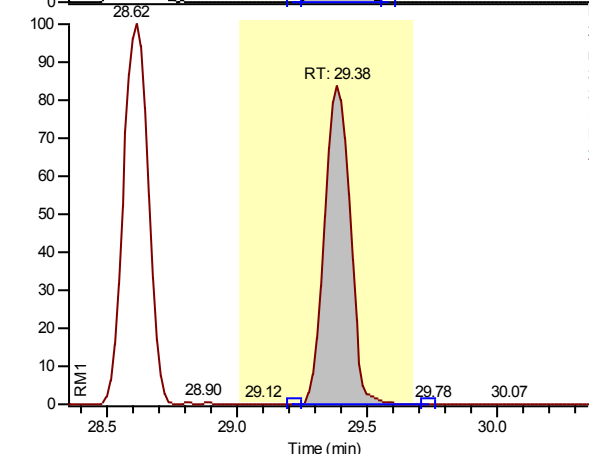
Entry Parameters

RT: 28.35 - 30.35 SM: 7G



NL:
 2.78E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1621619
RM1 Area	1278675
RM1 Ratio (A)	0.7885
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	71.86
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

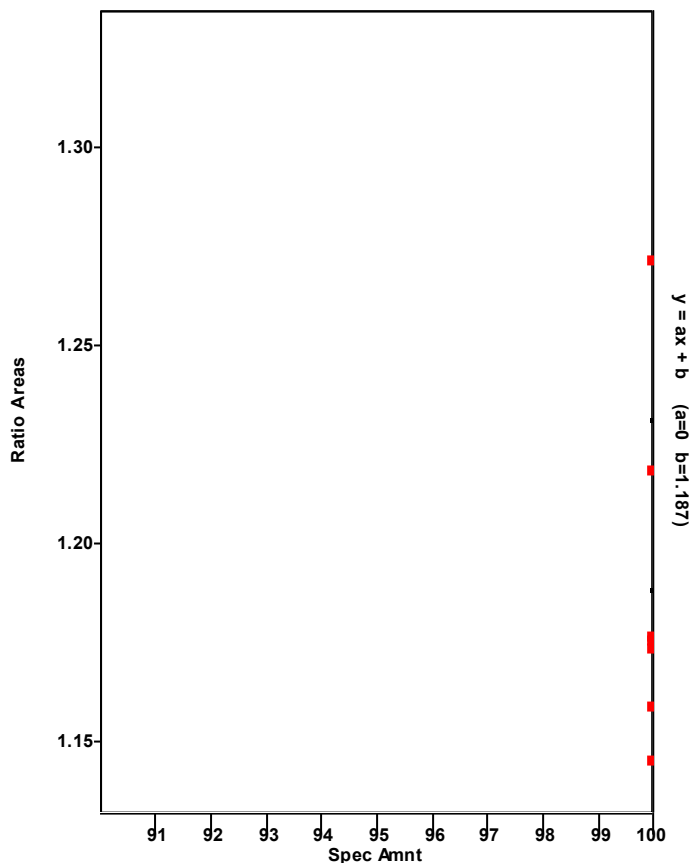


NL:
 2.20E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_17

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

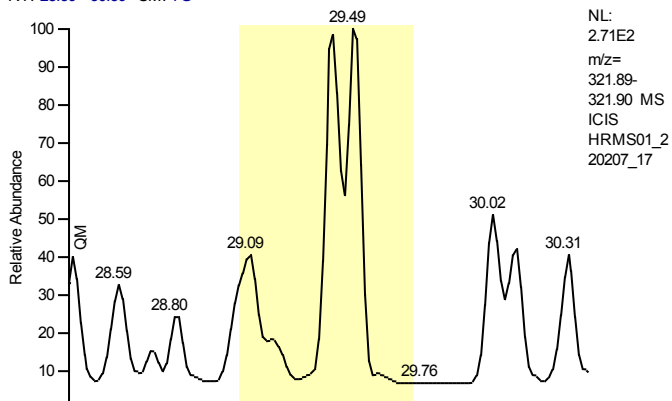
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



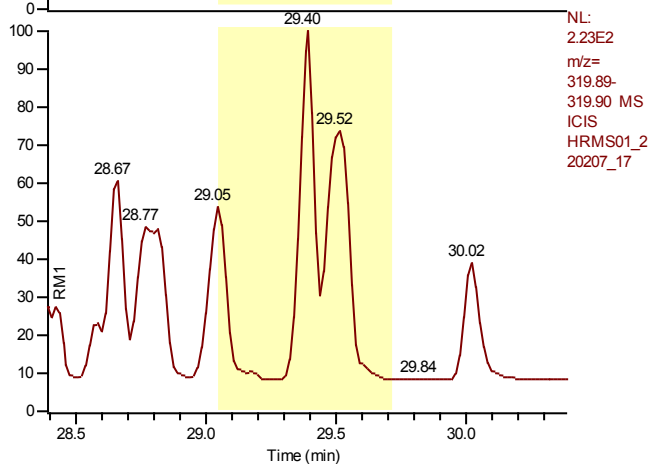
Chromatogram

Entry Parameters

RT: 28.39 - 30.39 SM: 7G



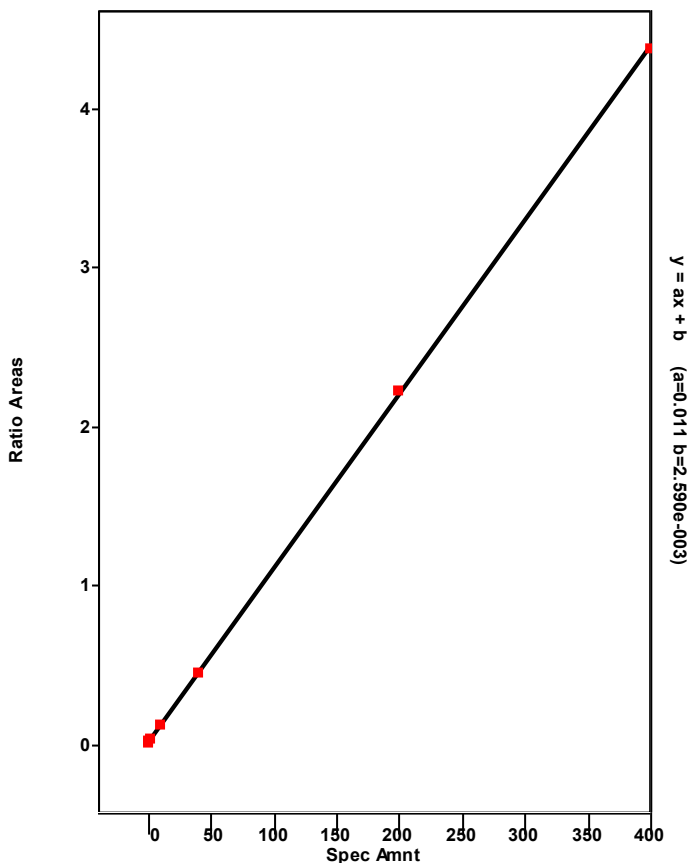
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

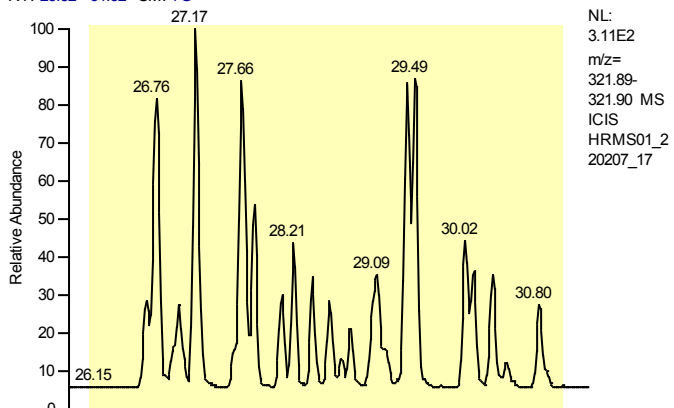
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



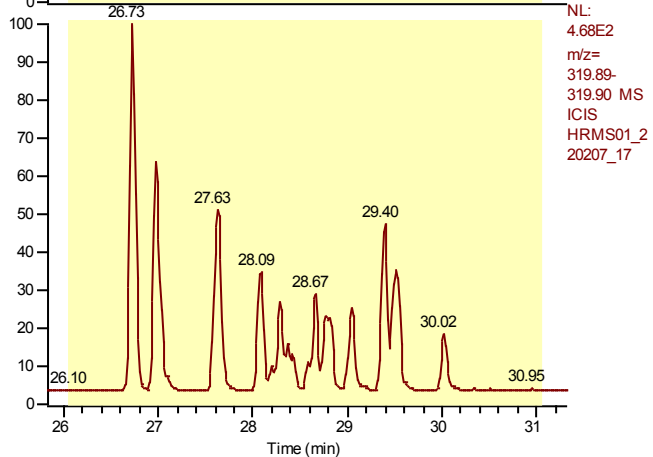
Chromatogram

Entry Parameters

RT: 25.82 - 31.32 SM: 7G



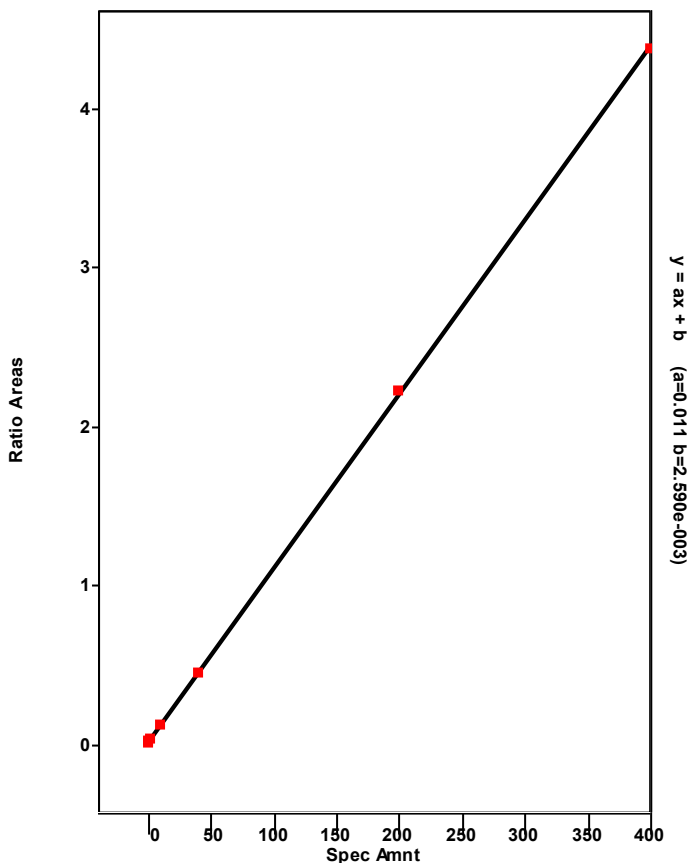
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

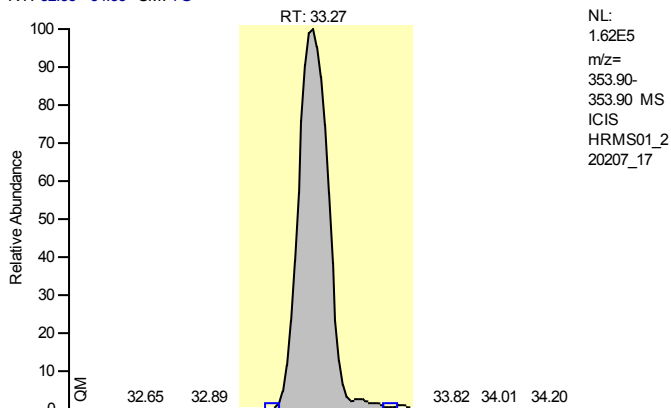
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



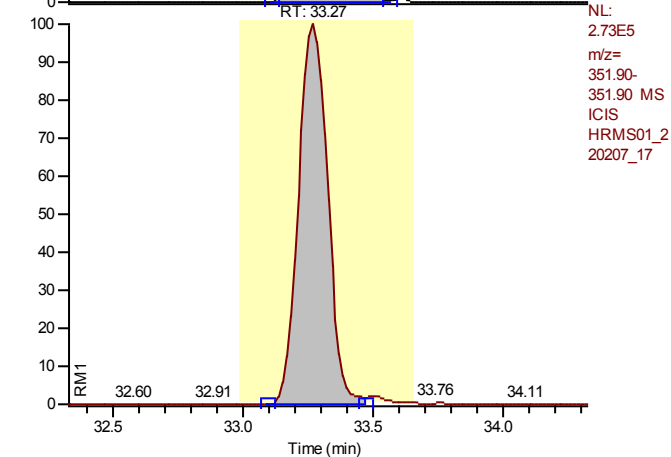
Chromatogram

Entry Parameters

RT: 32.33 - 34.33 SM: 7G



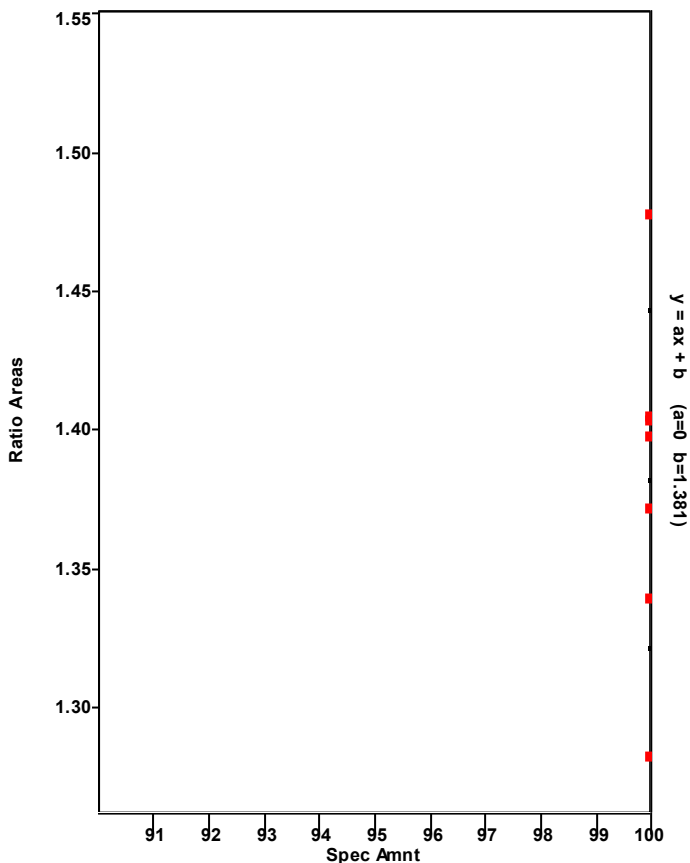
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1304088
RM1 Area	2124220
RM1 Ratio (A)	1.6289
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	73.01
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

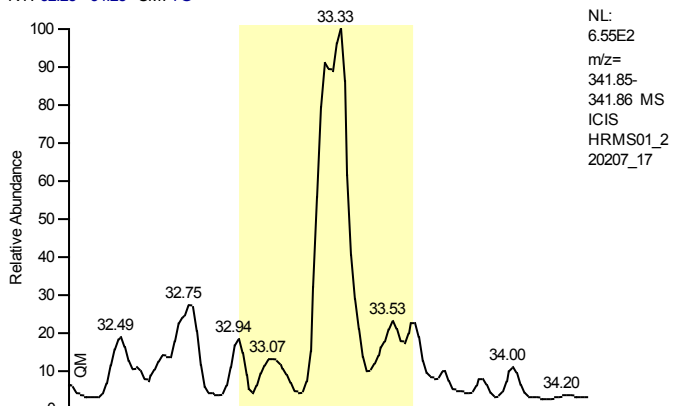
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



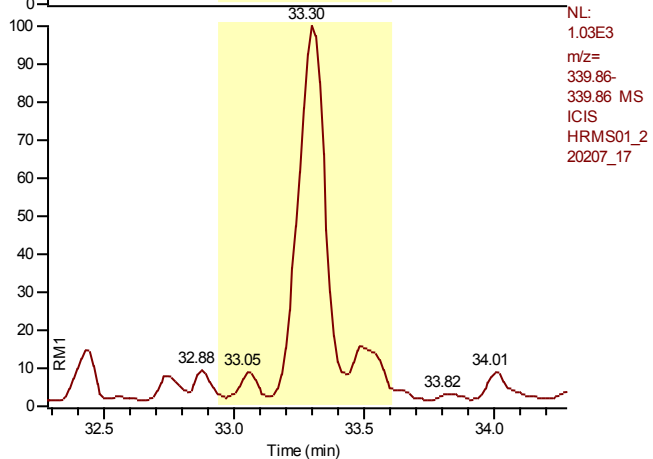
Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G



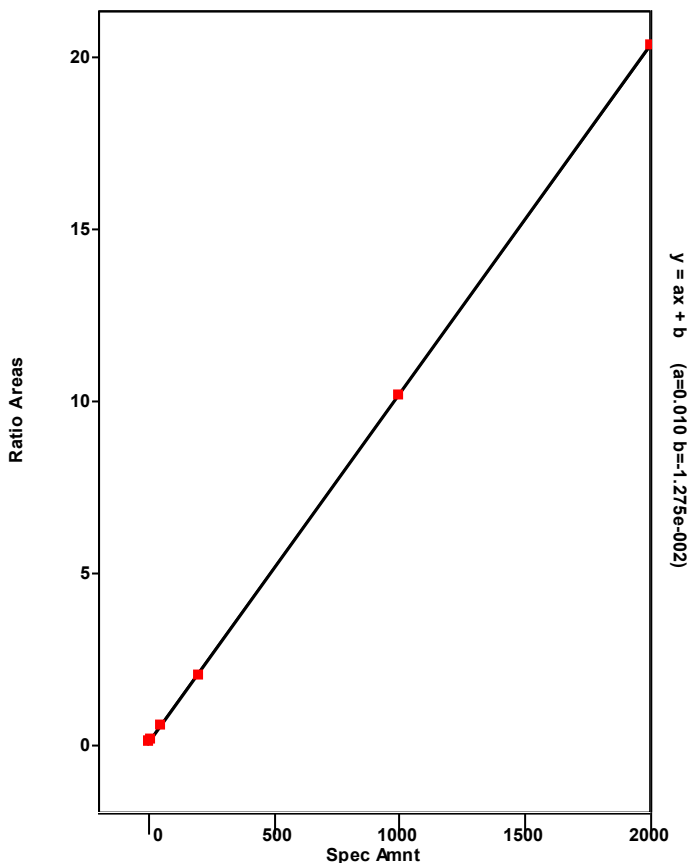
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

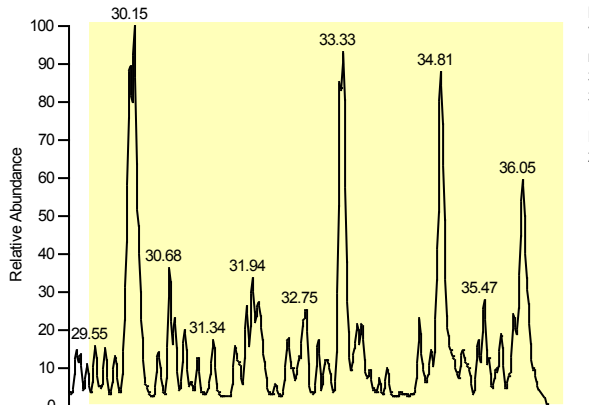
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

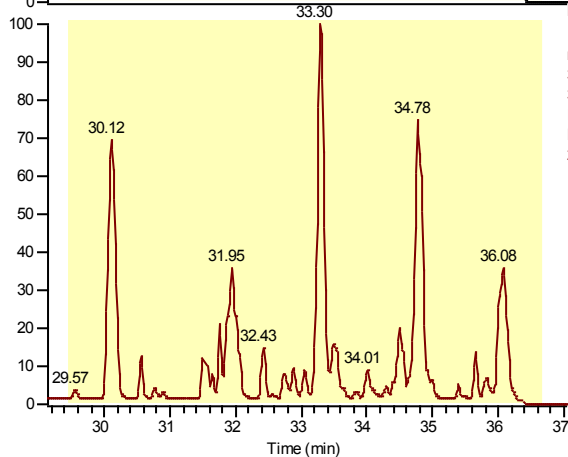
Entry Parameters

RT: 29.13 - 37.05 SM: 7G



NL:
 7.01E2
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

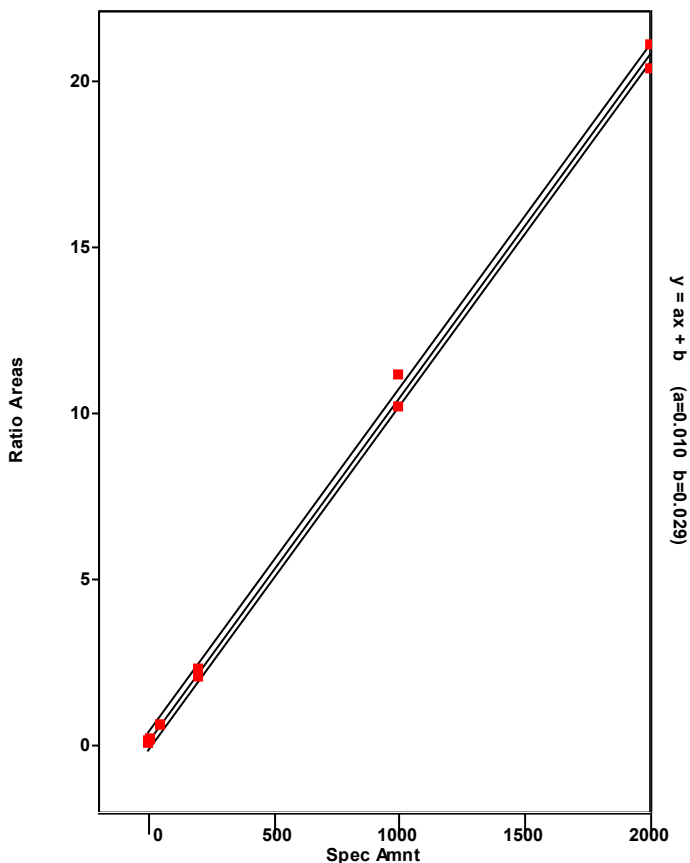


NL:
 1.03E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_17

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

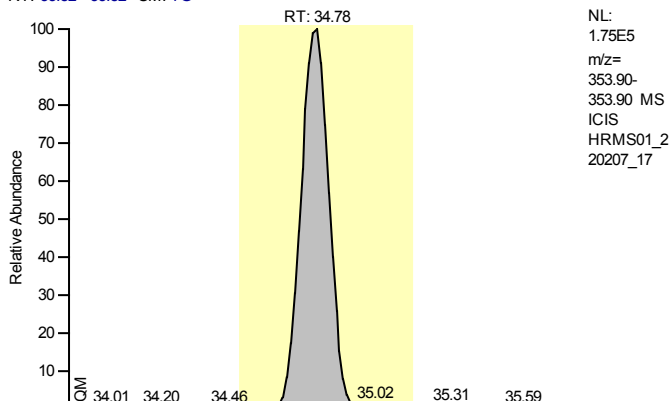
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



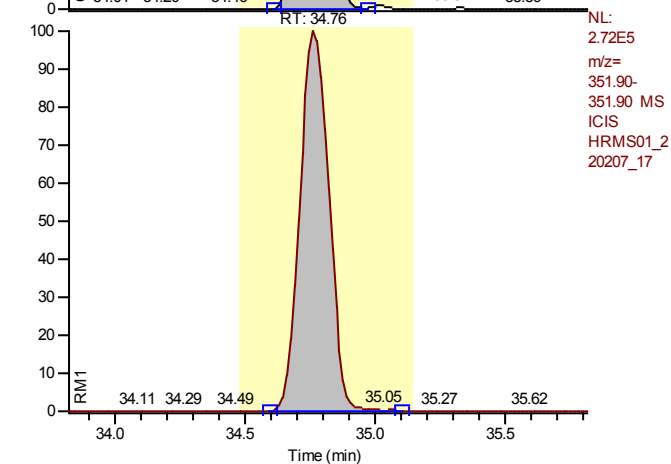
Chromatogram

Entry Parameters

RT: 33.82 - 35.82 SM: 7G



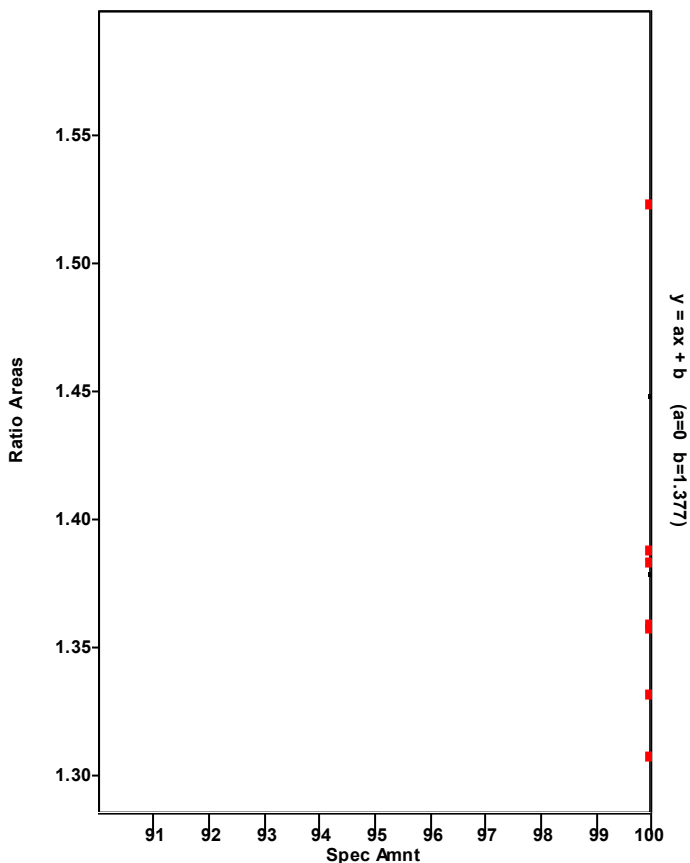
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1311262
RM1 Area	2111123
RM1 Ratio (A)	1.6100
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	73.10
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

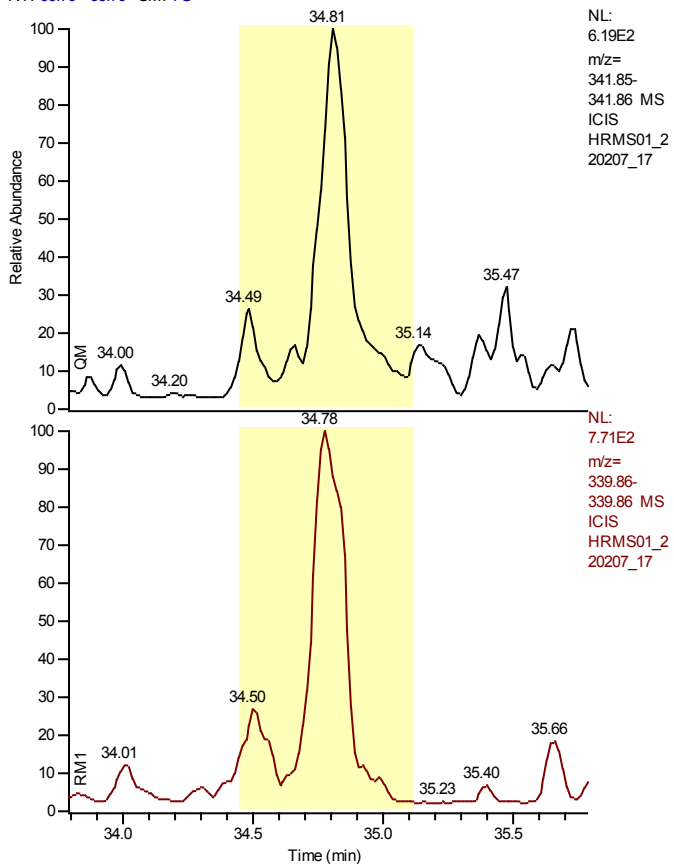
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.79 - 35.79 SM: 7G

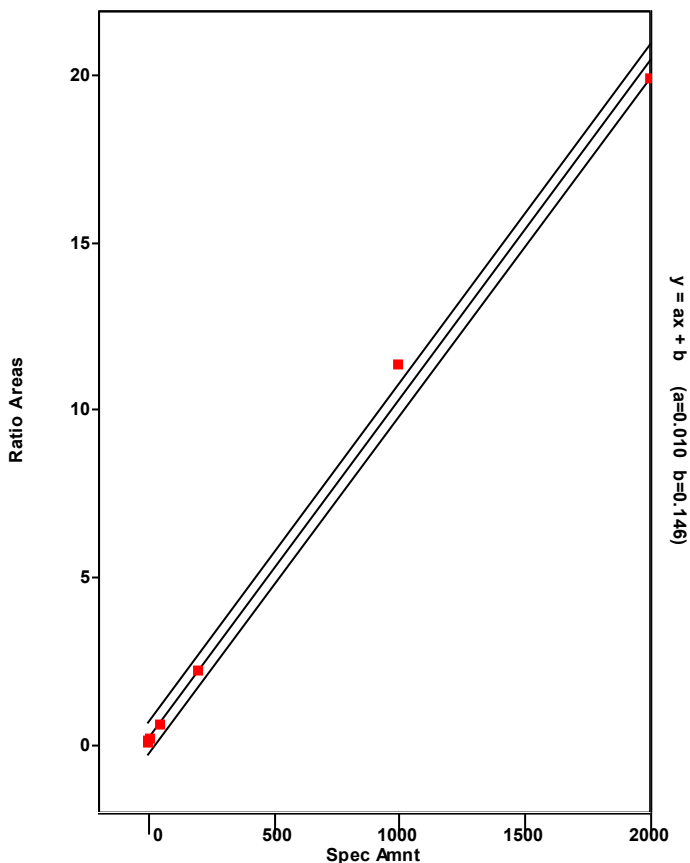


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

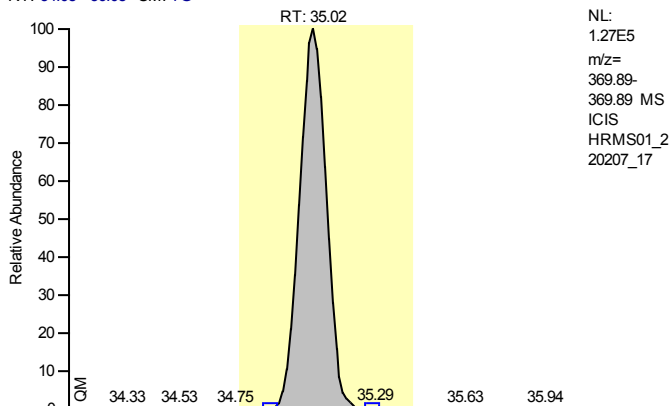
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



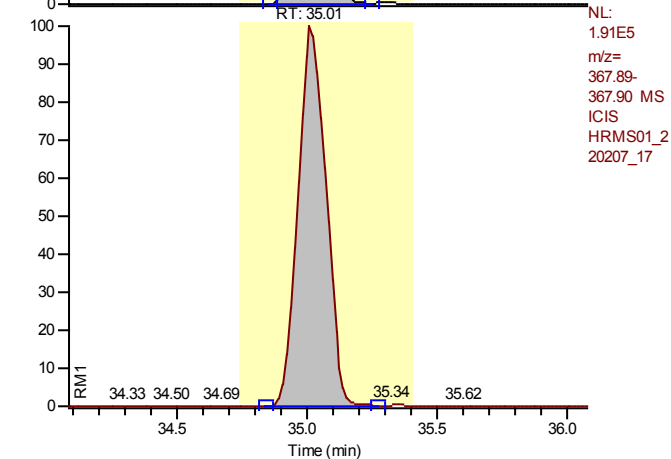
Chromatogram

Entry Parameters

RT: 34.08 - 36.08 SM: 7G



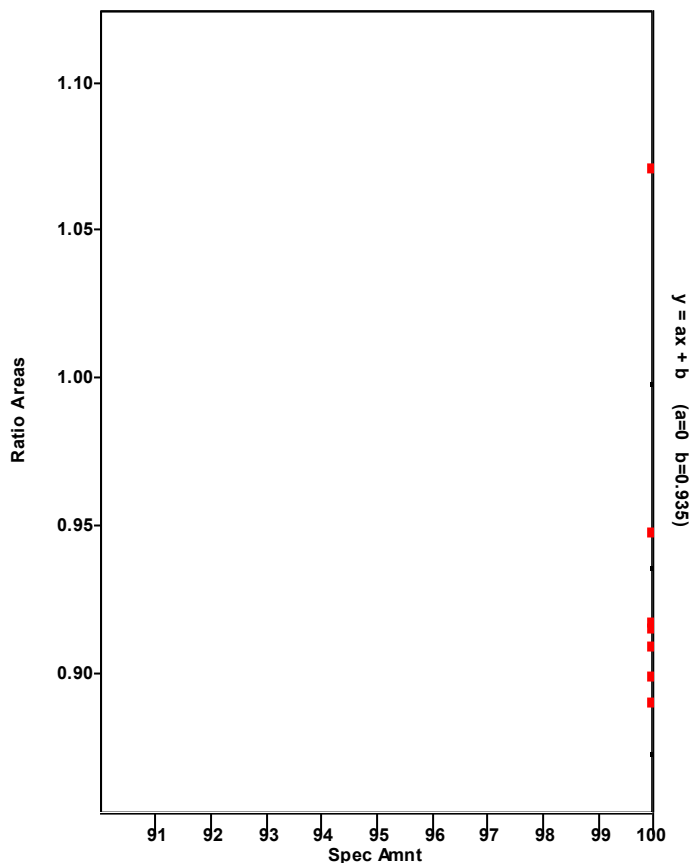
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	918961
RM1 Area	1442171
RM1 Ratio (A)	1.5693
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	74.33
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

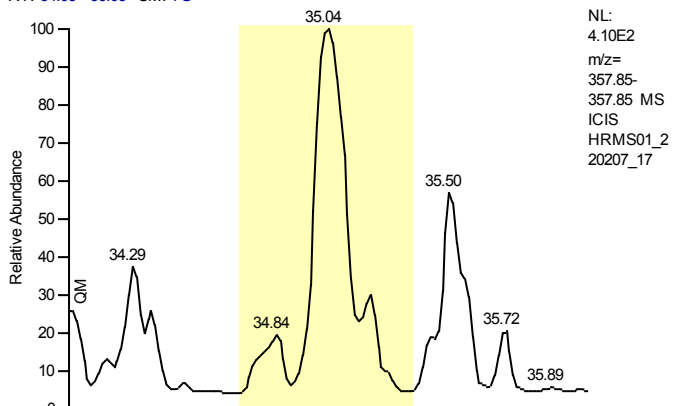
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



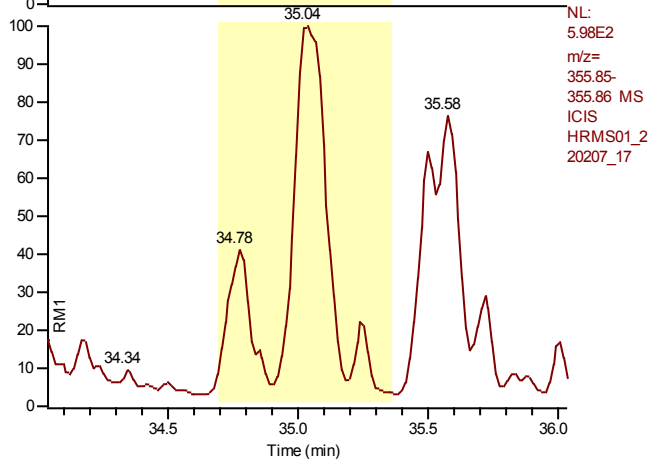
Chromatogram

Entry Parameters

RT: 34.03 - 36.03 SM: 7G



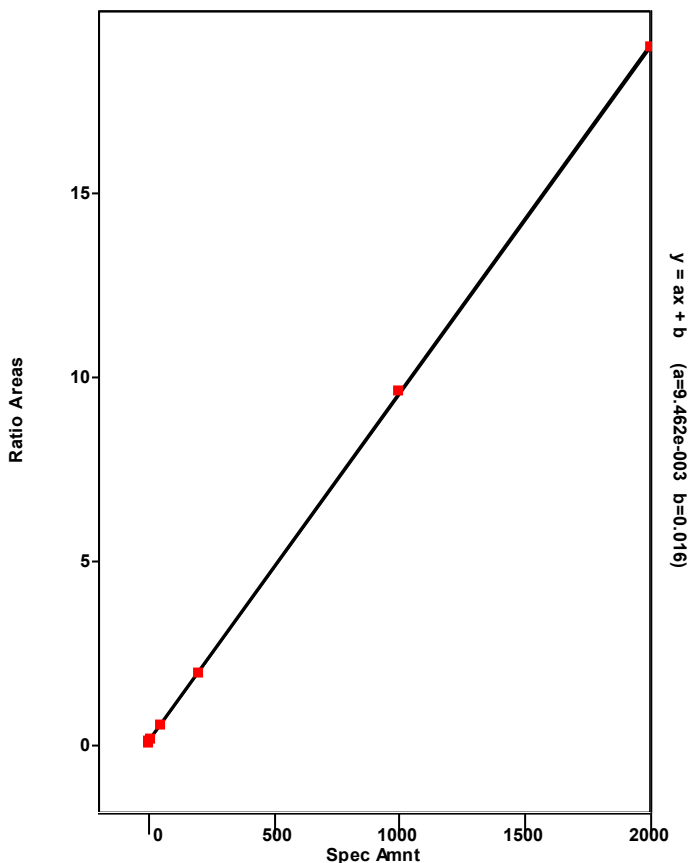
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

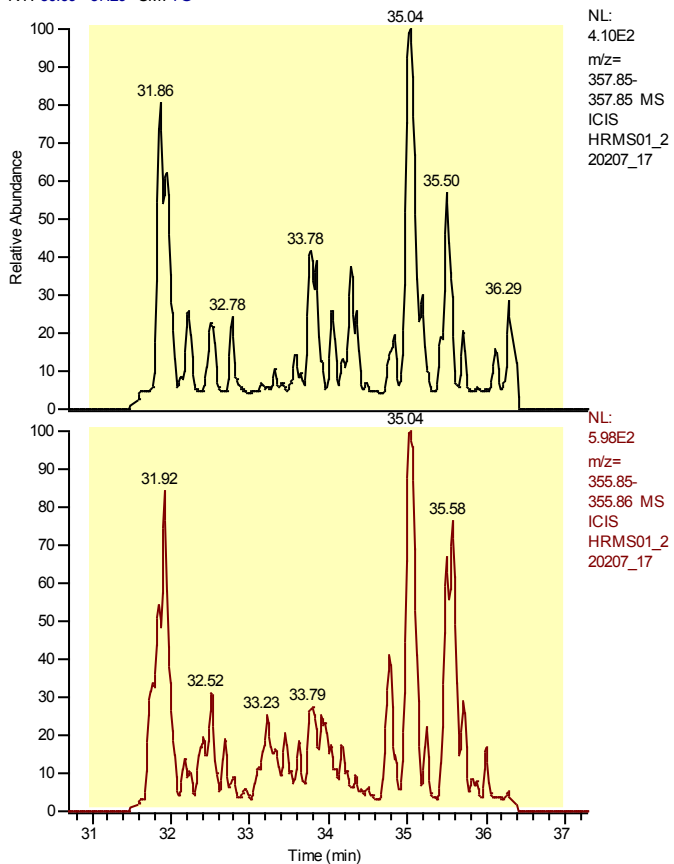
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.69 - 37.29 SM: 7G

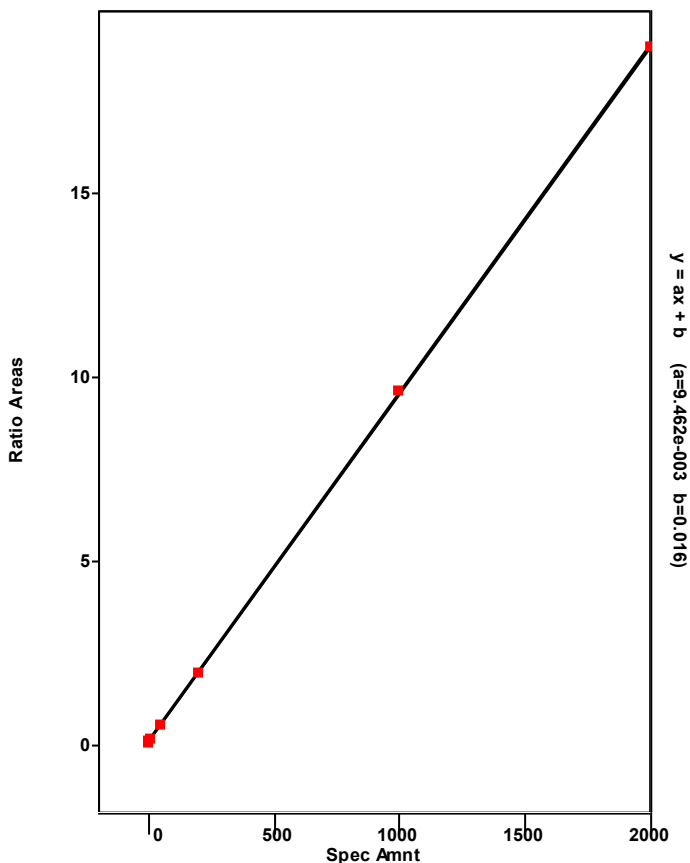


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

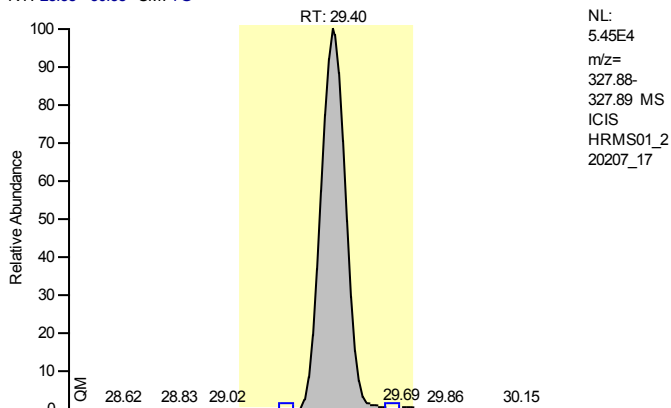
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



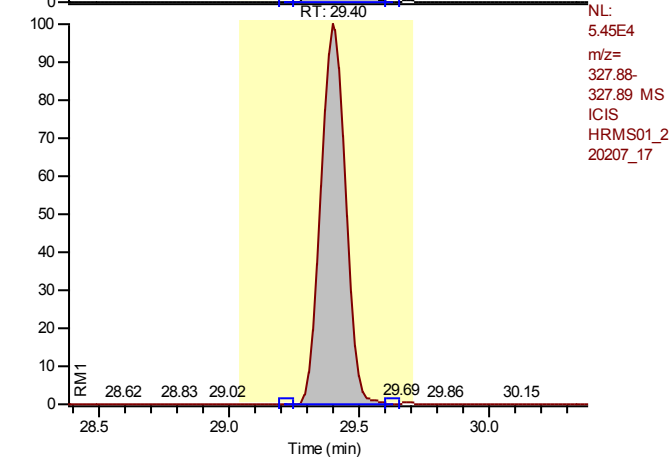
Chromatogram

Entry Parameters

RT: 28.38 - 30.38 SM: 7G



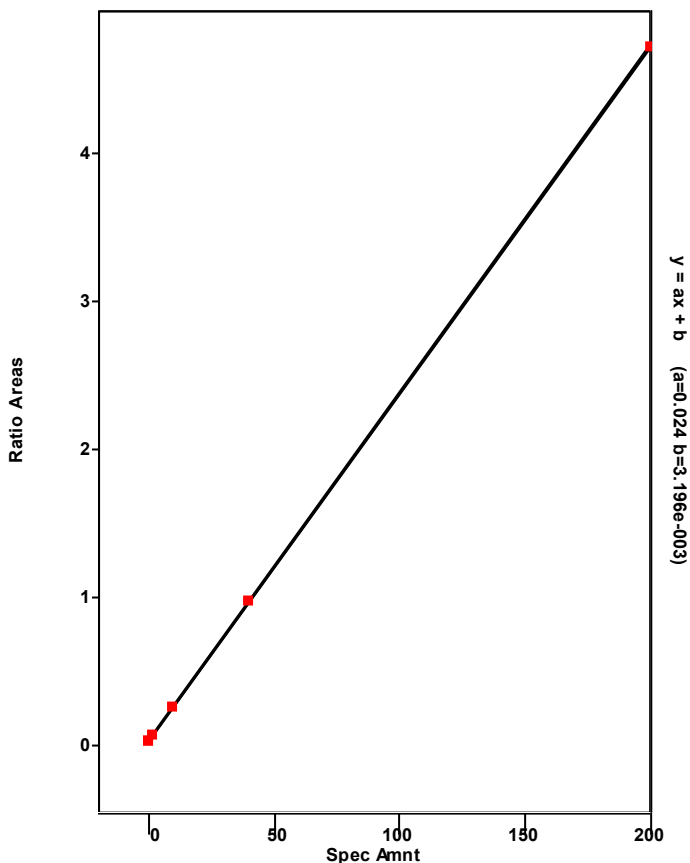
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	382352
RM1 Area	382352
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.33
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

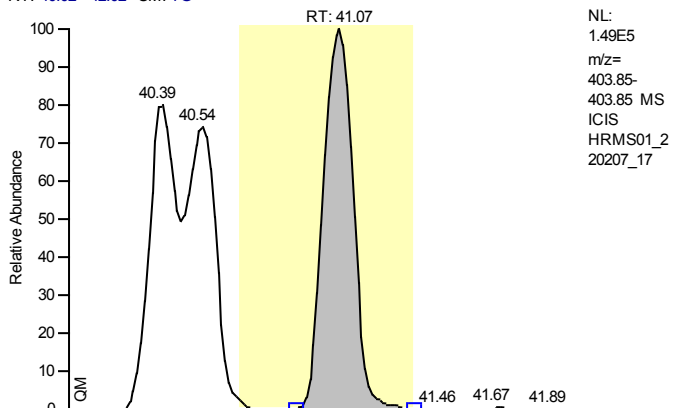
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

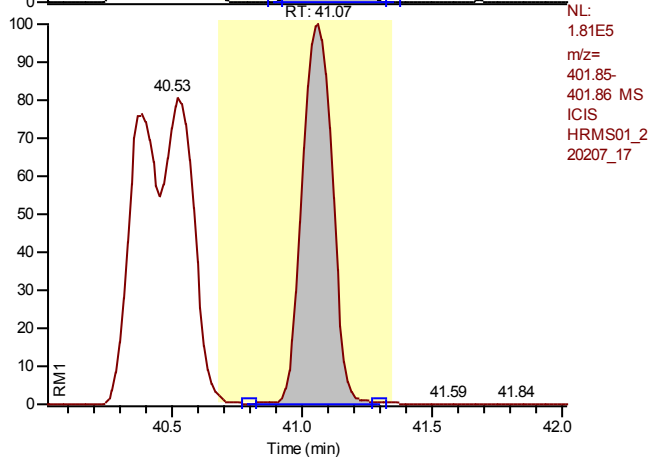
Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
 1.49E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1177948
RM1 Area	1458933
RM1 Ratio (A)	1.2385
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

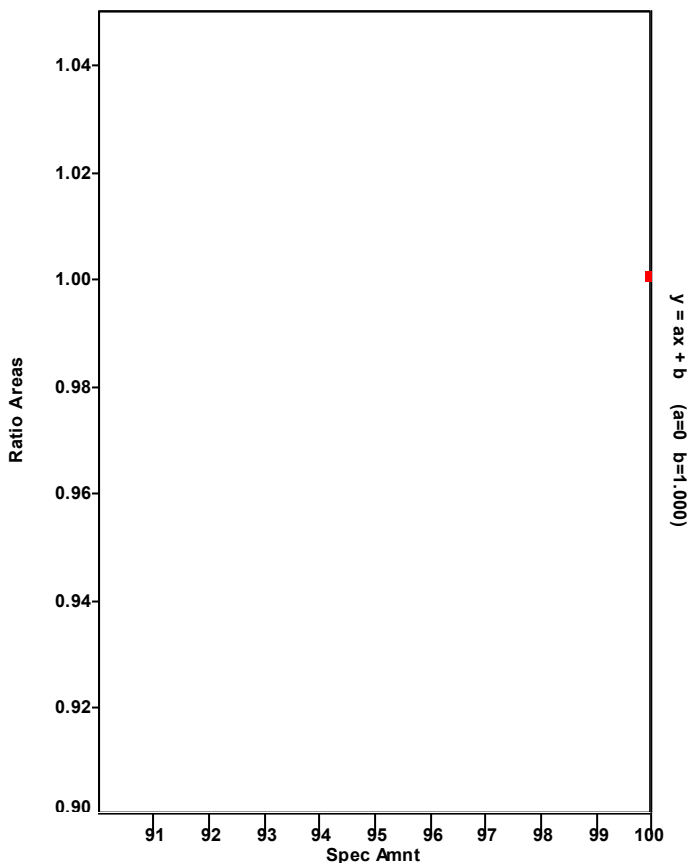


NL:
 1.81E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_17

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

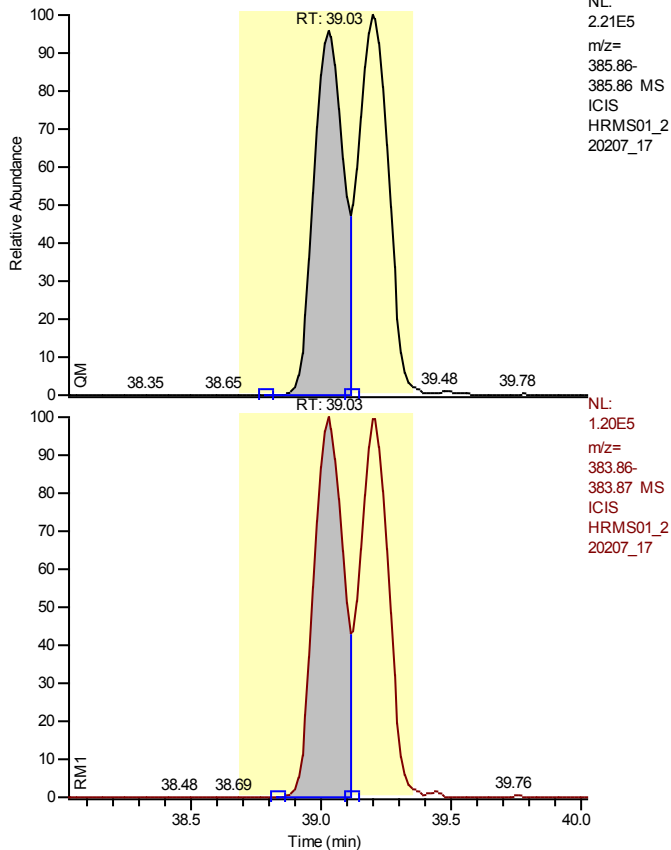
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.03 - 40.03 SM: 7G



NL:
 2.21E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_17

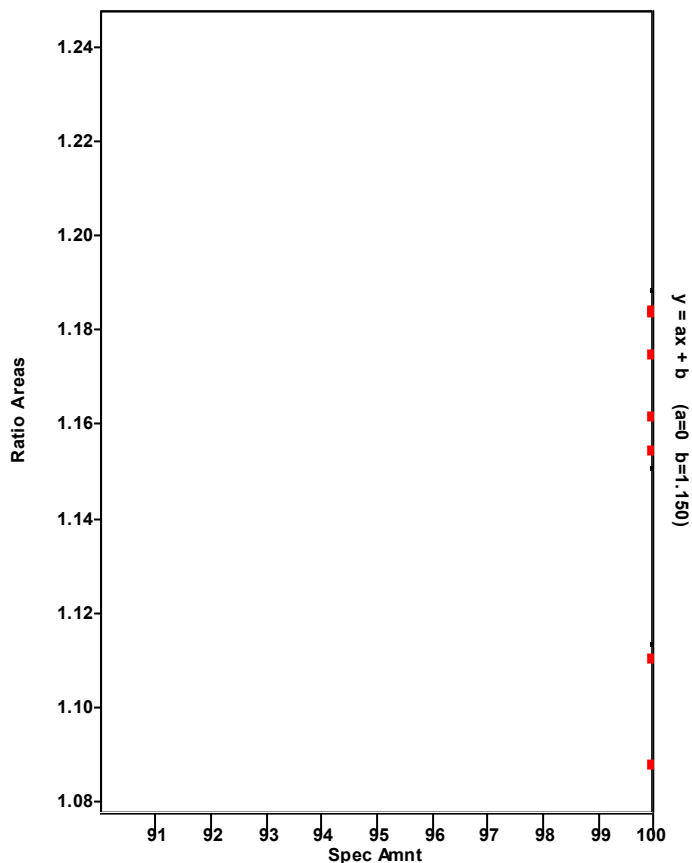
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1630945
RM1 Area	907652
RM1 Ratio (A)	0.5565
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	83.69
Percent Recovery (A)	84
TEQ (A)	0.0000
Label2	

NL:
 1.20E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_17

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

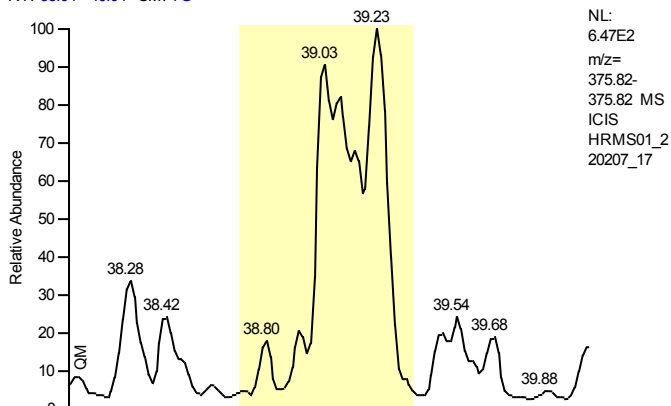
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



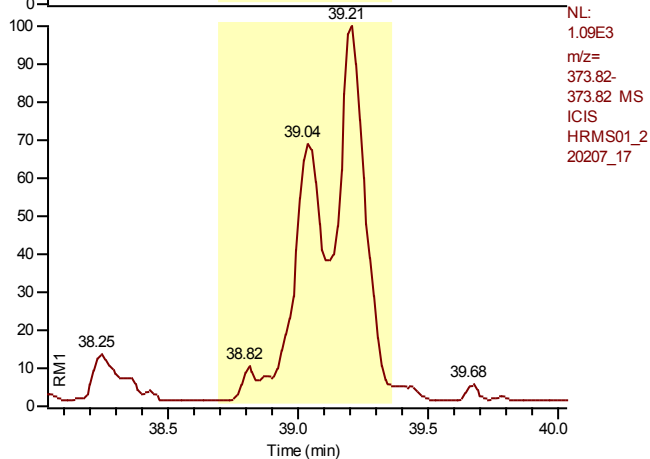
Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



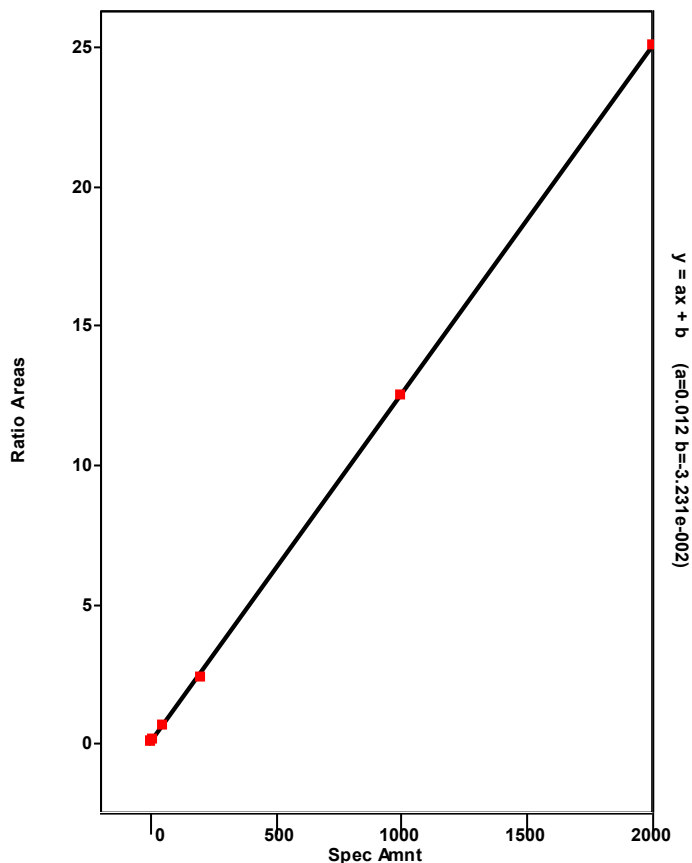
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

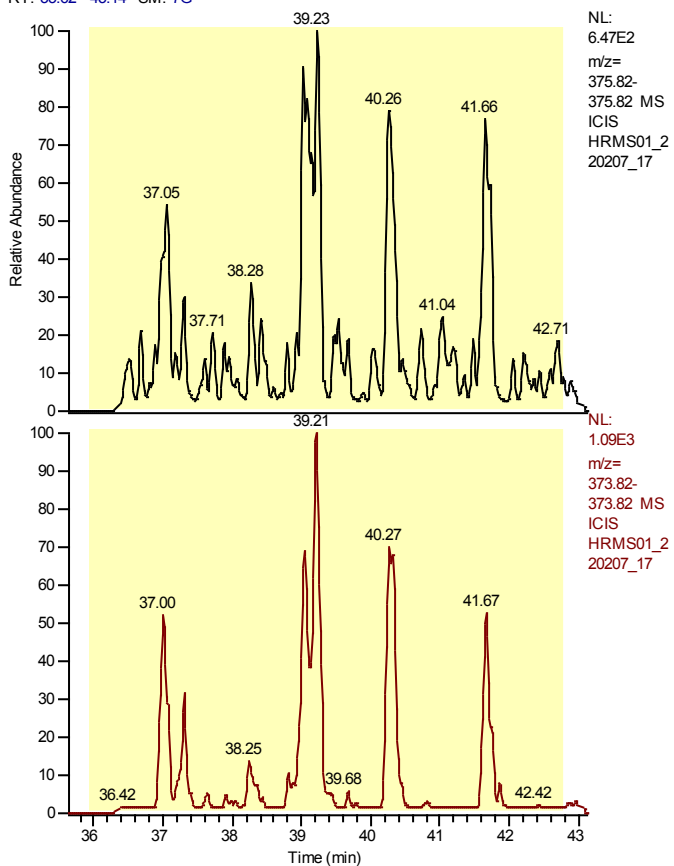
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.62 - 43.14 SM: 7G

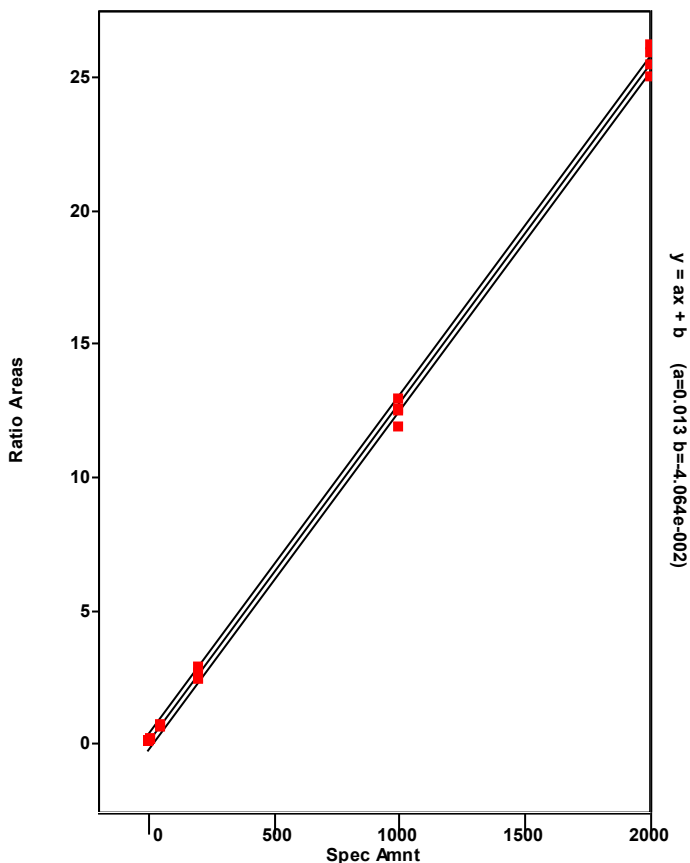


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

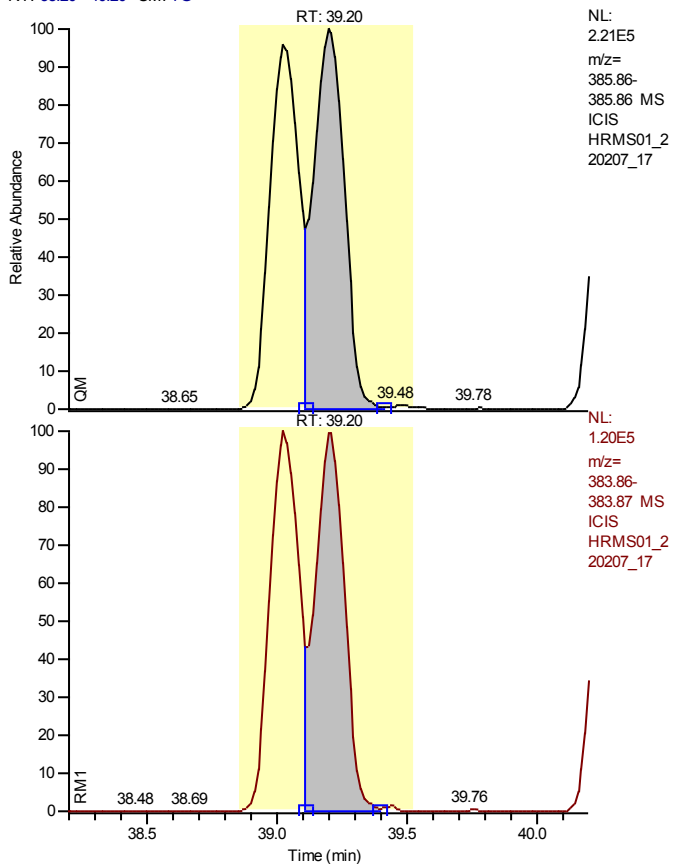
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.20 - 40.20 SM: 7G

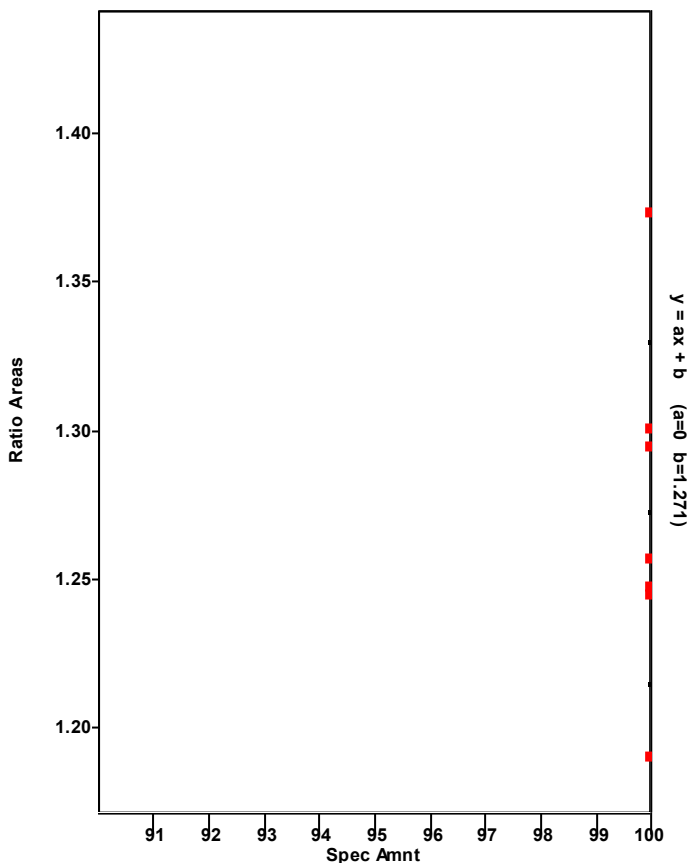


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1790916
RM1 Area	931269
RM1 Ratio (A)	0.5200
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	81.19
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

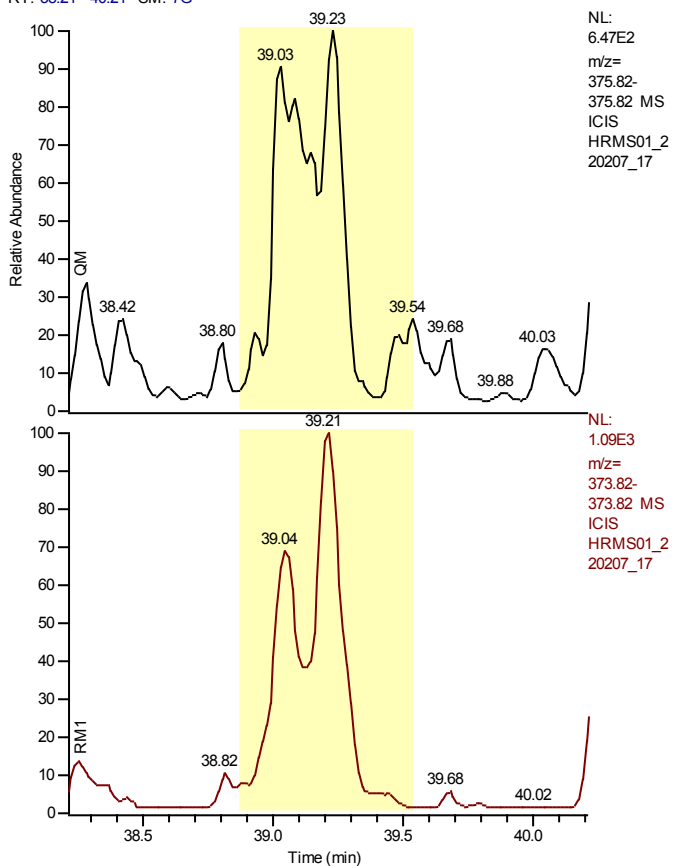
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.21 - 40.21 SM: 7G



NL:
 6.47E2
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_17

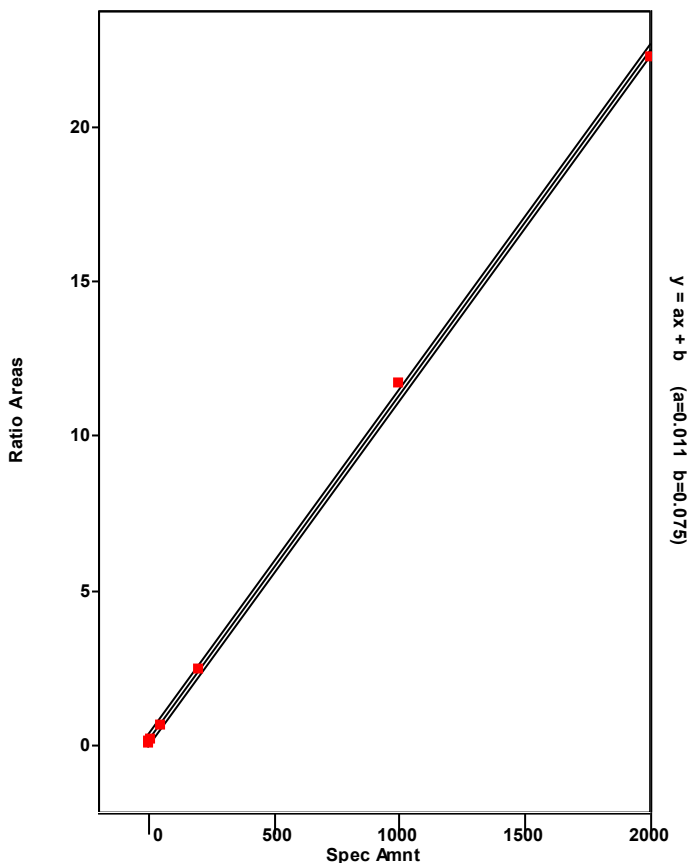
NL:
 1.09E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

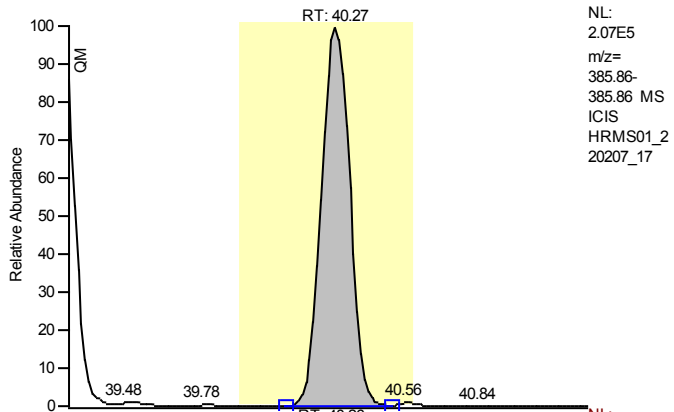
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

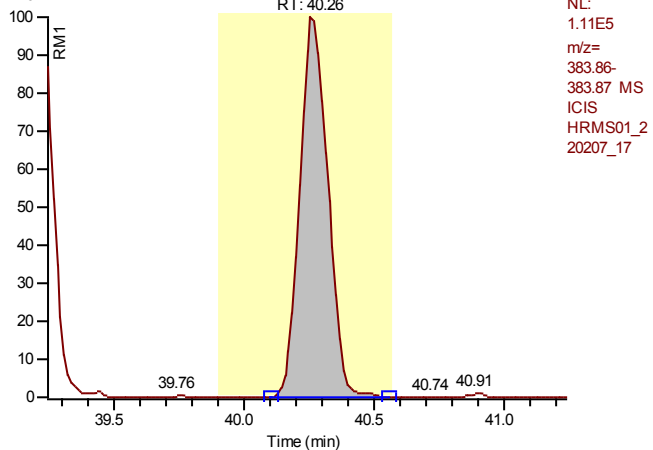
Entry Parameters

RT: 39.24 - 41.24 SM: 7G



NL:
 2.07E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1592633
RM1 Area	841686
RM1 Ratio (A)	0.5285
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	75.12
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	

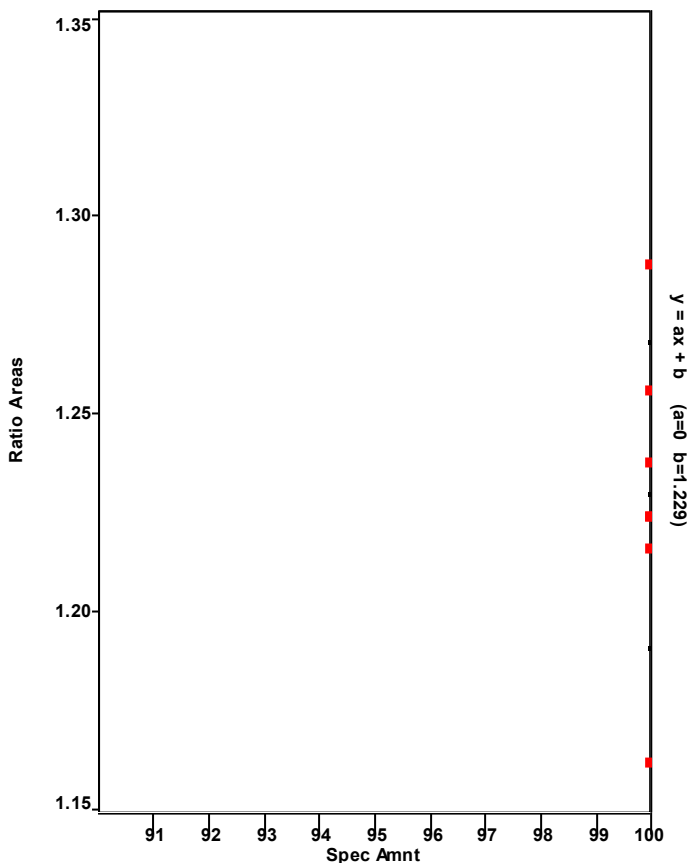


NL:
 1.11E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_17

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

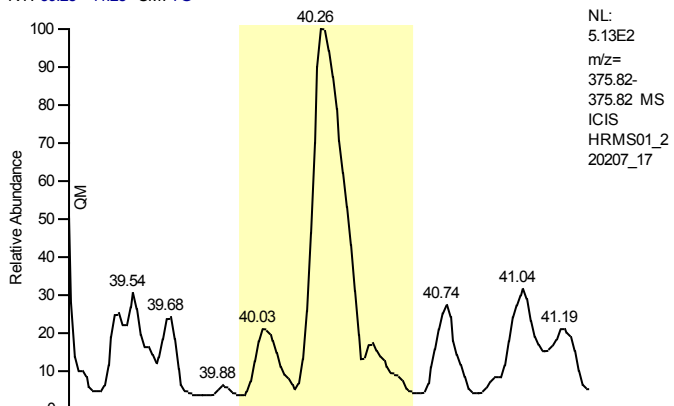
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



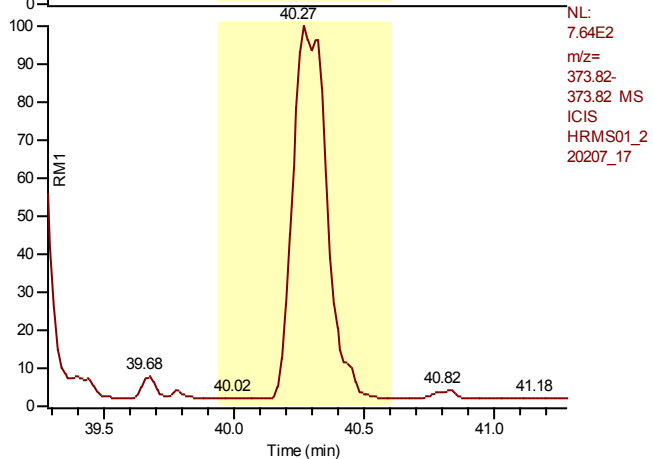
Chromatogram

Entry Parameters

RT: 39.28 - 41.28 SM: 7G



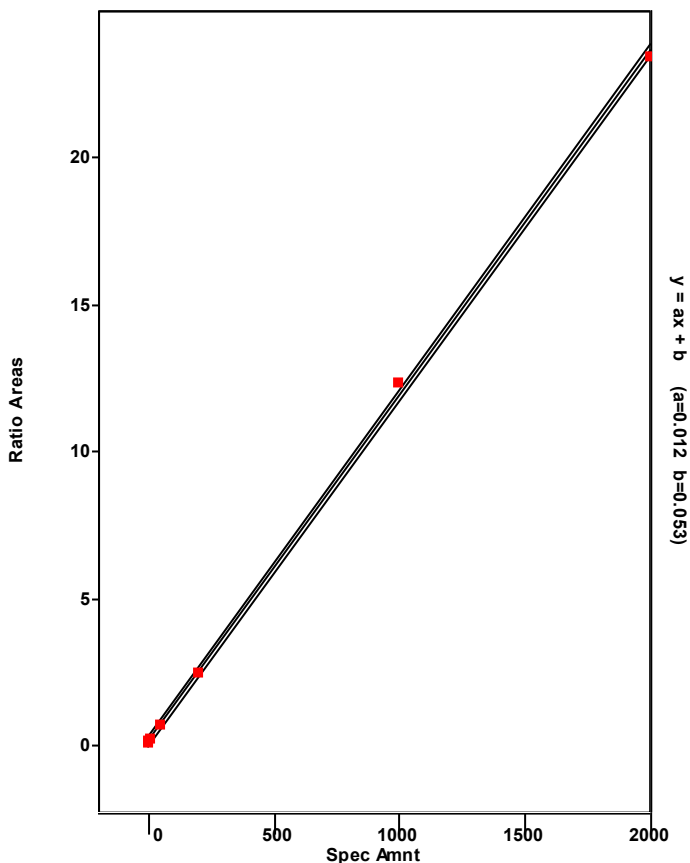
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

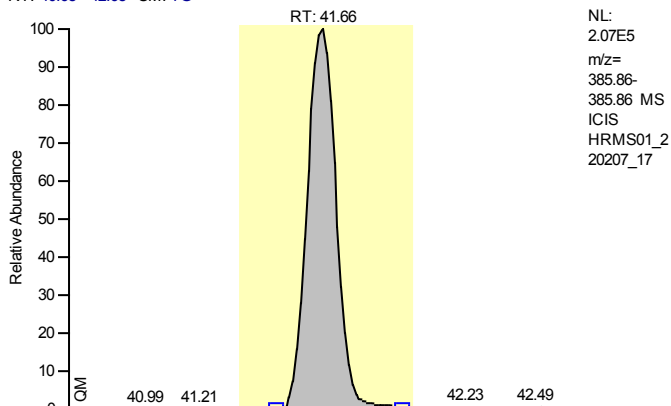
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



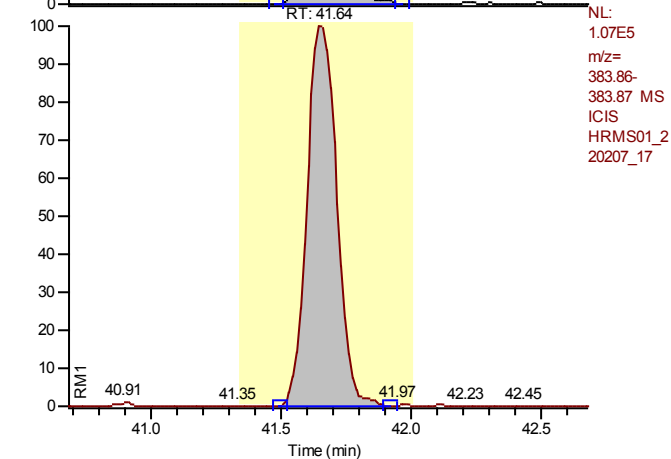
Chromatogram

Entry Parameters

RT: 40.68 - 42.68 SM: 7G



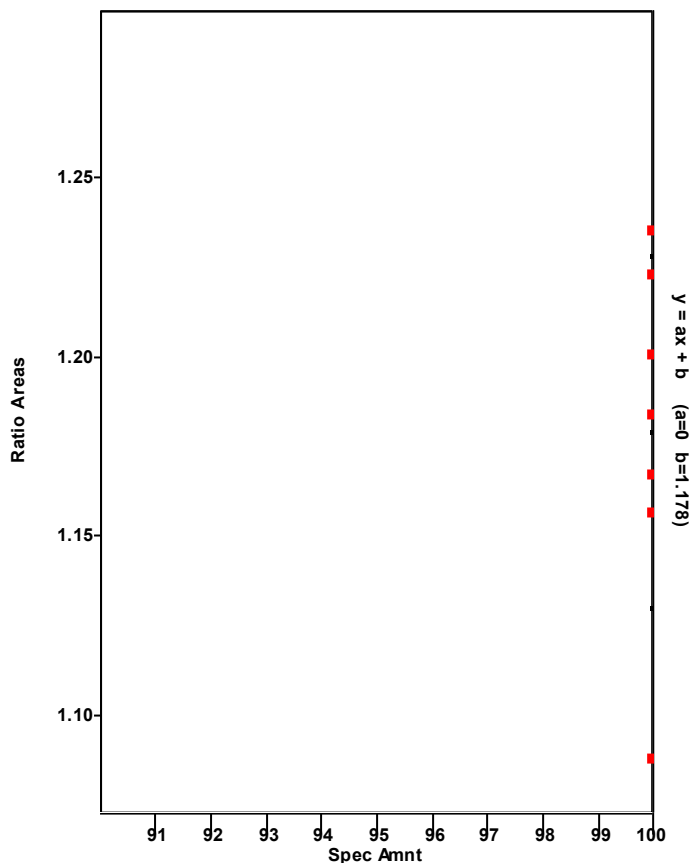
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1596784
RM1 Area	846057
RM1 Ratio (A)	0.5299
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	78.62
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

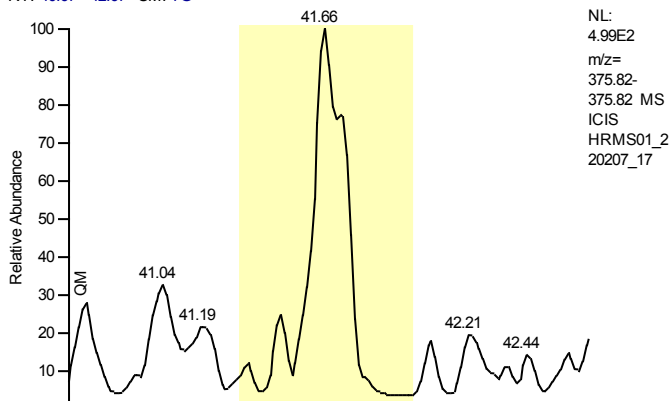
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



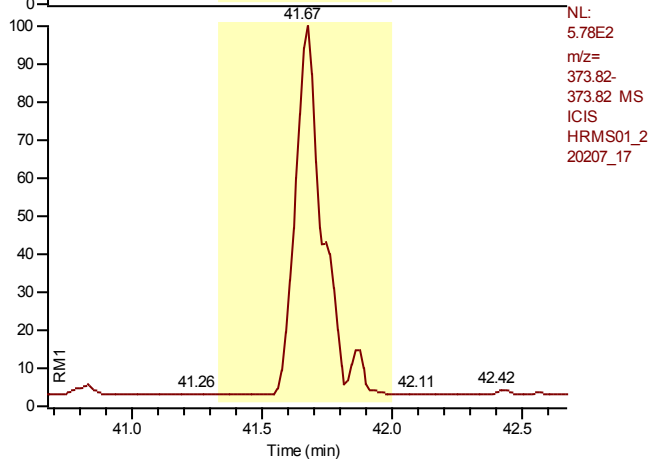
Chromatogram

Entry Parameters

RT: 40.67 - 42.67 SM: 7G



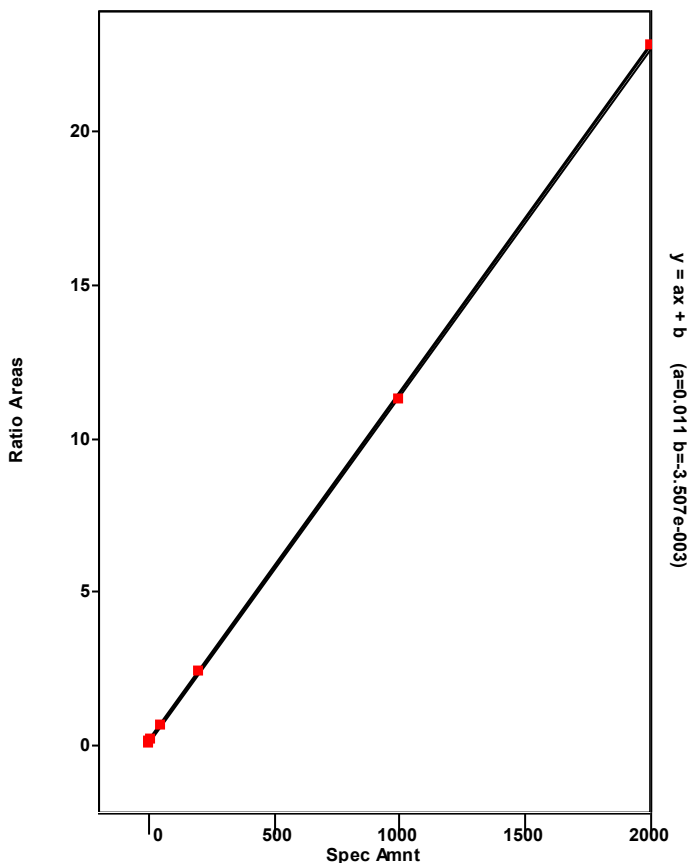
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

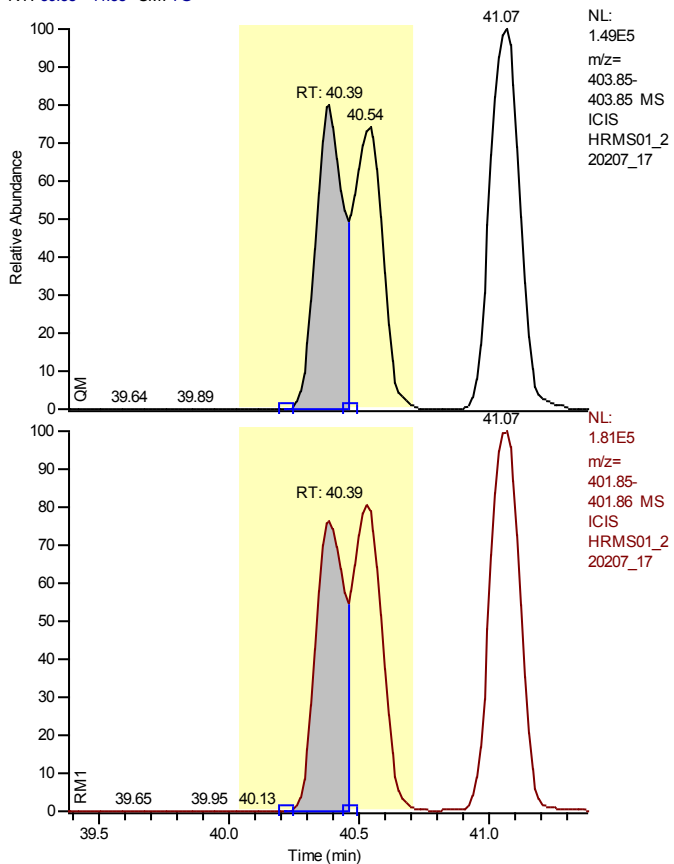
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

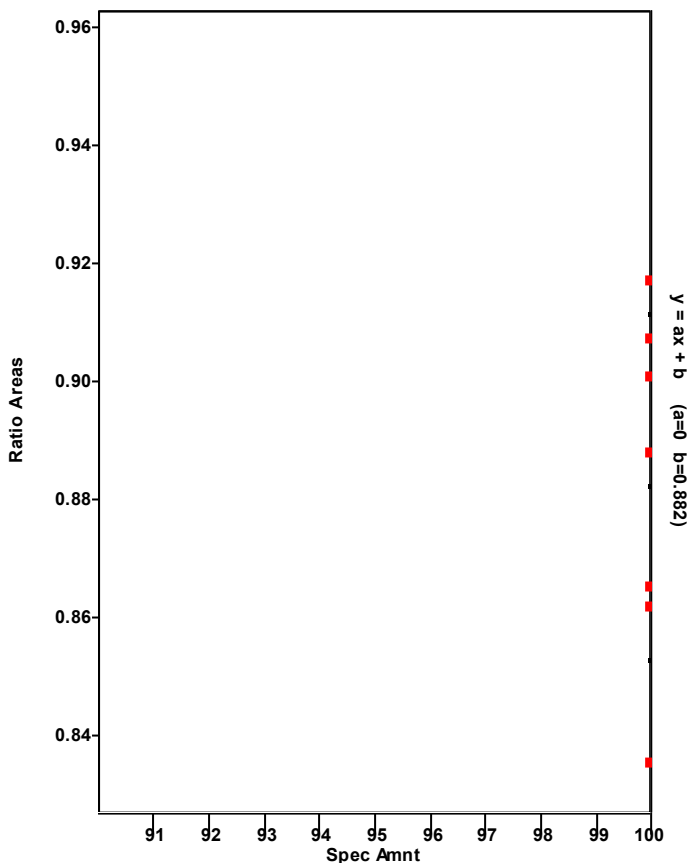
RT: 39.38 - 41.38 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	842312
RM1 Area	1037555
RM1 Ratio (A)	1.2318
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	80.86
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

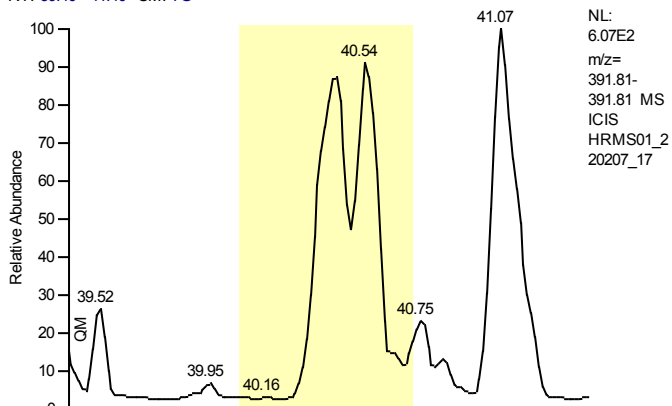
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



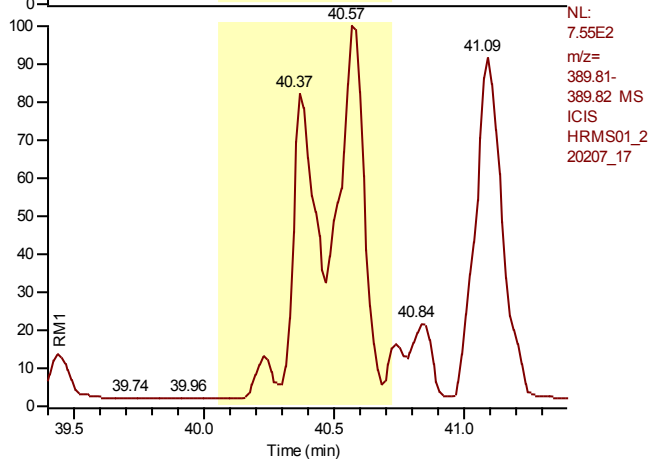
Chromatogram

Entry Parameters

RT: 39.40 - 41.40 SM: 7G



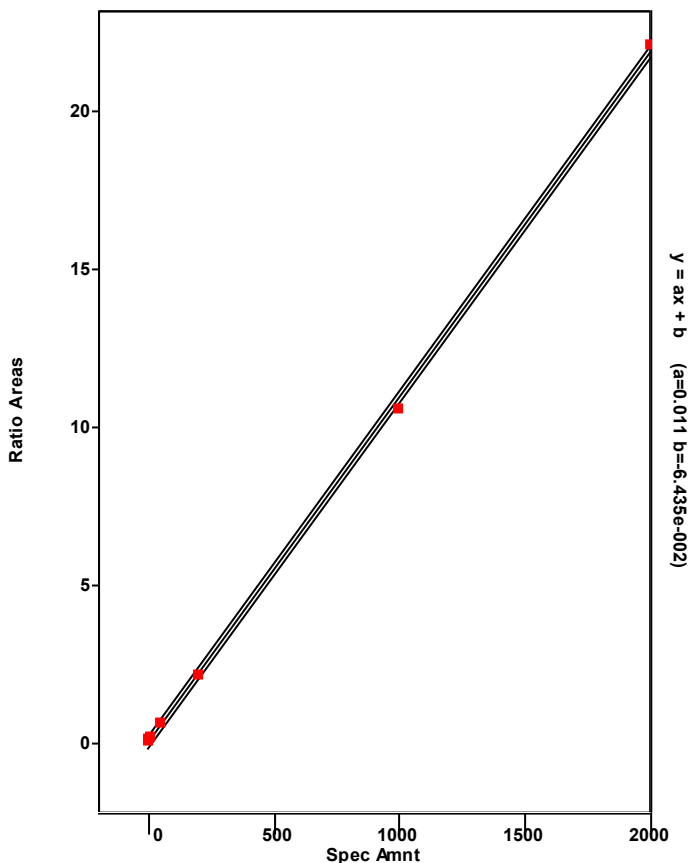
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

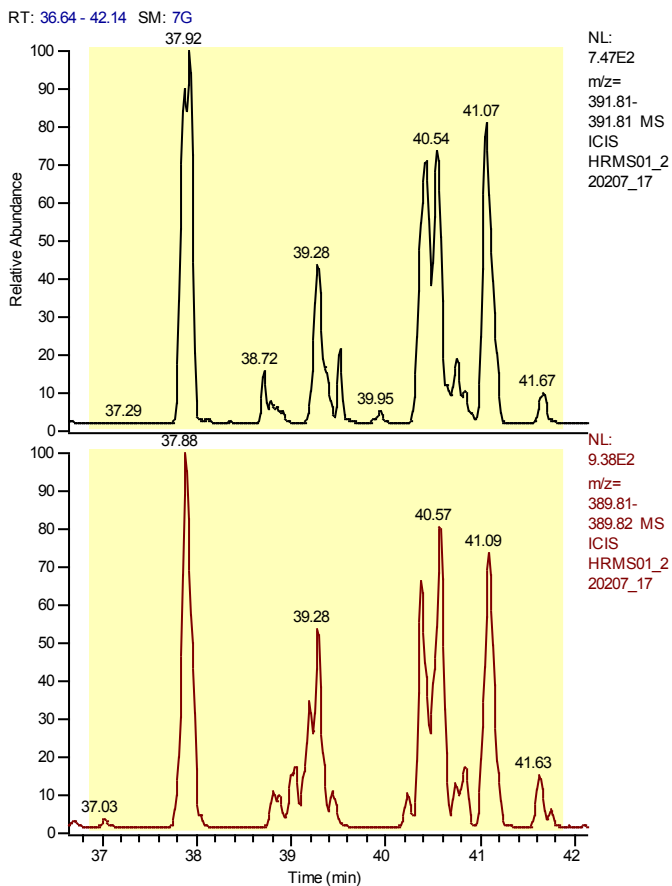
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

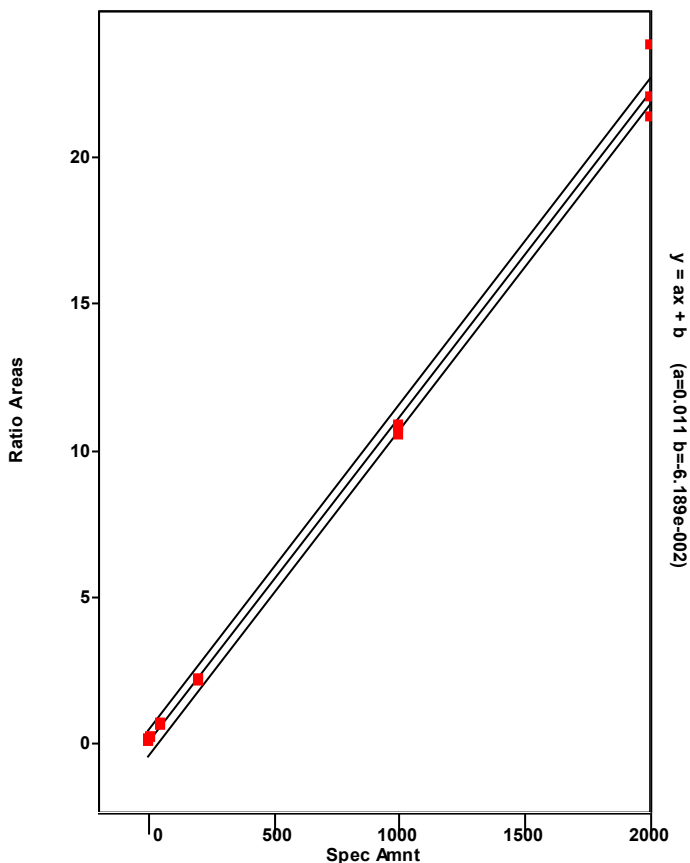


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

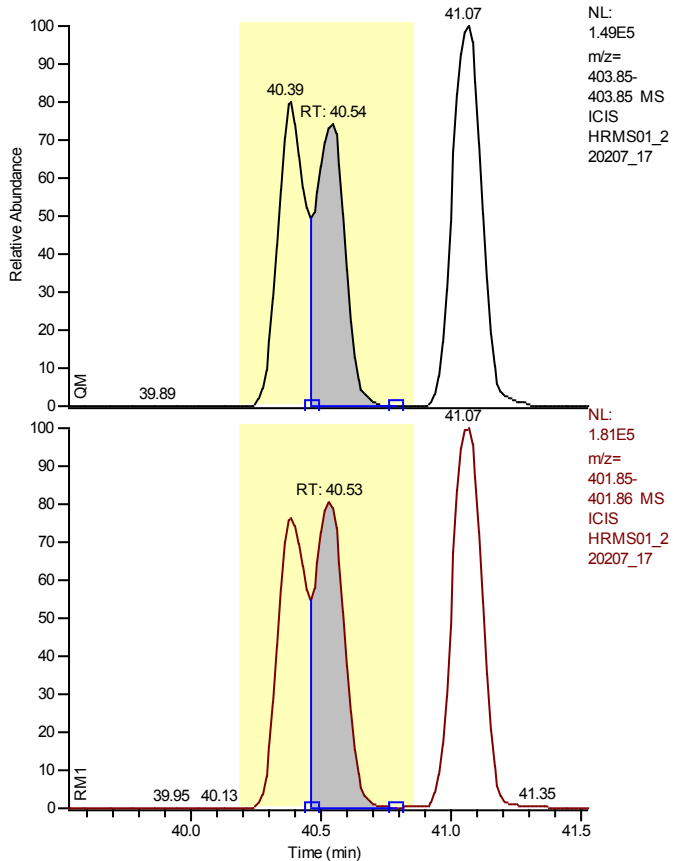
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.52 - 41.52 SM: 7G



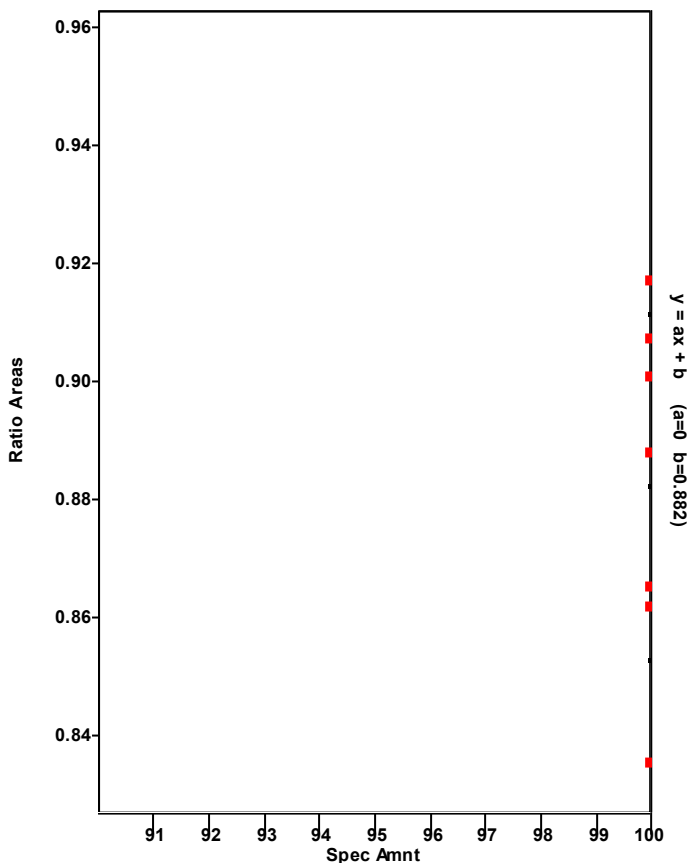
NL: 1.49E5
m/z= 403.85-403.85 MS
ICIS
HRMS01_2
20207_17

NL: 1.81E5
m/z= 401.85-401.86 MS
ICIS
HRMS01_2
20207_17

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	867515
RM1 Area	1153014
RM1 Ratio (A)	1.3291
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	86.91
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

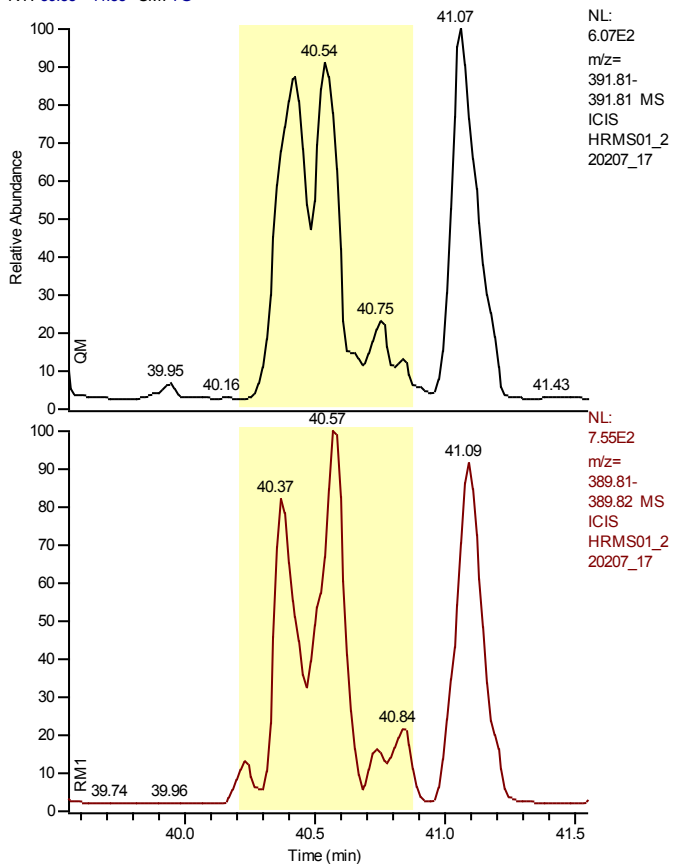
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.55 - 41.55 SM: 7G

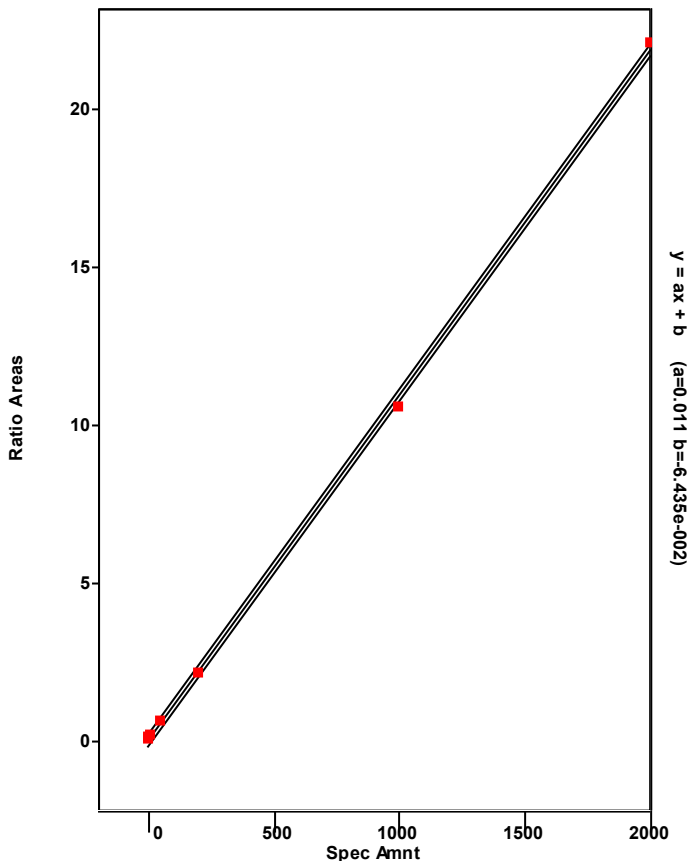


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

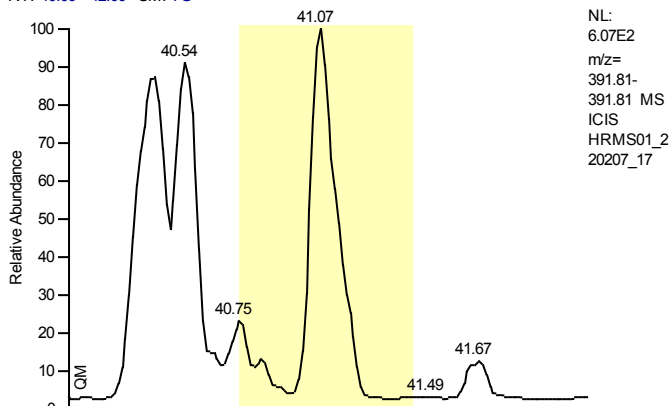
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



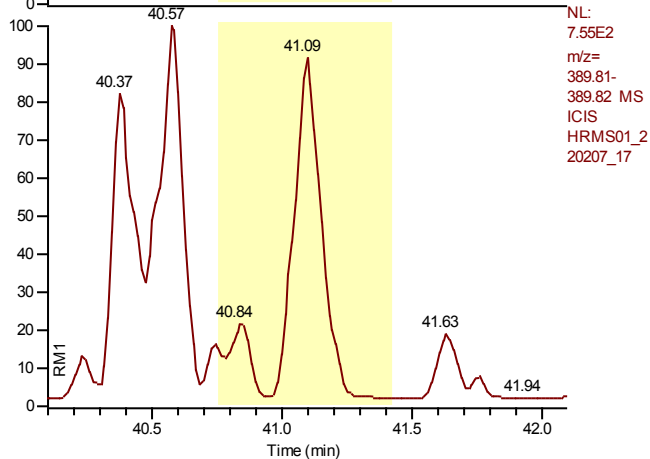
Chromatogram

Entry Parameters

RT: 40.09 - 42.09 SM: 7G



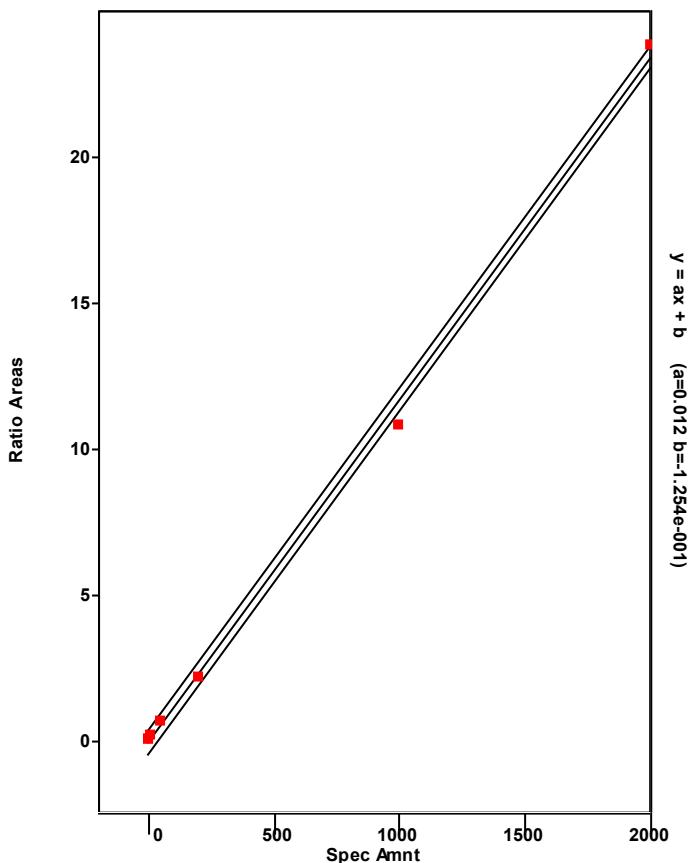
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

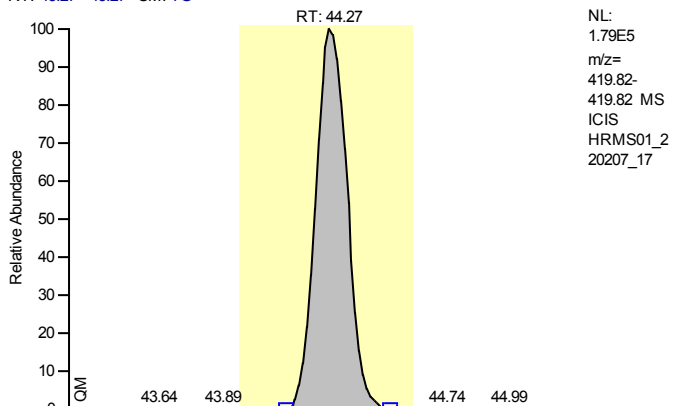
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



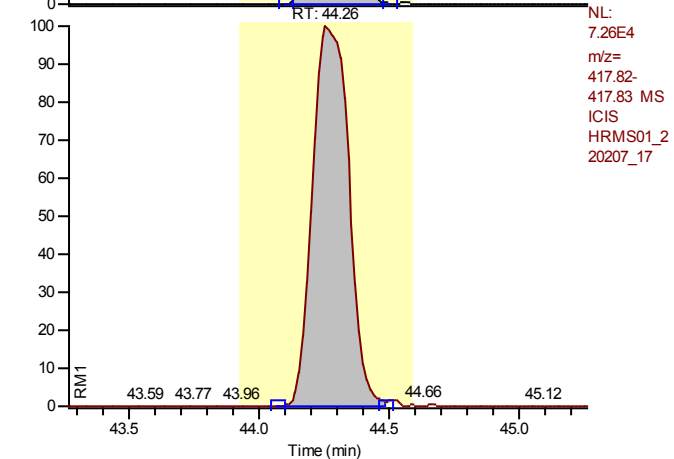
Chromatogram

Entry Parameters

RT: 43.27 - 45.27 SM: 7G

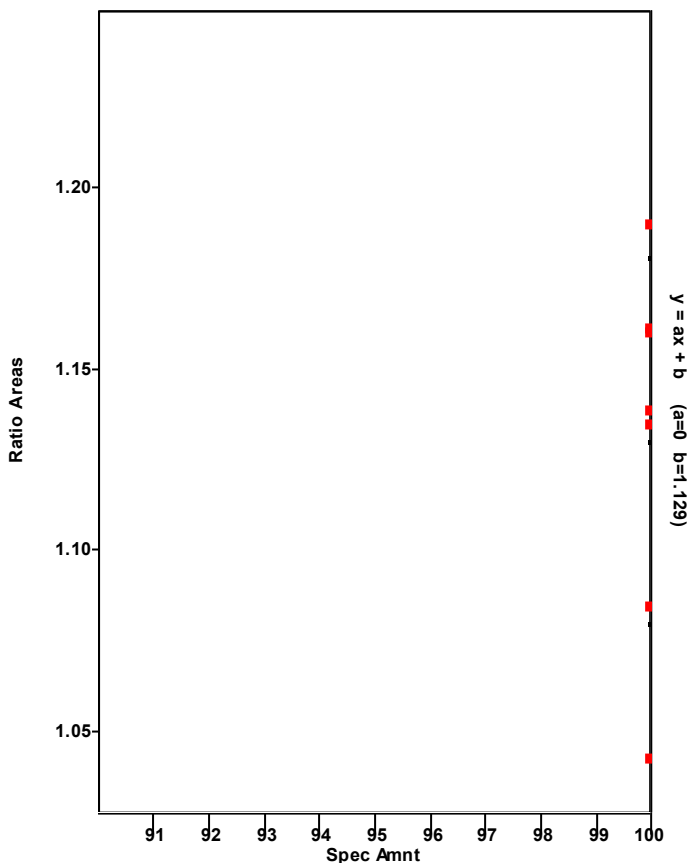


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1515511
RM1 Area	709172
RM1 Ratio (A)	0.4679
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	74.71
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

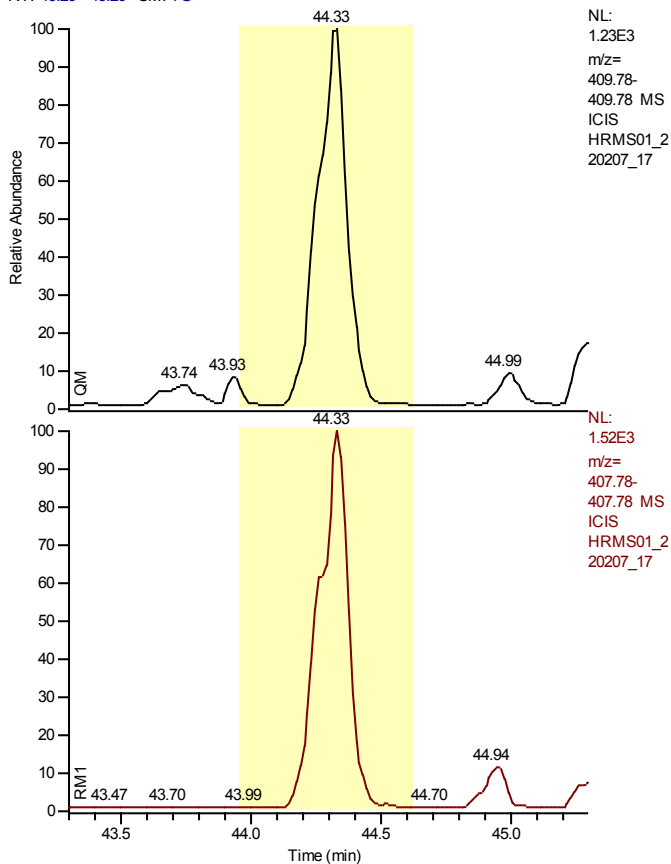
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.29 - 45.29 SM: 7G



NL:
 1.23E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_17

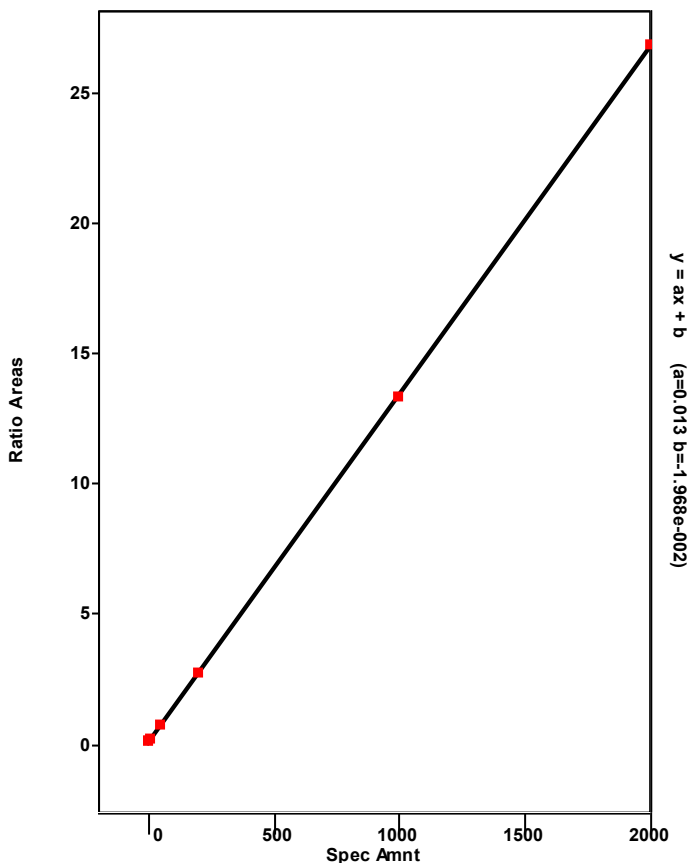
NL:
 1.52E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

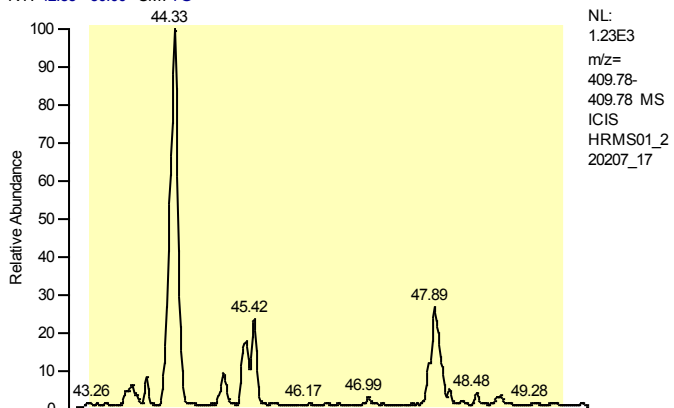
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



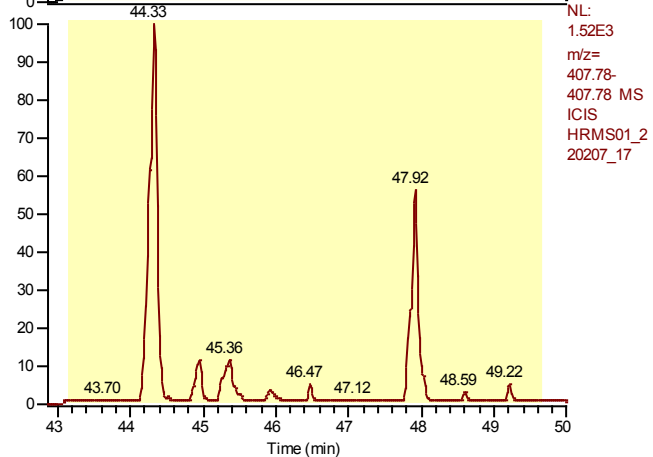
Chromatogram

Entry Parameters

RT: 42.85 - 50.00 SM: 7G



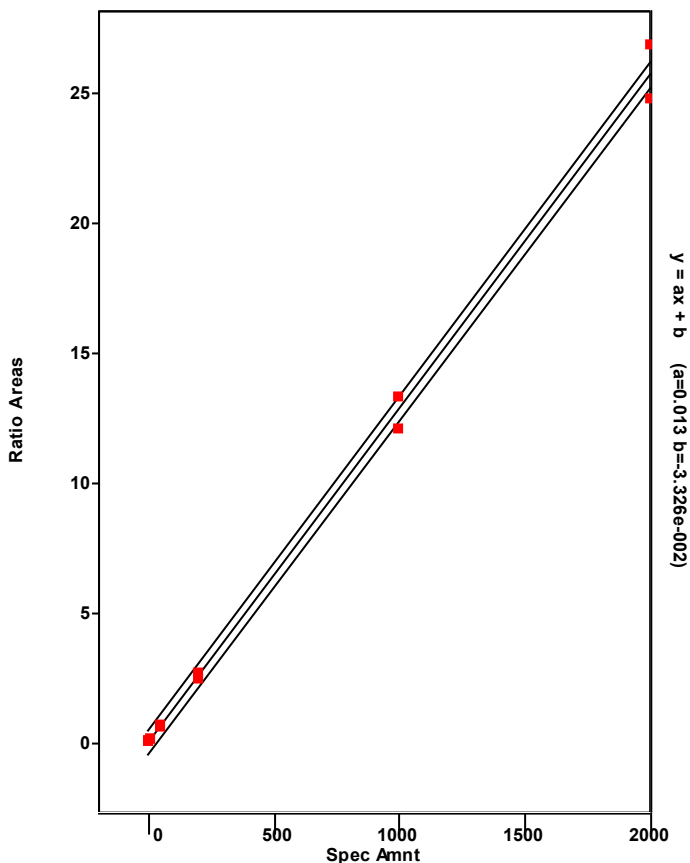
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

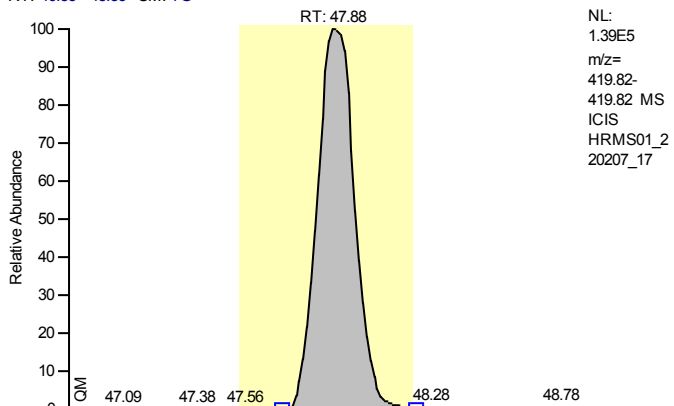
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



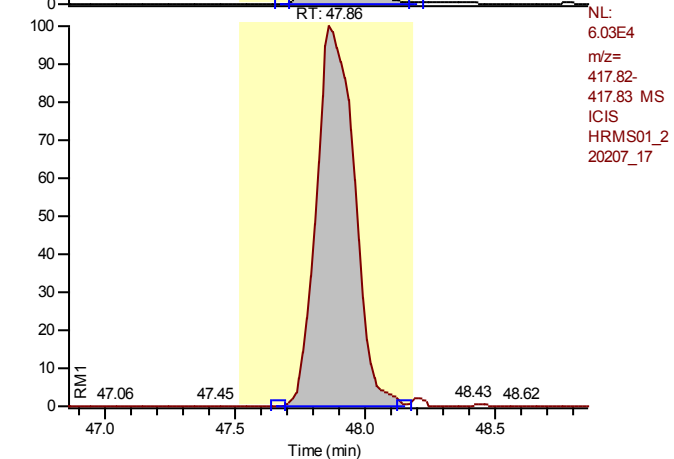
Chromatogram

Entry Parameters

RT: 46.85 - 48.85 SM: 7G

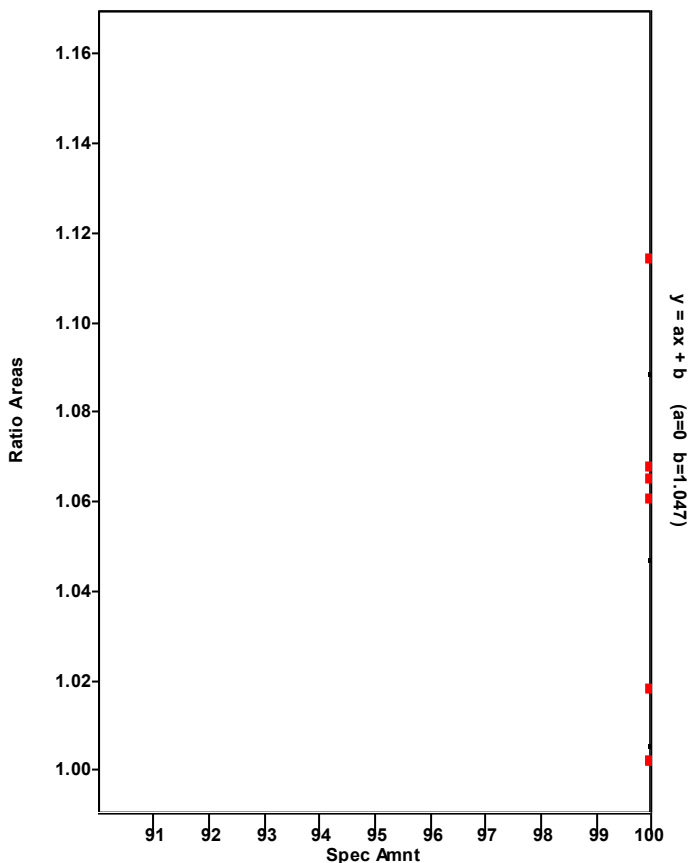


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1405379
RM1 Area	616524
RM1 Ratio (A)	0.4387
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	73.27
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

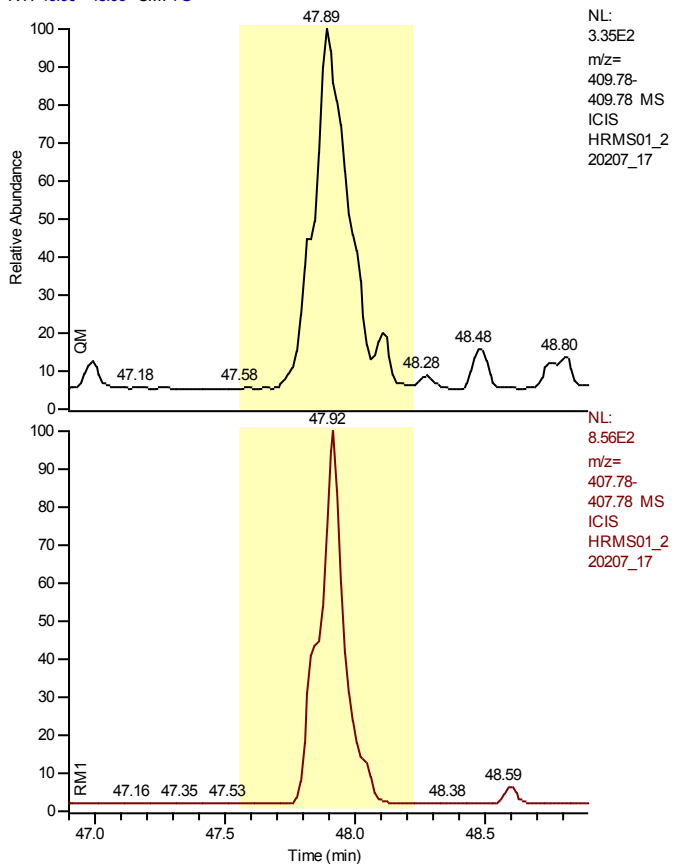
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.90 - 48.90 SM: 7G

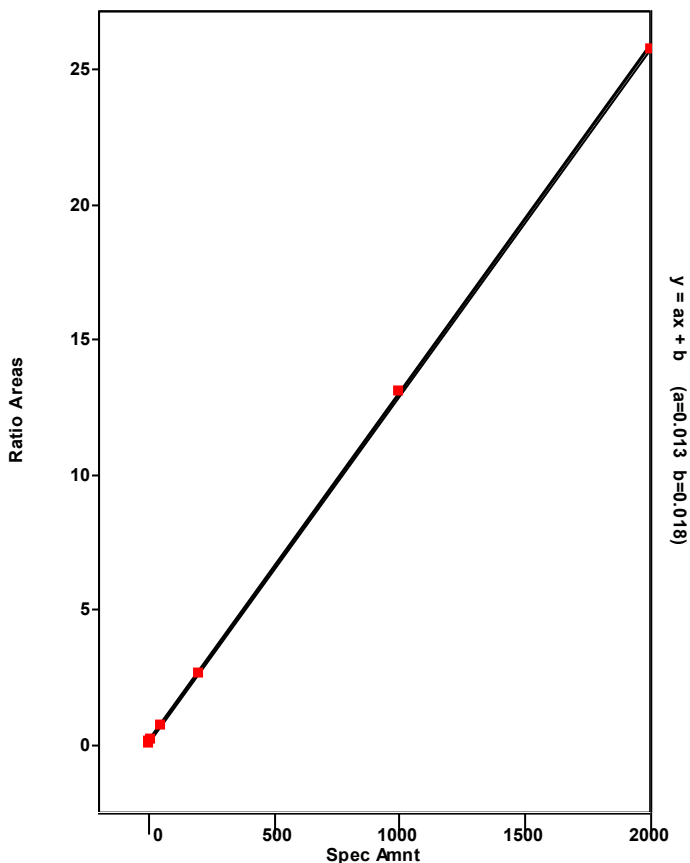


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

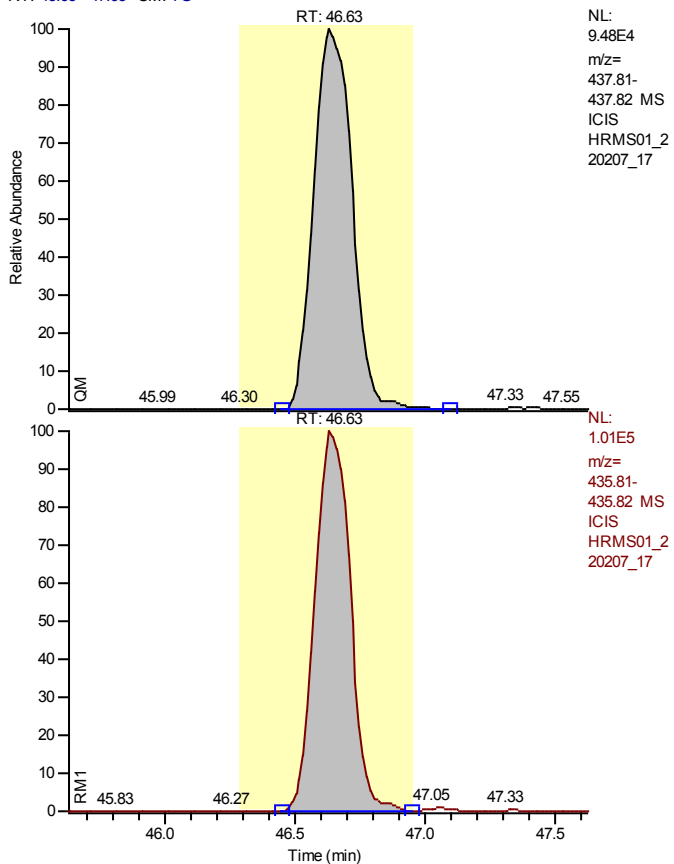
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

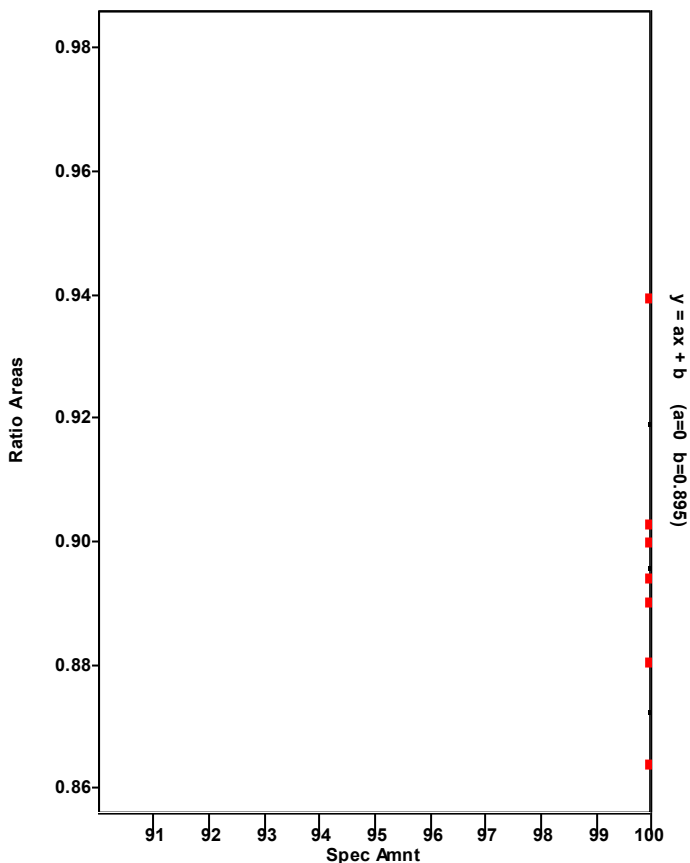
RT: 45.63 - 47.63 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	975243
RM1 Area	949407
RM1 Ratio (A)	0.9735
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	81.53
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

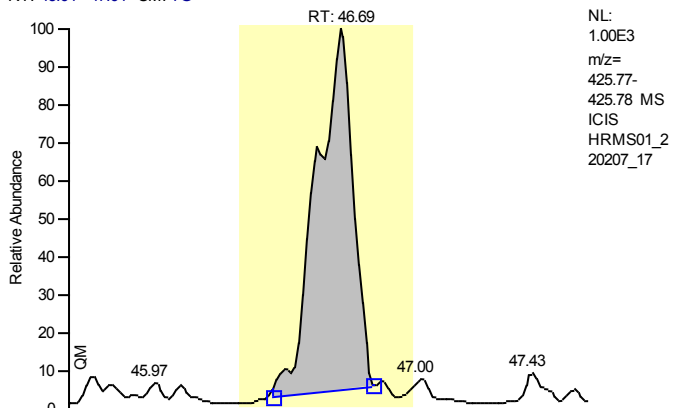
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

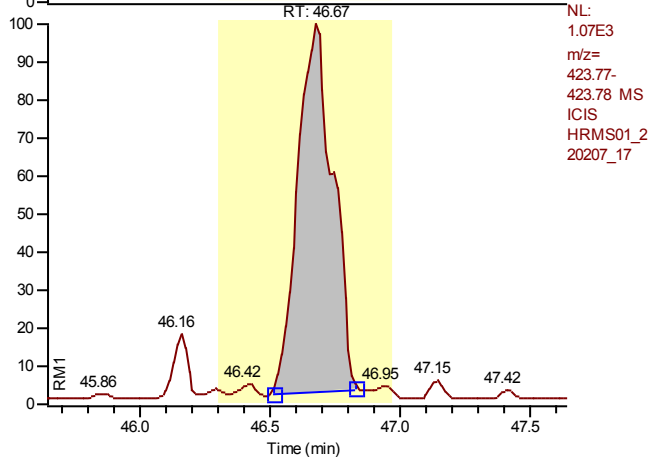
Entry Parameters

RT: 45.64 - 47.64 SM: 7G



NL:
 1.00E3
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	9320
RM1 Area	9680
RM1 Ratio (A)	1.0385
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	0.89
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

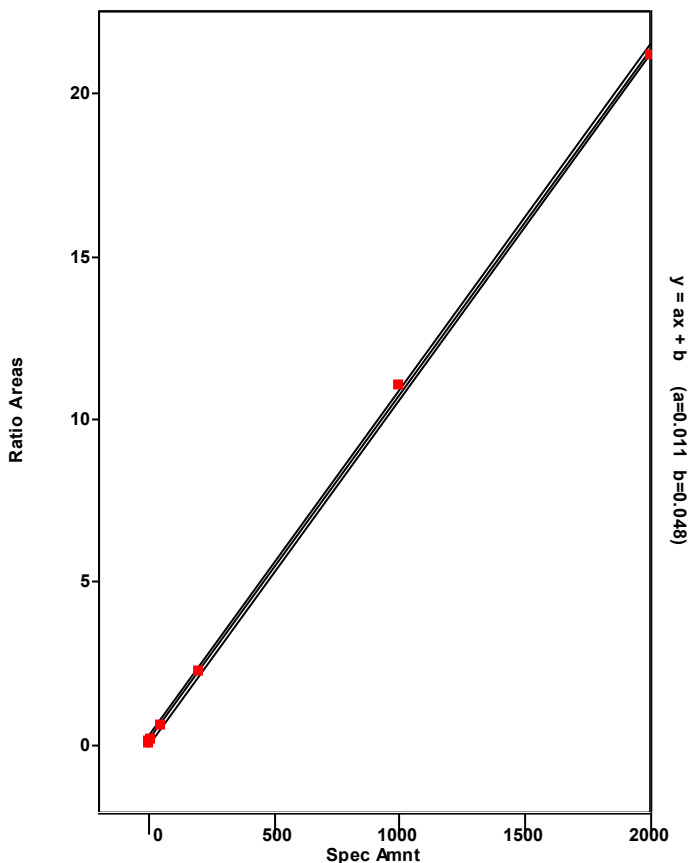


NL:
 1.07E3
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20207_17

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

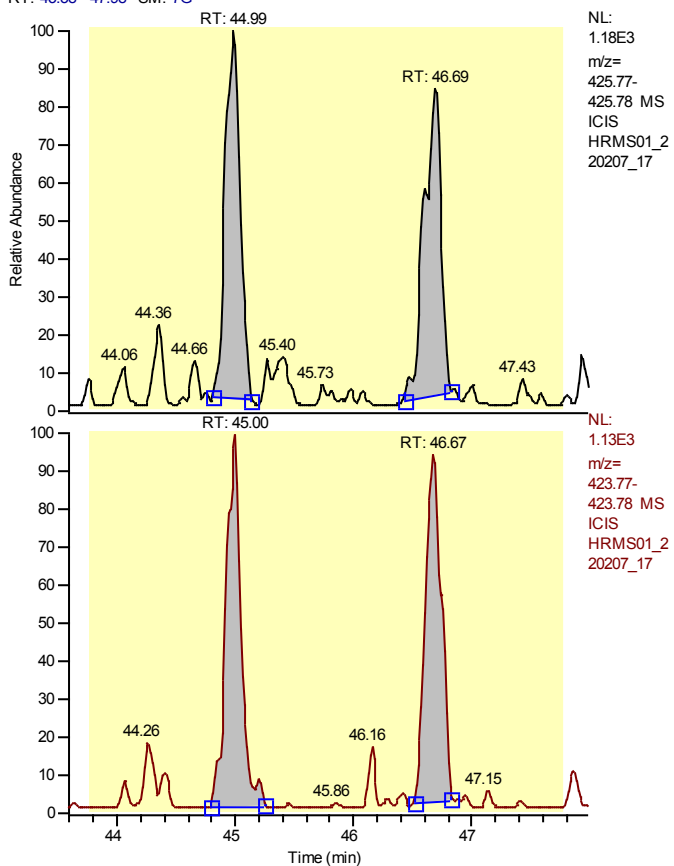
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.58 - 47.98 SM: 7G

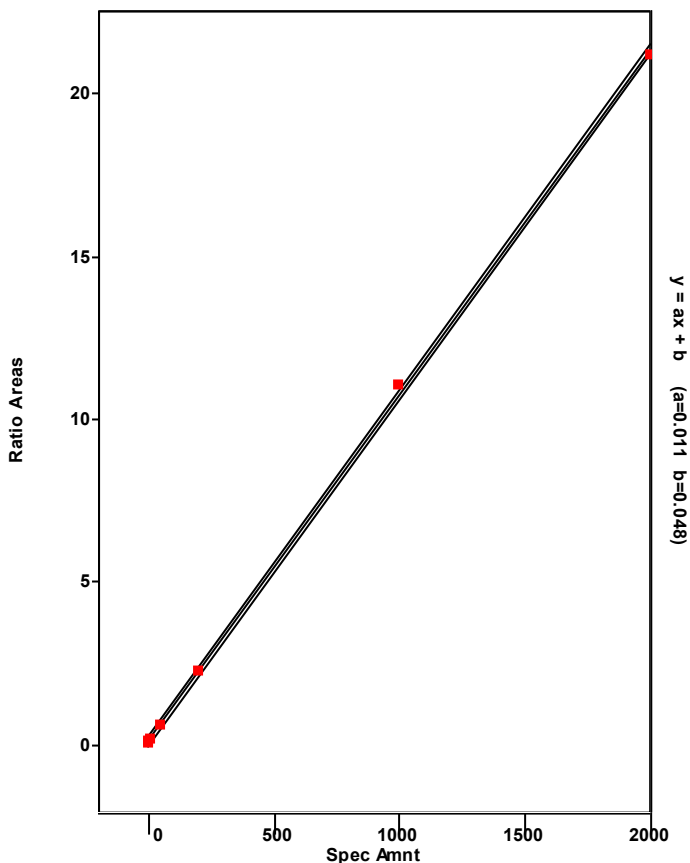


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	19444
RM1 Area	19401
RM1 Ratio (A)	0.9978
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.82
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

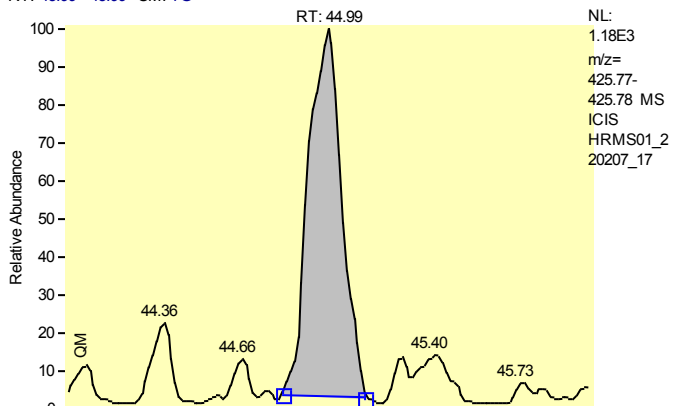
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



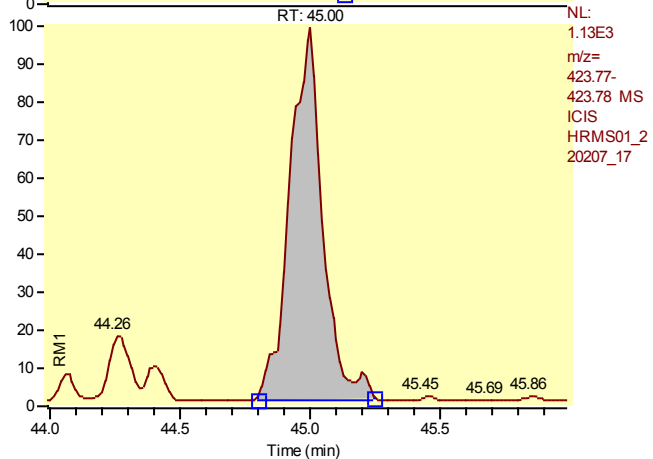
Chromatogram

Entry Parameters

RT: 43.99 - 45.99 SM: 7G



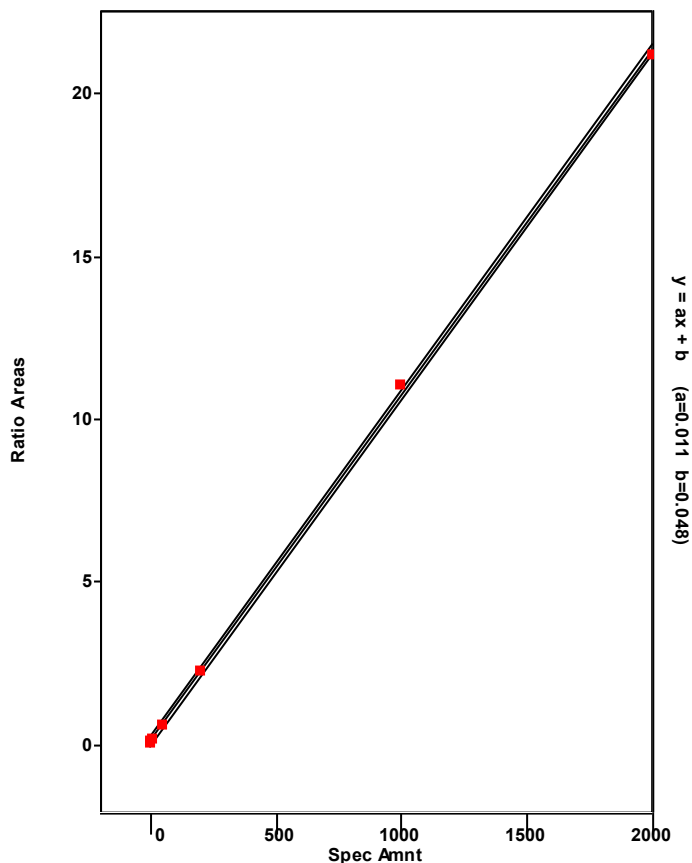
Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	10124
RM1 Area	9721
RM1 Ratio (A)	0.9602
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	0.93
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

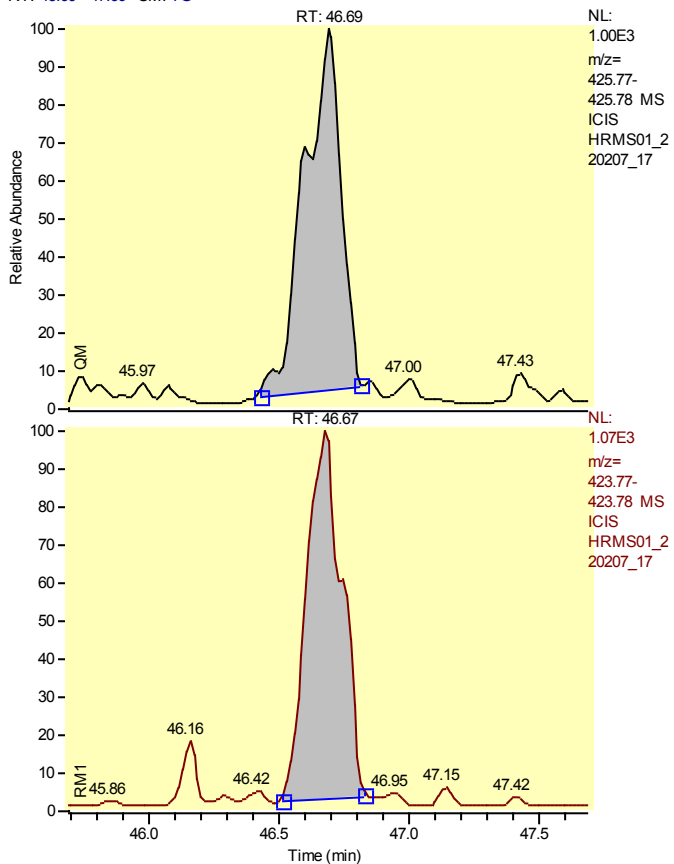
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.69 - 47.69 SM: 7G

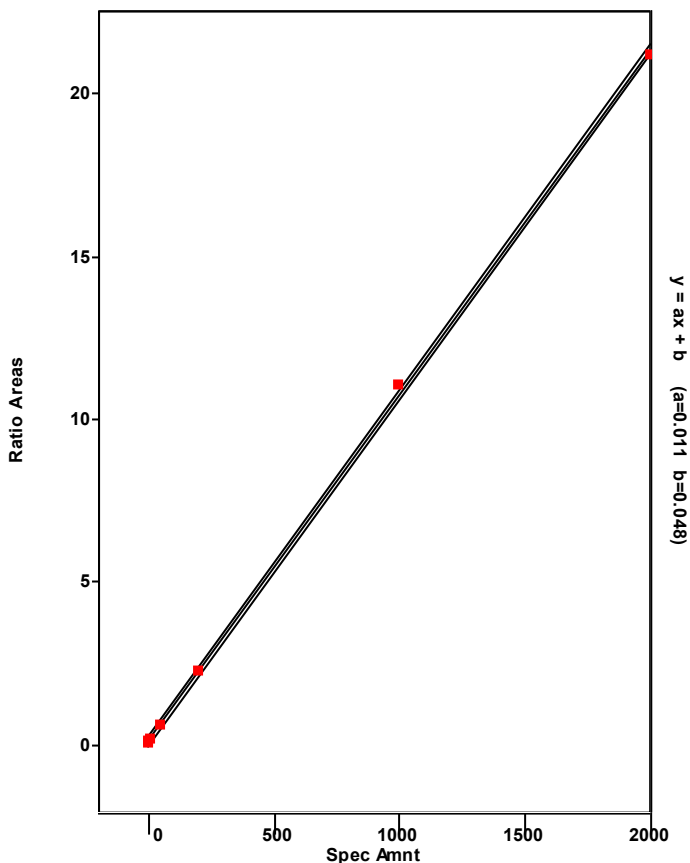


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__3
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	9320
RM1 Area	9680
RM1 Ratio (A)	1.0385
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	0.89
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__3

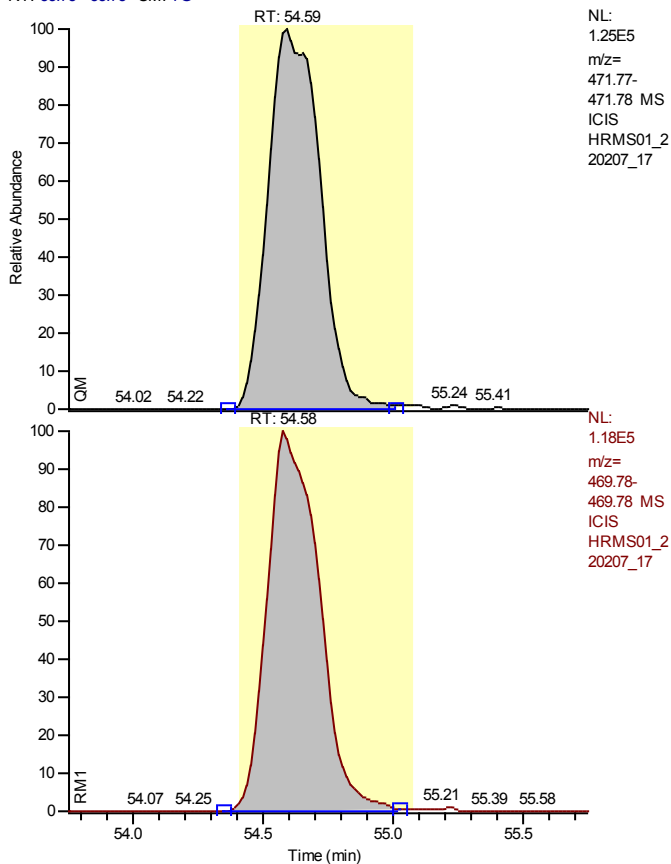
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 53.75-55.75 SM: 7G

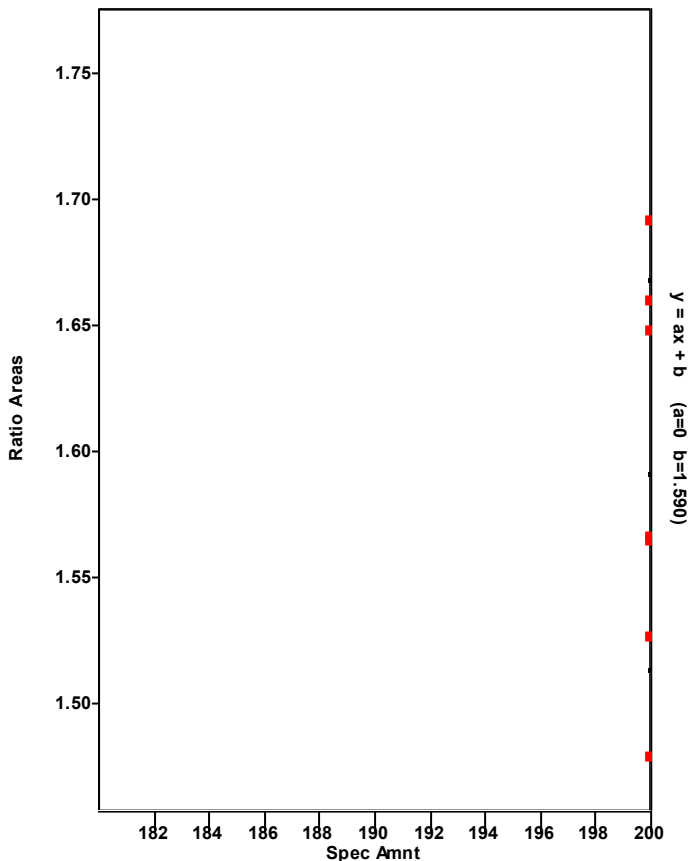


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1745849
RM1 Area	1609636
RM1 Ratio (A)	0.9220
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	160.11
Percent Recovery (A)	80
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

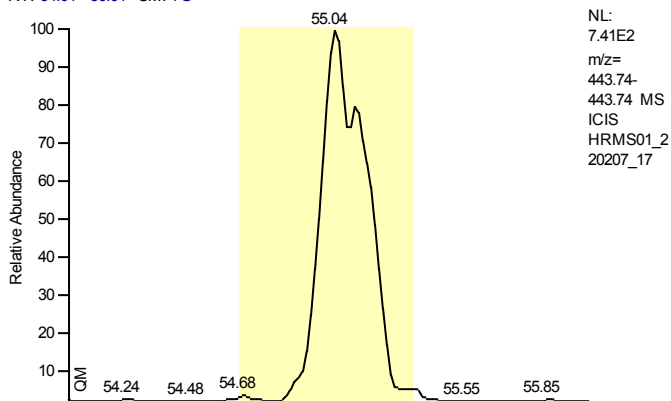
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



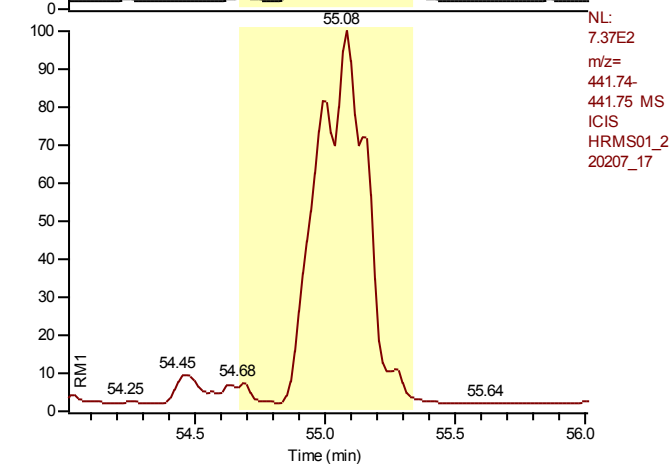
Chromatogram

Entry Parameters

RT: 54.01 - 56.01 SM: 7G



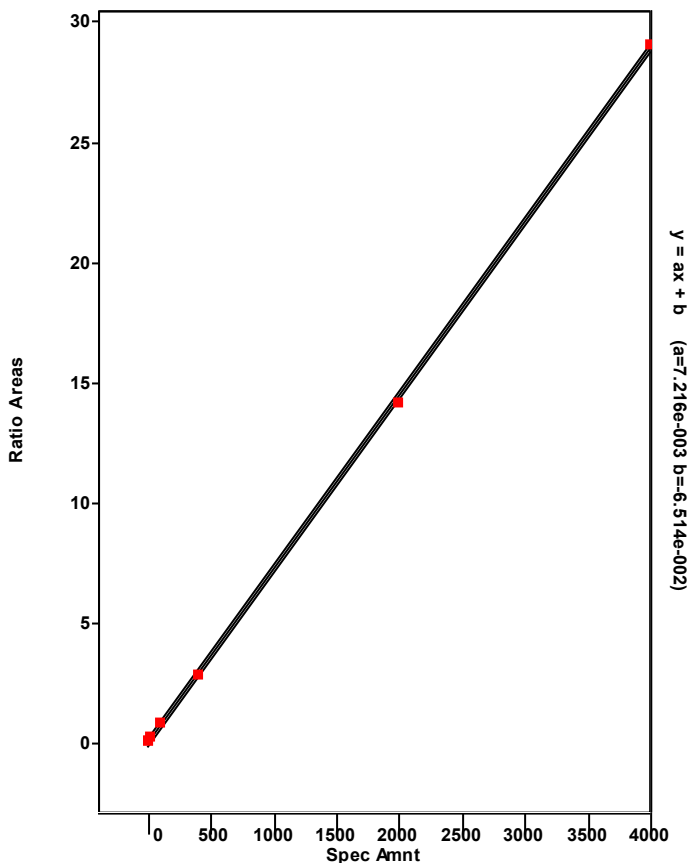
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

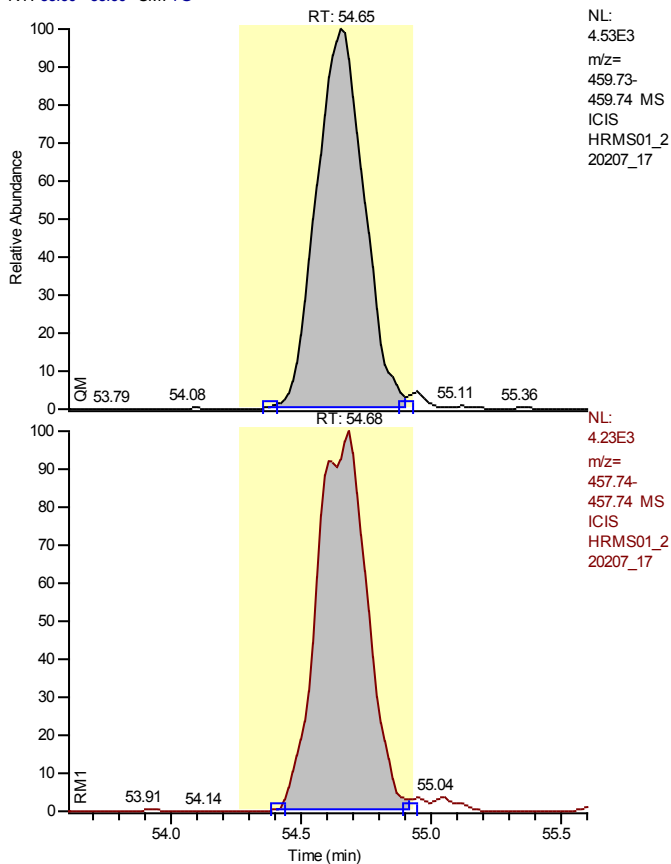
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.60 - 55.60 SM: 7G



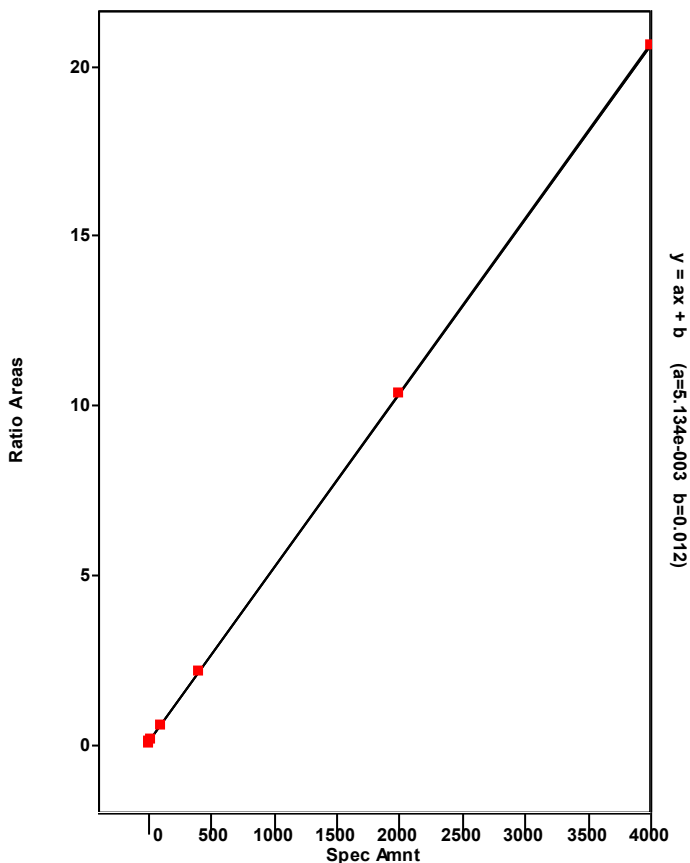
NL:
 4.53E3
 m/z=
 459.73-
 459.74 MS
 ICIS
 HRMS01_2
 20207_17

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	57199
RM1 Area	56503
RM1 Ratio (A)	0.9878
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	6.40
Percent Recovery (A)	---
TEQ (A)	0.0019
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

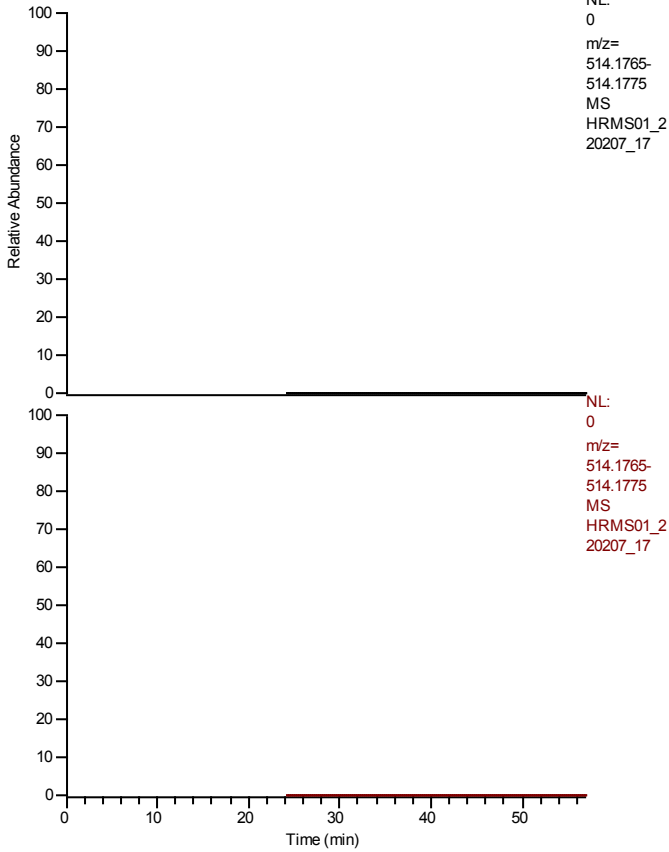
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

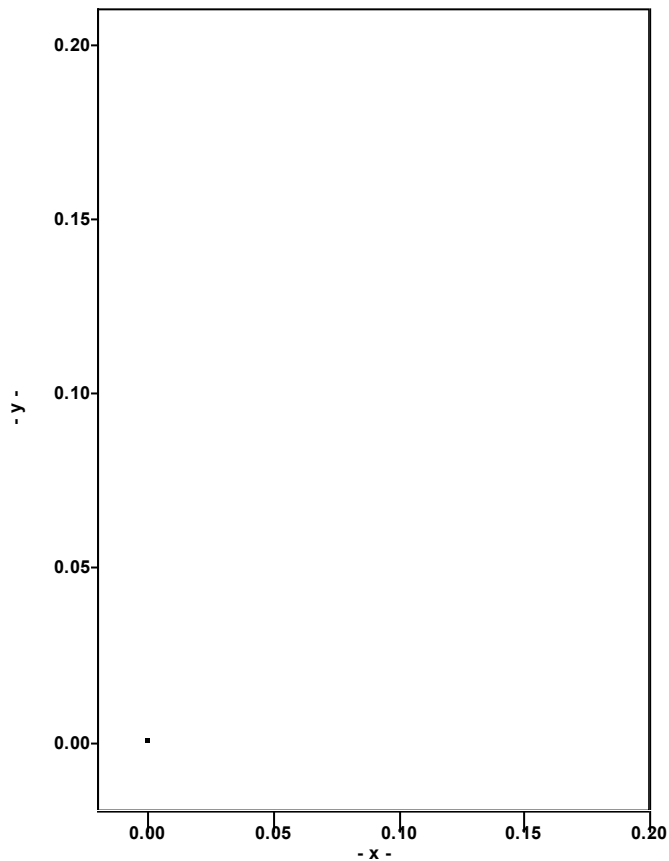
RT: 0.00 - 56.99 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	66519
RM1 Area	66183
RM1 Ratio (A)	0.9949
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	7.29
Percent Recovery (A)	---
TEQ (A)	0.0019
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 03:49
Number of Entries	44
Comment	
Vial	123
Sample Name	L2202953-03
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_19_seq
Data	hrms01_220207_19
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

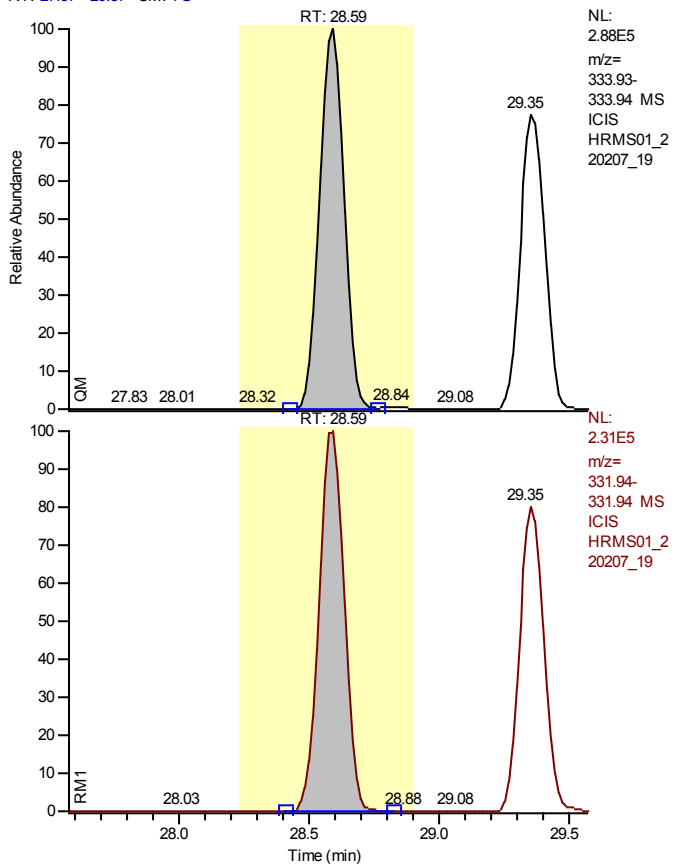
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1879205	1545264	0.8223	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2264176	1948178	0.8604	0.6500 - 0.8900	100.00	72.77	73	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
5	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1521297	1259212	0.8277	0.6500 - 0.8900	100.00	68.38	68	0.0000
6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
7	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
8	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1215097	2032041	1.6723	1.3200 - 1.7800	100.00	68.64	69	0.0000
9	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
10	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
11	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1281214	2047086	1.5978	1.3200 - 1.7800	100.00	70.56	71	0.0000
12	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
13	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		890698	1332815	1.4964	1.3200 - 1.7800	100.00	69.48	69	0.0000
14	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
15	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
16	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		366336	366336	1.0000	0.8500 - 1.1500	10.00	8.88	89	0.0000
17	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1439248	1824877	1.2679	1.0500 - 1.4300	100.00	100.00	100	0.0000
18	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1790380	951062	0.5312	0.4300 - 0.5900	100.00	73.01	73	0.0000
19	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
20	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
21	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1772017	934434	0.5273	0.4300 - 0.5900	100.00	65.21	65	0.0000
22	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
23	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2100491	1149002	0.5470	0.4300 - 0.5900	100.00	81.01	81	0.0000
24	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
25	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1981148	1024250	0.5170	0.4300 - 0.5900	100.00	78.14	78	0.0000
26	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
27	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1010377	1261787	1.2488	1.0500 - 1.4300	100.00	78.96	79	0.0000
28	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
29	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
30	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1037411	1316830	1.2693	1.0500 - 1.4300	100.00	81.81	82	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
32	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
33	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1825700	819627	0.4489	0.3700 - 0.5100	100.00	71.77	72	0.0000
34	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
35	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
36	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1604367	743330	0.4633	0.3700 - 0.5100	100.00	68.73	69	0.0000
37	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
38	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1098685	1222063	1.1123	0.8800 - 1.2000	100.00	79.42	79	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
40	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	0	0	---	0.8800 - 1.2000	0.00	---	---	---
41	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1948446	1718188	0.8818	0.7600 - 1.0200	200.00	141.33	71	0.0000
42	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
43	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	49664	41619	0.8380	0.7600 - 1.0200	0.00	4.70	---	0.0000
44	overall TEQ	overall TEQ test		49664	41619	0.8380	0.0000 - 0.0000	0.00	4.70	---	0.0000

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

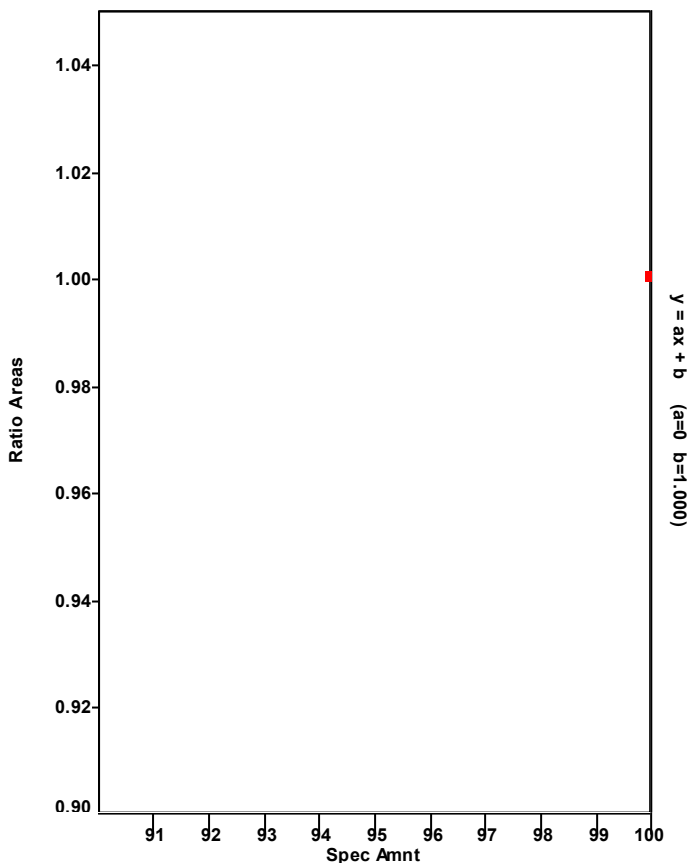


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1879205
RM1 Area	1545264
RM1 Ratio (A)	0.8223
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

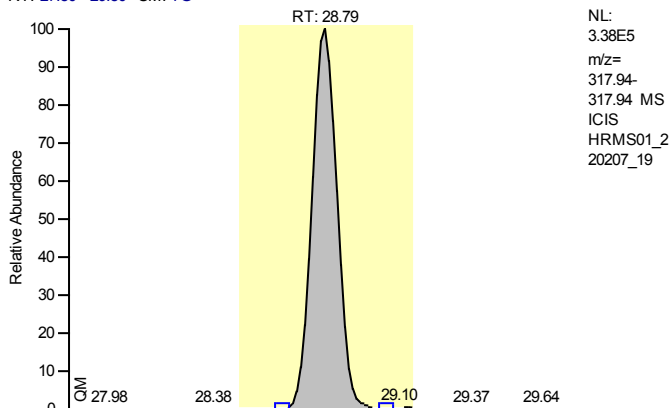
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



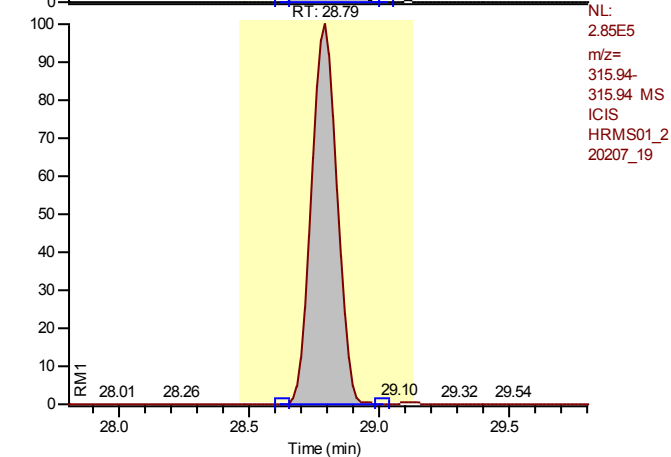
Chromatogram

Entry Parameters

RT: 27.80 - 29.80 SM: 7G



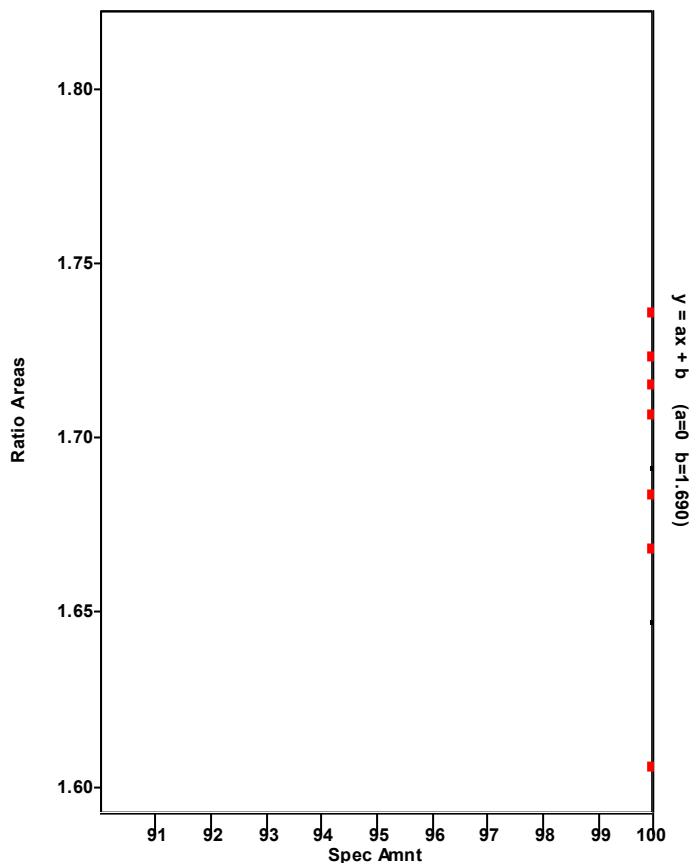
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2264176
RM1 Area	1948178
RM1 Ratio (A)	0.8604
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	72.77
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

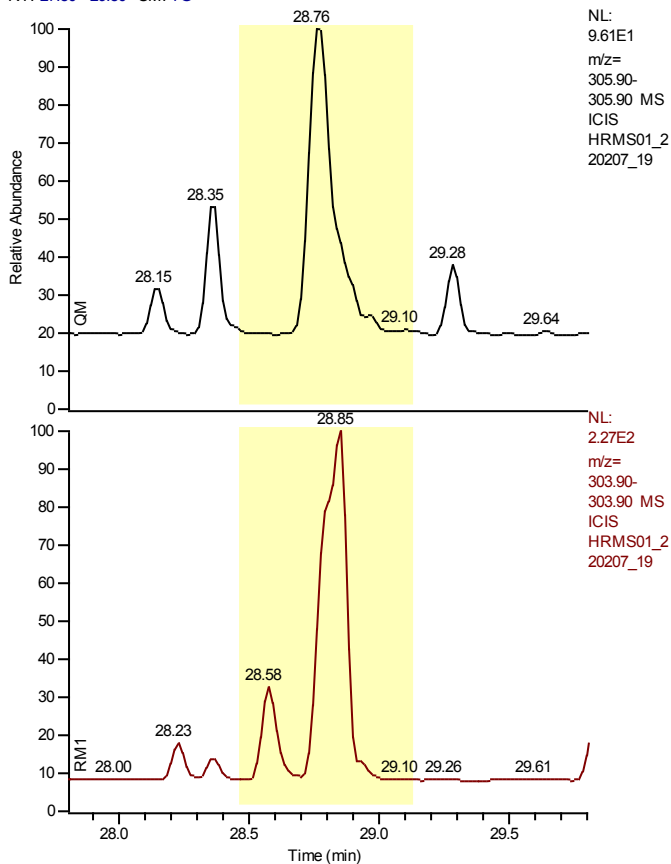
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.80 - 29.80 SM: 7G

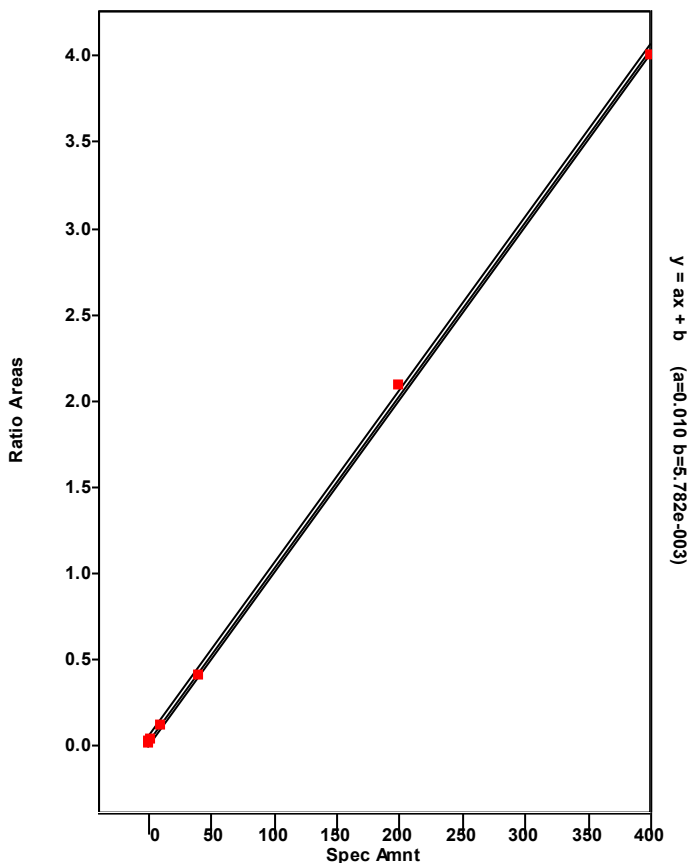


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

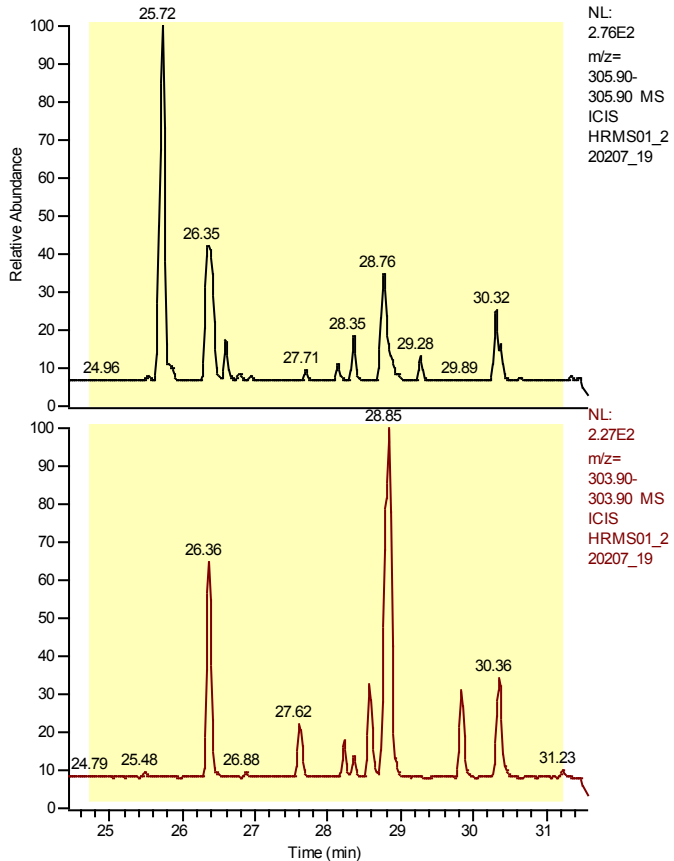
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.43 - 31.58 SM: 7G

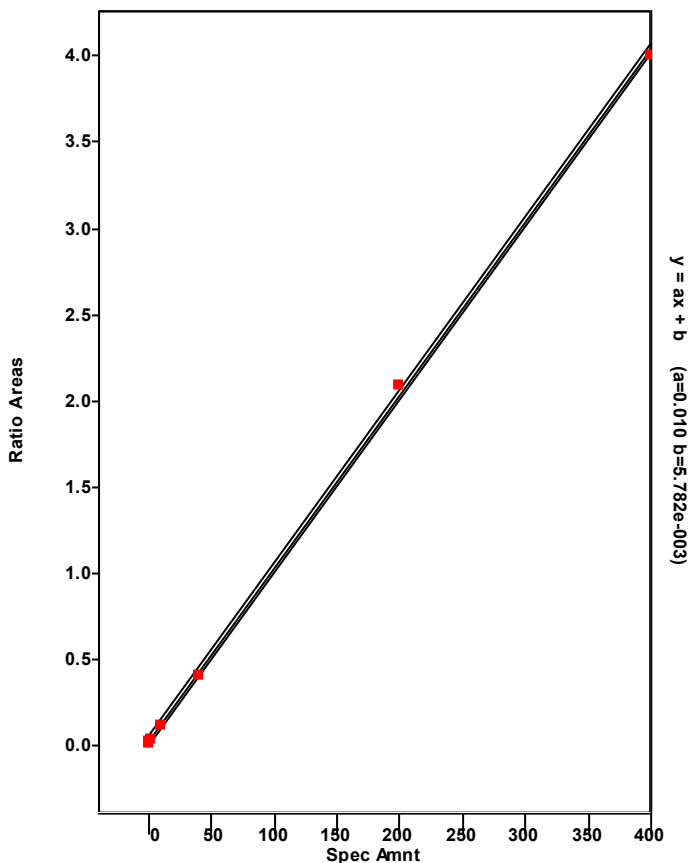


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

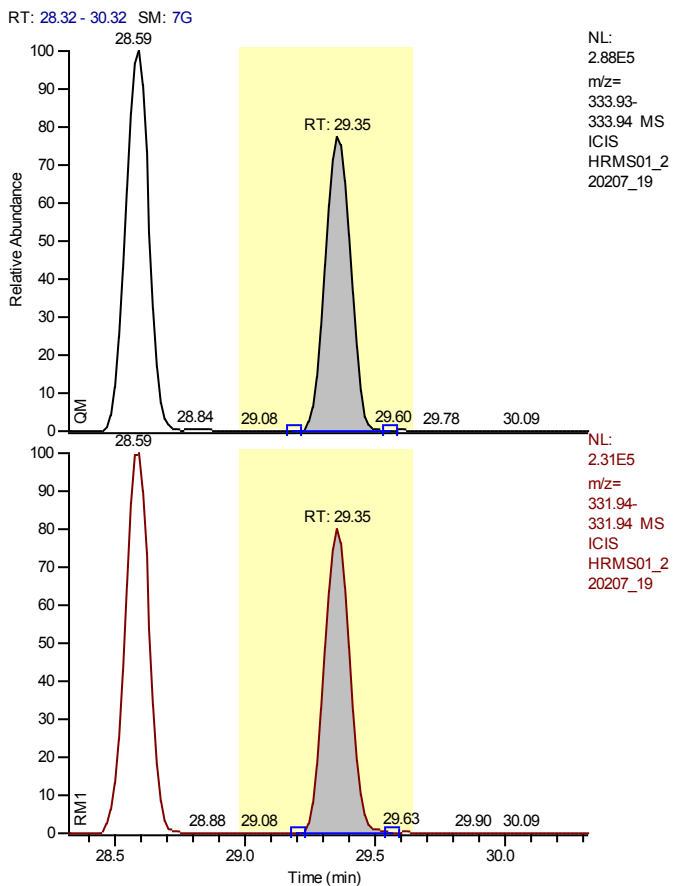
Calibration Points of Total Tetrachlorodibenzofuran

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

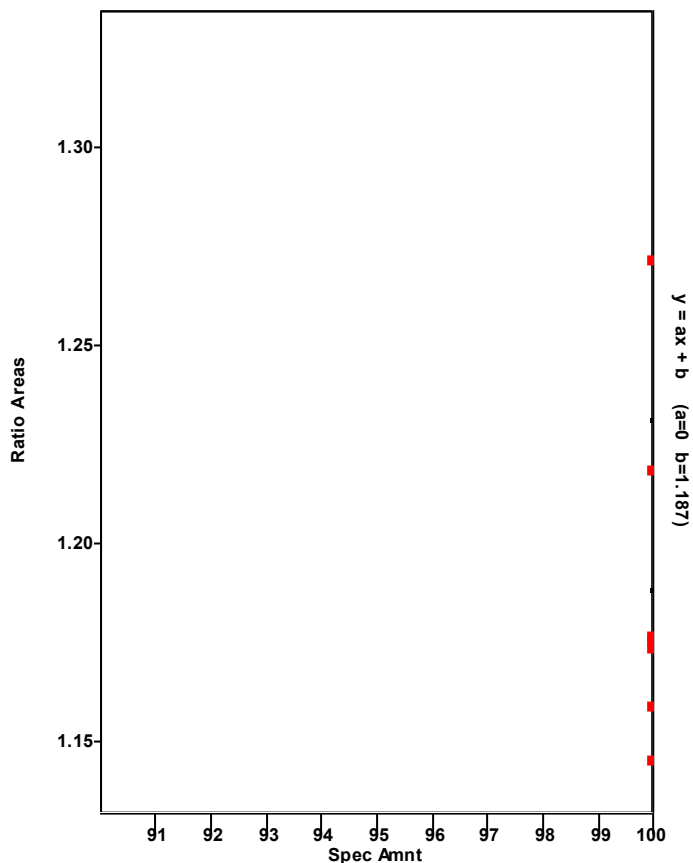


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1521297
RM1 Area	1259212
RM1 Ratio (A)	0.8277
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	68.38
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

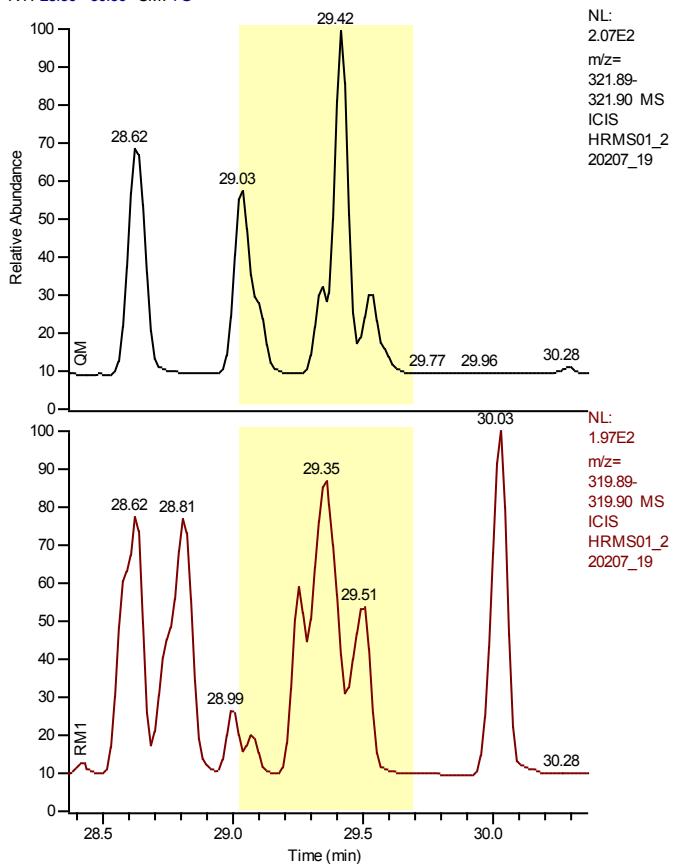
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

Entry Parameters

RT: 28.36 - 30.36 SM: 7G

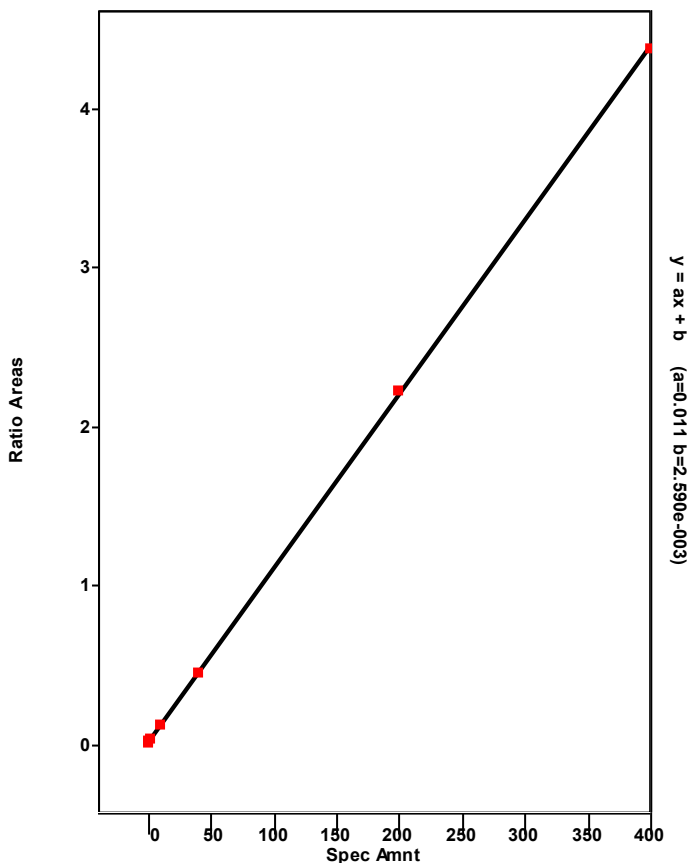


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

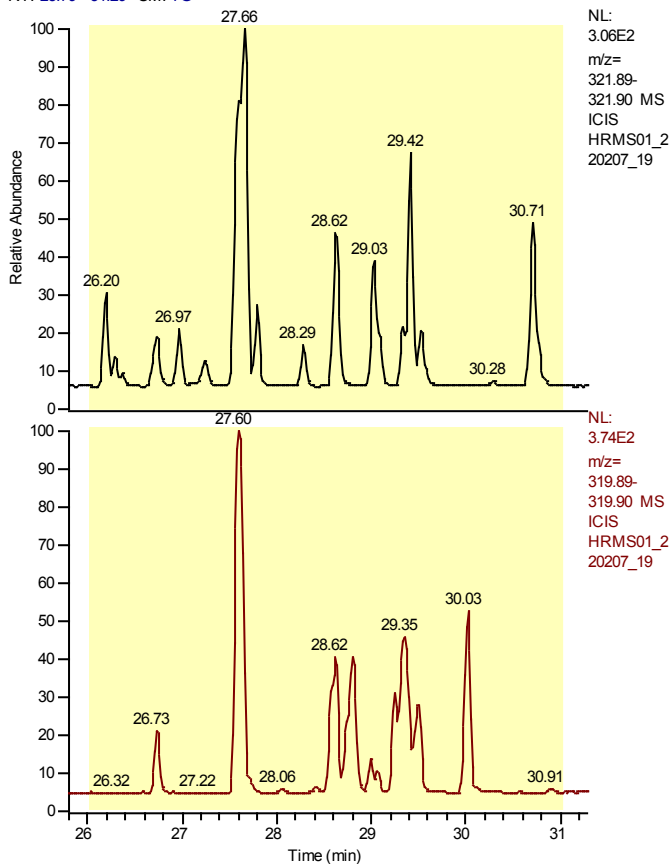
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.79 - 31.29 SM: 7G

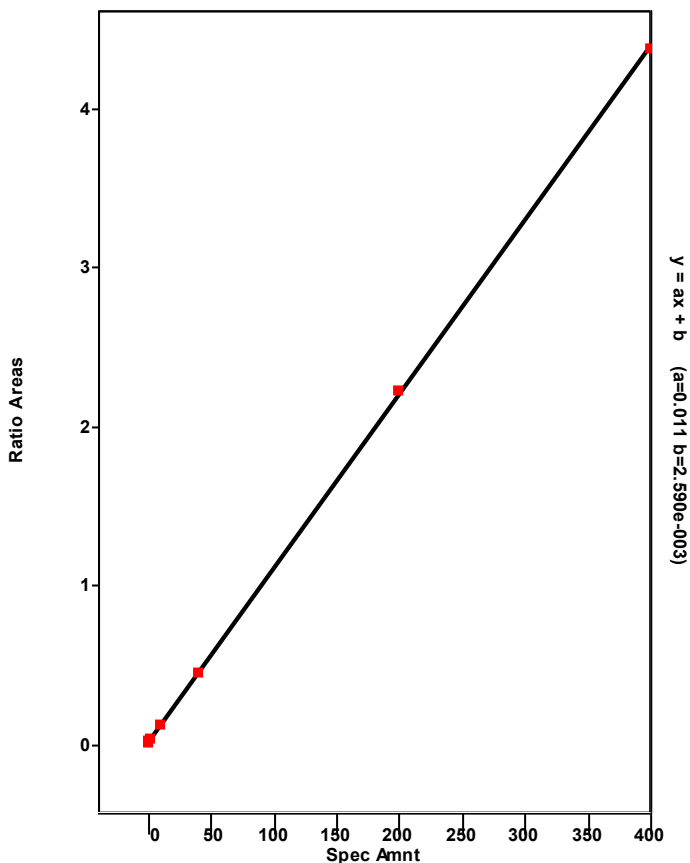


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

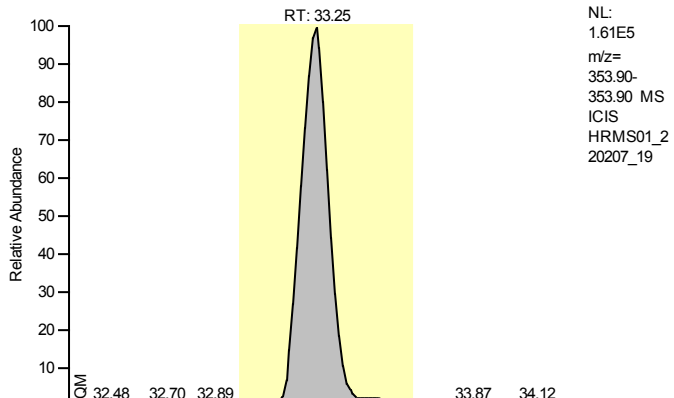
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



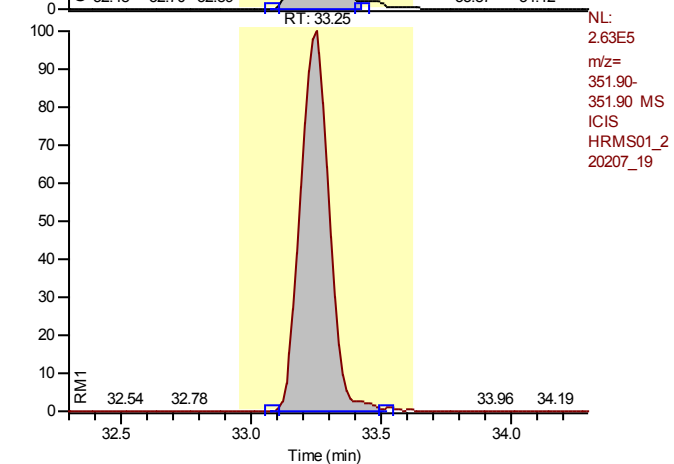
Chromatogram

Entry Parameters

RT: 32.29 - 34.29 SM: 7G



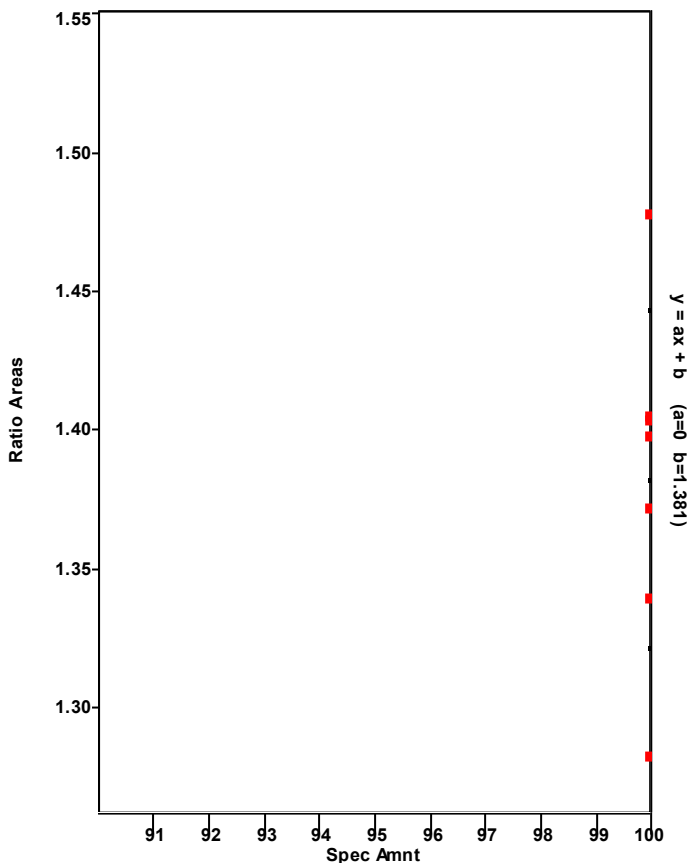
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1215097
RM1 Area	2032041
RM1 Ratio (A)	1.6723
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	68.64
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

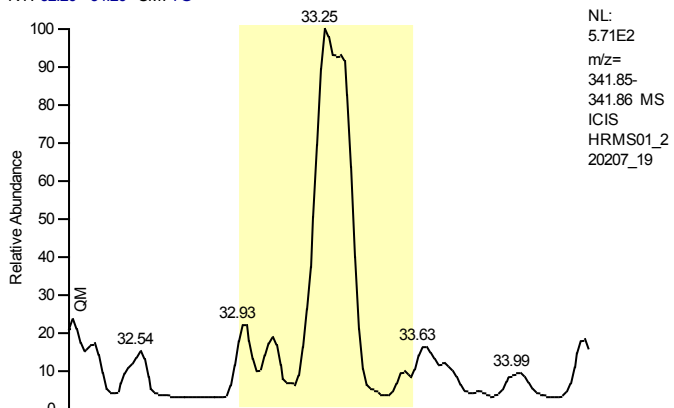
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



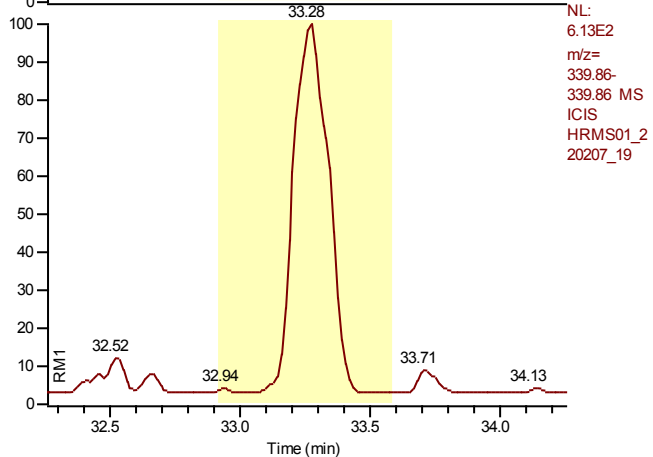
Chromatogram

Entry Parameters

RT: 32.26 - 34.26 SM: 7G



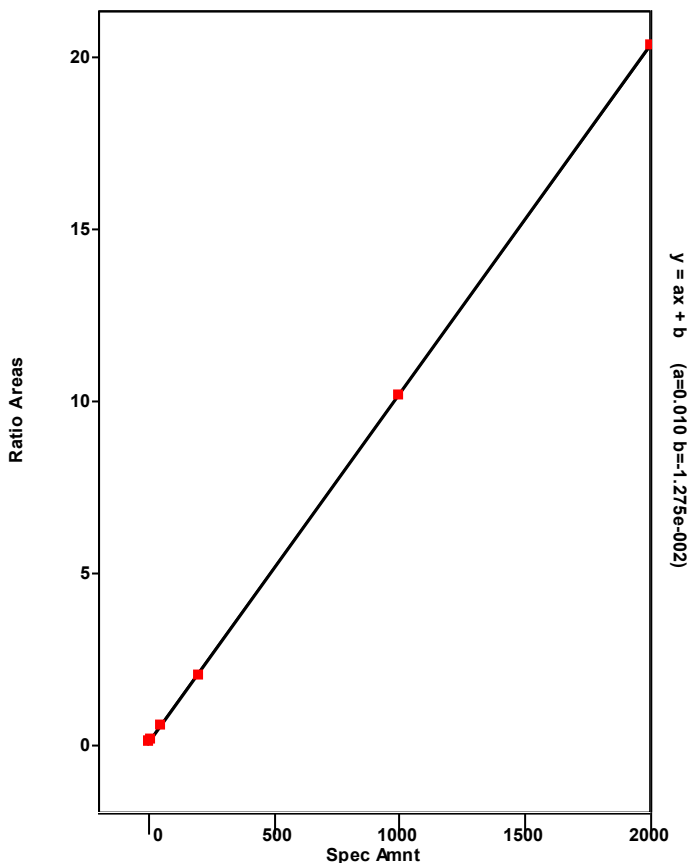
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

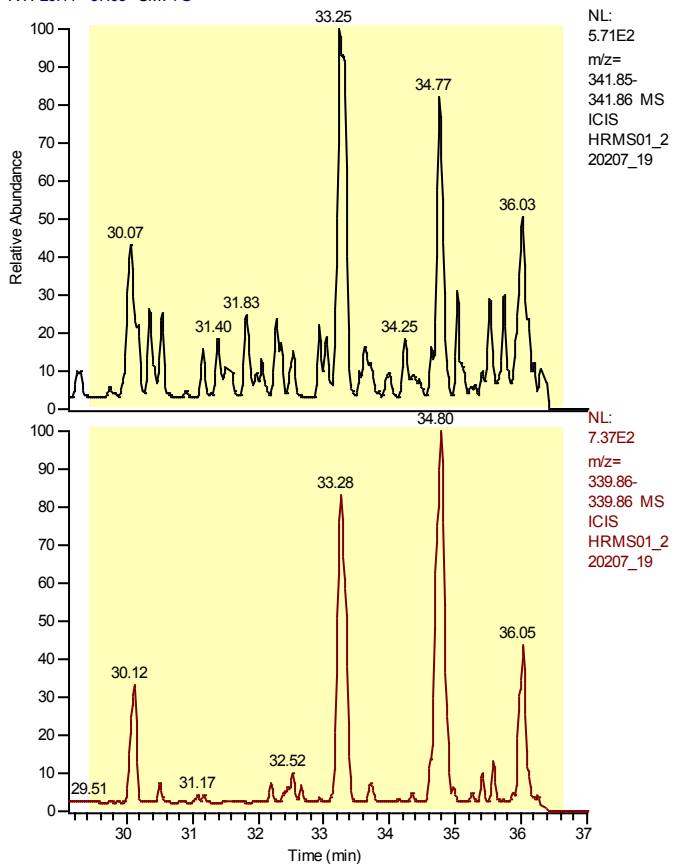
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.11 - 37.03 SM: 7G

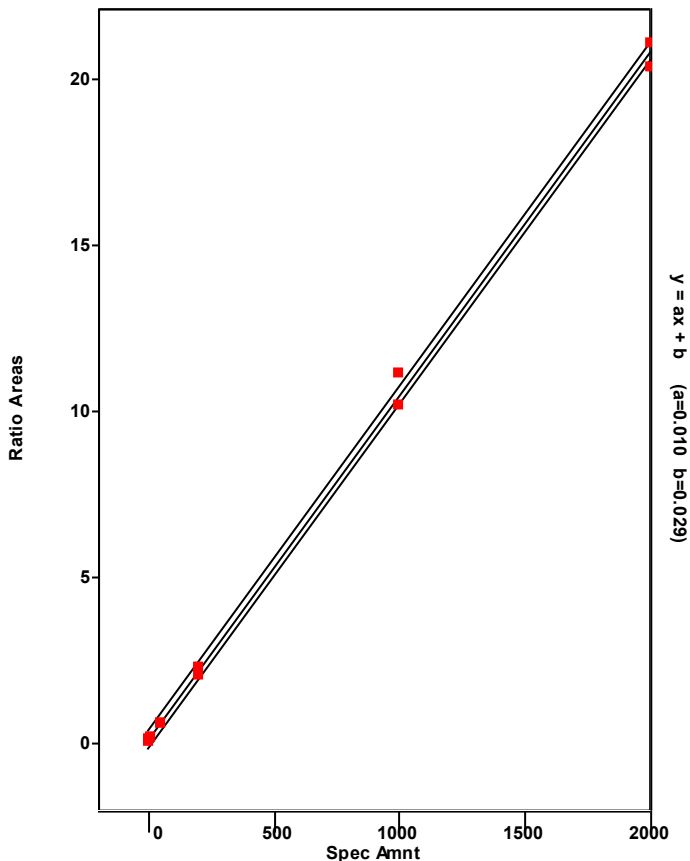


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

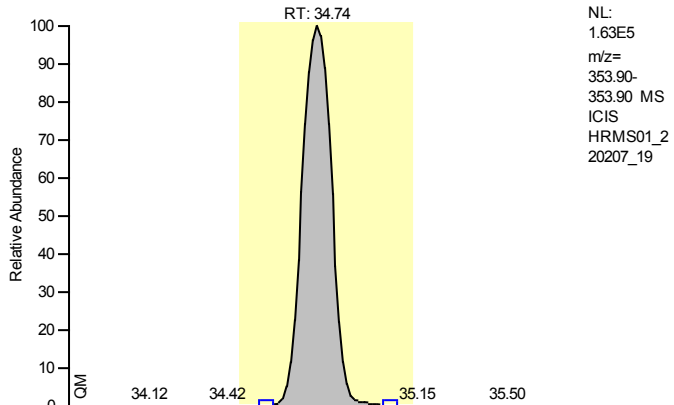
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



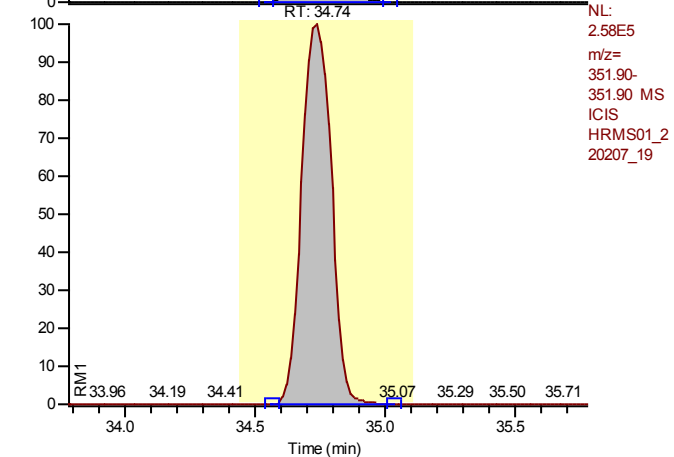
Chromatogram

Entry Parameters

RT: 33.78 - 35.78 SM: 7G



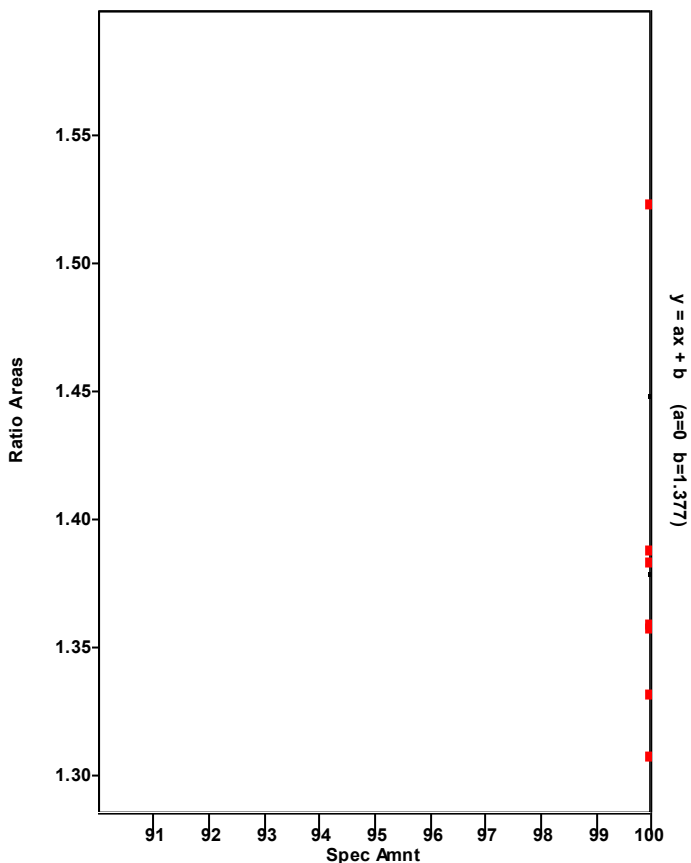
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1281214
RM1 Area	2047086
RM1 Ratio (A)	1.5978
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	70.56
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

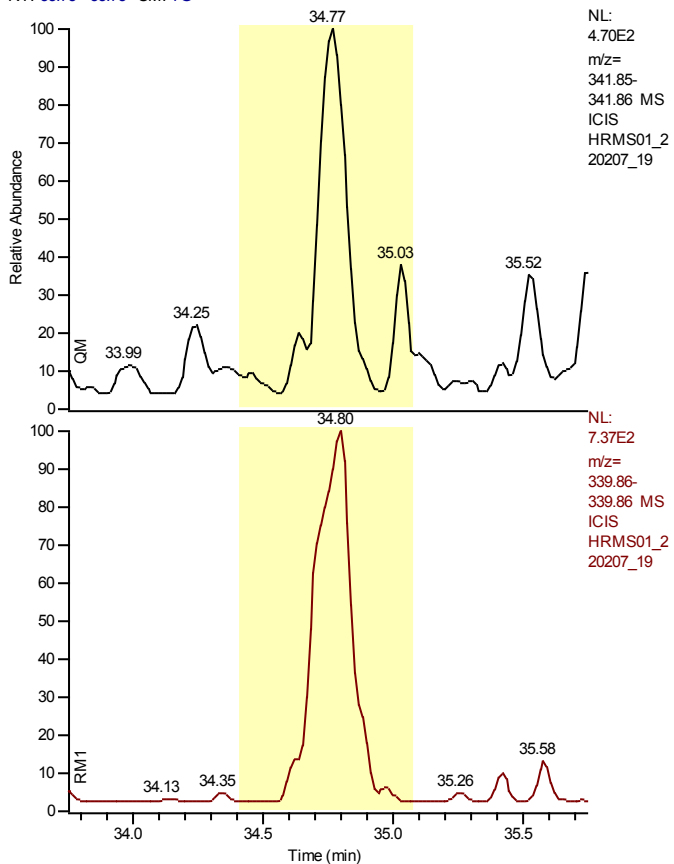
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.75 - 35.75 SM: 7G

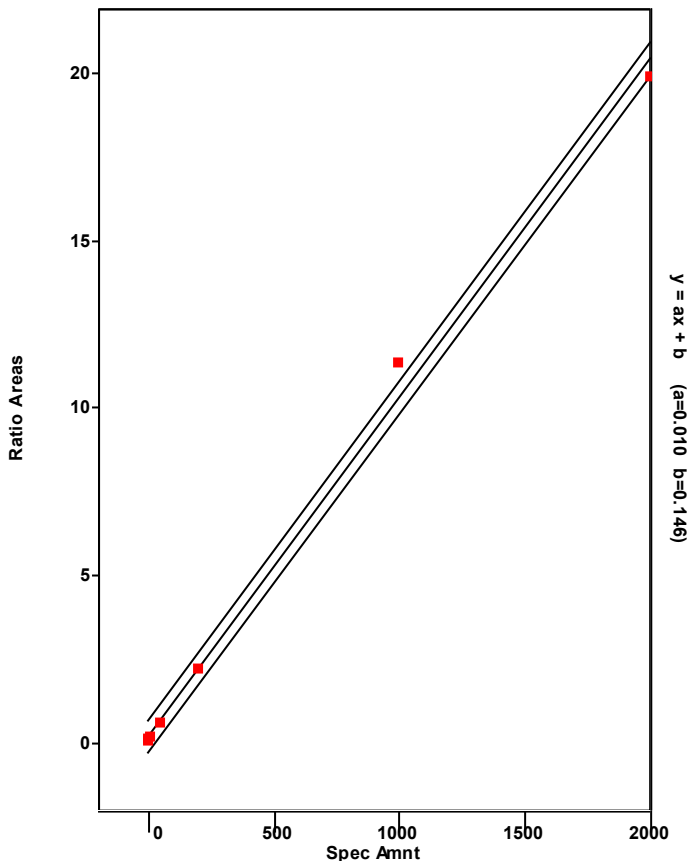


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

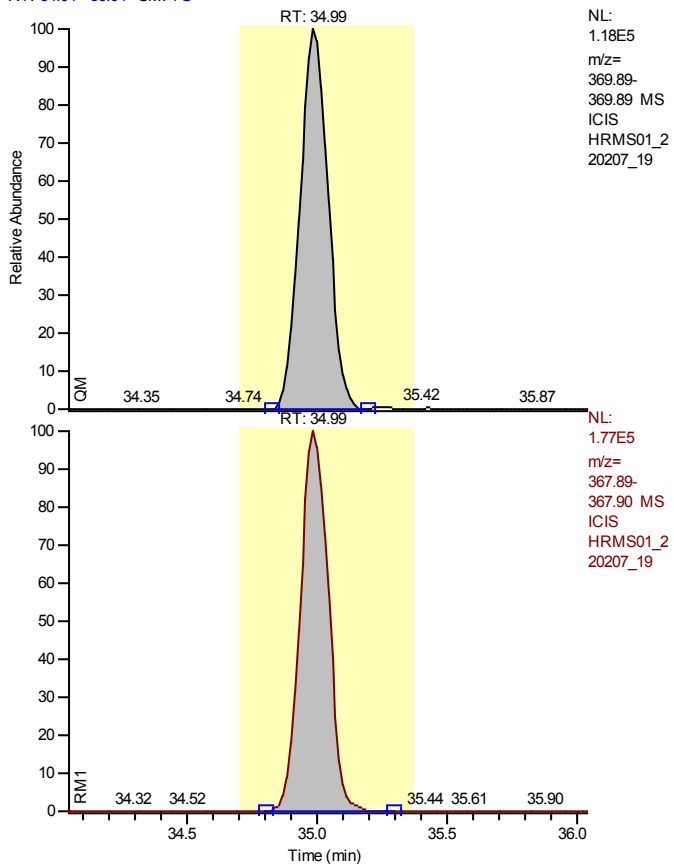
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.04 - 36.04 SM: 7G

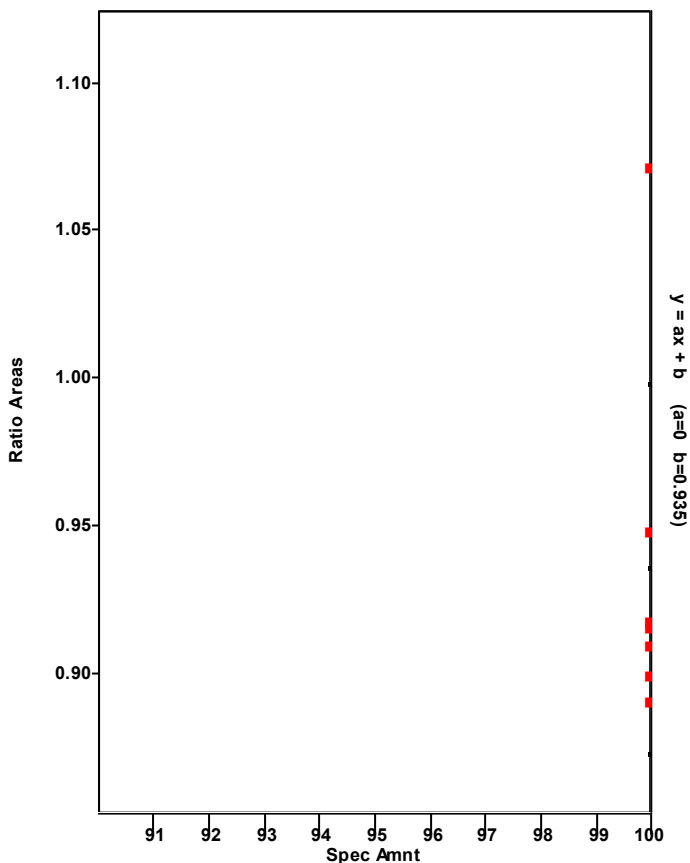


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	890698
RM1 Area	1332815
RM1 Ratio (A)	1.4964
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	69.48
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

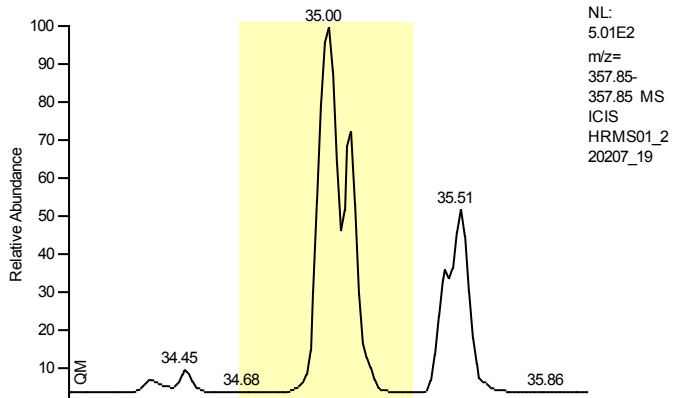
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

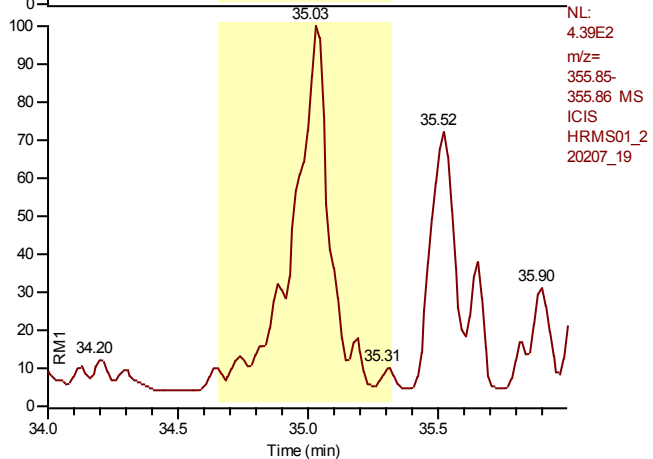
Entry Parameters

RT: 34.00 - 36.00 SM: 7G



NL:
 5.01E2
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_19

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

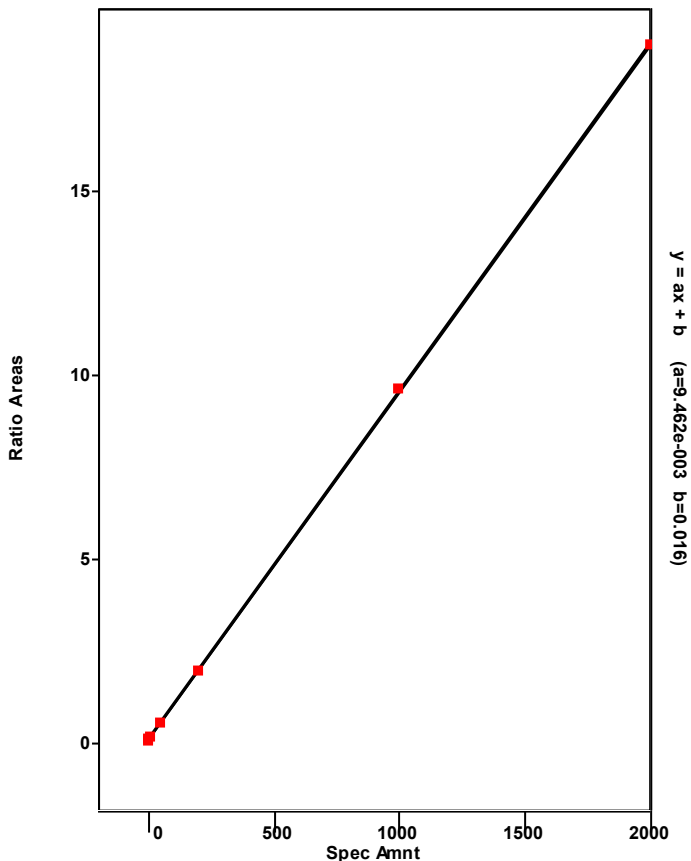


NL:
 4.39E2
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20207_19

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

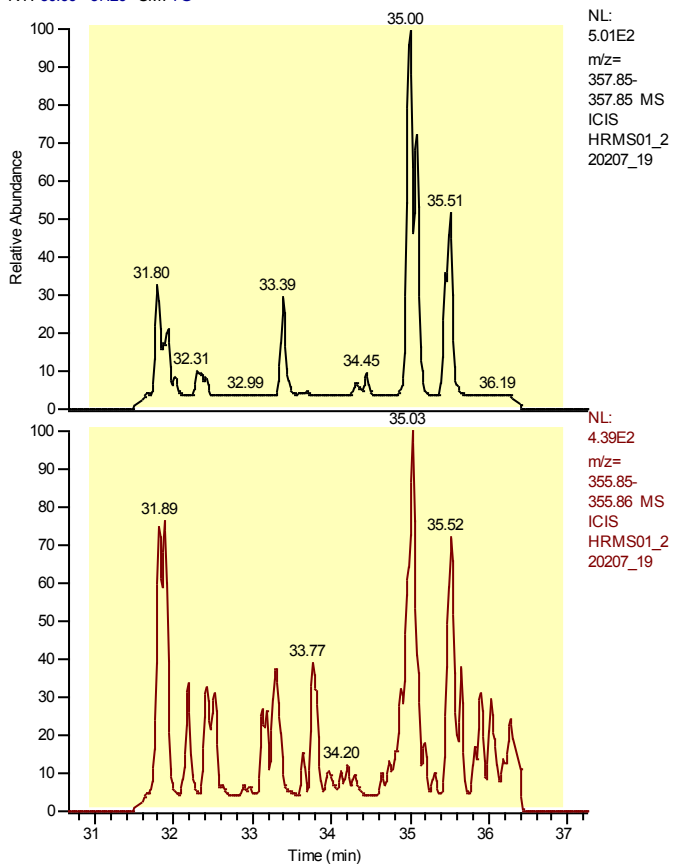
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.66 - 37.26 SM: 7G

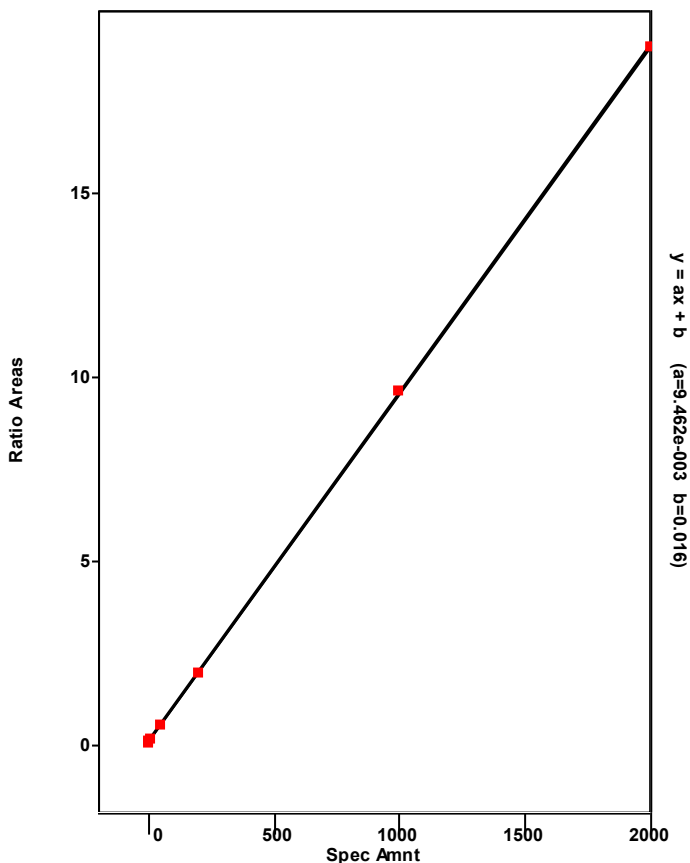


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

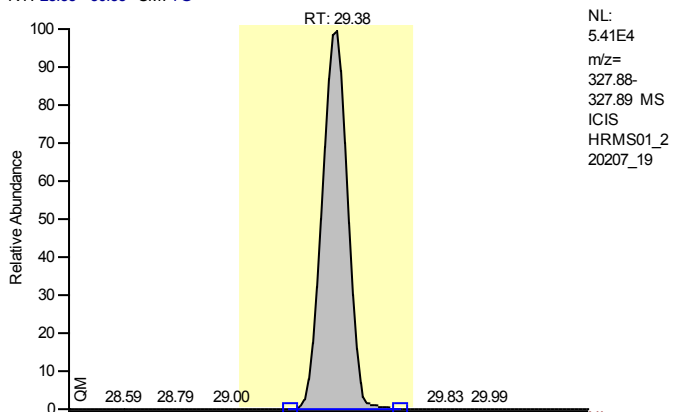
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



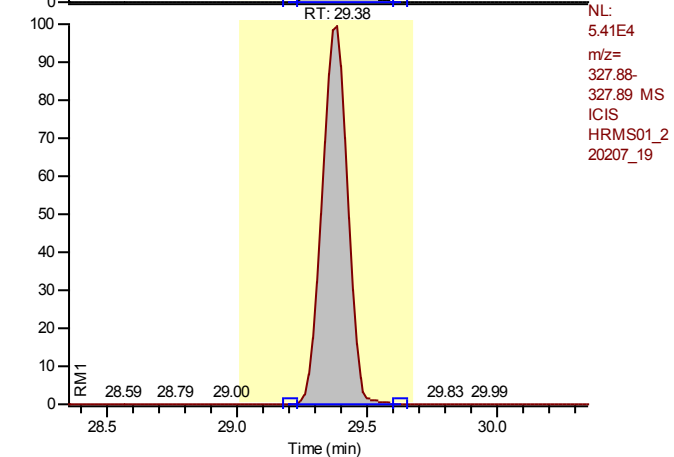
Chromatogram

Entry Parameters

RT: 28.35 - 30.35 SM: 7G



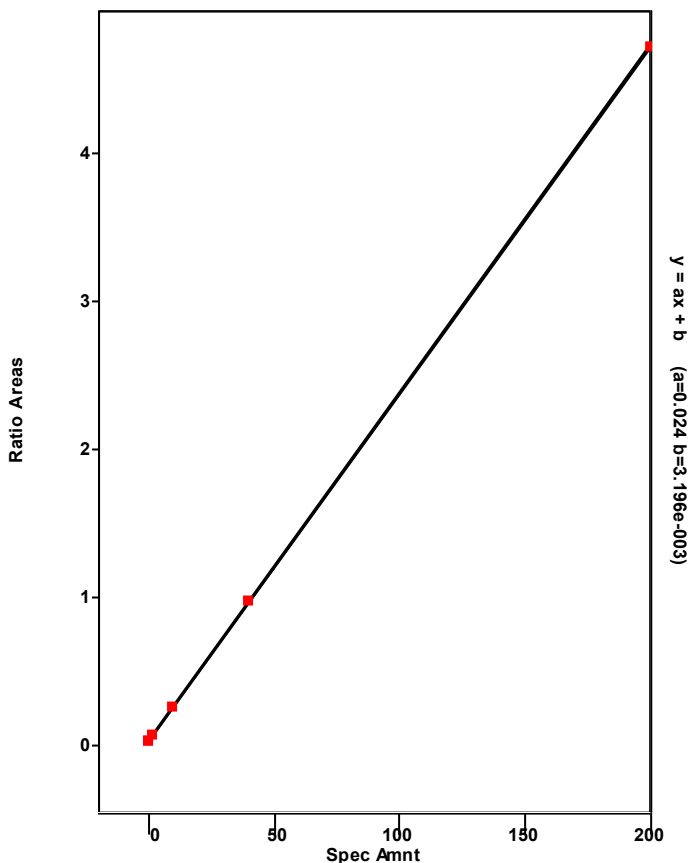
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	366336
RM1 Area	366336
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.88
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

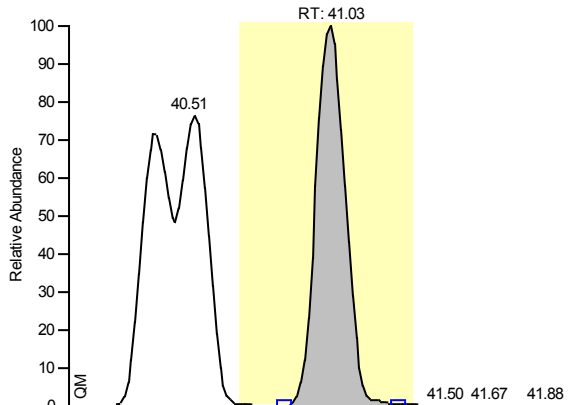
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

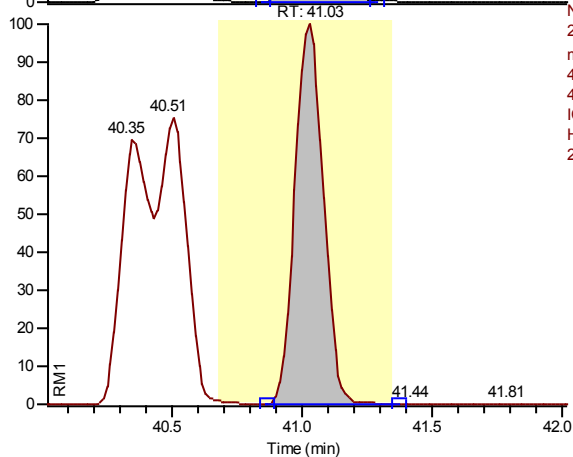
Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
 1.81E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_19

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	
Compound Name	123789-HxCDD 13C12 STD	
Label1		
QM Area	1439248	
RM1 Area	1824877	
RM1 Ratio (A)	1.2679	
Ratio1 Limit	1.0500 - 1.4300	
Specified Amount	100.00	
Calculated Amount (A)	100.00	
Percent Recovery (A)	100	
TEQ (A)	0.0000	
Label2		

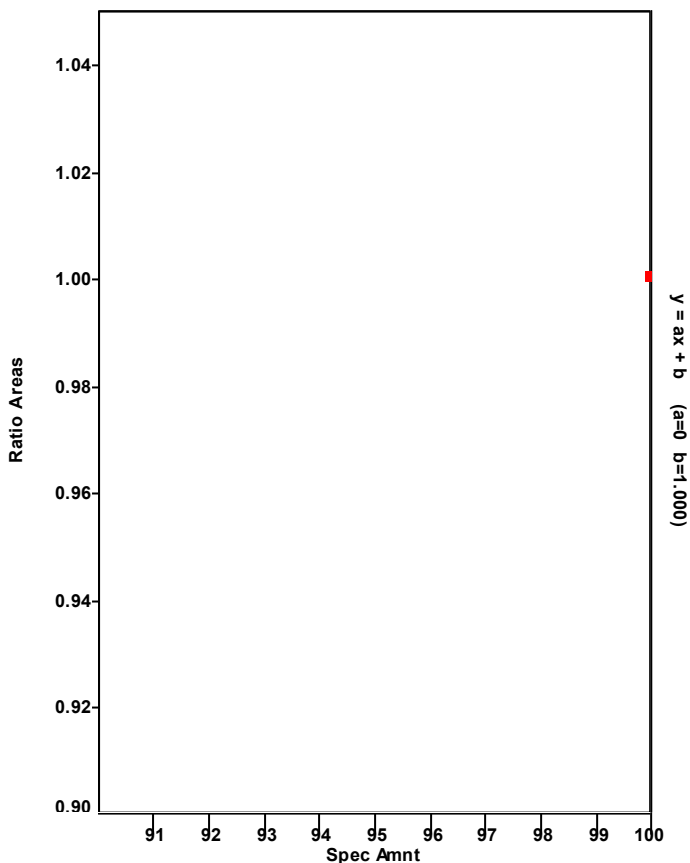


NL:
 2.39E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_19

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

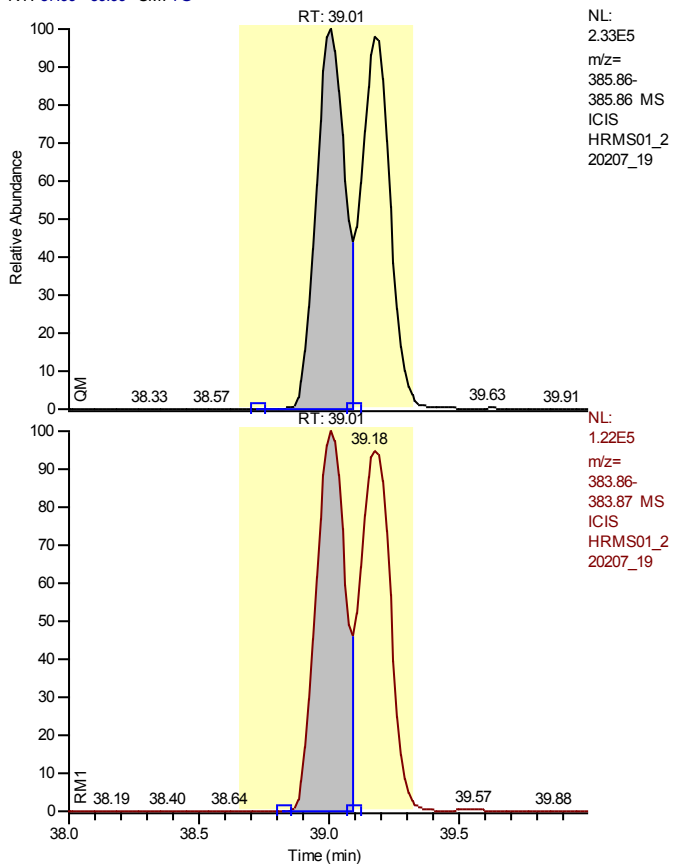
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 37.99 - 39.99 SM: 7G

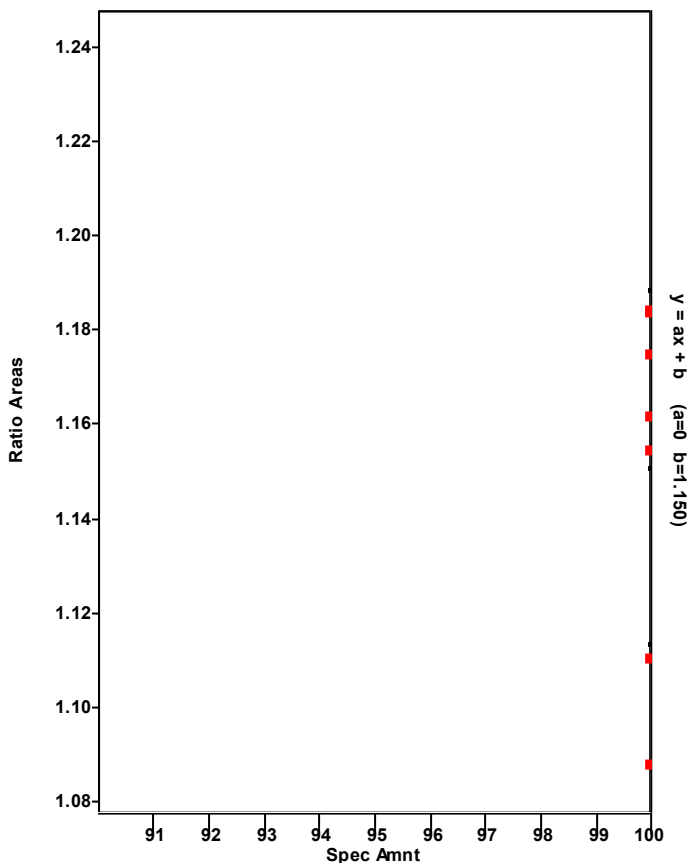


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1790380
RM1 Area	951062
RM1 Ratio (A)	0.5312
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	73.01
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

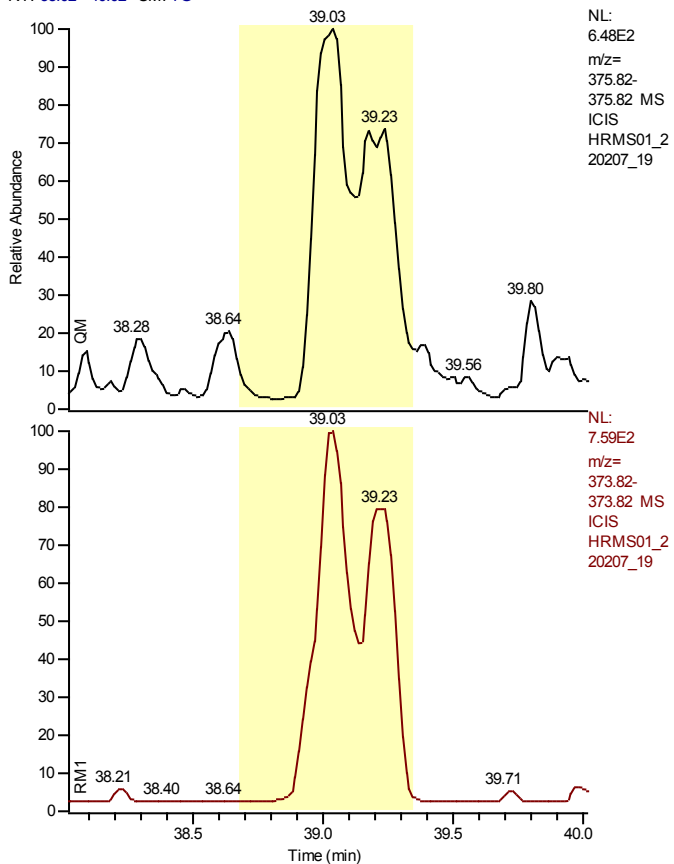
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.02 - 40.02 SM: 7G



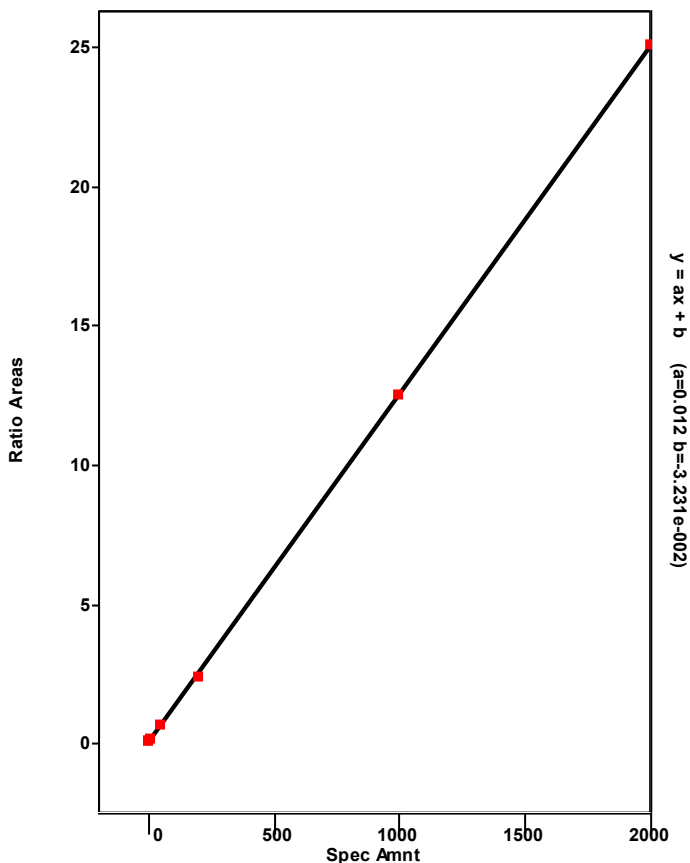
NL:
 6.48E2
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_19

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

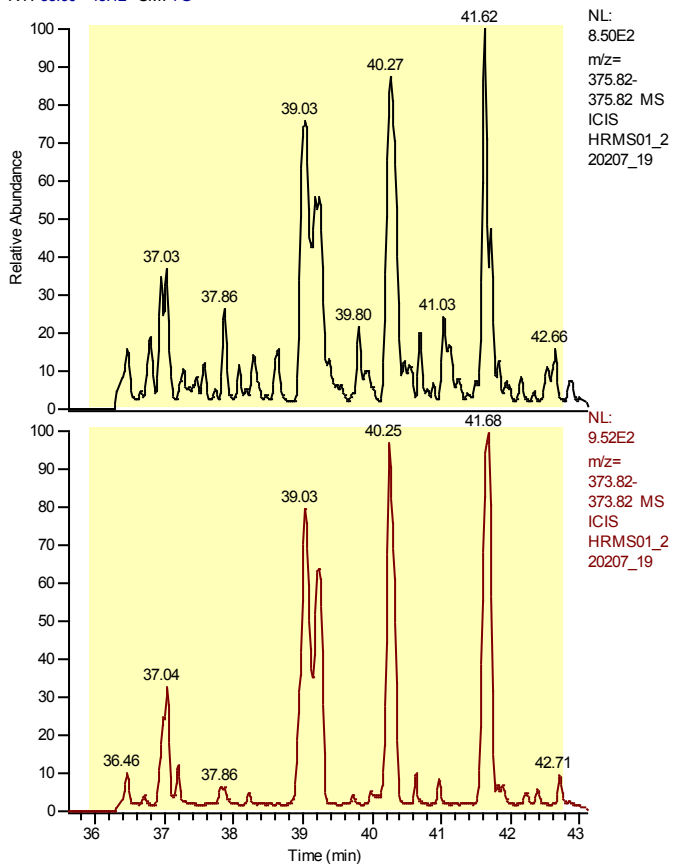
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.60 - 43.12 SM: 7G

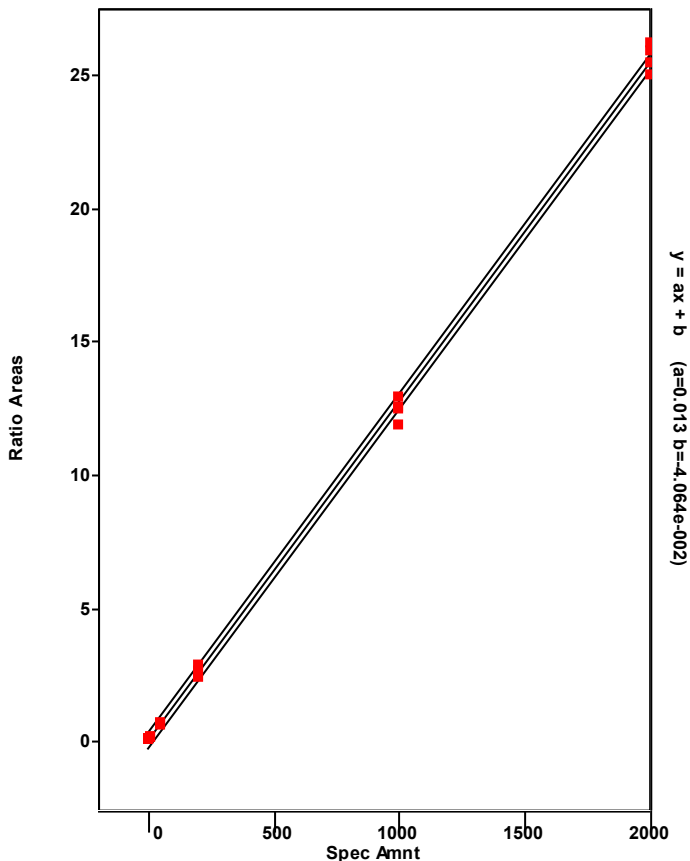


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

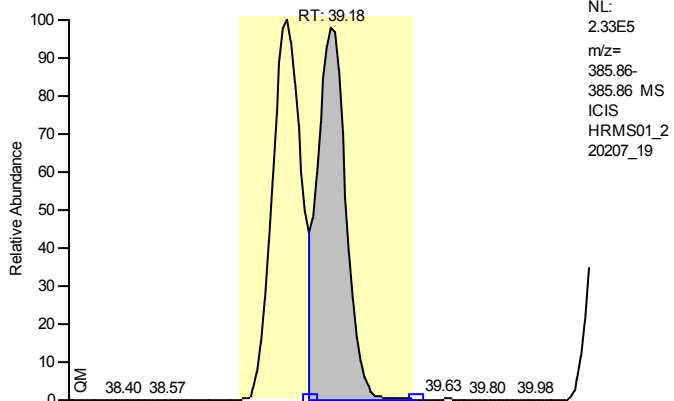
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



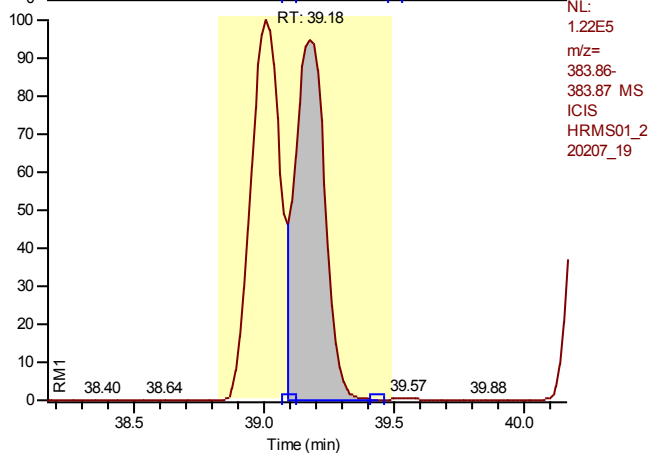
Chromatogram

Entry Parameters

RT: 38.16 - 40.16 SM: 7G



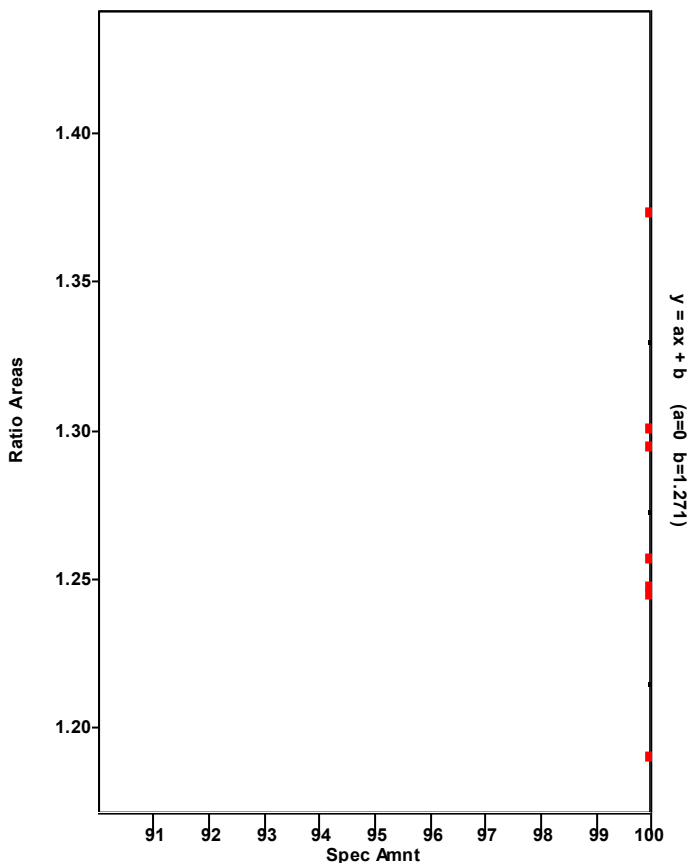
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1772017
RM1 Area	934434
RM1 Ratio (A)	0.5273
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	65.21
Percent Recovery (A)	65
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

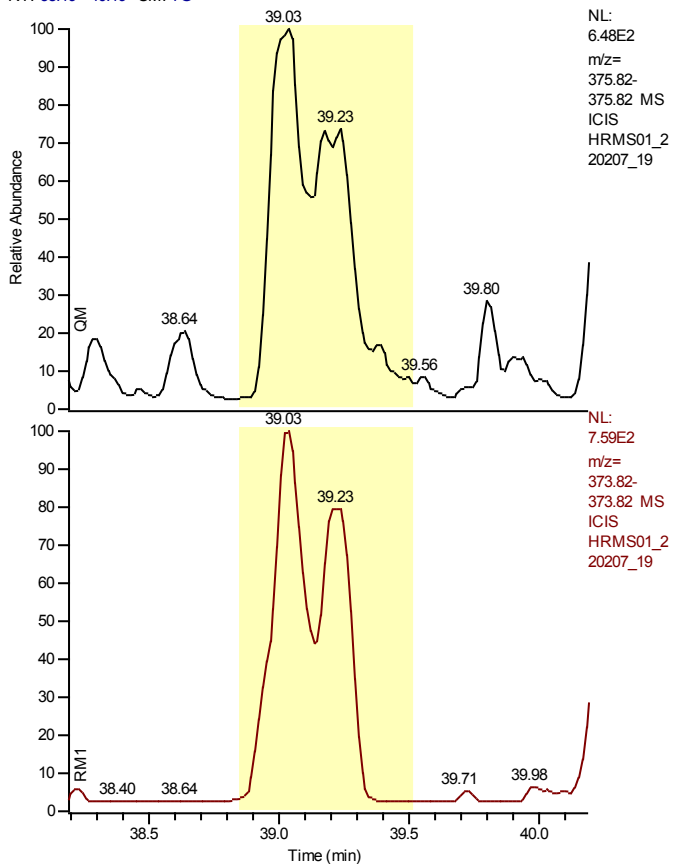
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.19 - 40.19 SM: 7G

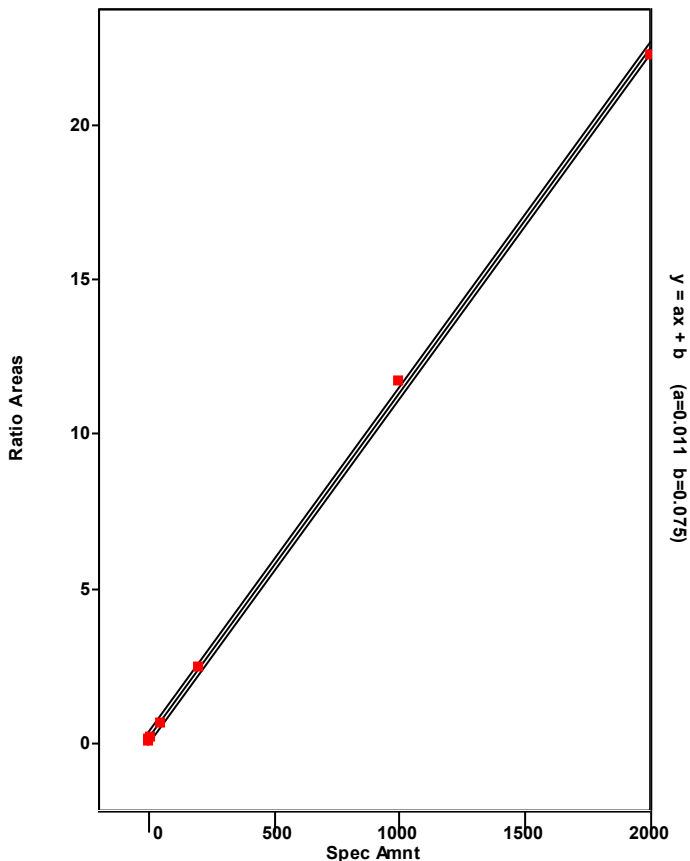


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

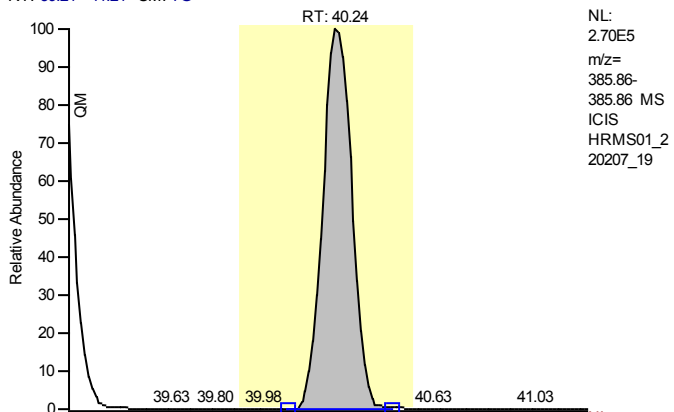
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



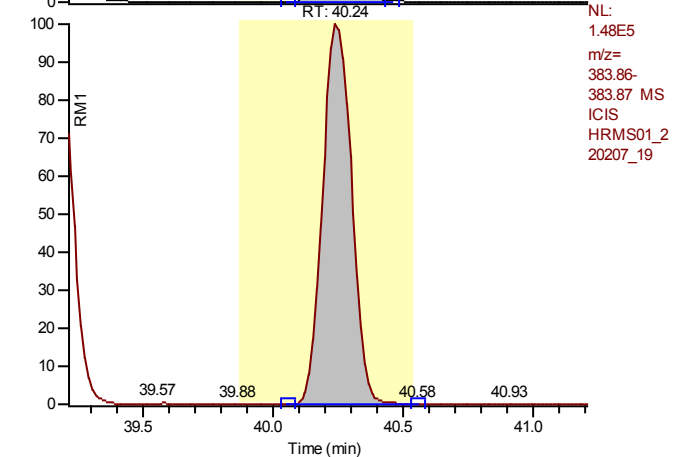
Chromatogram

Entry Parameters

RT: 39.21 - 41.21 SM: 7G



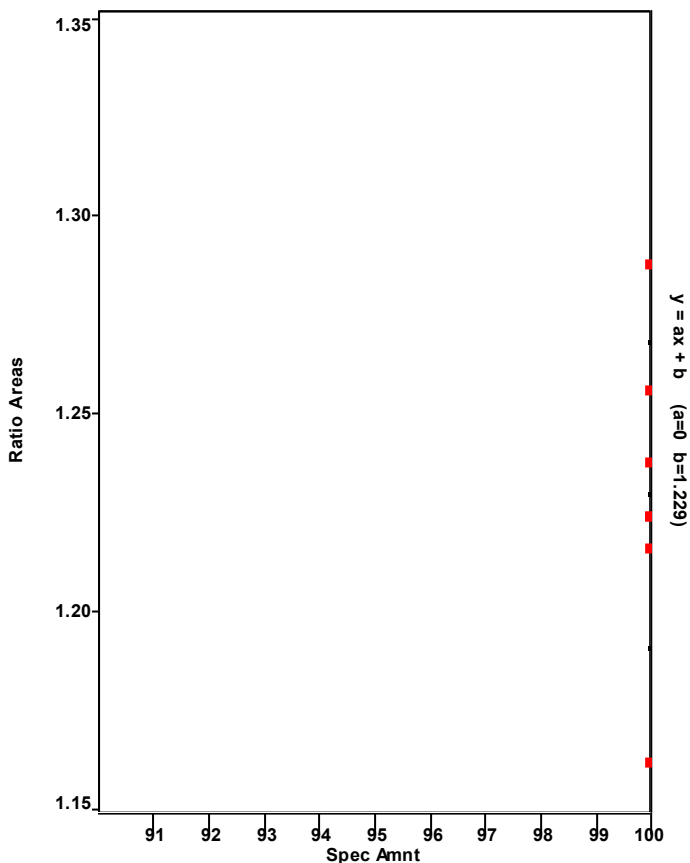
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2100491
RM1 Area	1149002
RM1 Ratio (A)	0.5470
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	81.01
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

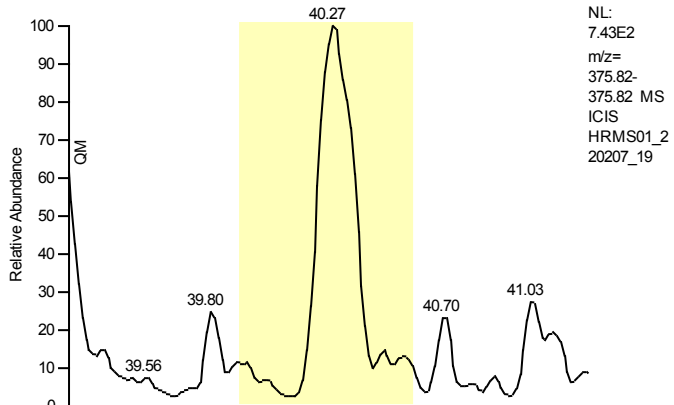
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



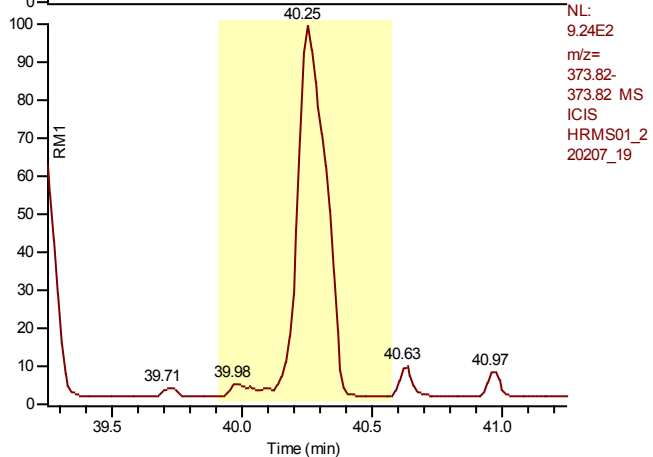
Chromatogram

Entry Parameters

RT: 39.25 - 41.25 SM: 7G



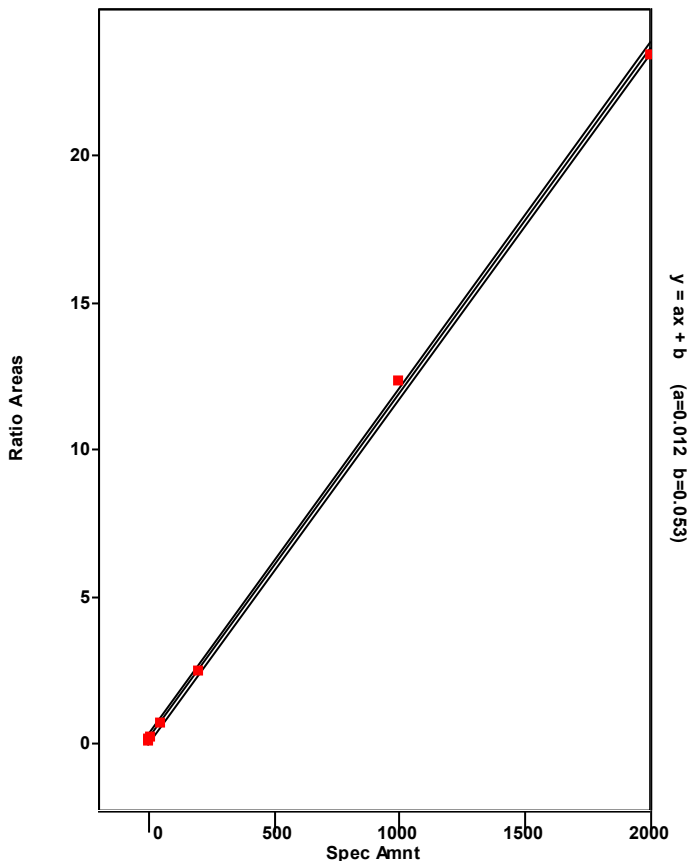
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

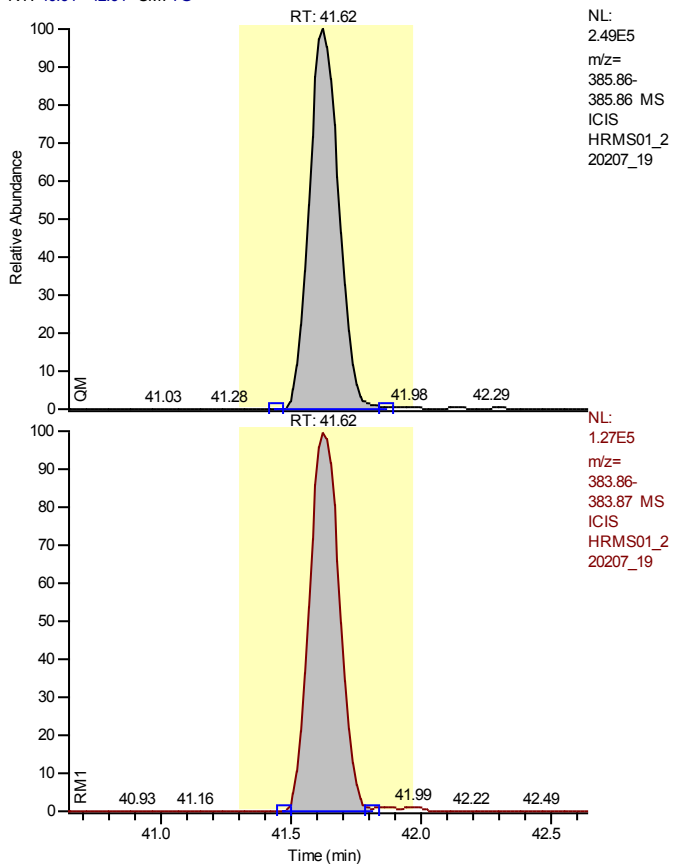
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



Chromatogram

Entry Parameters

RT: 40.64 - 42.64 SM: 7G

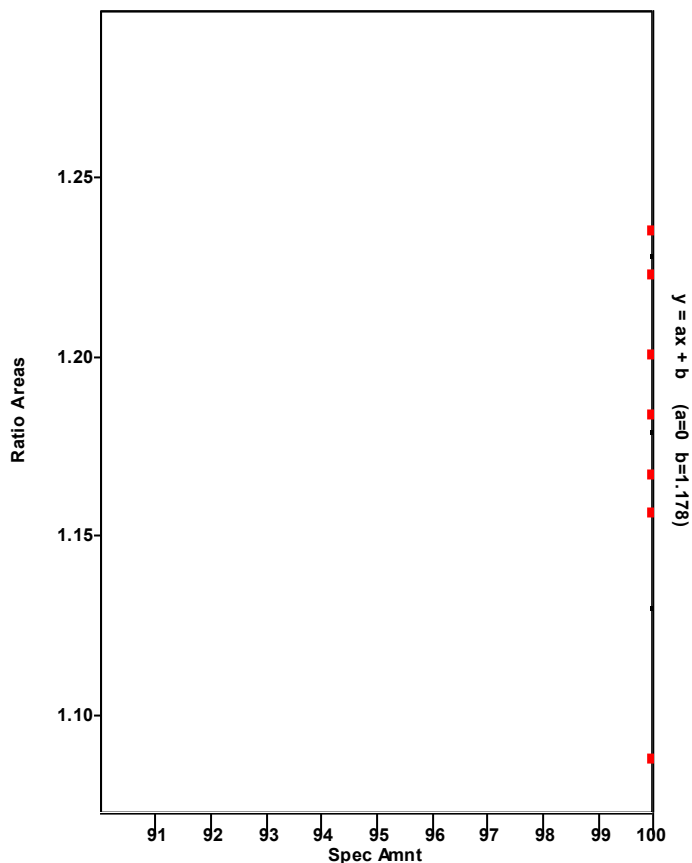


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1981148
RM1 Area	1024250
RM1 Ratio (A)	0.5170
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	78.14
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

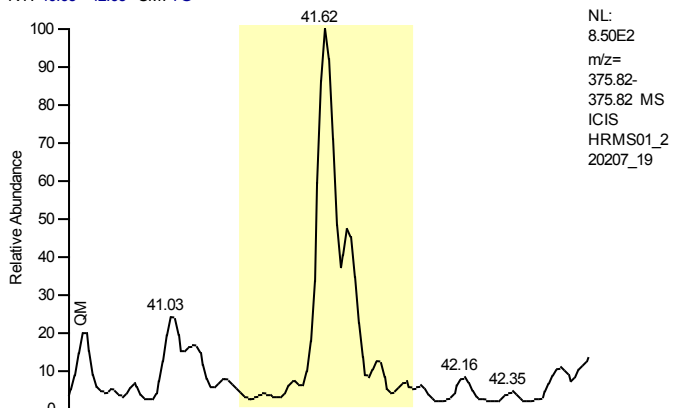
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



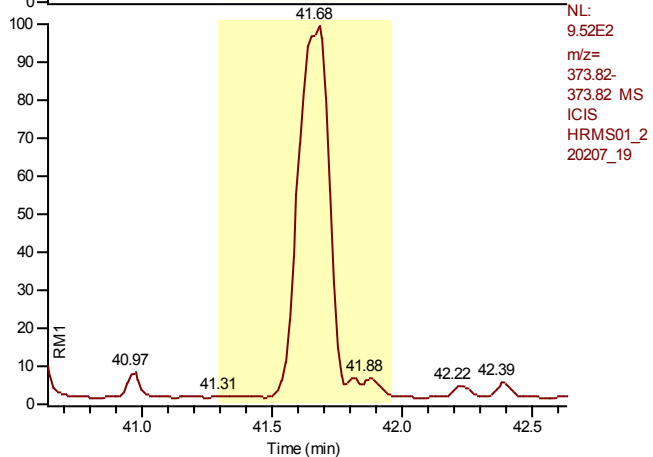
Chromatogram

Entry Parameters

RT: 40.63 - 42.63 SM: 7G



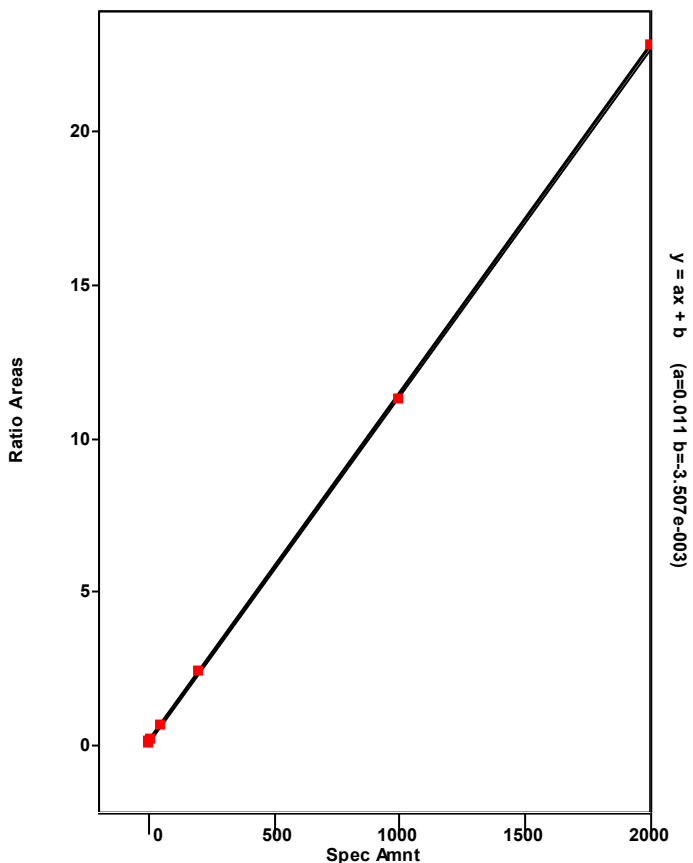
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

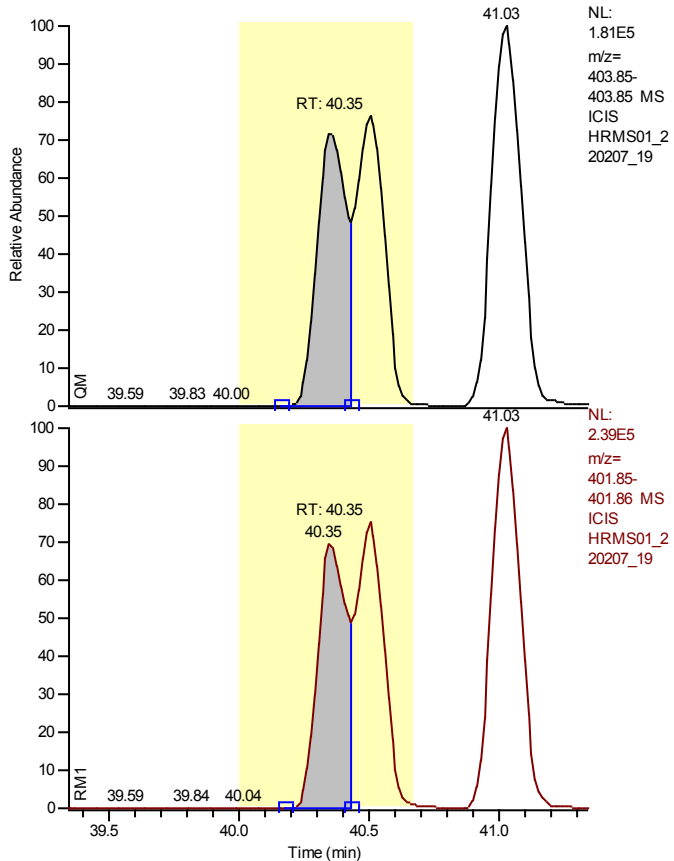
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

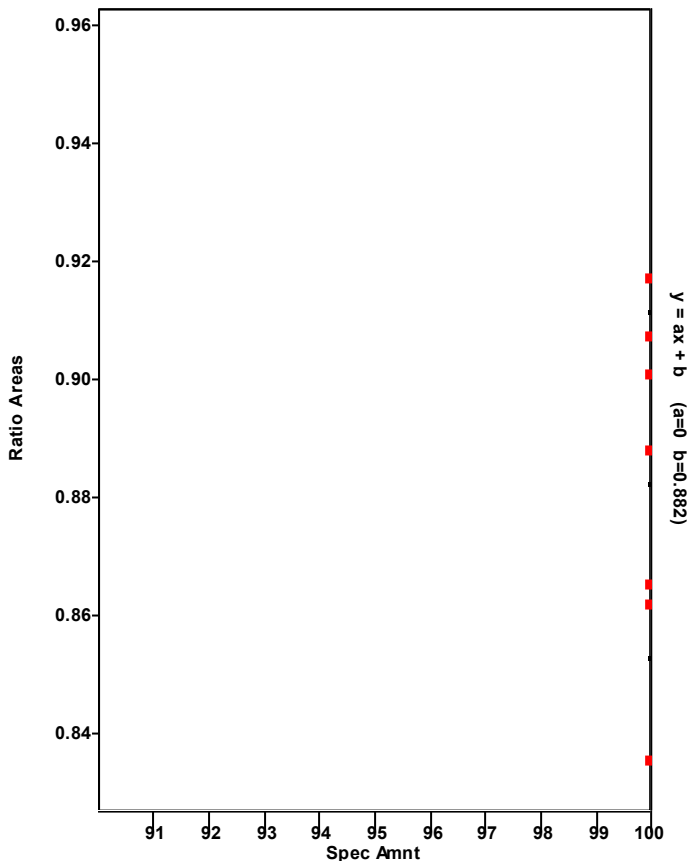
RT: 39.34 - 41.34 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1010377
RM1 Area	1261787
RM1 Ratio (A)	1.2488
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	78.96
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

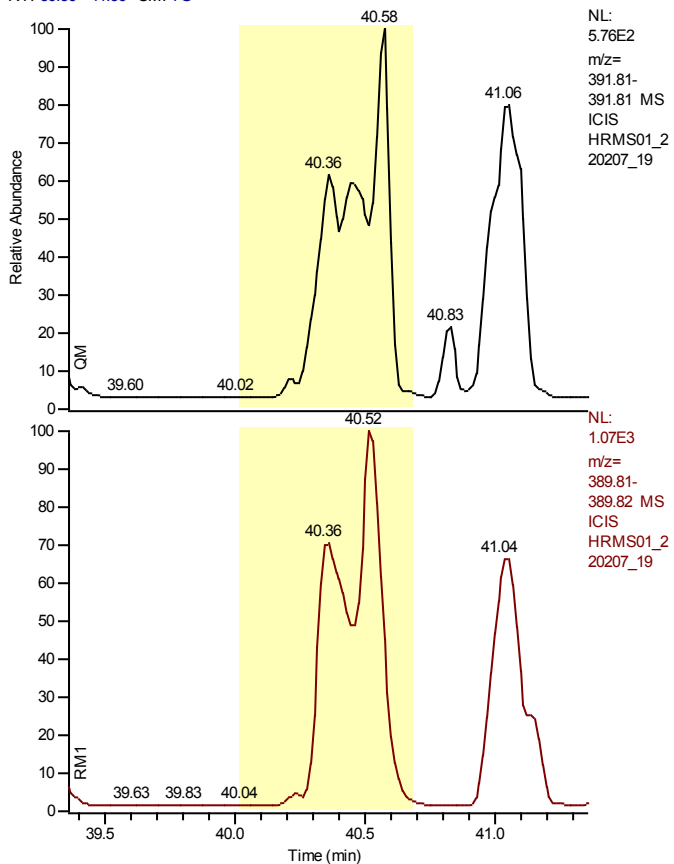
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.36 - 41.36 SM: 7G

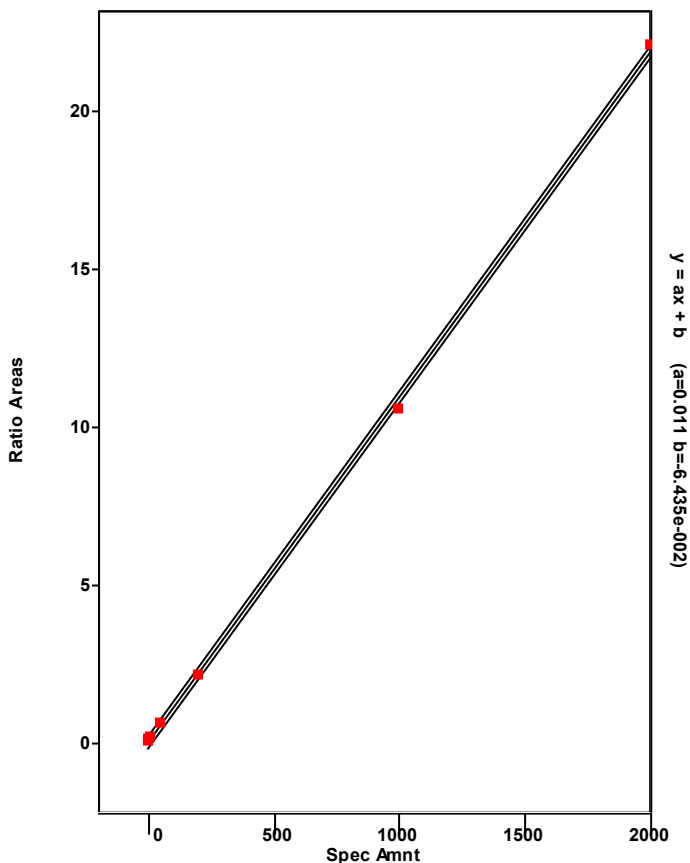


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

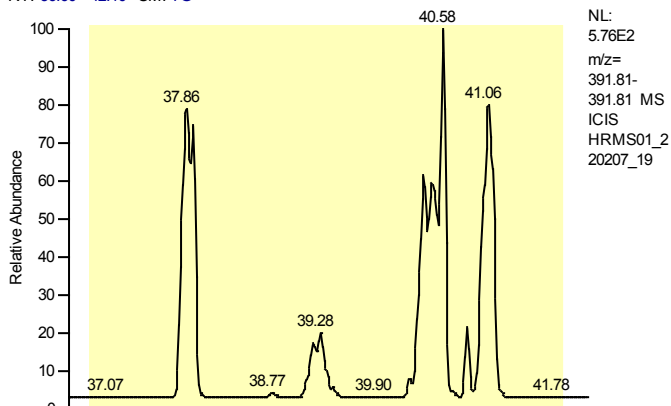
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



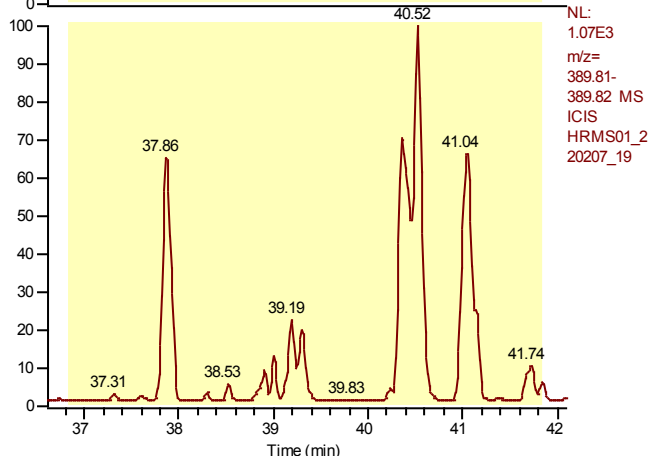
Chromatogram

Entry Parameters

RT: 36.60 - 42.10 SM: 7G



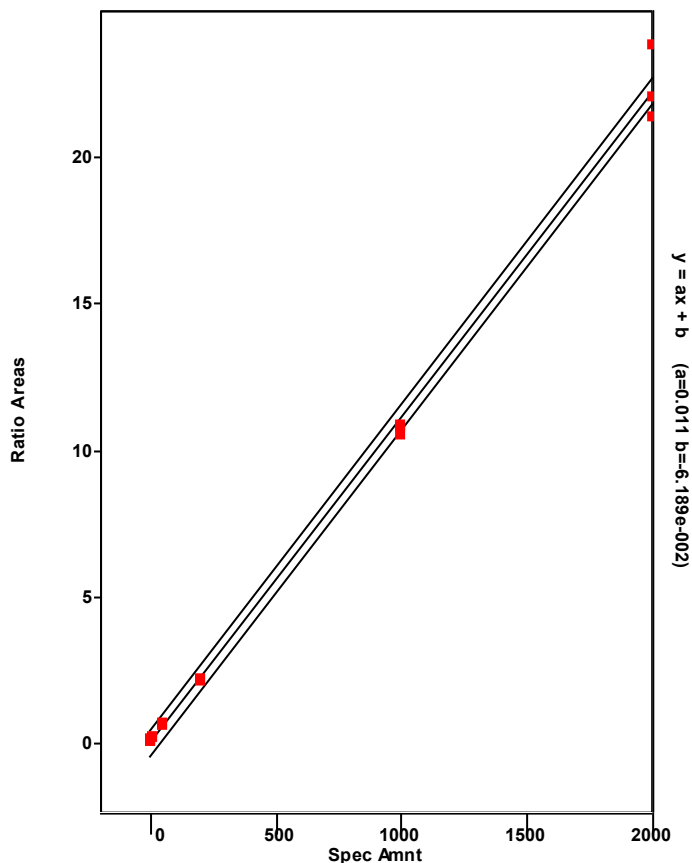
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

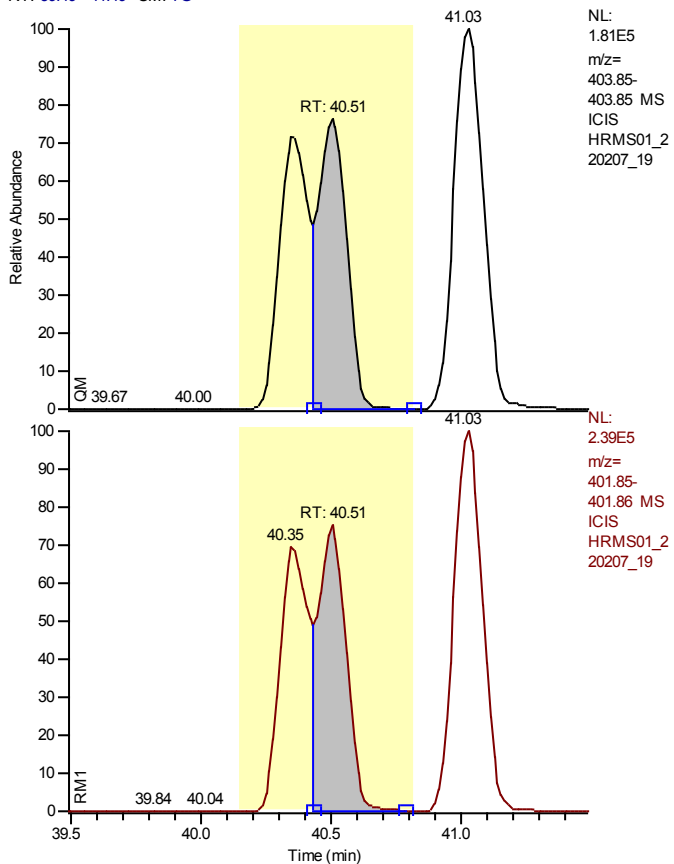
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

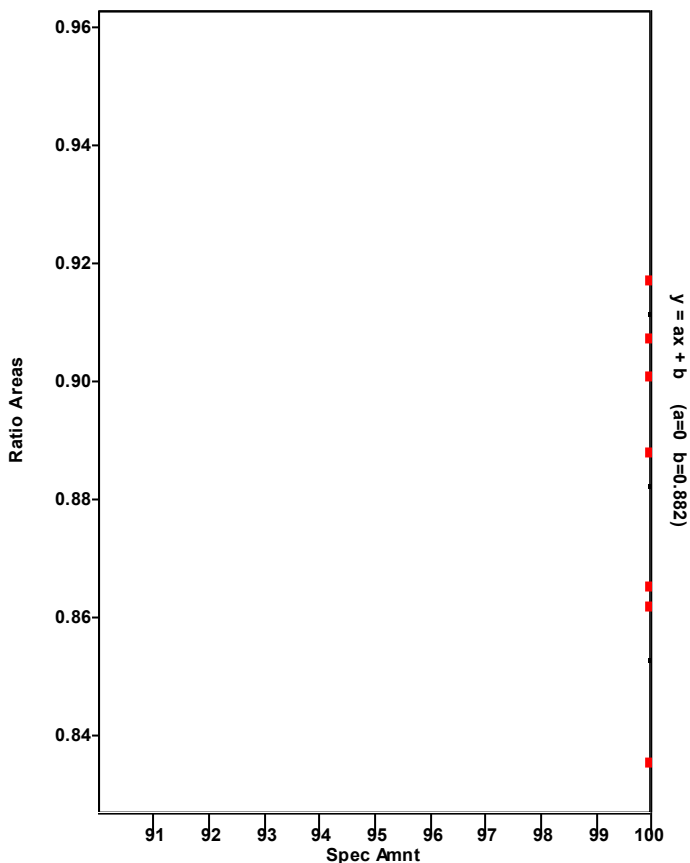
RT: 39.49 - 41.49 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1037411
RM1 Area	1316830
RM1 Ratio (A)	1.2693
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	81.81
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

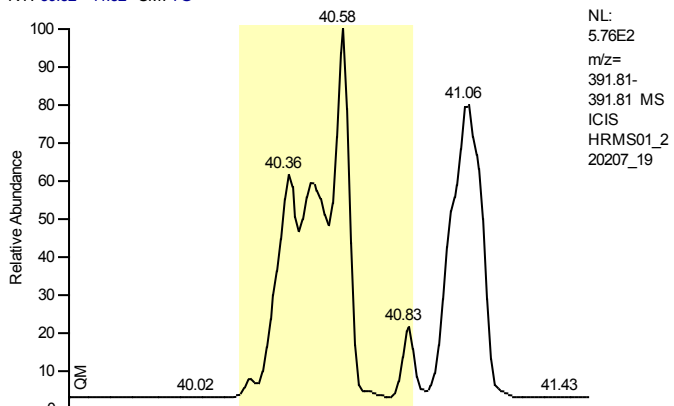
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



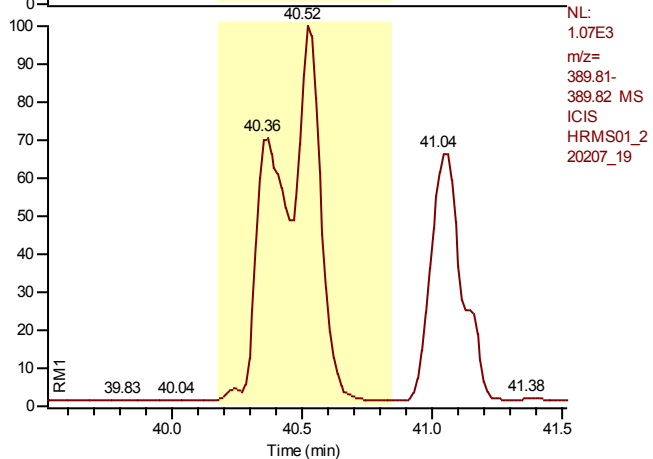
Chromatogram

Entry Parameters

RT: 39.52 - 41.52 SM: 7G



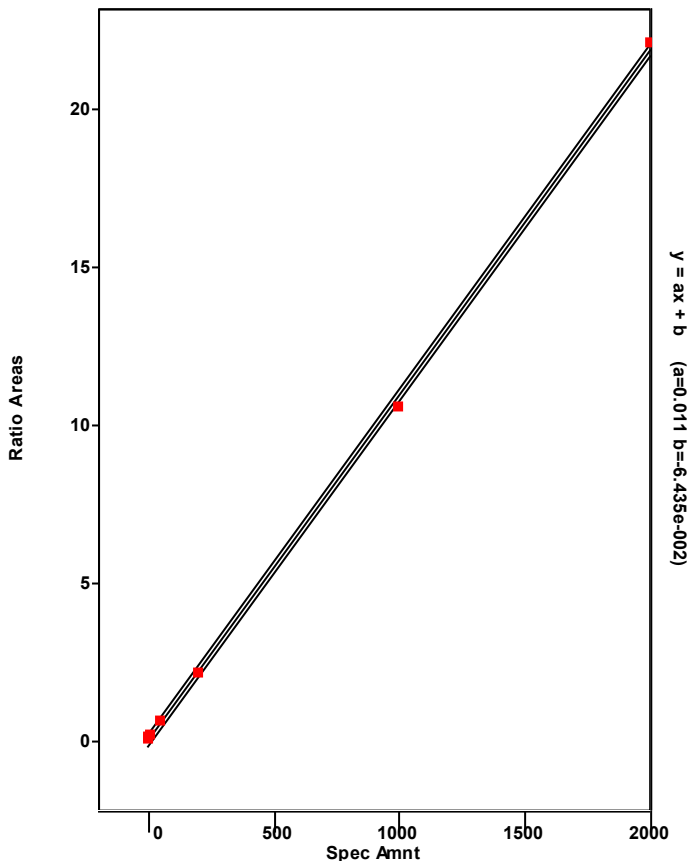
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

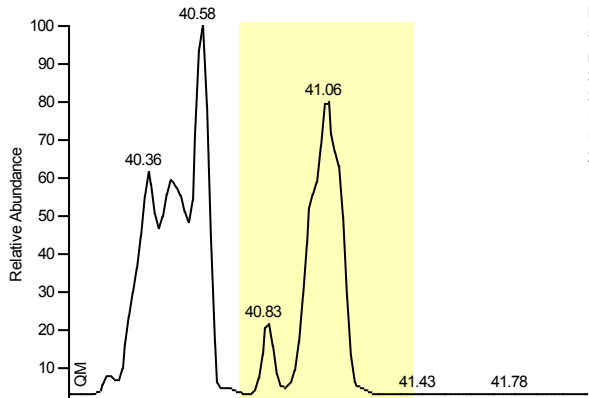
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

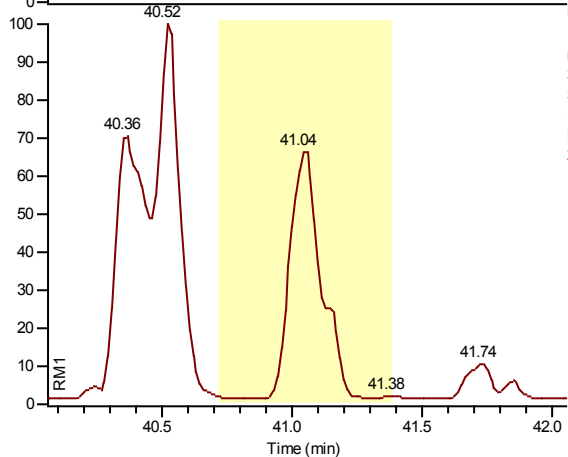
Entry Parameters

RT: 40.06 - 42.06 SM: 7G



NL:
 5.76E2
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_19

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

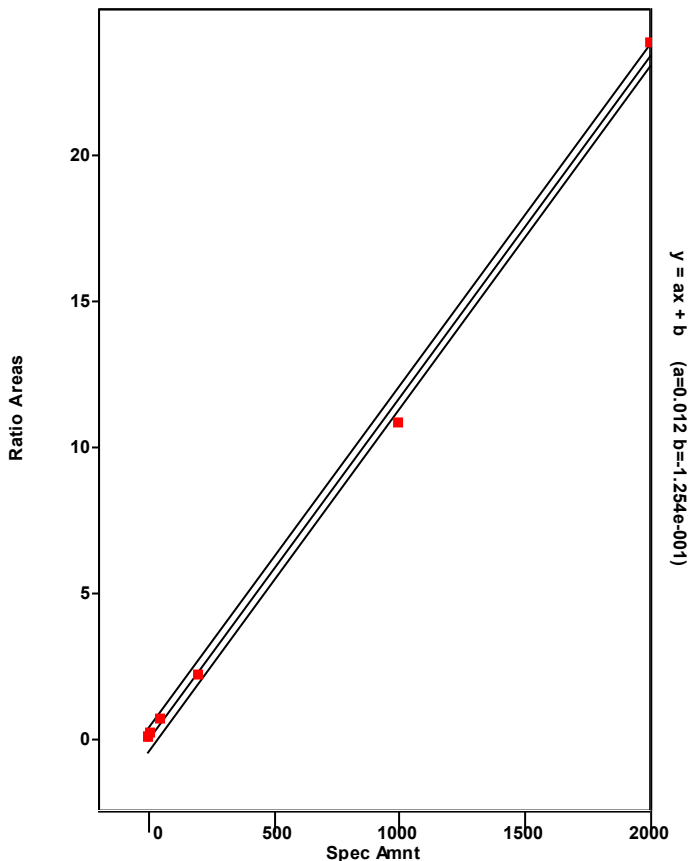


NL:
 1.07E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_19

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

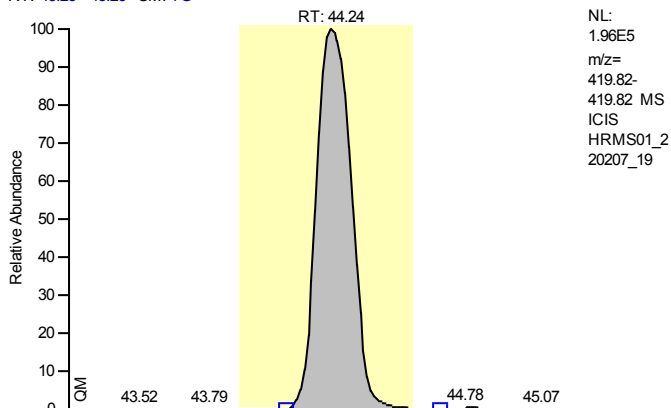
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



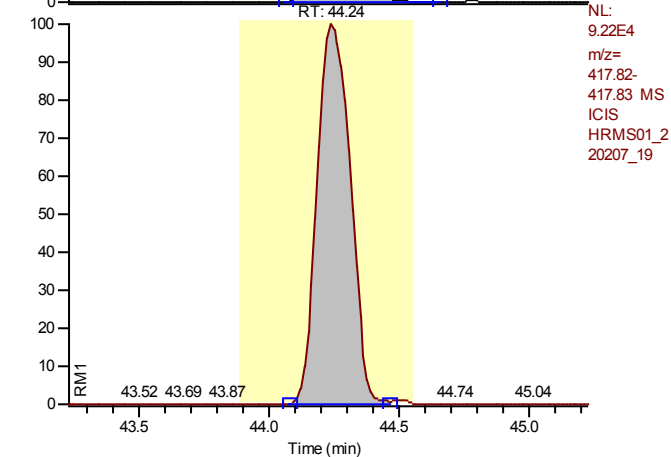
Chromatogram

Entry Parameters

RT: 43.23 - 45.23 SM: 7G

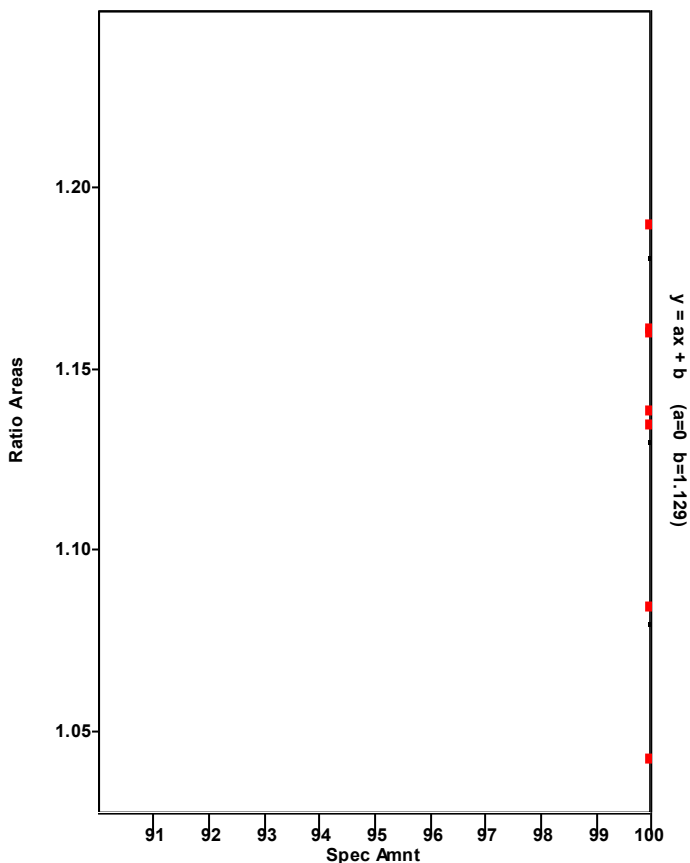


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1825700
RM1 Area	819627
RM1 Ratio (A)	0.4489
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	71.77
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

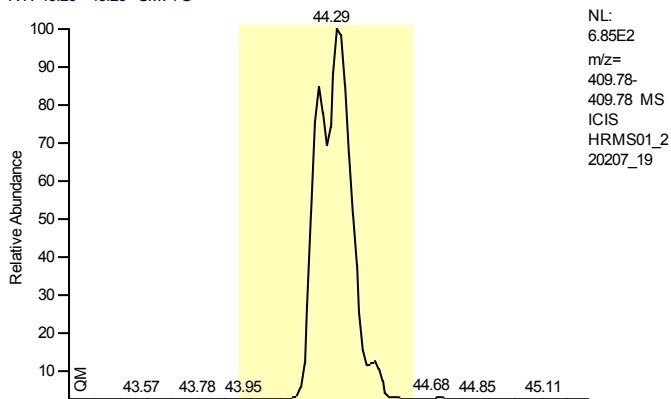
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



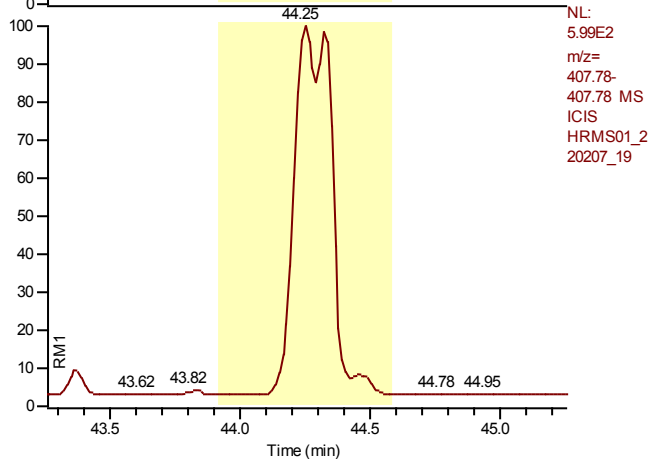
Chromatogram

Entry Parameters

RT: 43.26 - 45.26 SM: 7G



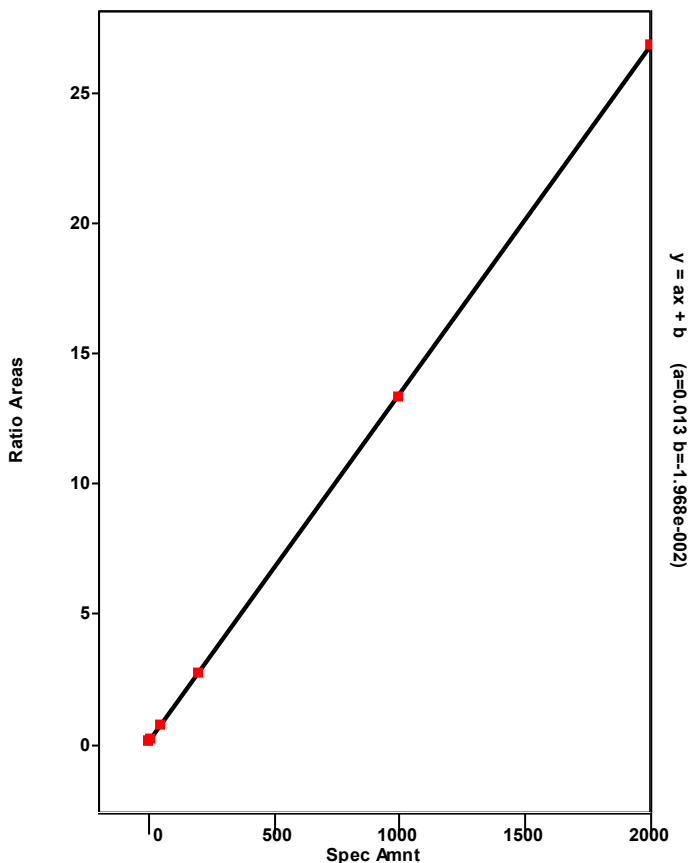
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

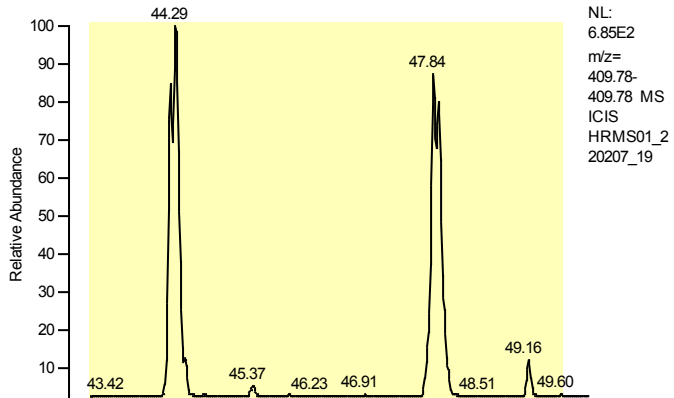
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



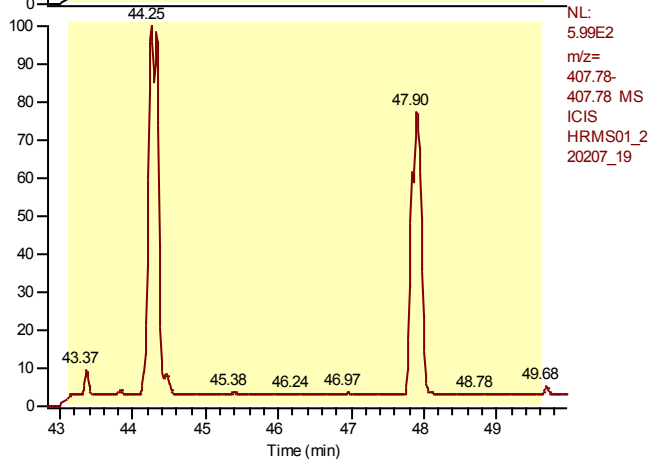
Chromatogram

Entry Parameters

RT: 42.82 - 49.97 SM: 7G



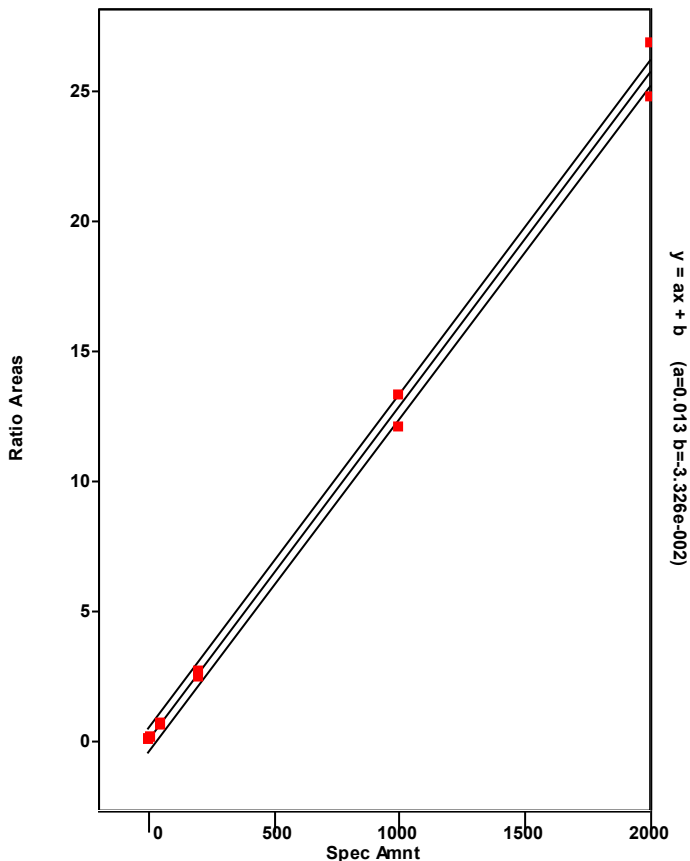
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

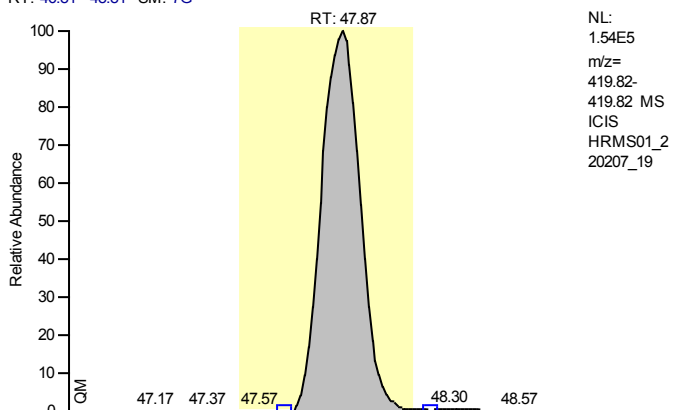
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



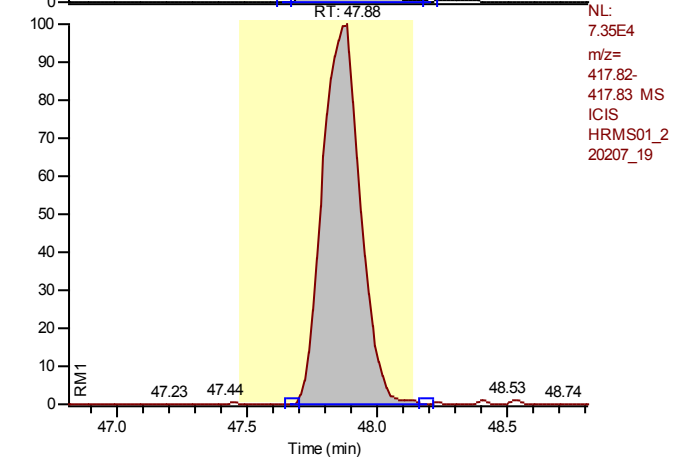
Chromatogram

Entry Parameters

RT: 46.81 - 48.81 SM: 7G

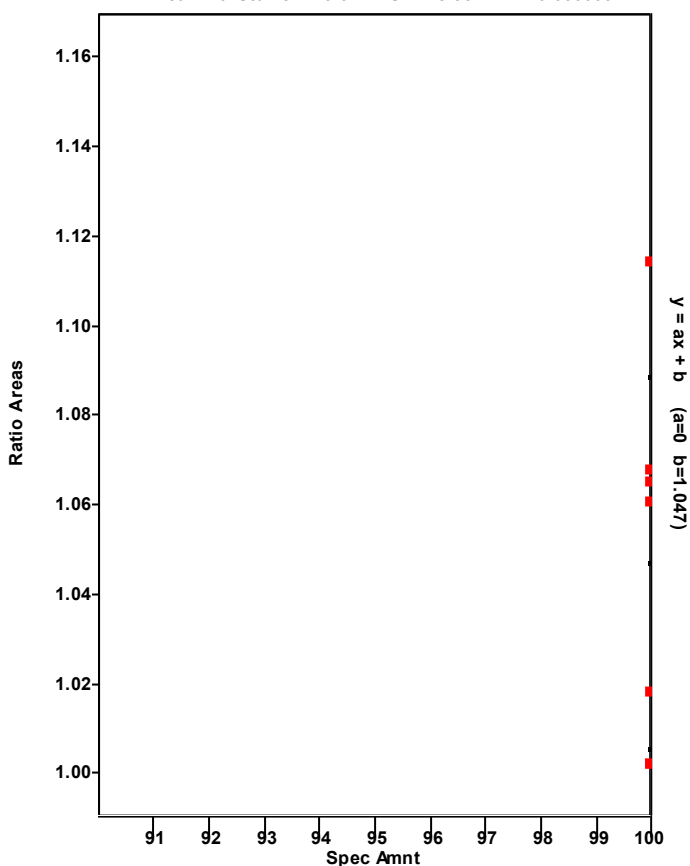


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1604367
RM1 Area	743330
RM1 Ratio (A)	0.4633
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	68.73
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

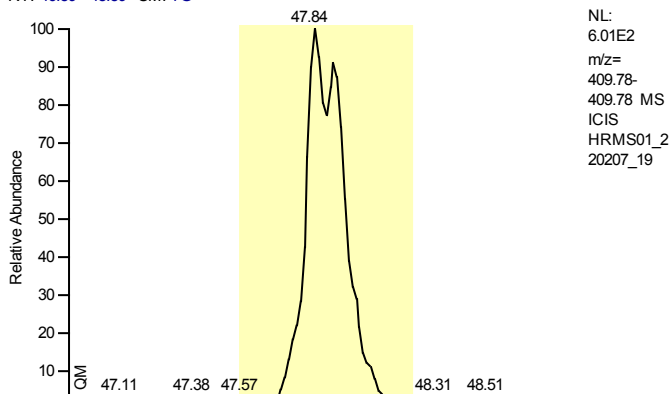
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



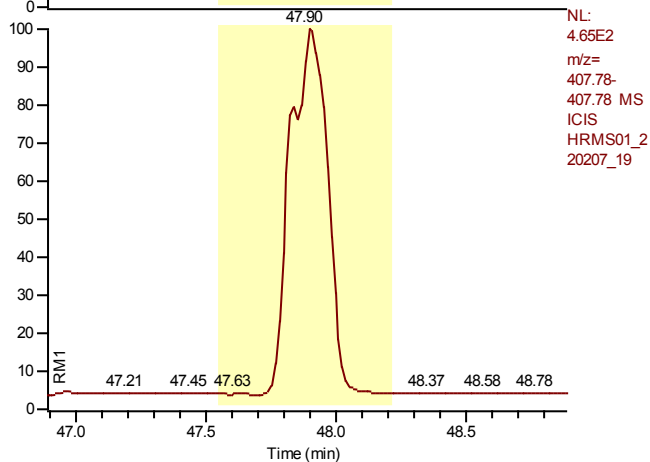
Chromatogram

Entry Parameters

RT: 46.89 - 48.89 SM: 7G



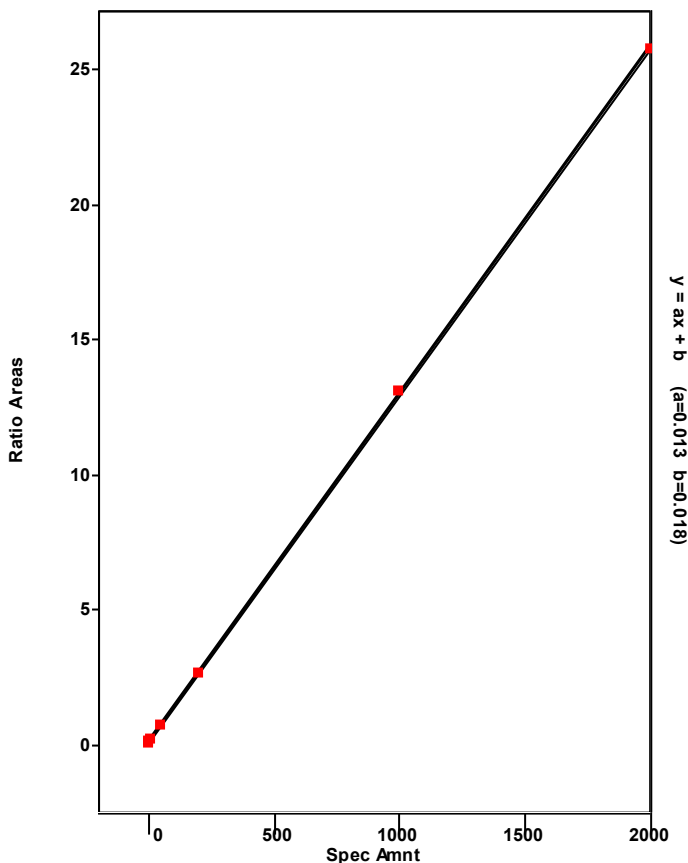
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

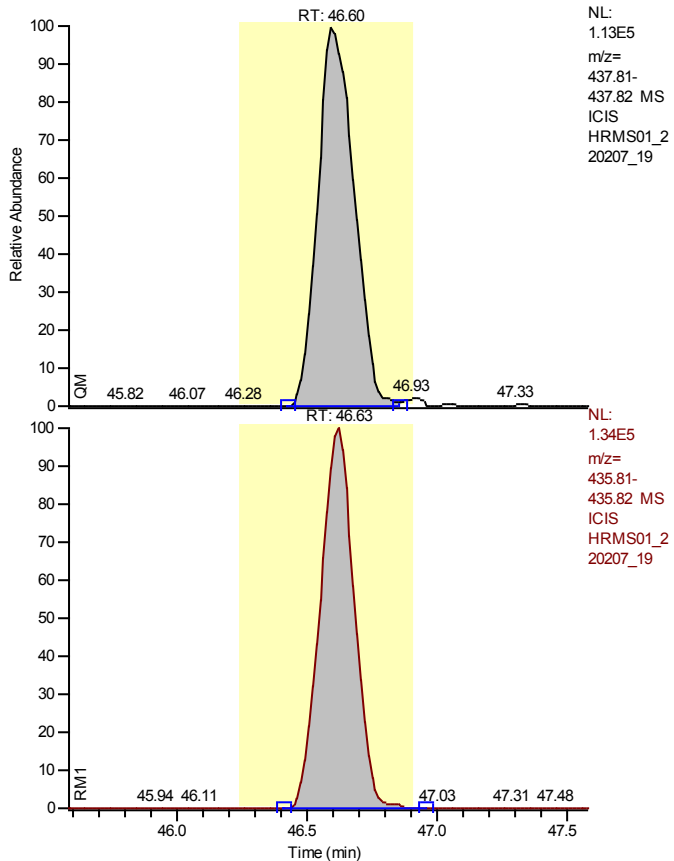
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.58 - 47.58 SM: 7G



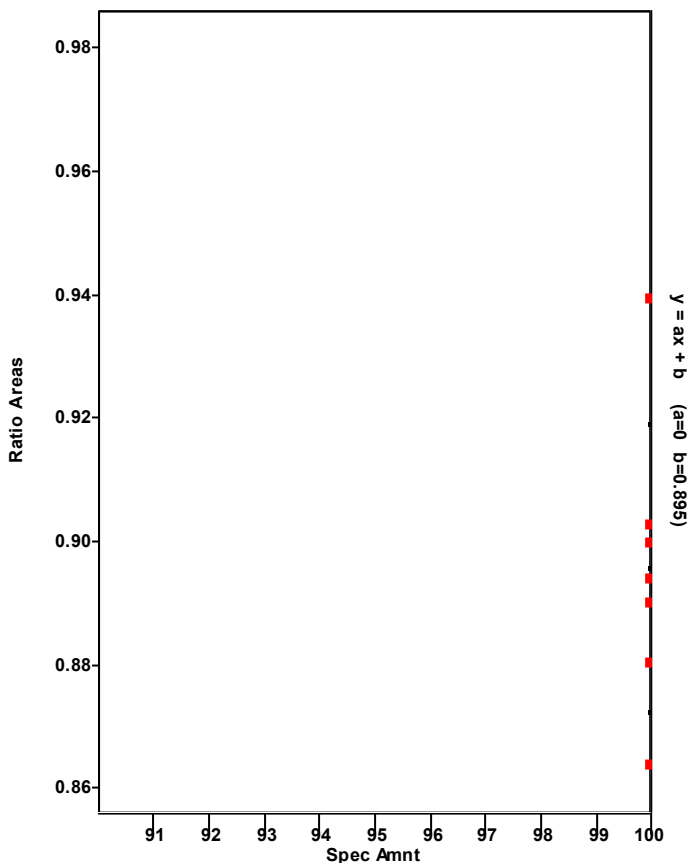
NL:
 1.13E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_19

NL:
 1.34E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_19

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1098685
RM1 Area	1222063
RM1 Ratio (A)	1.1123
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	79.42
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

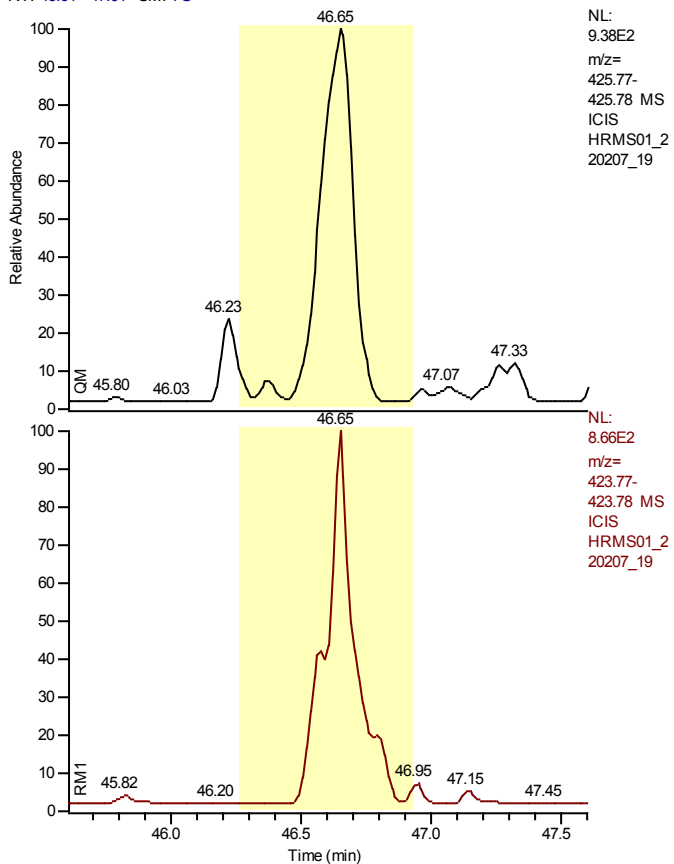
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.61 - 47.61 SM: 7G

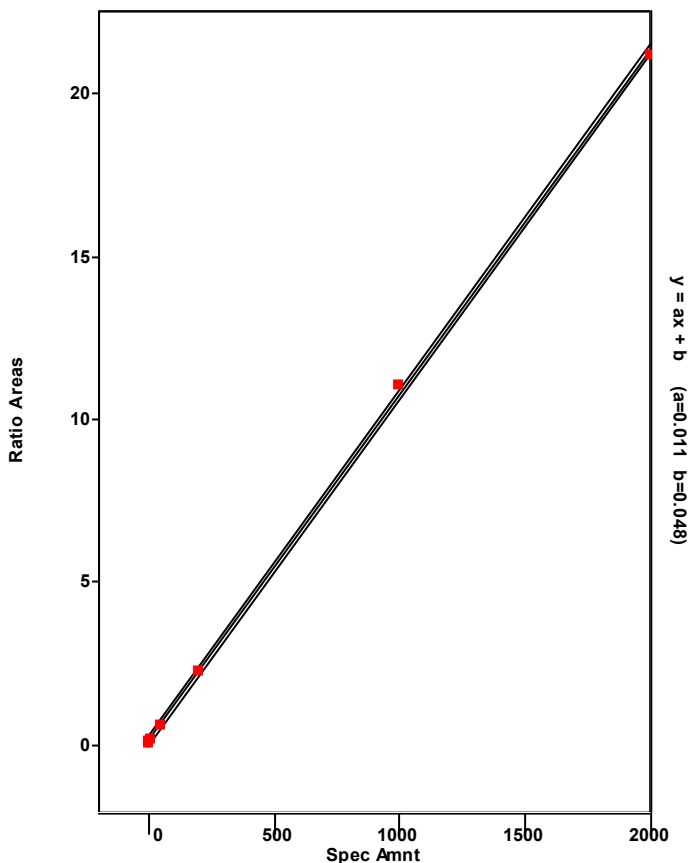


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

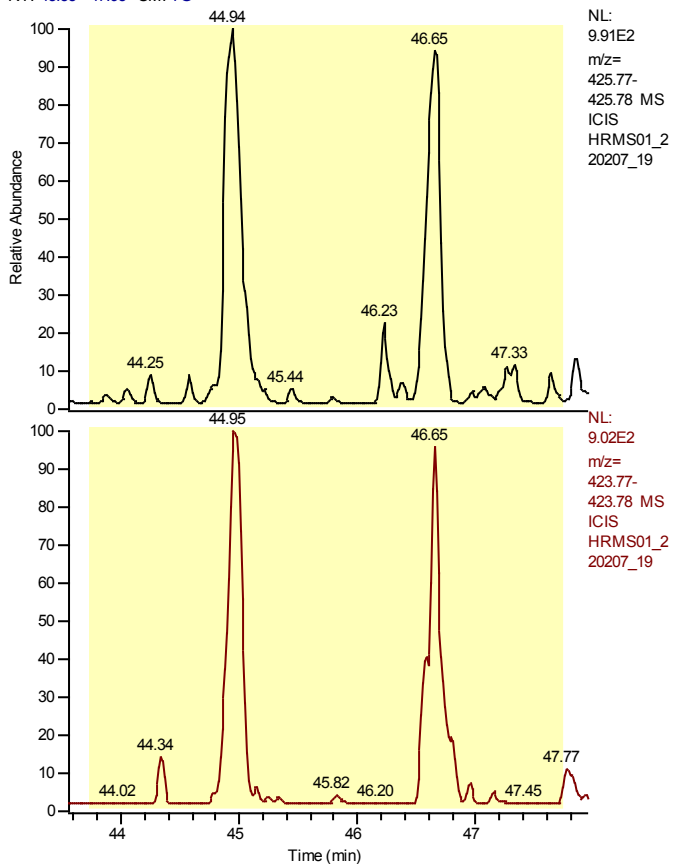
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.55 - 47.95 SM: 7G

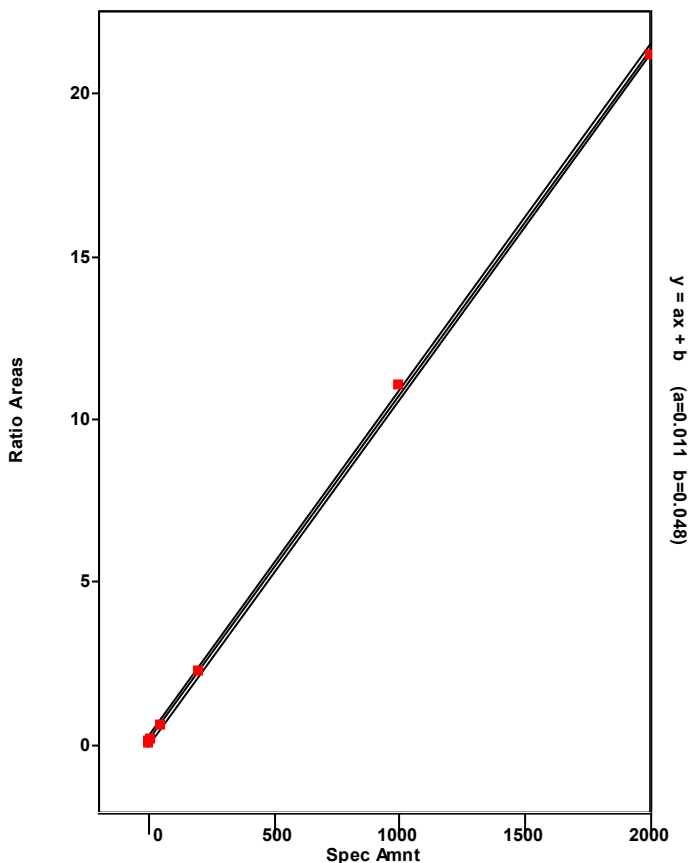


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

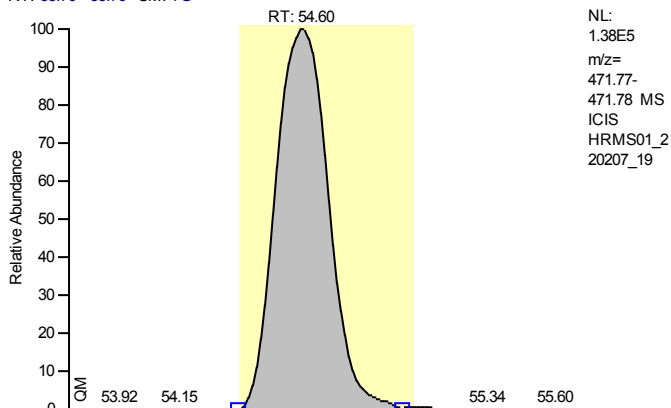
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



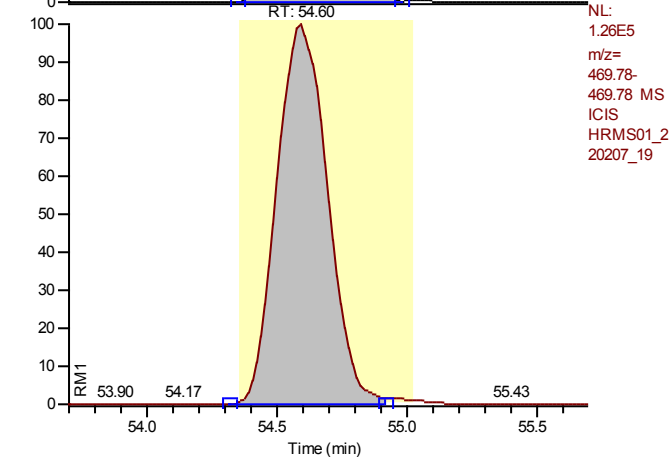
Chromatogram

Entry Parameters

RT: 53.70 - 55.70 SM: 7G



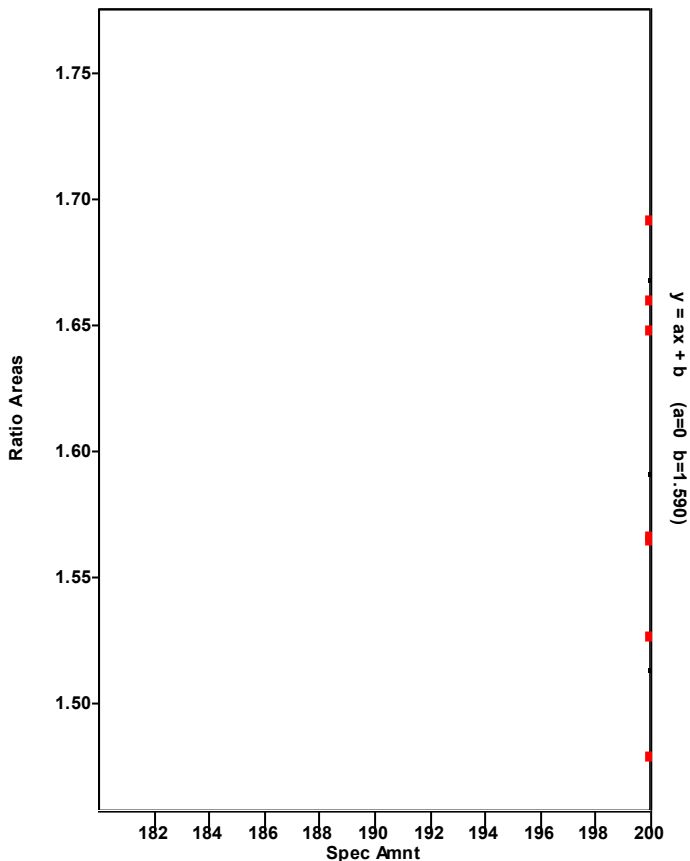
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1948446
RM1 Area	1718188
RM1 Ratio (A)	0.8818
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	141.33
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

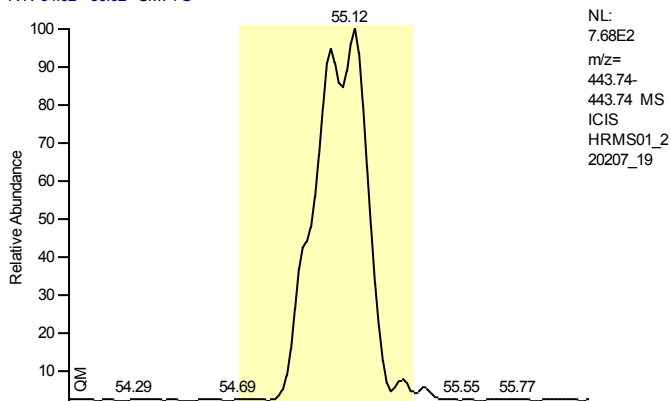
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



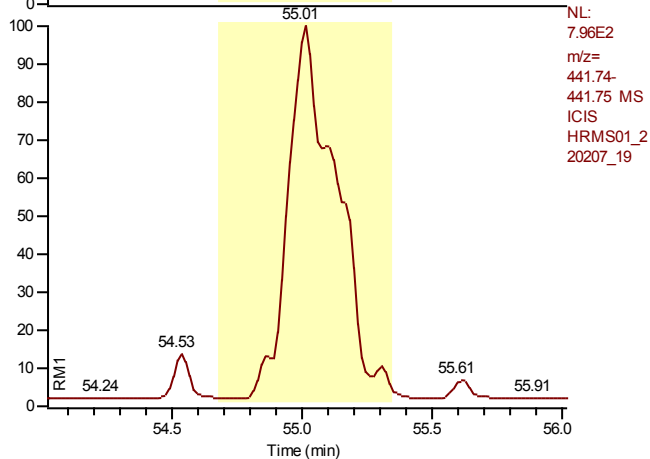
Chromatogram

Entry Parameters

RT: 54.02 - 56.02 SM: 7G



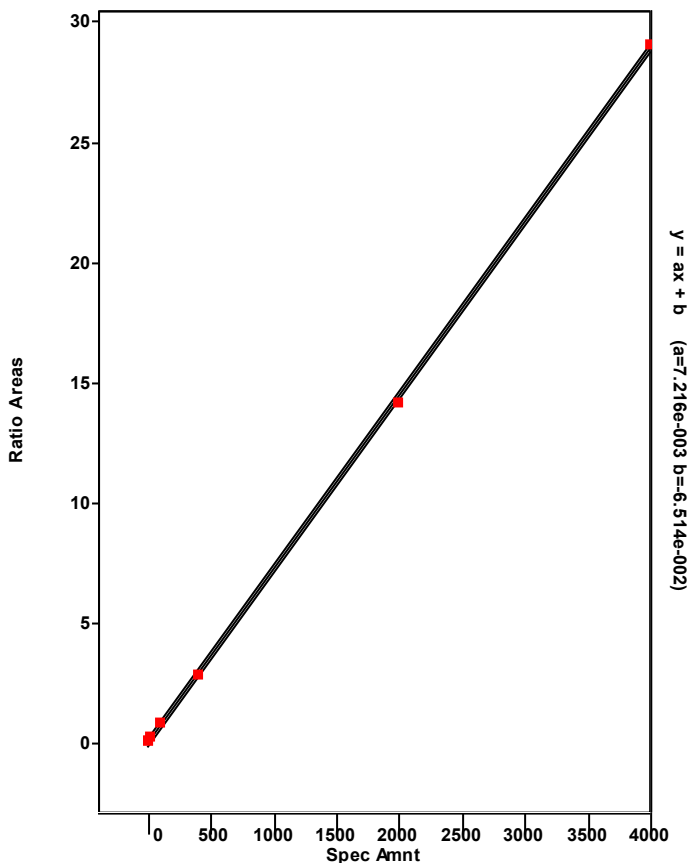
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

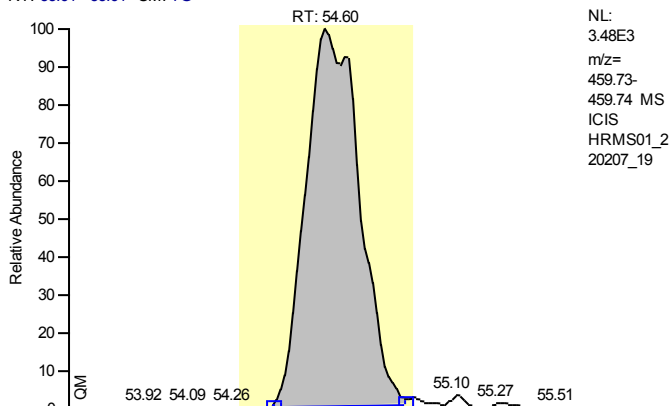
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

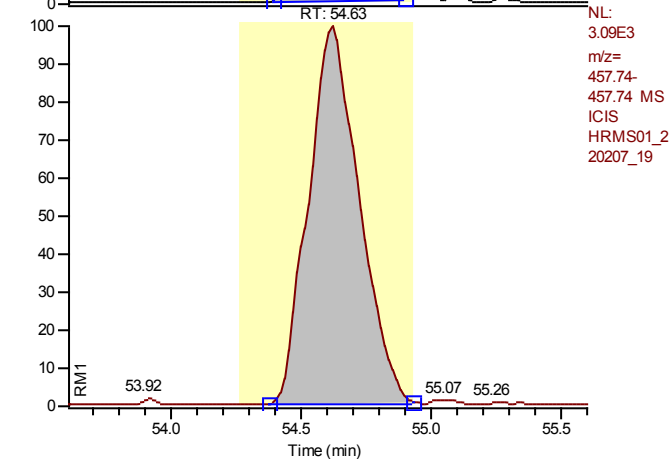
Entry Parameters

RT: 53.61 - 55.61 SM: 7G



NL:
3.48E3
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20207_19

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	49664
RM1 Area	41619
RM1 Ratio (A)	0.8380
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	4.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

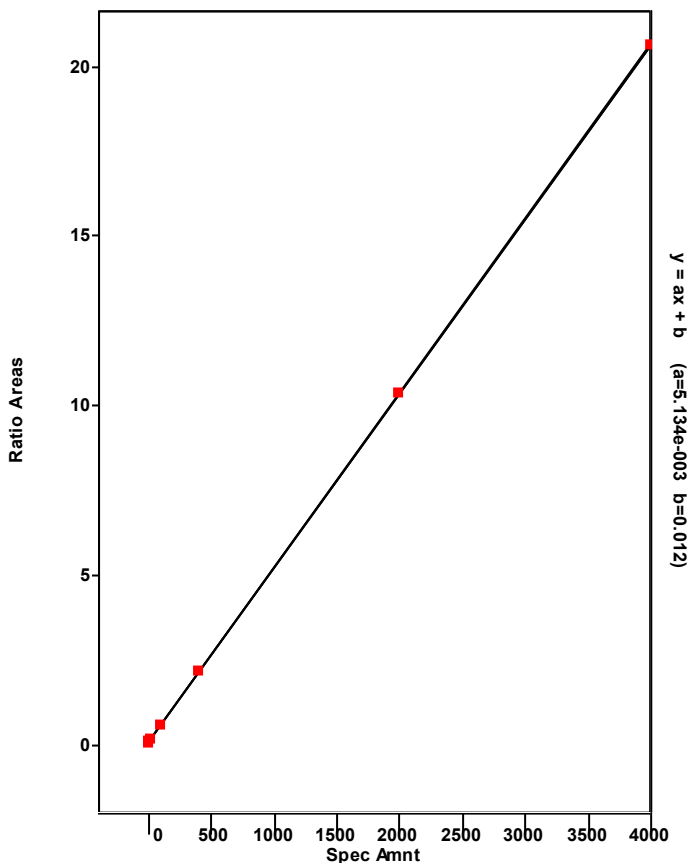


NL:
3.09E3
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20207_19

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

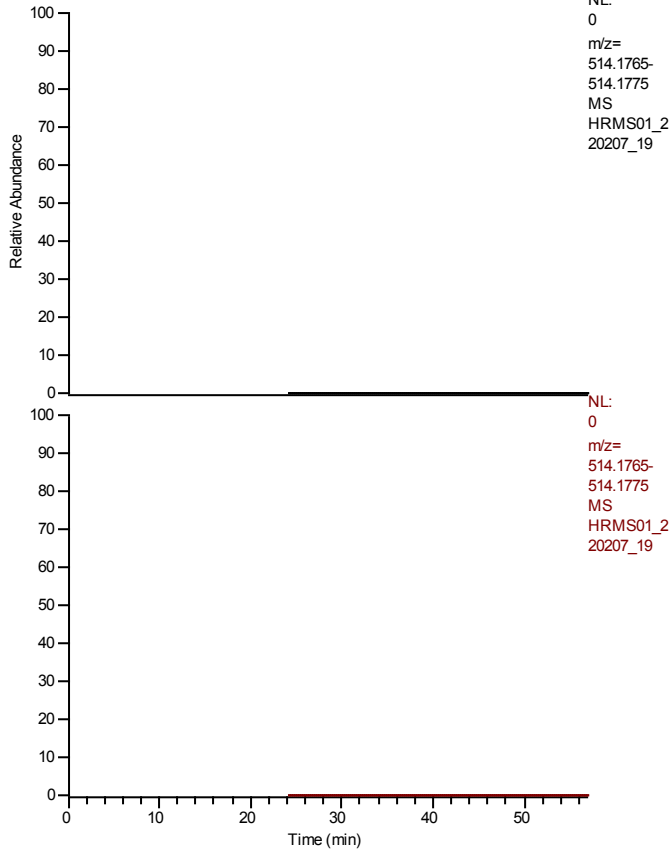
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

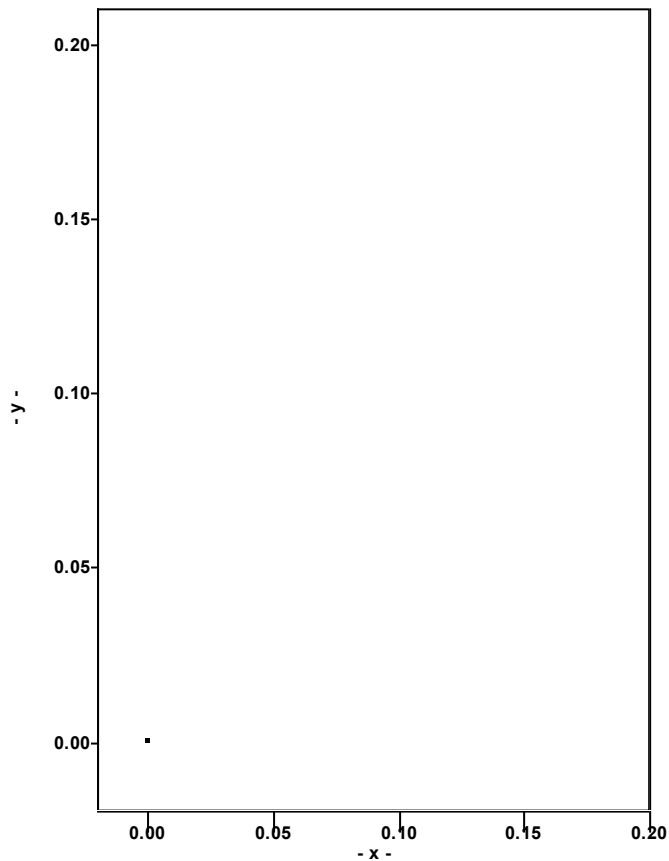
RT: 0.00 - 57.01 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	49664
RM1 Area	41619
RM1 Ratio (A)	0.8380
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	4.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 05:01
Number of Entries	87
Comment	
Vial	125
Sample Name	L2202953-04
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_21_seq
Data	hrms01_220207_21
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1780913	1420496	0.7976	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1889107	1510765	0.7997	0.6500 - 0.8900	100.00	62.82	63	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	307114	225289	0.7336	0.6500 - 0.8900	0.00	15.19	---	1.5193
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	1110074	840264	0.7590	0.6500 - 0.8900	0.00	55.66	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	307114	225289	0.7336	0.6500 - 0.8900	0.00	15.19	---	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	78304	56712	0.7243	0.6500 - 0.8900	0.00	3.85	---	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	86750	66135	0.7624	0.6500 - 0.8900	0.00	4.36	---	0.0000
8	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	268488	205872	0.7668	0.6500 - 0.8900	0.00	13.54	---	0.0000
9	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	157325	125688	0.7989	0.6500 - 0.8900	0.00	8.08	---	0.0000
10	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	12343	10633	0.8614	0.6500 - 0.8900	0.00	0.66	---	0.0000
11	Total Tetrachlorodibenzofuran__7	Single native TCDF	CAS# 55722-27-5	10169	7202	0.7083	0.6500 - 0.8900	0.00	0.50	---	0.0000
12	Total Tetrachlorodibenzofuran__8	Single native TCDF	CAS# 55722-27-5	18851	15452	0.8197	0.6500 - 0.8900	0.00	0.98	---	0.0000
13	Total Tetrachlorodibenzofuran__9	Single native TCDF	CAS# 55722-27-5	40891	28913	0.7071	0.6500 - 0.8900	0.00	1.99	---	0.0000
14	Total Tetrachlorodibenzofuran__10	Single native TCDF	CAS# 55722-27-5	13384	10934	0.8169	0.6500 - 0.8900	0.00	0.69	---	0.0000
15	Total Tetrachlorodibenzofuran__11	Single native TCDF	CAS# 55722-27-5	33868	30016	0.8863	0.6500 - 0.8900	0.00	1.82	---	0.0000
16	Total Tetrachlorodibenzofuran__12	Single native TCDF	CAS# 55722-27-5	39512	25966	0.6572	0.6500 - 0.8900	0.00	1.87	---	0.0000
17	Total Tetrachlorodibenzofuran__13	Single native TCDF	CAS# 55722-27-5	33673	26618	0.7905	0.6500 - 0.8900	0.00	1.72	---	0.0000
18	Total Tetrachlorodibenzofuran__14	Single native TCDF	CAS# 55722-27-5	9401	4832	0.5140	0.6500 - 0.8900	0.00	n.d. < 0.41	---	n.d.
19	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1292083	970595	0.7512	0.6500 - 0.8900	100.00	59.52	60	0.0000
20	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
21	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	22975	19940	0.8026	0.6500 - 0.8900	0.00	1.72	---	0.0000
22	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	9258	7752	0.8373	0.6500 - 0.8900	0.00	0.68	---	0.0000
23	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	3803	3919	1.0306	0.6500 - 0.8900	0.00	n.d. < 0.31	---	n.d.
24	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	5138	4756	0.9257	0.6500 - 0.8900	0.00	n.d. < 0.40	---	n.d.
25	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	4777	3513	0.7354	0.6500 - 0.8900	0.00	0.33	---	0.0000
26	Total Tetrachlorodibenzo-p-dioxin__8	Single native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
27	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1112701	1819788	1.6355	1.3200 - 1.7800	100.00	66.31	66	0.0000
28	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	471560	702553	1.4899	1.3200 - 1.7800	0.00	39.80	---	1.1940
29	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	1157071	1777920	1.5366	1.3200 - 1.7800	0.00	94.47	---	0.0000
30	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	471560	702553	1.4899	1.3200 - 1.7800	0.00	37.79	---	0.0000
31	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	96432	137505	1.4259	1.3200 - 1.7800	0.00	7.53	---	0.0000
32	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	232692	359611	1.5454	1.3200 - 1.7800	0.00	19.06	---	0.0000
33	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	106501	183156	1.7198	1.3200 - 1.7800	0.00	9.32	---	0.0000
34	Total Pentachlorodibenzofuran__5	Single native PeCDF	CAS# 30402-15-4	219987	346027	1.5729	1.3200 - 1.7800	0.00	18.22	---	0.0000
35	Total Pentachlorodibenzofuran__6	Single native PeCDF	CAS# 30402-15-4	29899	49067	1.6411	1.3200 - 1.7800	0.00	2.54	---	0.0000
36	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1121887	1858588	1.6567	1.3200 - 1.7800	100.00	67.59	68	0.0000
37	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	219987	346027	1.5729	1.3200 - 1.7800	0.00	16.99	---	5.0974
38	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		756305	1198698	1.5849	1.3200 - 1.7800	100.00	65.34	65	0.0000

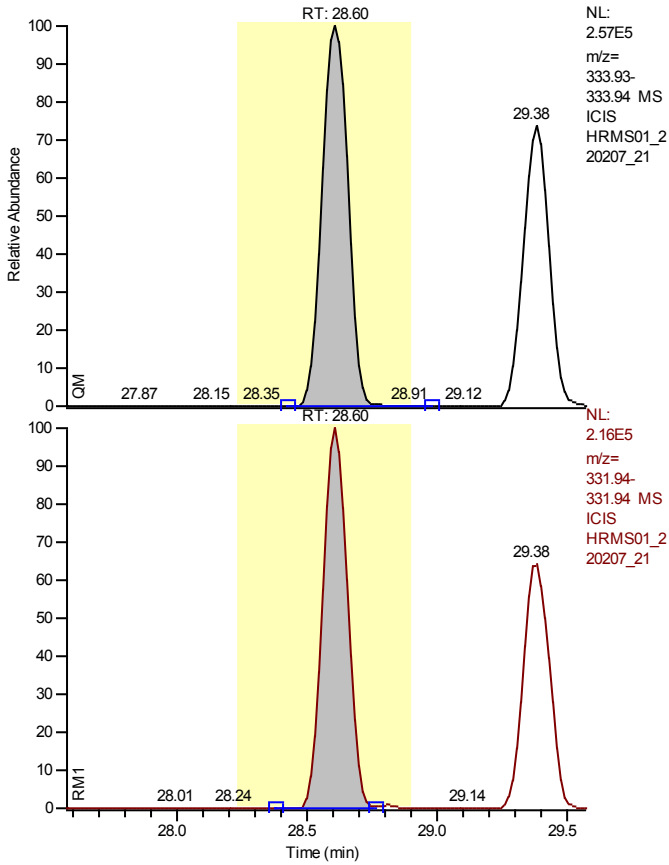
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
40	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	16810	27195	1.6178	1.3200 - 1.7800	0.00	2.26	---	0.0000
41	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	16810	27195	1.6178	1.3200 - 1.7800	0.00	2.26	---	0.0000
42	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		326754	326754	1.0000	0.8500 - 1.1500	10.00	8.47	85	0.0000
43	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1370676	1665287	1.2149	1.0500 - 1.4300	100.00	100.00	100	0.0000
44	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1715527	931070	0.5427	0.4300 - 0.5900	100.00	75.78	76	0.0000
45	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	1013657	1277319	1.2601	1.0500 - 1.4300	0.00	69.43	---	6.9427
46	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	2023936	2532397	1.2512	1.0500 - 1.4300	0.00	135.69	---	0.0000
47	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	1013657	1277319	1.2601	1.0500 - 1.4300	0.00	68.22	---	0.0000
48	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	214201	266602	1.2446	1.0500 - 1.4300	0.00	14.32	---	0.0000
49	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	221263	269498	1.2180	1.0500 - 1.4300	0.00	14.61	---	0.0000
50	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	348269	435277	1.2498	1.0500 - 1.4300	0.00	23.33	---	0.0000
51	Total Hexachlorodibenzofuran__5	Single native HxCDF	CAS# 55684-94-1	49243	61920	1.2574	1.0500 - 1.4300	0.00	3.31	---	0.0000
52	Total Hexachlorodibenzofuran__6	Single native HxCDF	CAS# 55684-94-1	85583	105684	1.2349	1.0500 - 1.4300	0.00	5.70	---	0.0000
53	Total Hexachlorodibenzofuran__7	Single native HxCDF	CAS# 55684-94-1	91721	116097	1.2658	1.0500 - 1.4300	0.00	6.19	---	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1791164	950605	0.5307	0.4300 - 0.5900	100.00	71.03	71	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	348269	435277	1.2498	1.0500 - 1.4300	0.00	24.07	---	2.4069
56	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1634998	848168	0.5188	0.4300 - 0.5900	100.00	66.56	67	0.0000
57	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	85583	105684	1.2349	1.0500 - 1.4300	0.00	6.24	---	0.6236
58	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1726528	865324	0.5012	0.4300 - 0.5900	100.00	72.46	72	0.0000
59	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	91721	116097	1.2658	1.0500 - 1.4300	0.00	6.86	---	0.6858
60	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		811996	1064896	1.3115	1.0500 - 1.4300	100.00	70.12	70	0.0000
61	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
62	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	356208	447770	1.2570	1.0500 - 1.4300	0.00	38.42	---	0.0000
63	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	160390	204496	1.2750	1.0500 - 1.4300	0.00	17.44	---	0.0000
64	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	117188	149453	1.2753	1.0500 - 1.4300	0.00	12.74	---	0.0000
65	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	41646	48521	1.1651	1.0500 - 1.4300	0.00	4.31	---	0.0000
66	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	17709	19007	1.0733	1.0500 - 1.4300	0.00	1.75	---	0.0000
67	Total Hexachlorodibenzo-p-dioxin__5	Single native HxCDD	CAS# 34465-46-8	19275	26293	1.3641	1.0500 - 1.4300	0.00	2.18	---	0.0000
68	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		871165	1176188	1.3501	1.0500 - 1.4300	100.00	76.49	76	0.0000
69	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	41646	56750	1.3627	1.0500 - 1.4300	0.00	4.39	---	0.4386
70	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	19275	26293	1.3641	1.0500 - 1.4300	0.00	1.93	---	0.0000
71	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1419757	631788	0.4450	0.3700 - 0.5100	100.00	59.84	60	0.0000
72	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	785936	818017	1.0408	0.8800 - 1.2000	0.00	57.95	---	0.5795
73	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1856511	1936328	1.0430	0.8800 - 1.2000	0.00	143.91	---	0.0000
74	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	856672	893946	1.0435	0.8800 - 1.2000	0.00	66.42	---	0.0000
75	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	785936	818017	1.0408	0.8800 - 1.2000	0.00	60.86	---	0.0000
76	Total Heptachlorodibenzofuran__3	Single native HpCDF	CAS# 38998-75-3	213902	224365	1.0489	0.8800 - 1.2000	0.00	16.63	---	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
77	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1520204	647107	0.4257	0.3700 - 0.5100	100.00	68.22	68	0.0000
78	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	213902	224365	1.0489	0.8800 - 1.2000	0.00	15.36	---	0.1536
79	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1006917	1098023	1.0905	0.8800 - 1.2000	100.00	77.44	77	0.0000
80	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1143164	1168852	1.0225	0.8800 - 1.2000	0.00	99.11	---	0.9911
81	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	2665982	2789664	1.0464	0.8800 - 1.2000	0.00	233.86	---	0.0000
82	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1522818	1620811	1.0644	0.8800 - 1.2000	0.00	134.75	---	0.0000
83	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	1143164	1168852	1.0225	0.8800 - 1.2000	0.00	99.11	---	0.0000
84	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1755441	1541763	0.8783	0.7600 - 1.0200	200.00	136.65	68	0.0000
85	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1577723	1422099	0.9014	0.7600 - 1.0200	0.00	129.27	---	0.0388
86	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	16891594	15291237	0.9053	0.7600 - 1.0200	0.00	1842.23	---	0.5527
87	overall TEQ	overall TEQ test		23211130	22215861	0.9571	0.0000 - 0.0000	0.00	2328.81	---	21.2240

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

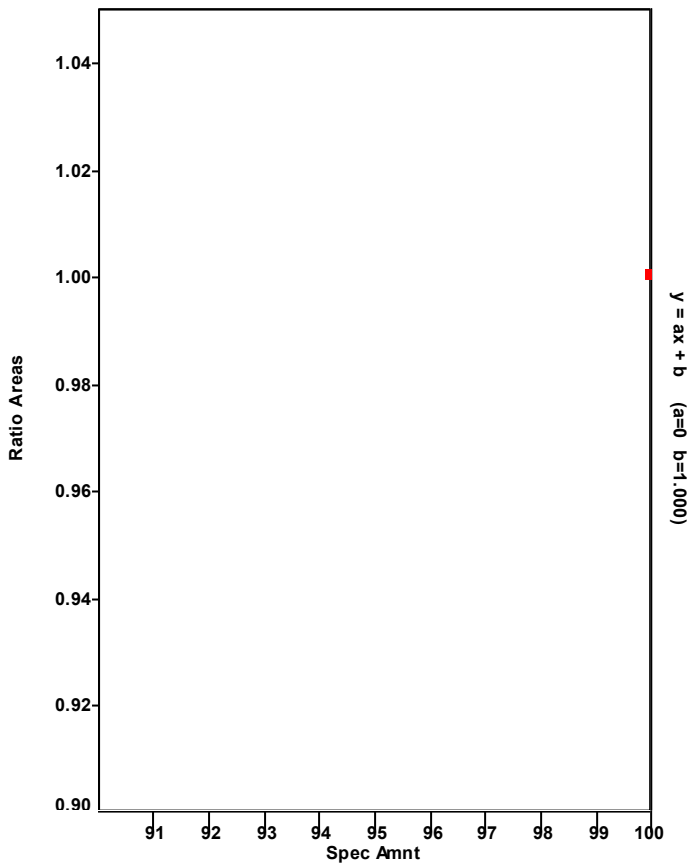


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1780913
RM1 Area	1420496
RM1 Ratio (A)	0.7976
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

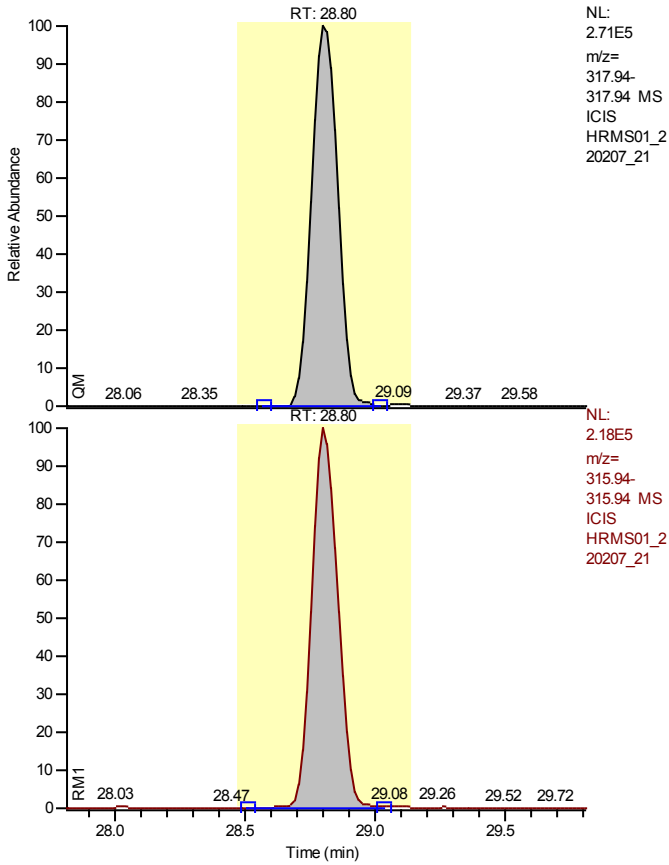
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.81 - 29.81 SM: 7G



NL:
 2.71E5
 m/z=
 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20207_21

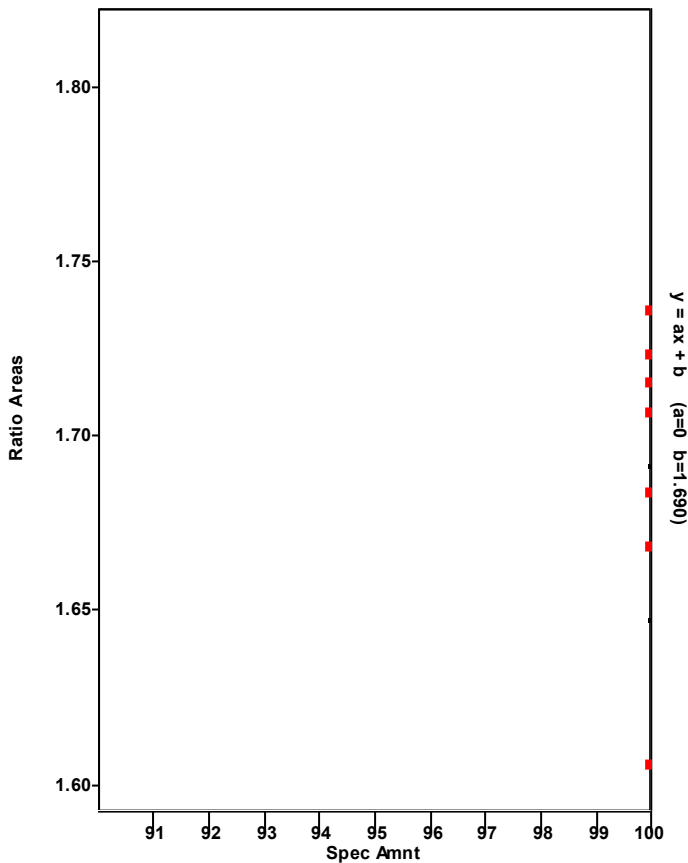
NL:
 2.18E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1889107
RM1 Area	1510765
RM1 Ratio (A)	0.7997
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	62.82
Percent Recovery (A)	63
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

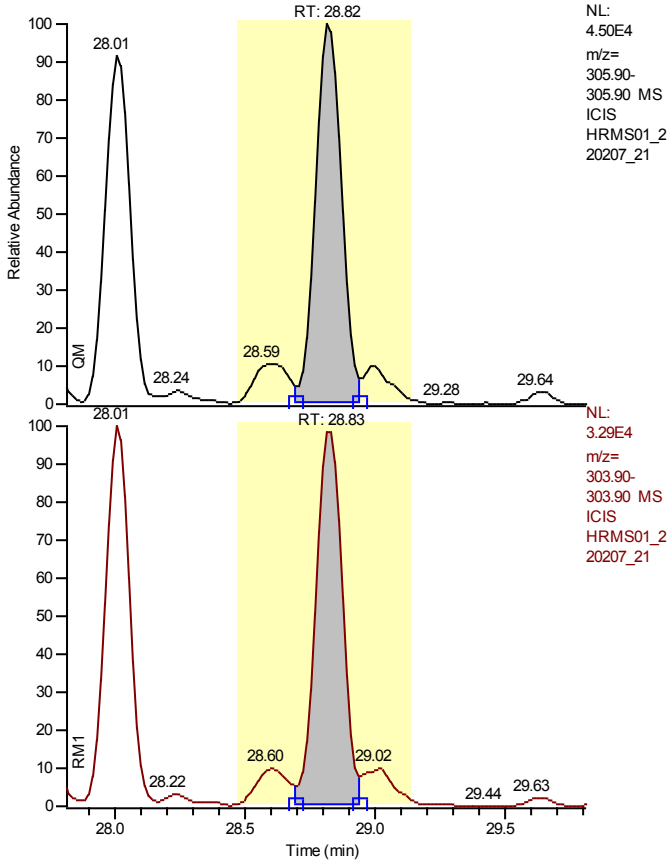
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.81 - 29.81 SM: 7G



NL:
 4.50E4
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_21

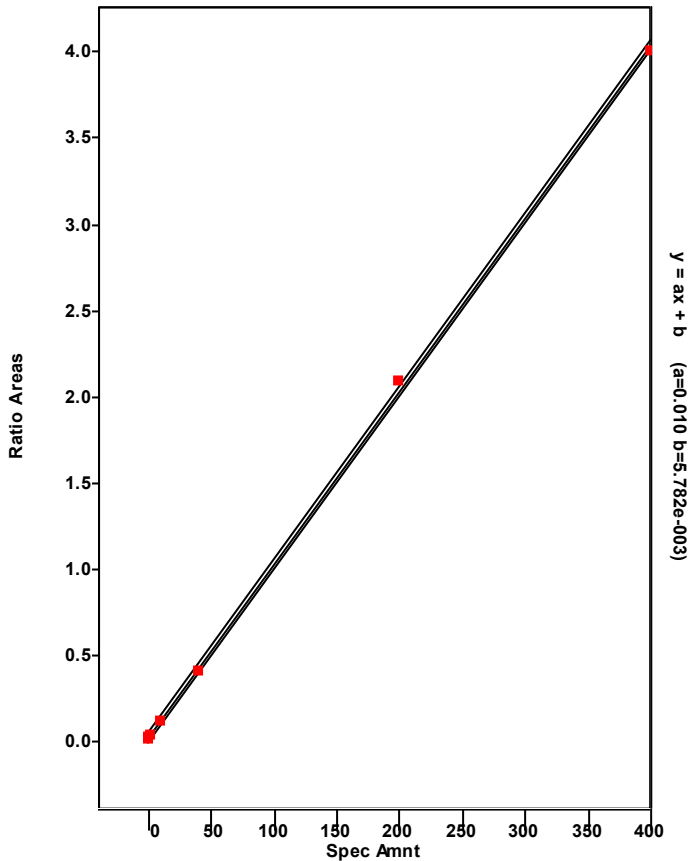
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	307114
RM1 Area	225289
RM1 Ratio (A)	0.7336
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	15.19
Percent Recovery (A)	---
TEQ (A)	1.5193
Label2	

NL:
 3.29E4
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

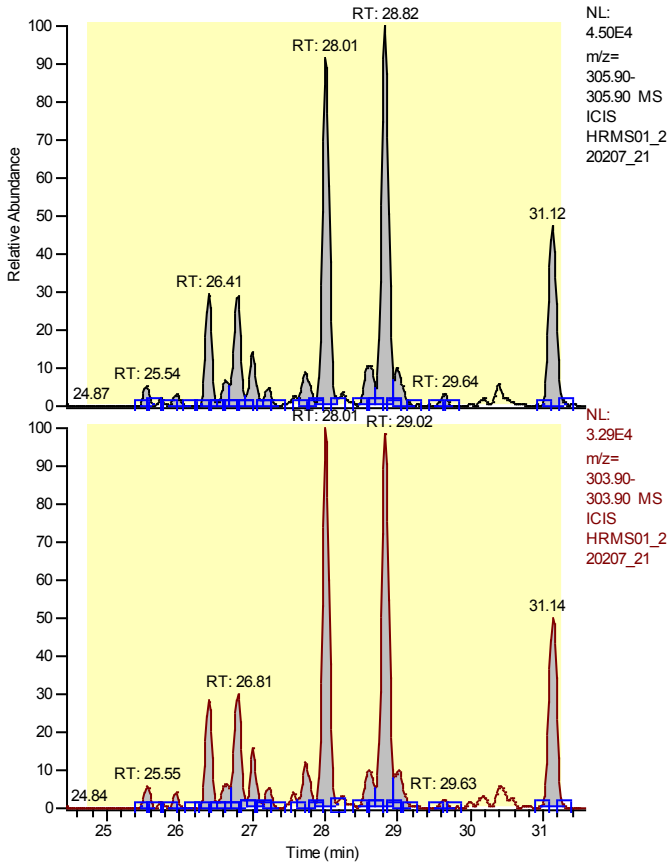
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.44 - 31.59 SM: 7G

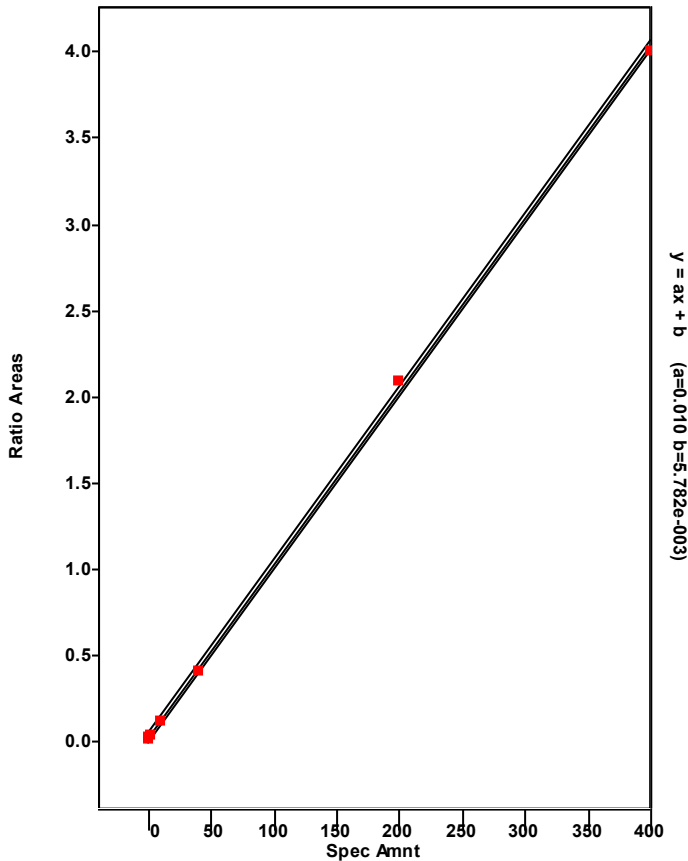


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	1110074
RM1 Area	840264
RM1 Ratio (A)	0.7590
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	55.66
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

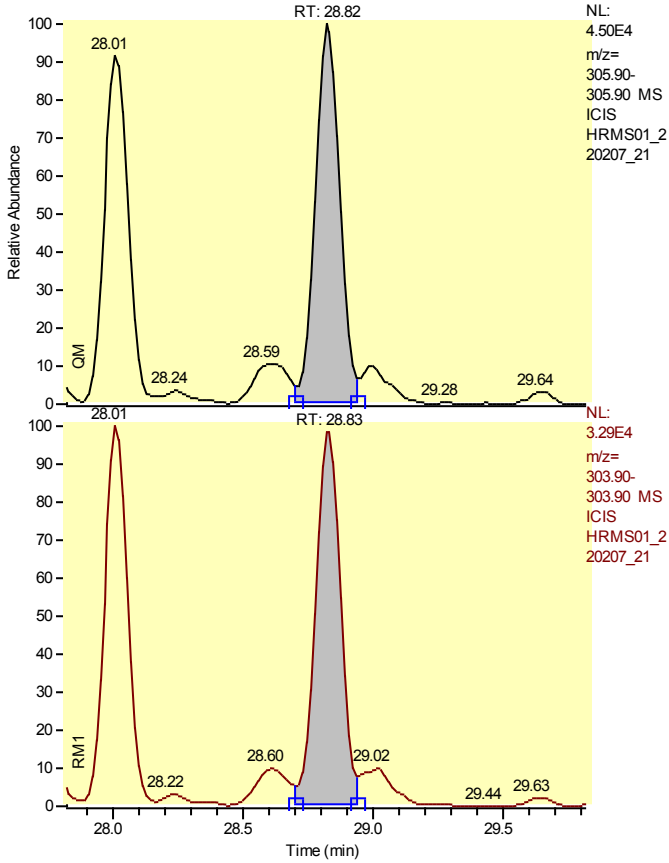
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.82 - 29.82 SM: 7G

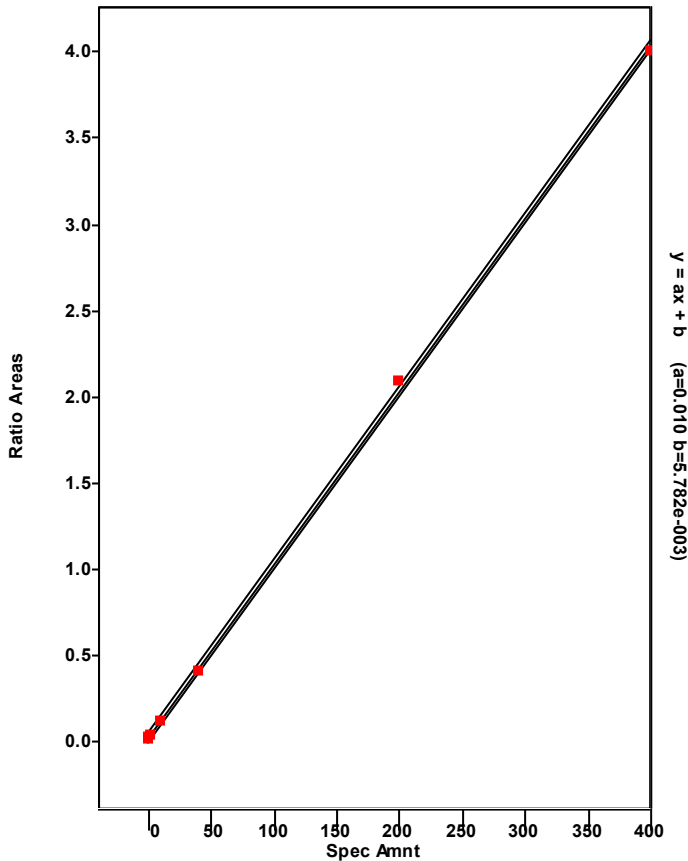


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	307114
RM1 Area	225289
RM1 Ratio (A)	0.7336
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	15.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

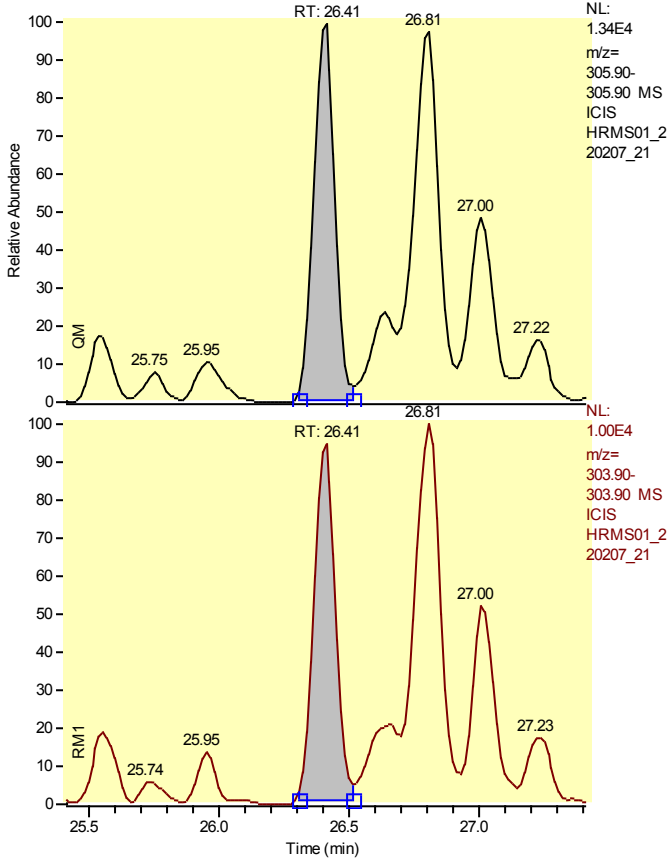
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.41 - 27.41 SM: 7G

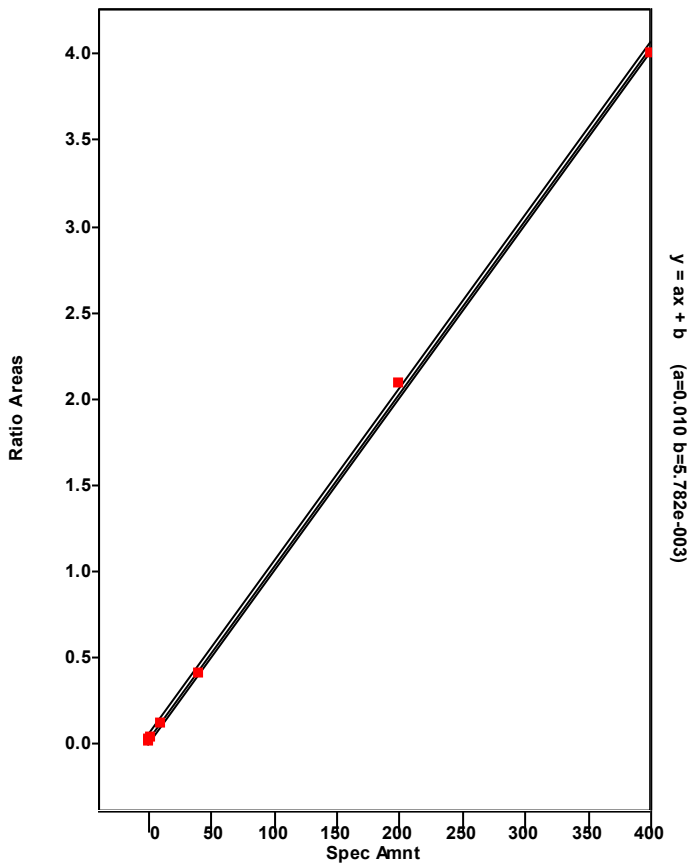


Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	78304
RM1 Area	56712
RM1 Ratio (A)	0.7243
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.85
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

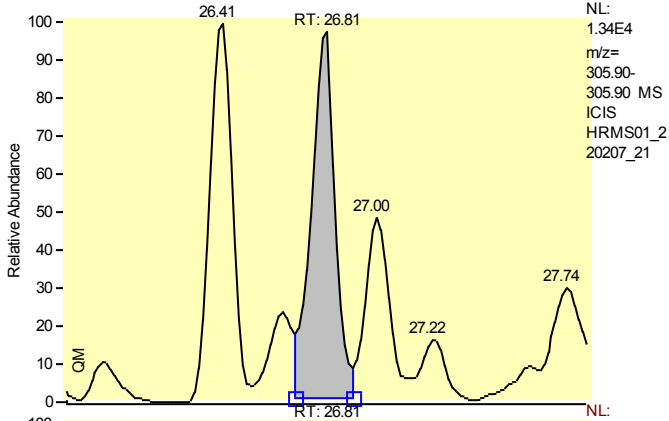
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



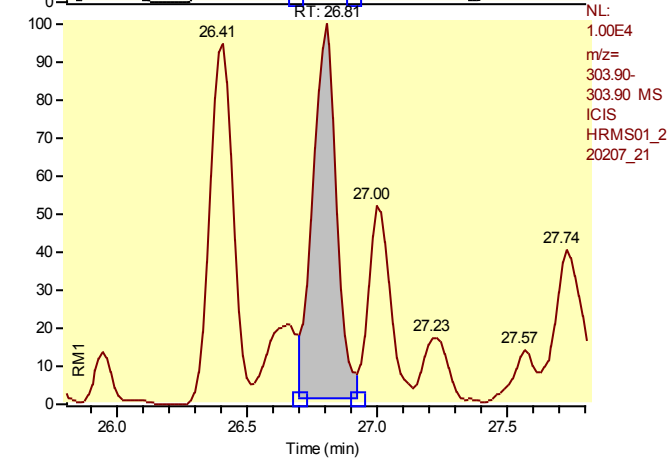
Chromatogram

Entry Parameters

RT: 25.81 - 27.81 SM: 7G



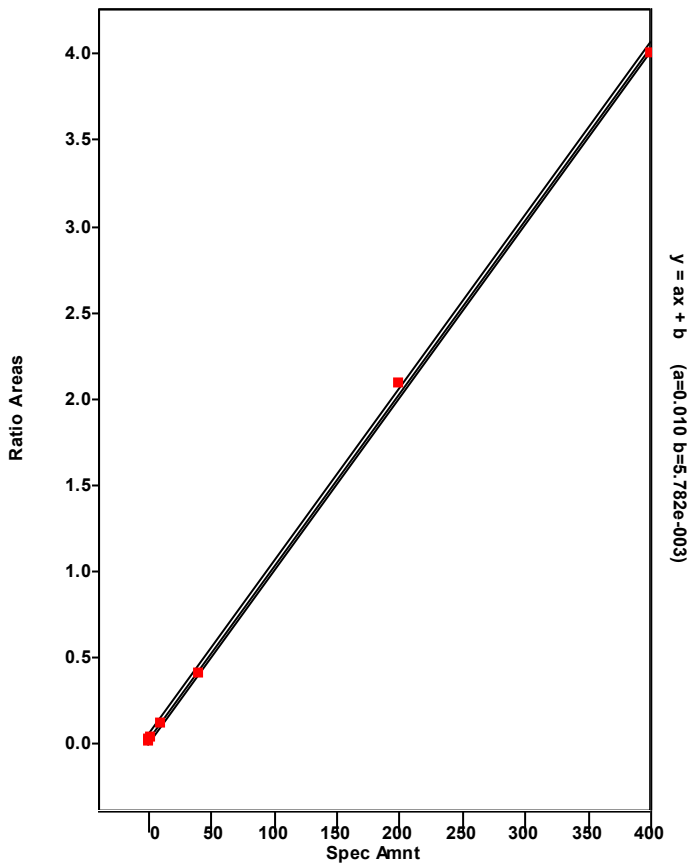
Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	86750
RM1 Area	66135
RM1 Ratio (A)	0.7624
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.36
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

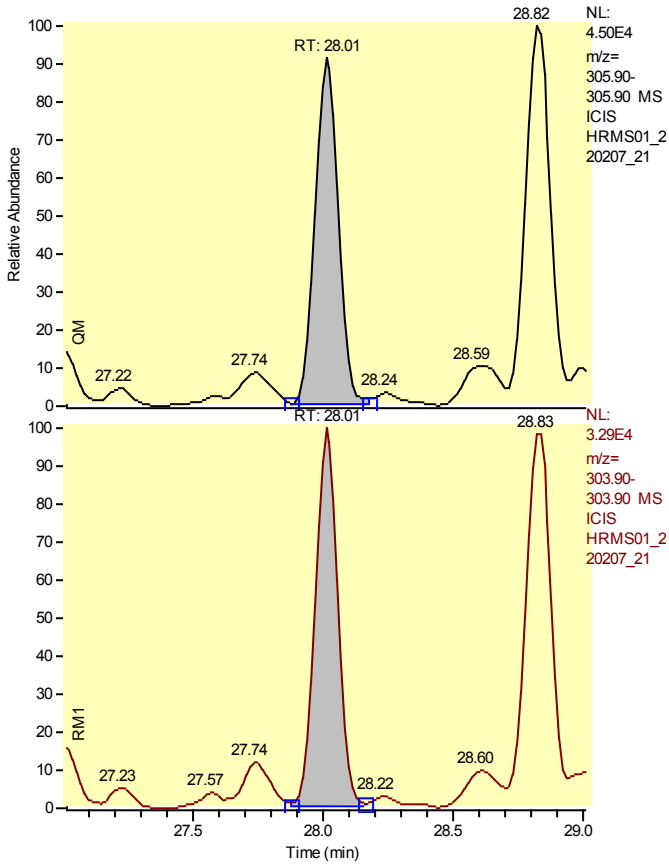
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.01 - 29.01 SM: 7G

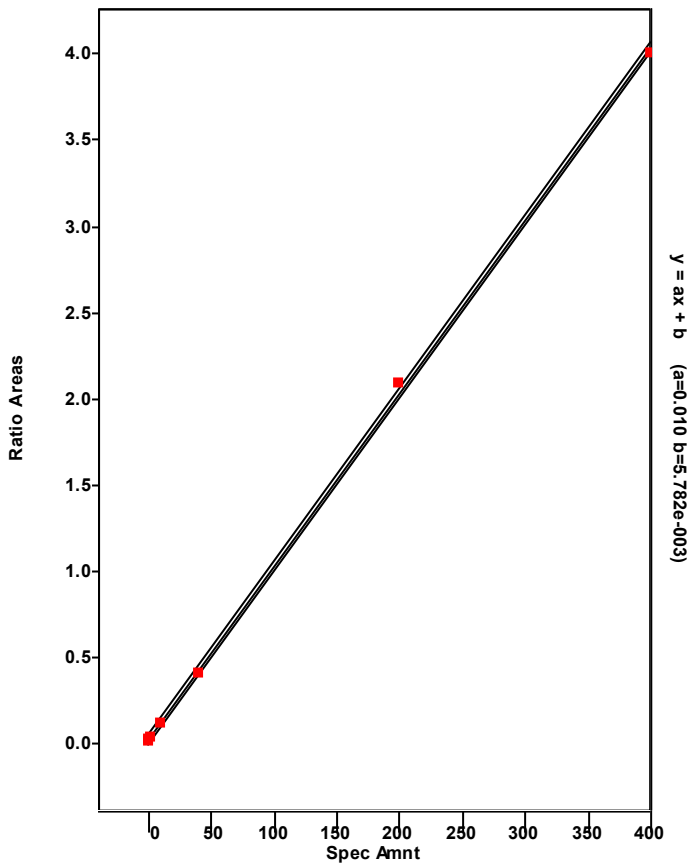


Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	268488
RM1 Area	205872
RM1 Ratio (A)	0.7668
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	13.54
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__4

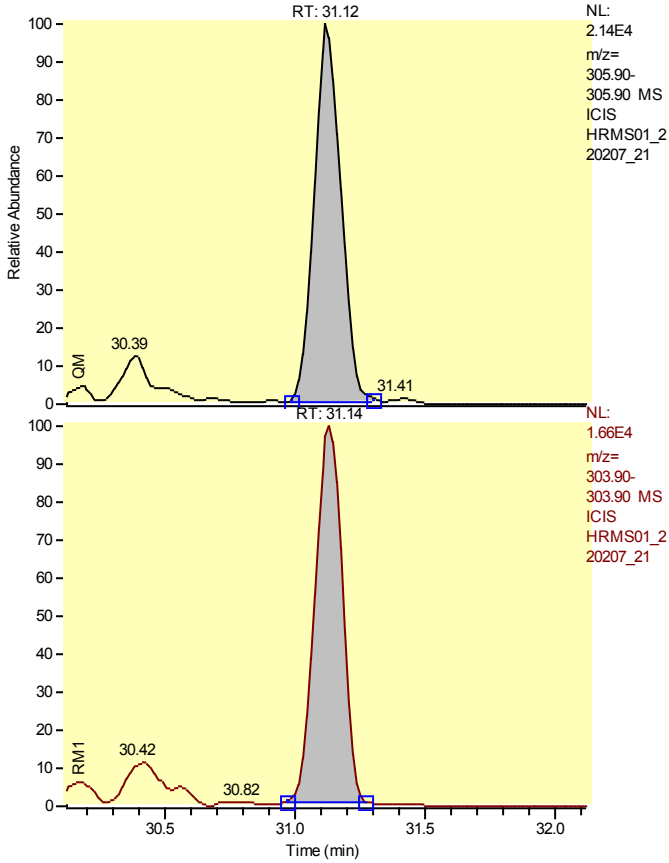
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 30.12- 32.12 SM: 7G

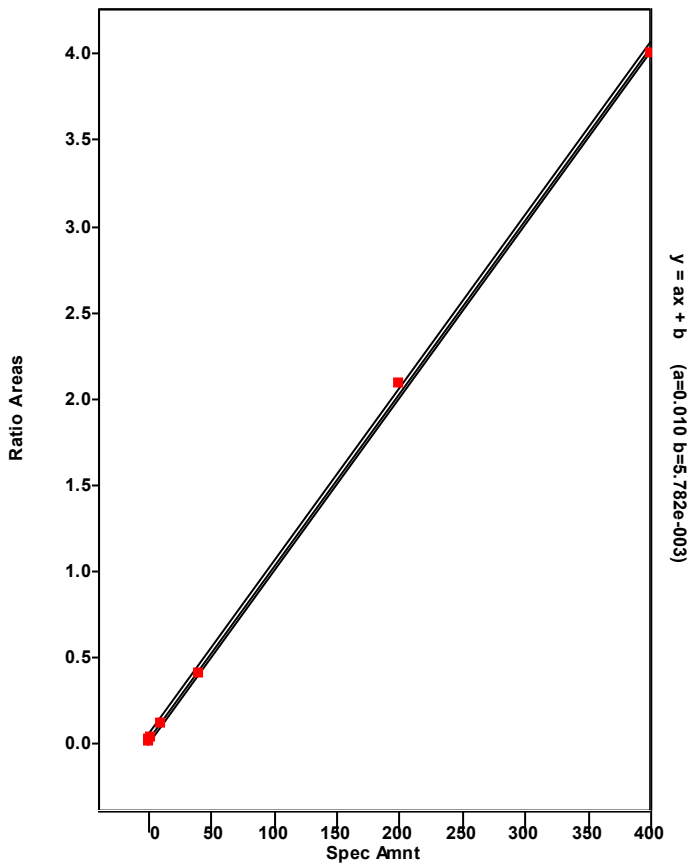


Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	157325
RM1 Area	125688
RM1 Ratio (A)	0.7989
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	8.08
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__5

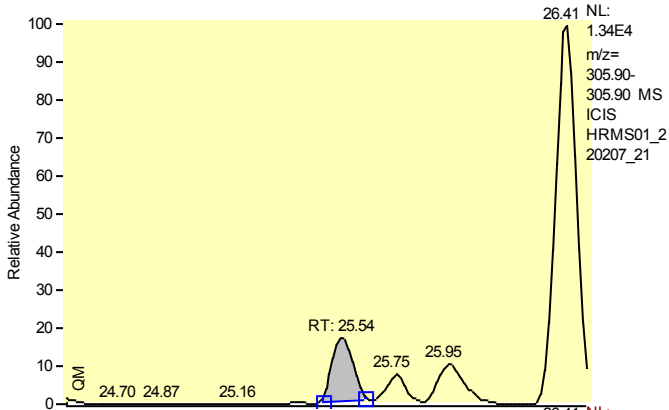
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



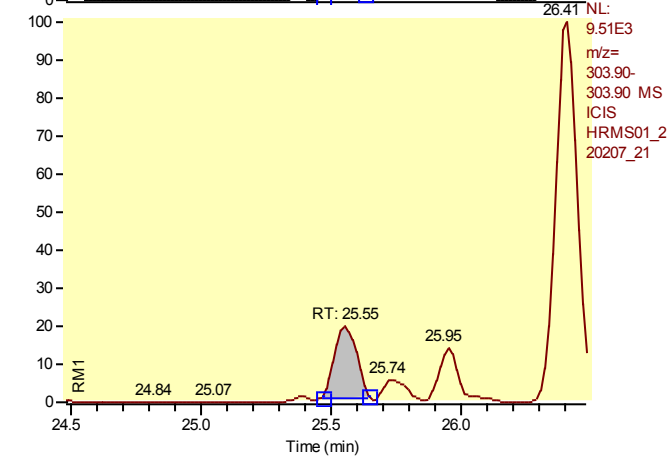
Chromatogram

Entry Parameters

RT: 24.48 - 26.48 SM: 7G



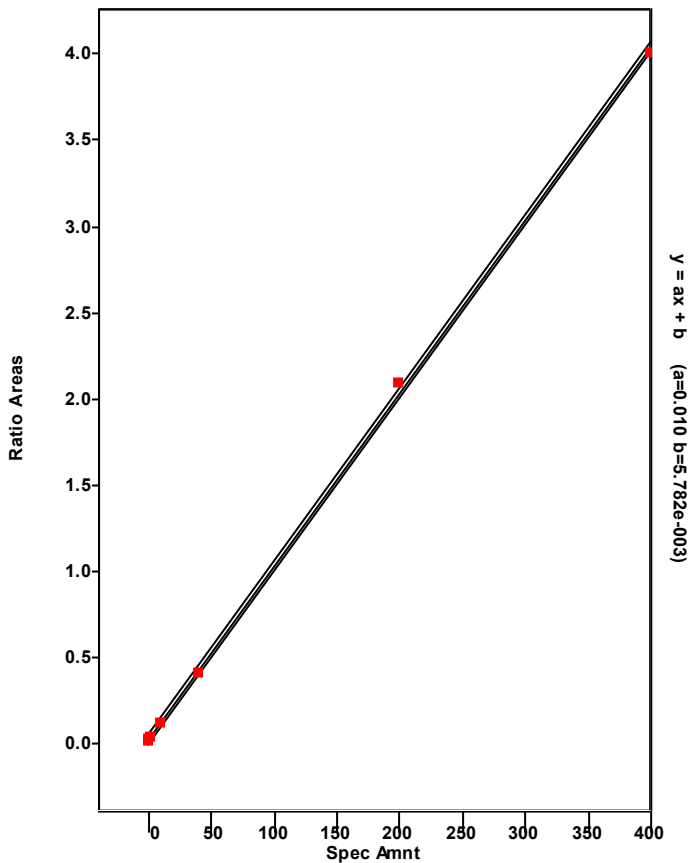
Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	12343
RM1 Area	10633
RM1 Ratio (A)	0.8614
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.66
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__6 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__6

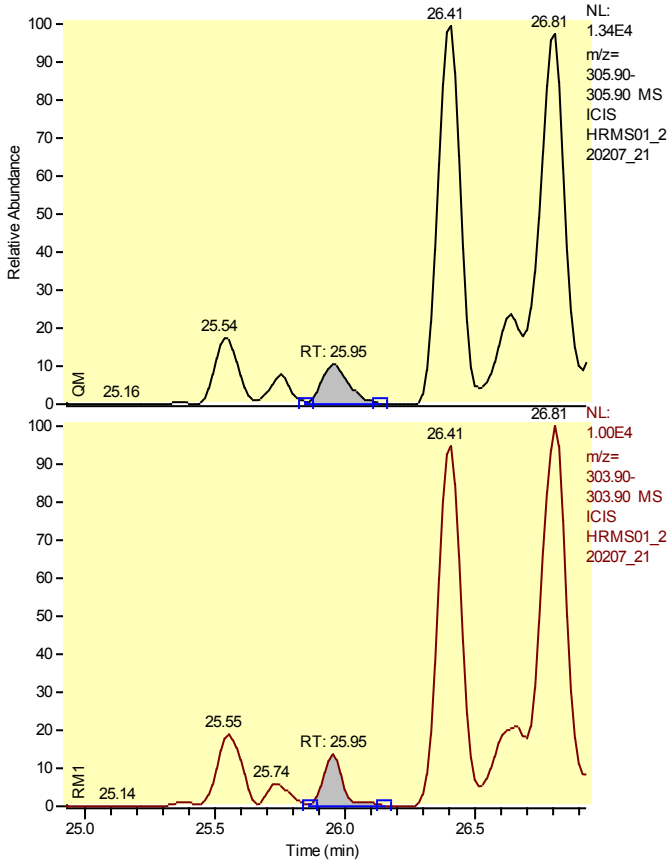
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.93 - 26.93 SM: 7G

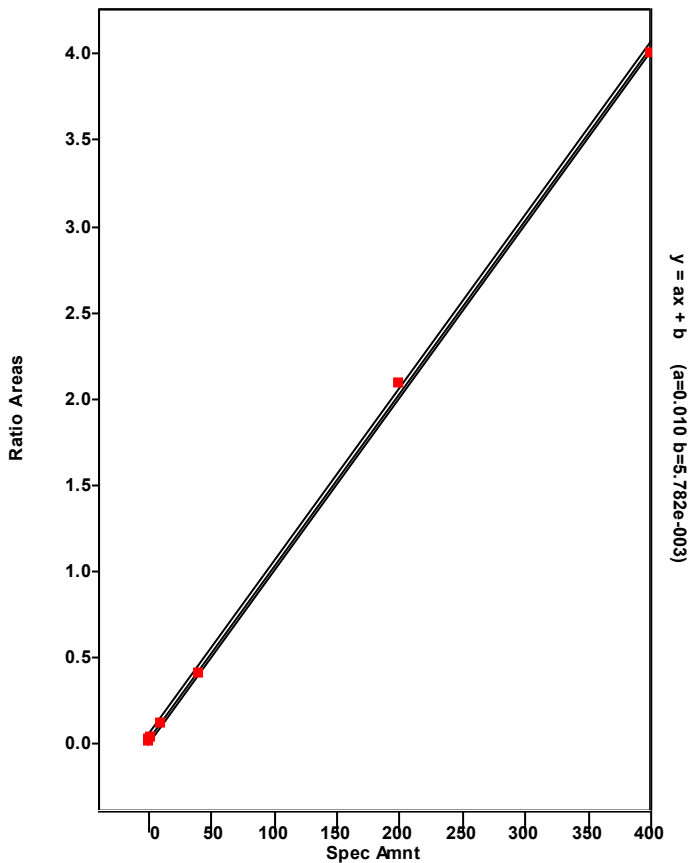


Entry Identifier	Total Tetrachlorodibenzofuran__7
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	10169
RM1 Area	7202
RM1 Ratio (A)	0.7083
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.50
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__7 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__7

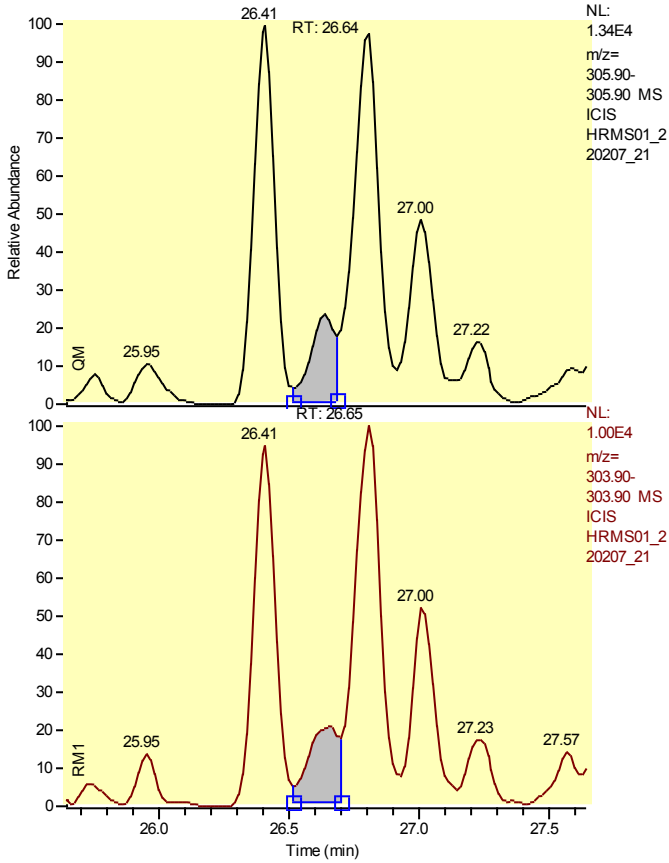
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.64 - 27.64 SM: 7G



NL:
1.34E4
m/z=
305.90-
305.90 MS
ICIS
HRMS01_2
20207_21

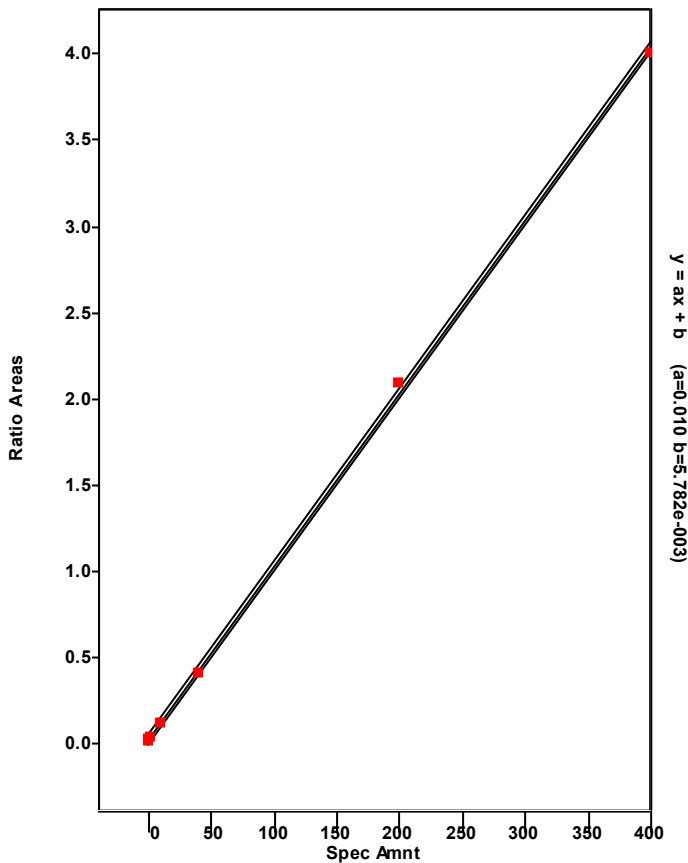
NL:
1.00E4
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	Total Tetrachlorodibenzofuran__8
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	18851
RM1 Area	15452
RM1 Ratio (A)	0.8197
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.98
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__8 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__8

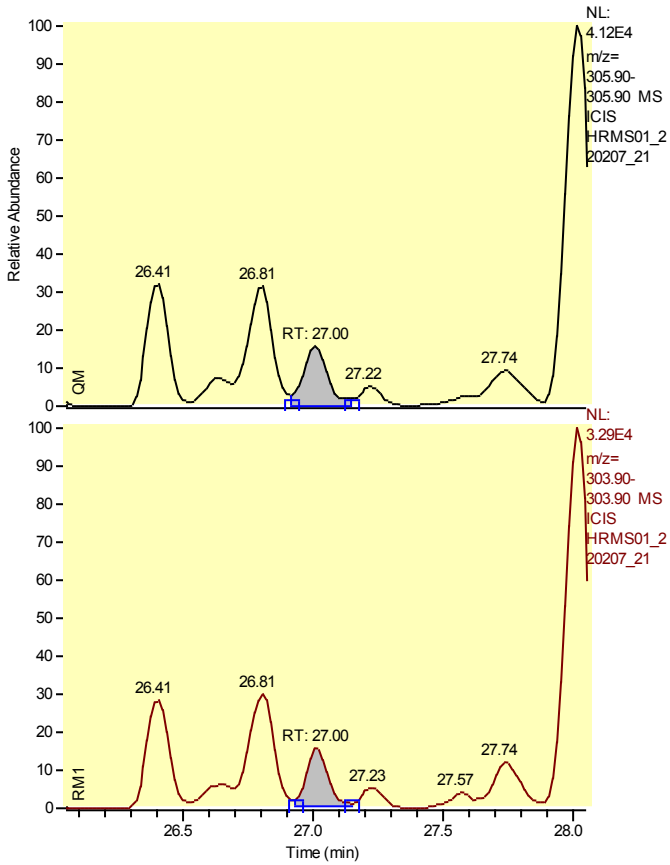
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.05 - 28.05 SM: 7G

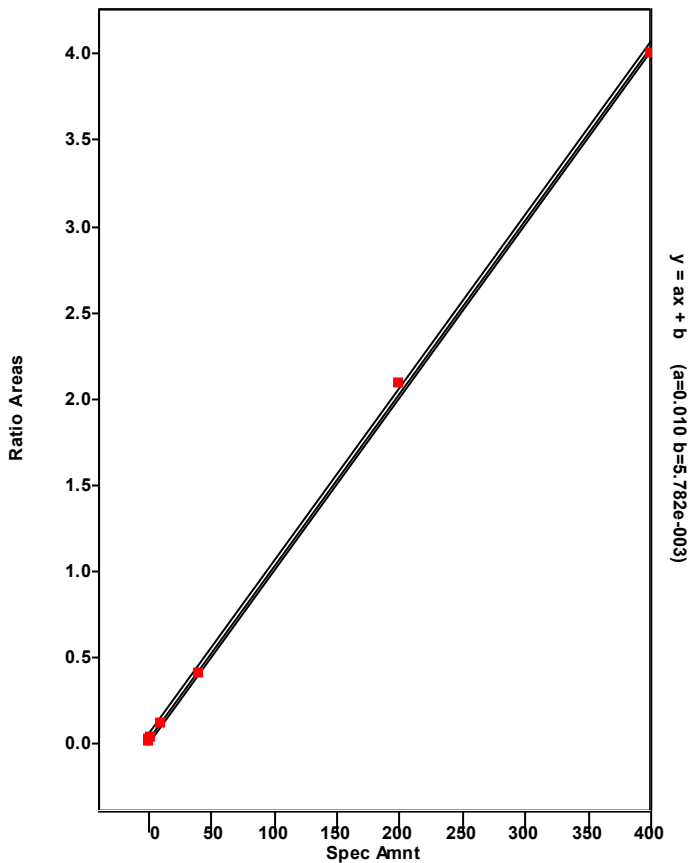


Entry Identifier	Total Tetrachlorodibenzofuran__9
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	40891
RM1 Area	28913
RM1 Ratio (A)	0.7071
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.99
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__9 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__9

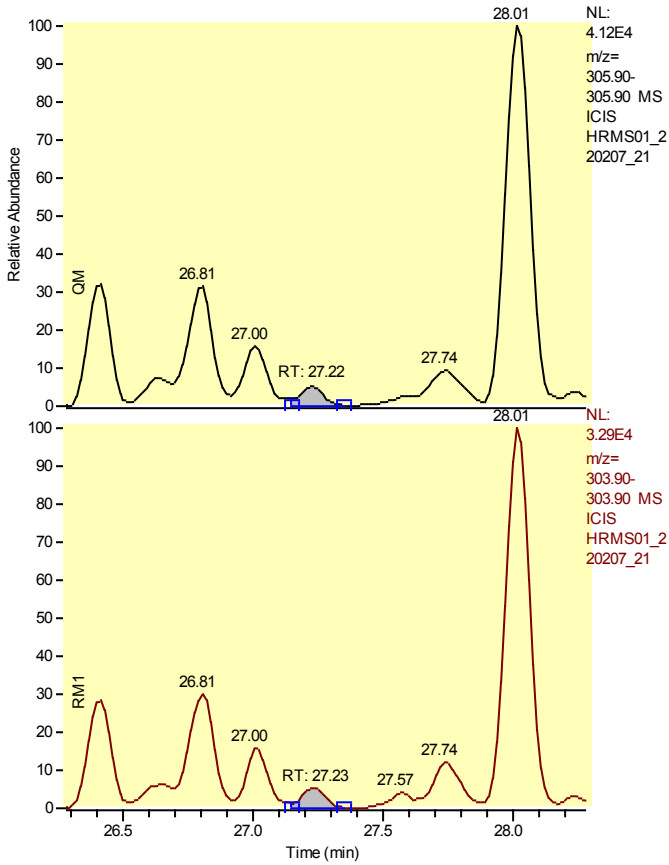
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.28 - 28.28 SM: 7G

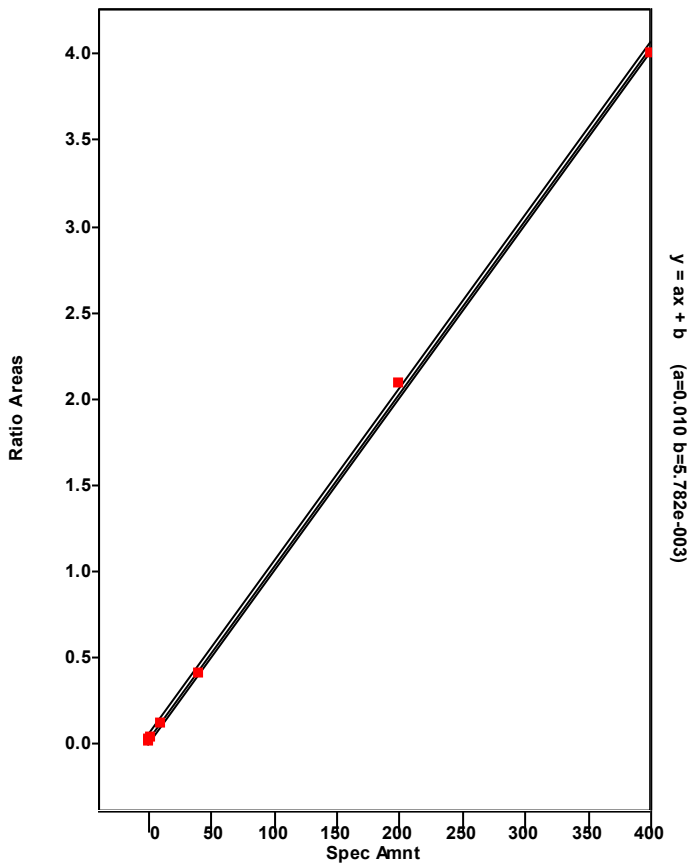


Entry Identifier	Total Tetrachlorodibenzofuran__10
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	13384
RM1 Area	10934
RM1 Ratio (A)	0.8169
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.69
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__10 IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__10

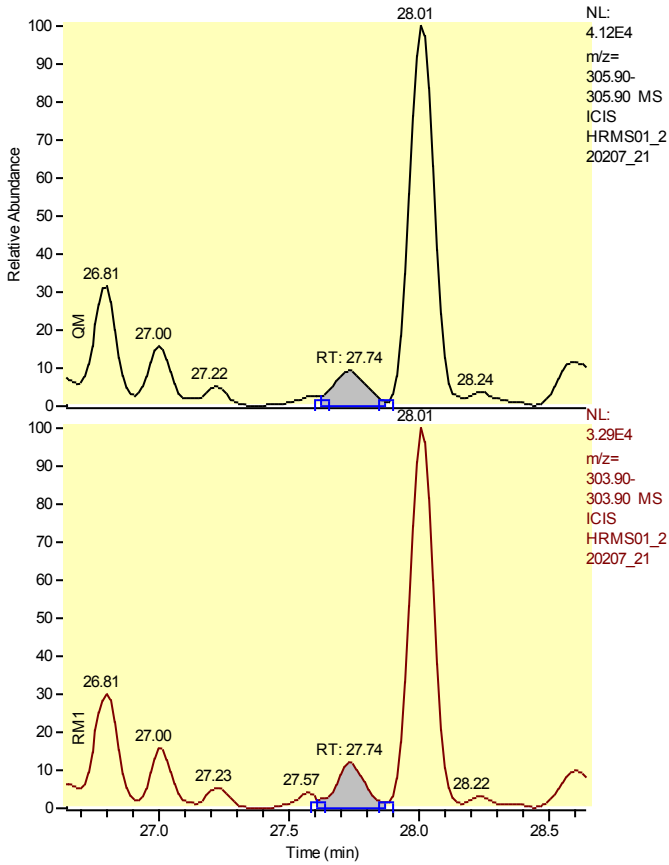
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.64 - 28.64 SM: 7G

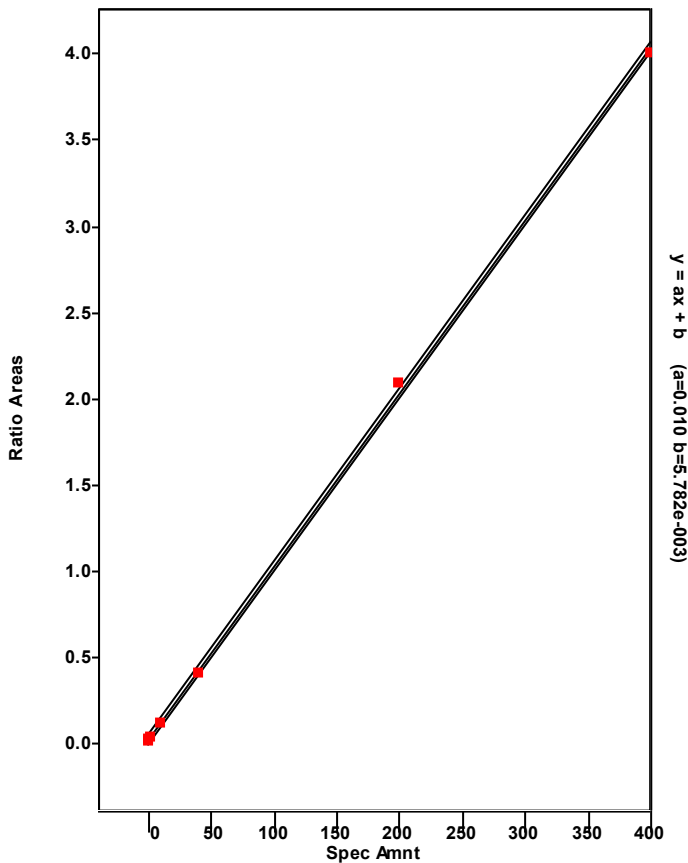


Entry Identifier	Total Tetrachlorodibenzofuran__11
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	33868
RM1 Area	30016
RM1 Ratio (A)	0.8863
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.82
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__11 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__11

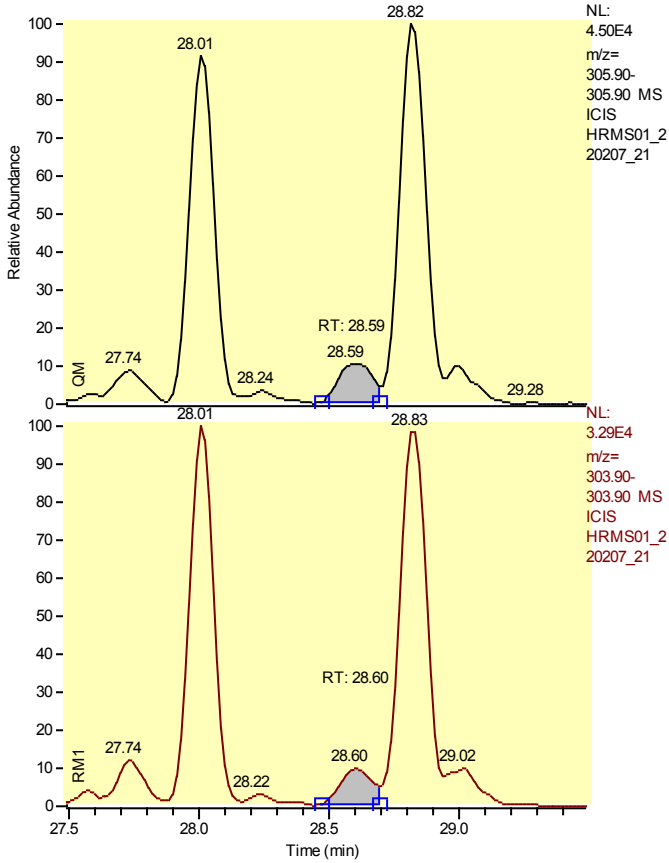
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.49 - 29.49 SM: 7G



NL: 4.50E4
 m/z= 305.90-305.90 MS
 ICIS HRMS01_2 20207_21

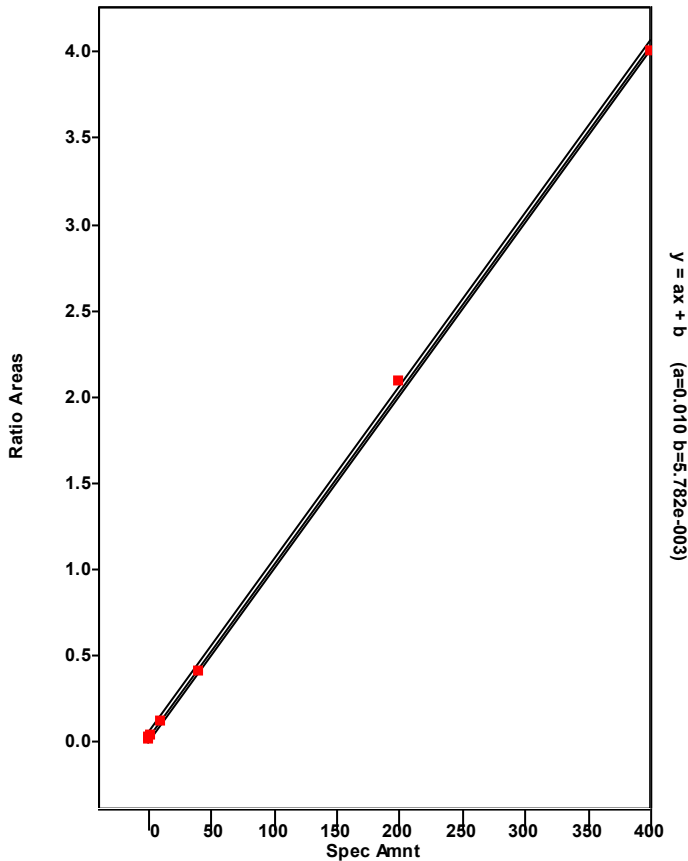
NL: 3.29E4
 m/z= 303.90-303.90 MS
 ICIS HRMS01_2 20207_21

Entry Identifier	Total Tetrachlorodibenzofuran__12
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	39512
RM1 Area	25966
RM1 Ratio (A)	0.6572
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.87
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__12 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__12

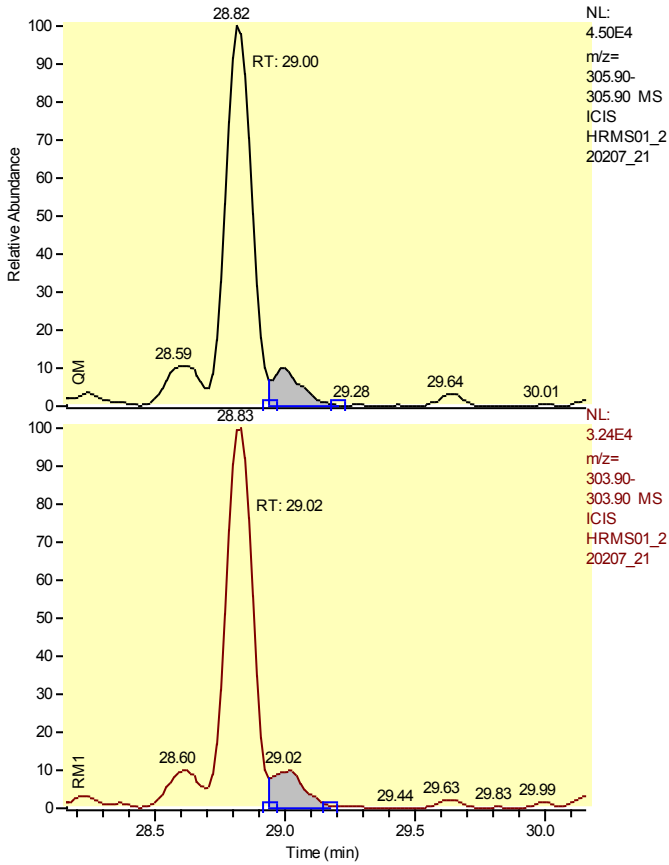
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 28.16 - 30.16 SM: 7G

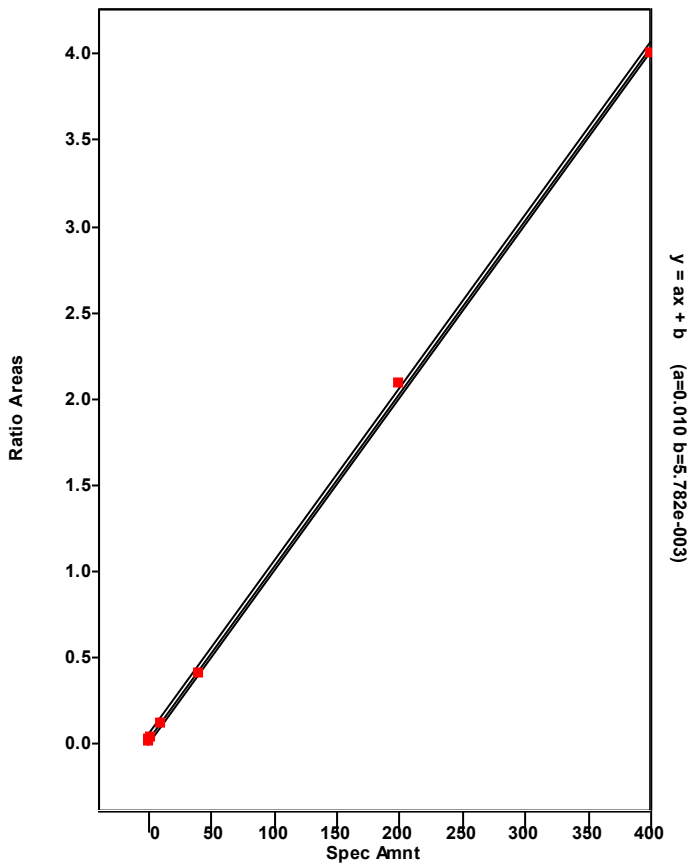


Entry Identifier	Total Tetrachlorodibenzofuran__13
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	33673
RM1 Area	26618
RM1 Ratio (A)	0.7905
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.72
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__13 IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__13

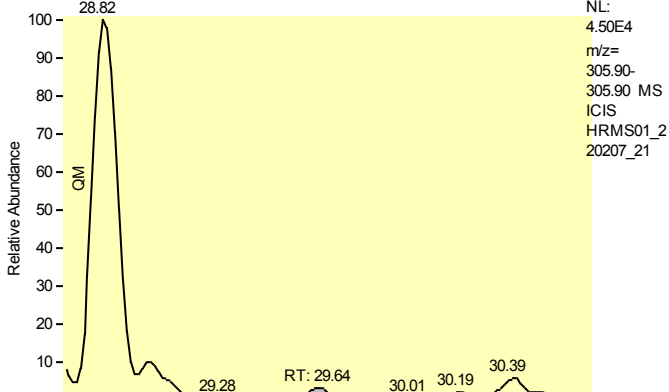
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



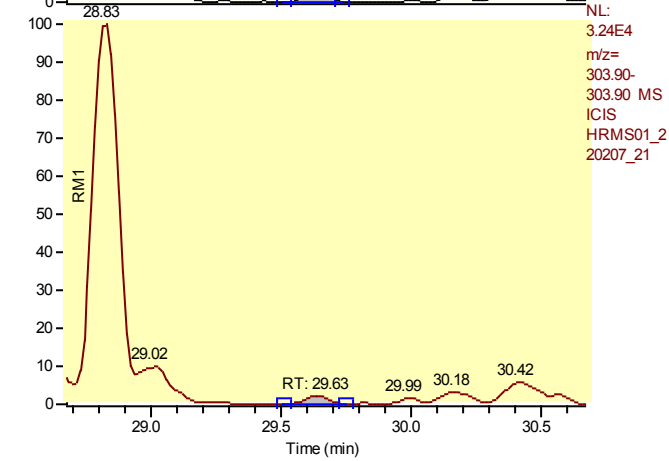
Chromatogram

Entry Parameters

RT: 28.67 - 30.67 SM: 7G



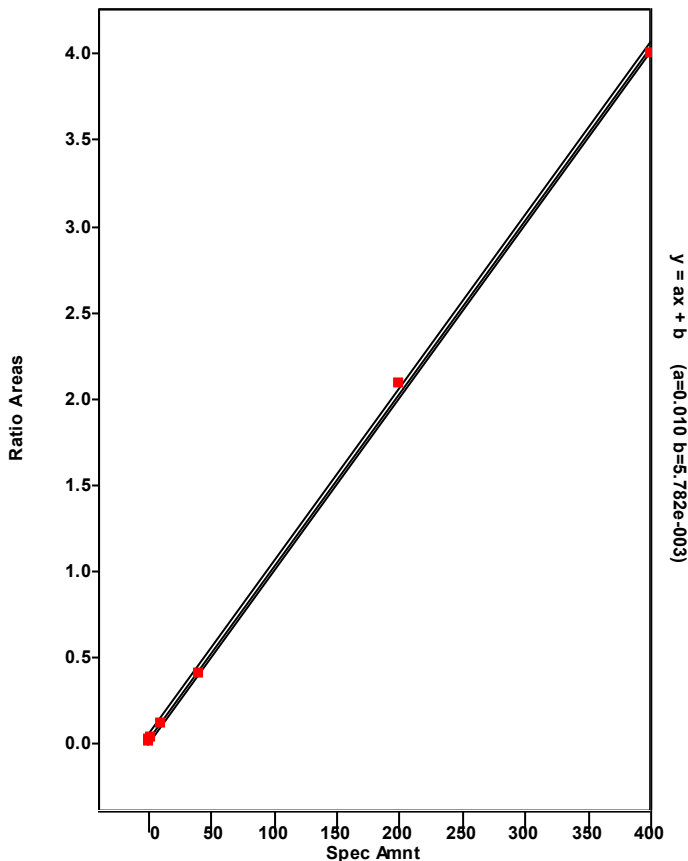
Entry Identifier	Total Tetrachlorodibenzofuran__14
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9401
RM1 Area	4832
RM1 Ratio (A)	0.5140
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.41
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Total Tetrachlorodibenzofuran__14 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__14

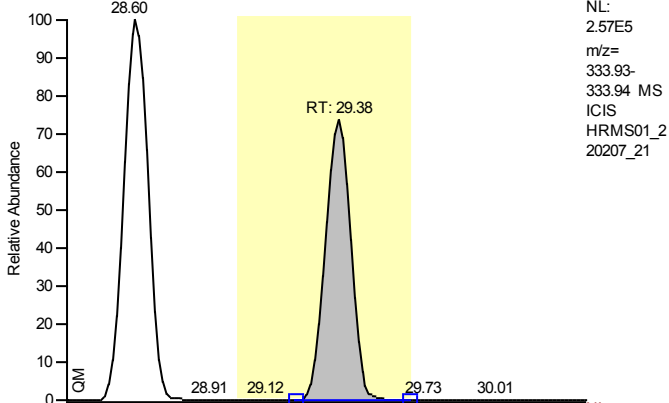
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

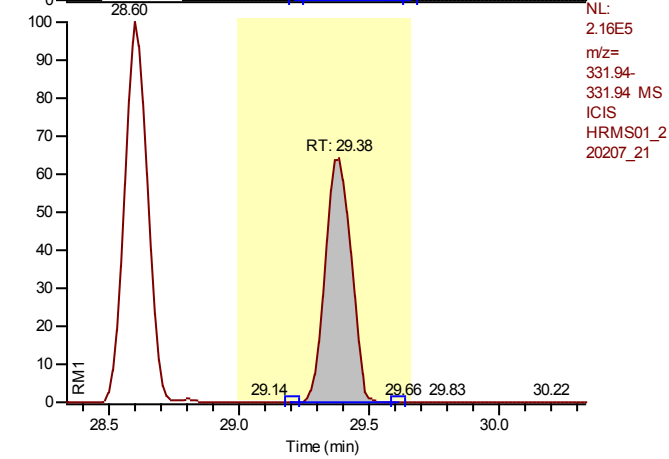
Entry Parameters

RT: 28.34 - 30.34 SM: 7G



NL:
 2.57E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1292083
RM1 Area	970595
RM1 Ratio (A)	0.7512
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	59.52
Percent Recovery (A)	60
TEQ (A)	0.0000
Label2	

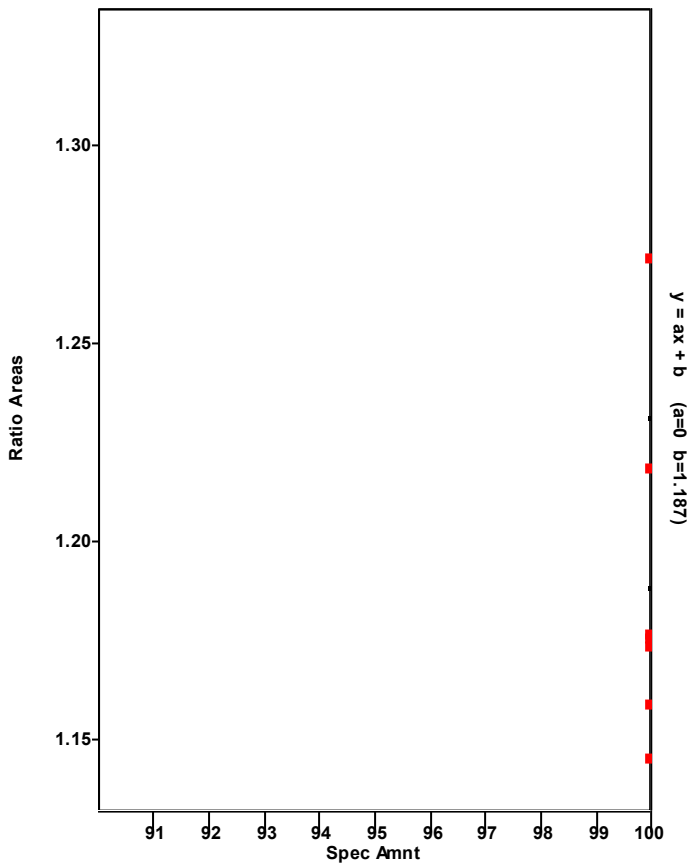


NL:
 2.16E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

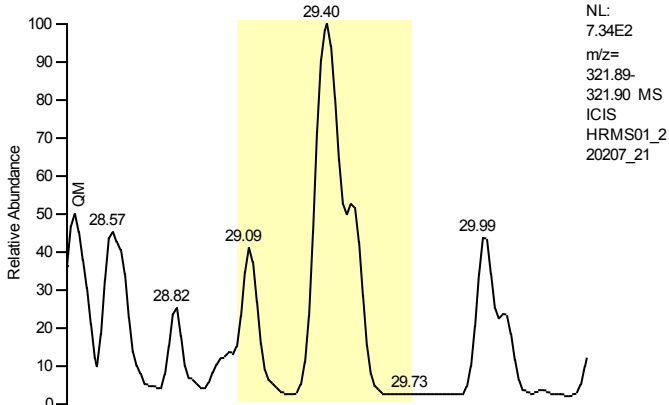
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



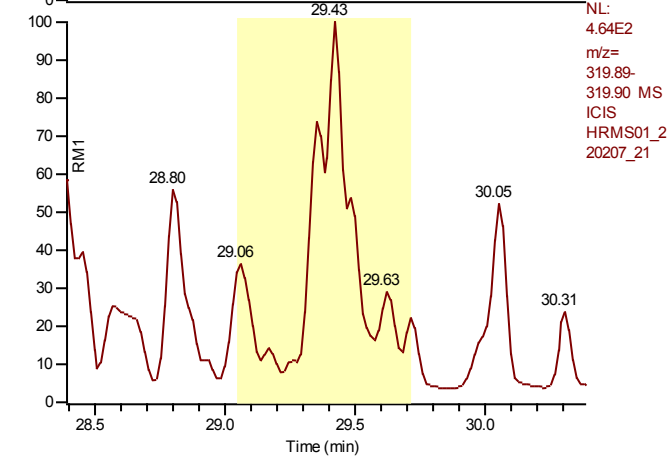
Chromatogram

Entry Parameters

RT: 28.39 - 30.39 SM: 7G



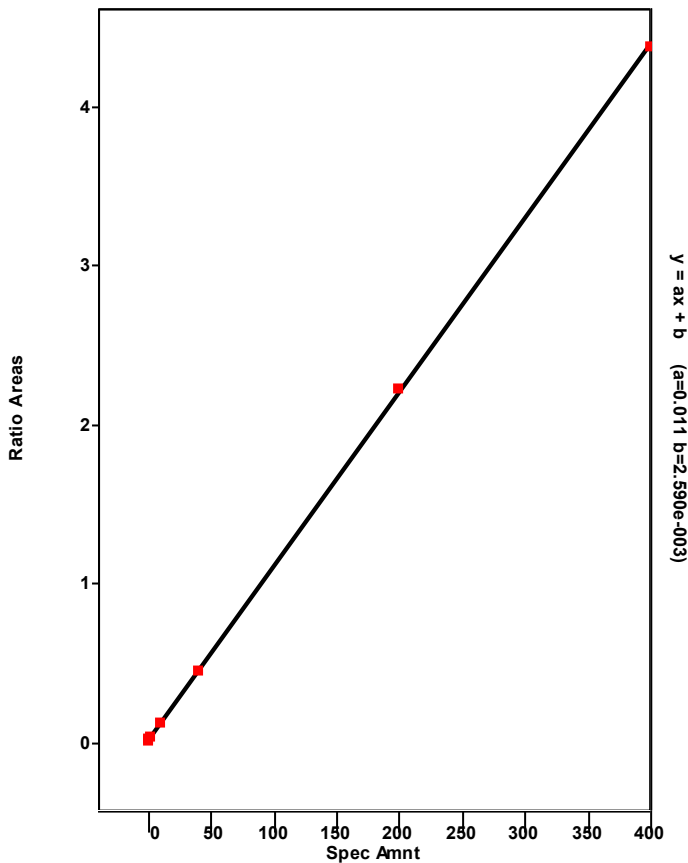
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

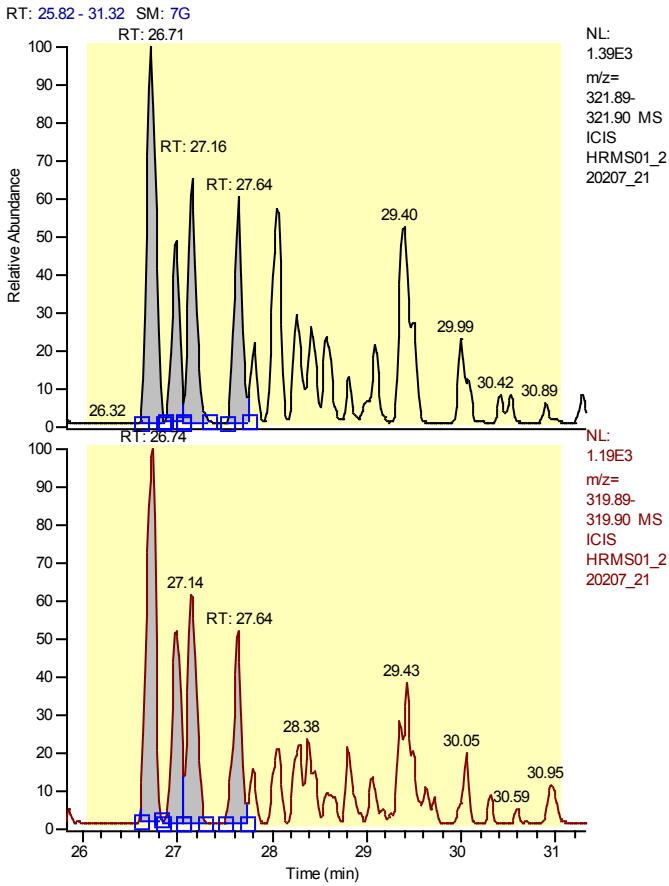
Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

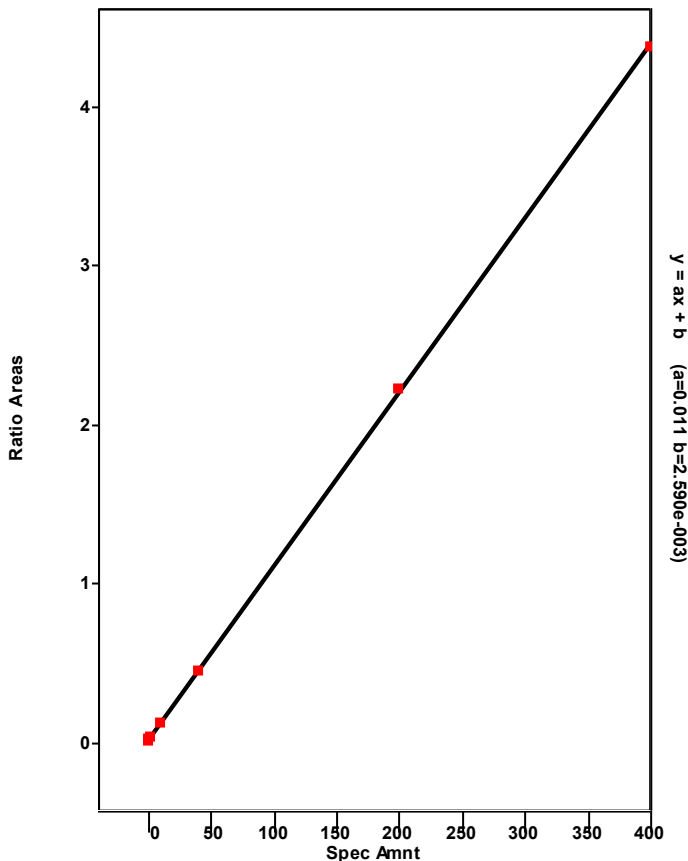


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	22975
RM1 Area	19940
RM1 Ratio (A)	0.8026
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.72
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

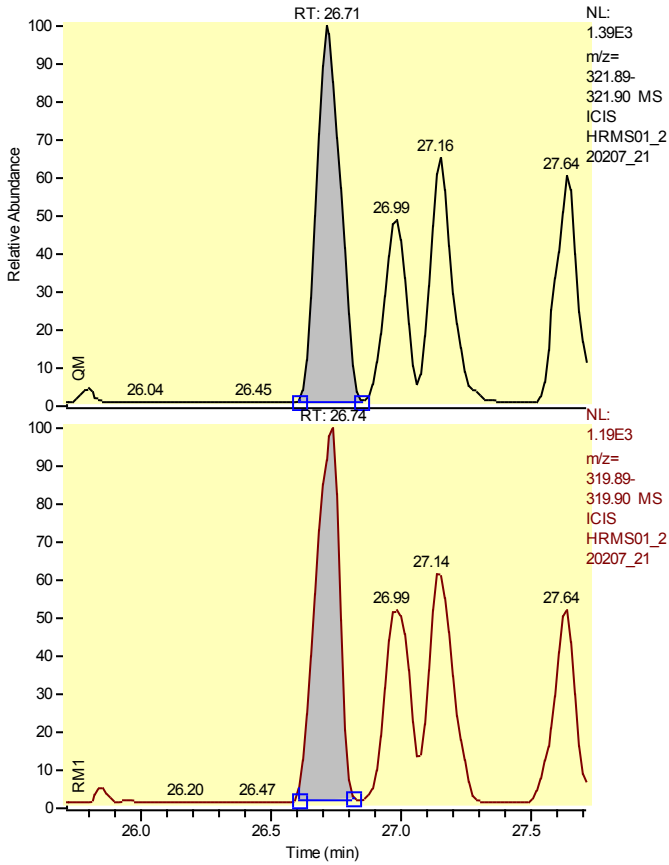
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.71 - 27.71 SM: 7G

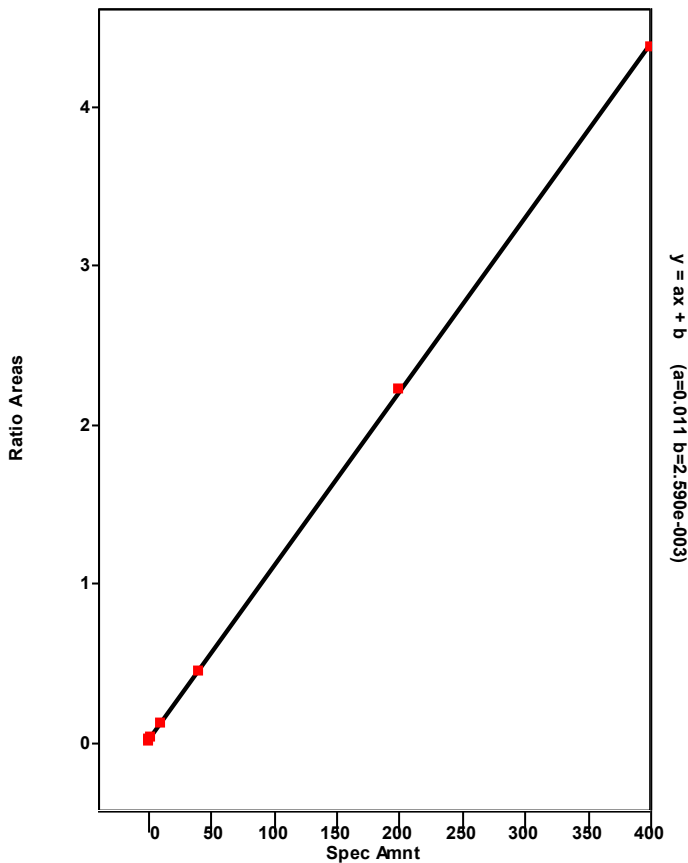


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	9258
RM1 Area	7752
RM1 Ratio (A)	0.8373
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.68
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

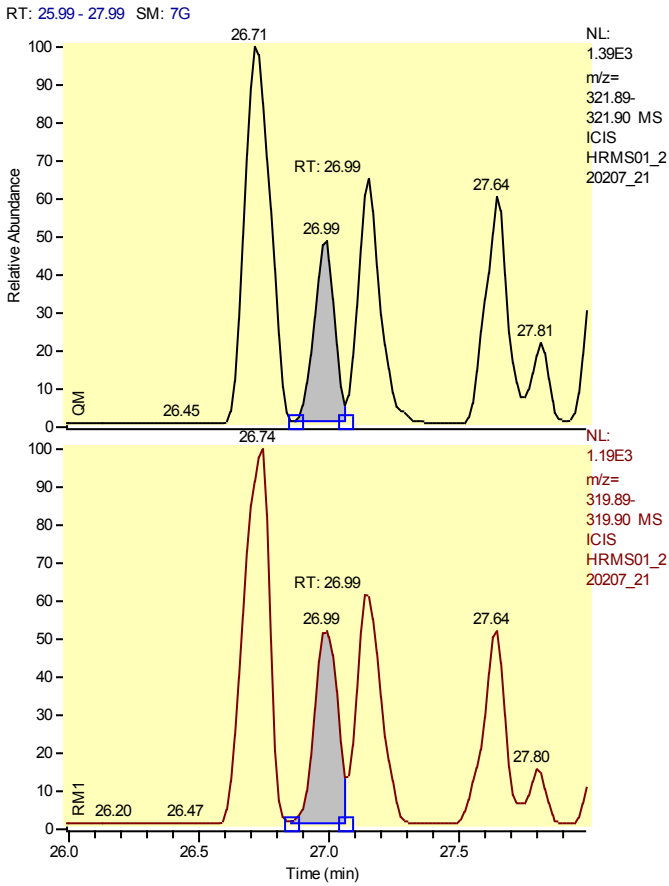
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

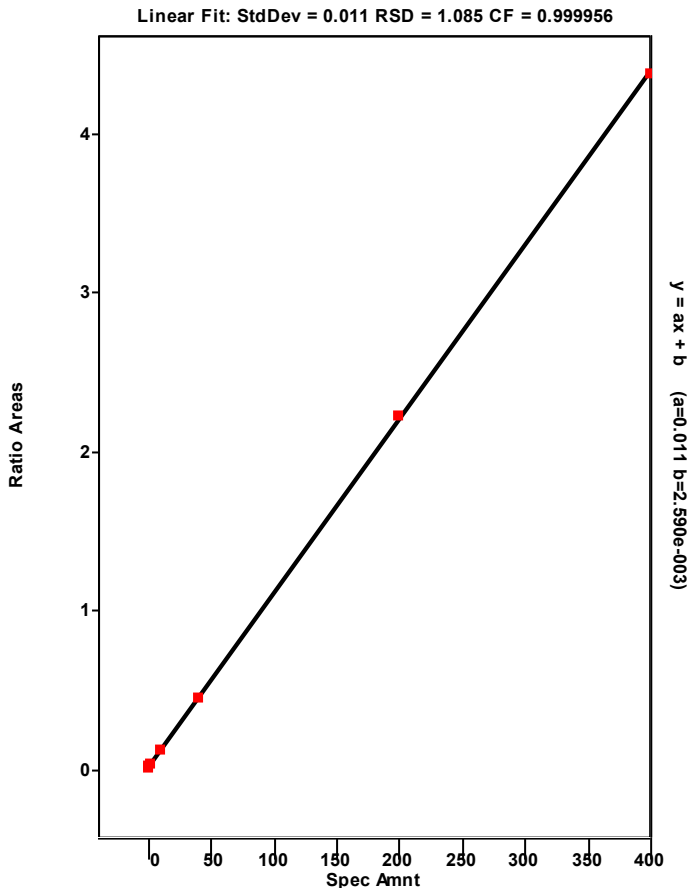
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	3803
RM1 Area	3919
RM1 Ratio (A)	1.0306
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.31
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

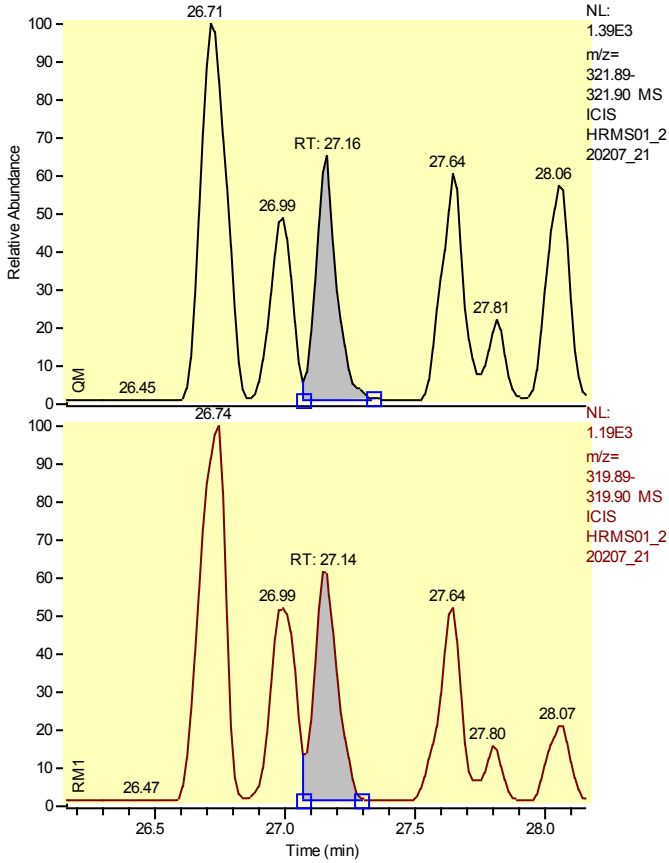
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2



Chromatogram

Entry Parameters

RT: 26.16 - 28.16 SM: 7G

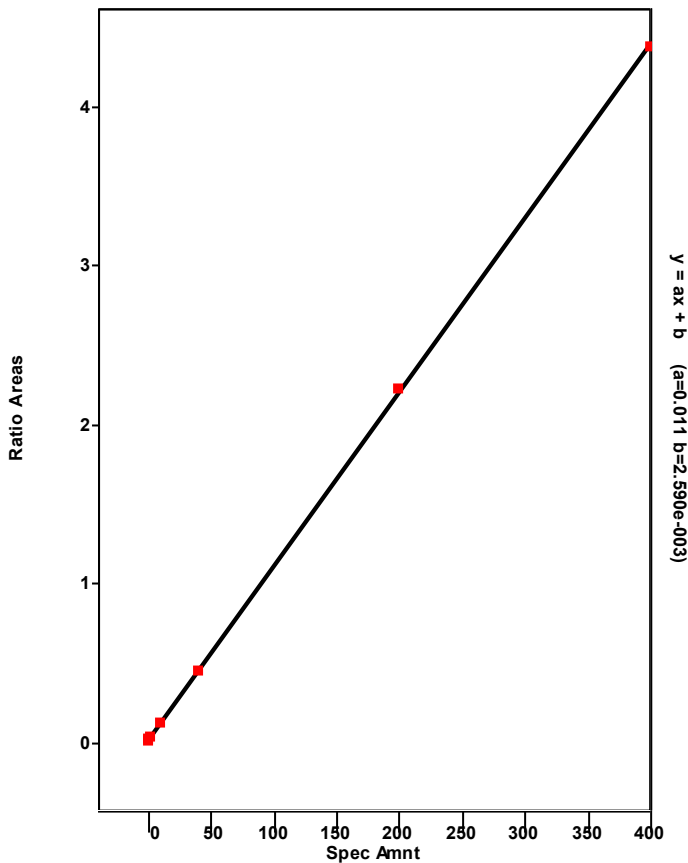


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	5138
RM1 Area	4756
RM1 Ratio (A)	0.9257
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.40
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

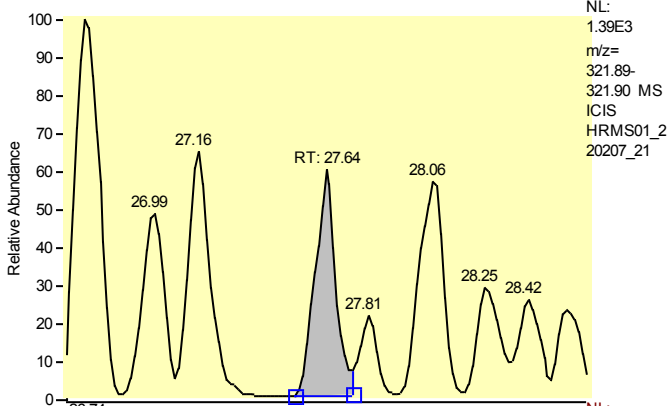
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

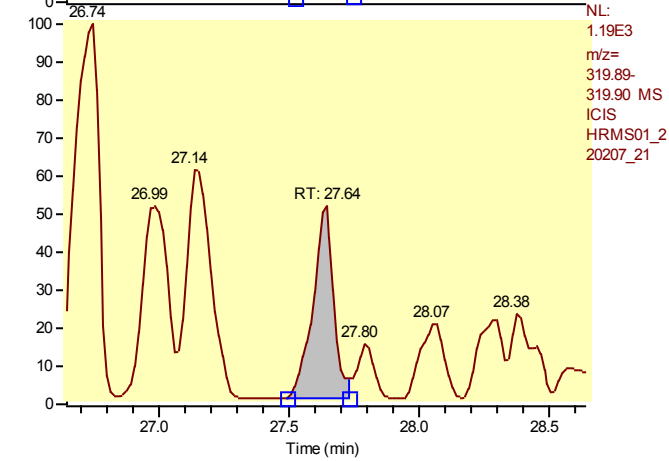
Entry Parameters

RT: 26.64 - 28.64 SM: 7G



NL:
1.39E3
m/z=
321.89-
321.90 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	4777
RM1 Area	3513
RM1 Ratio (A)	0.7354
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.33
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

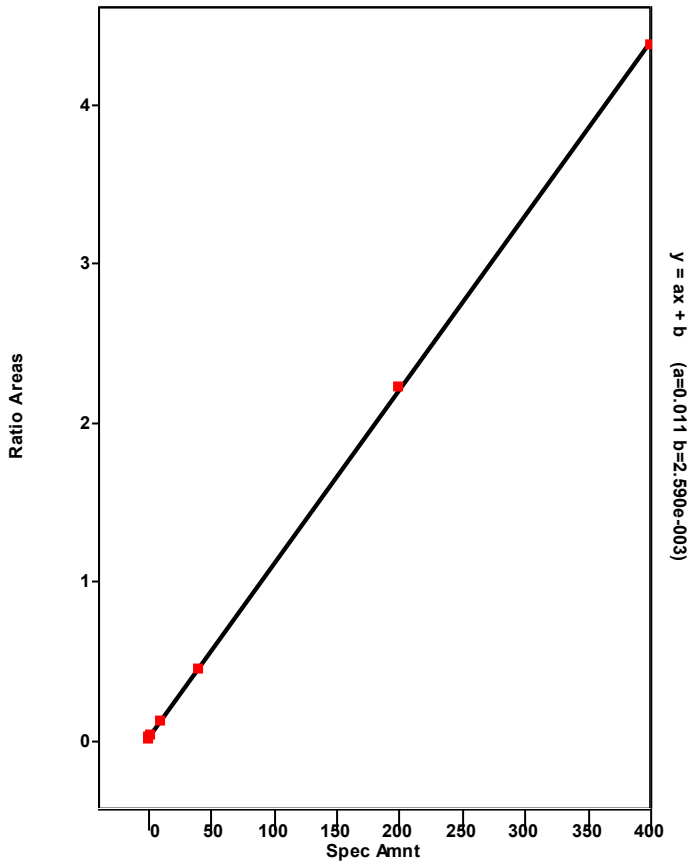


NL:
1.19E3
m/z=
319.89-
319.90 MS
ICIS
HRMS01_2
20207_21

Entry: Total Tetrachlorodibenzo-p-dioxin__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

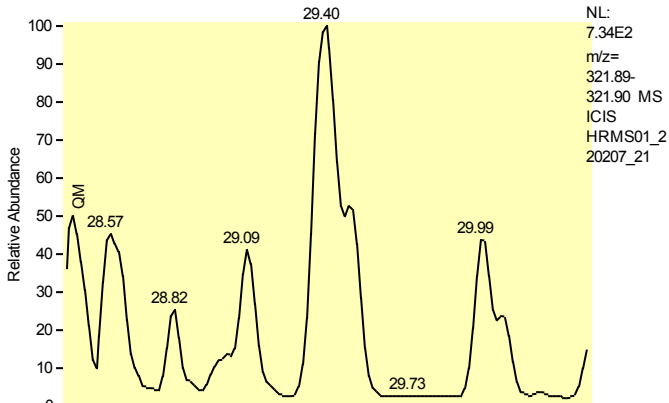
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



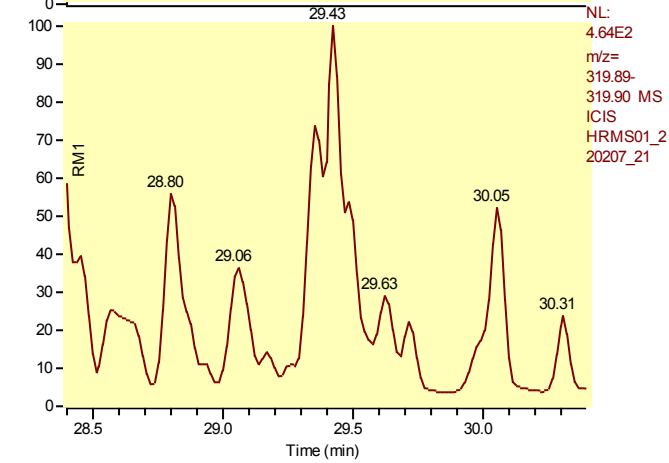
Chromatogram

Entry Parameters

RT: 28.40 - 30.40 SM: 7G



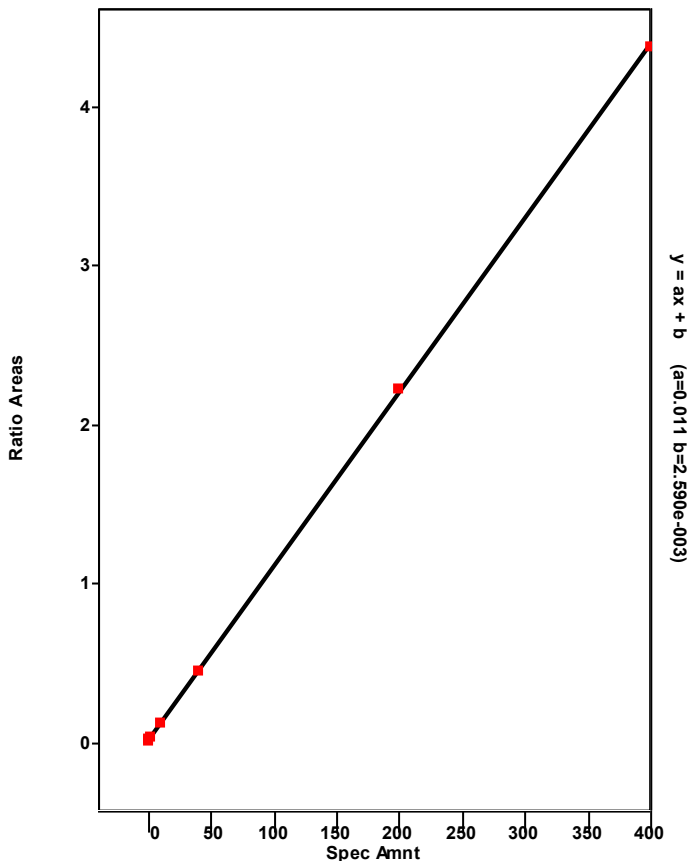
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__8
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__8 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__8

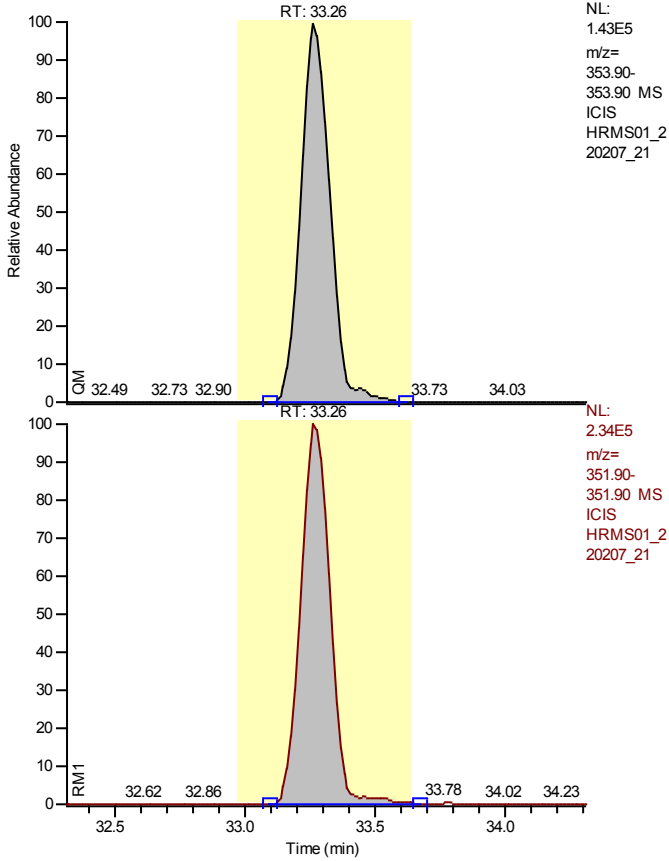
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G

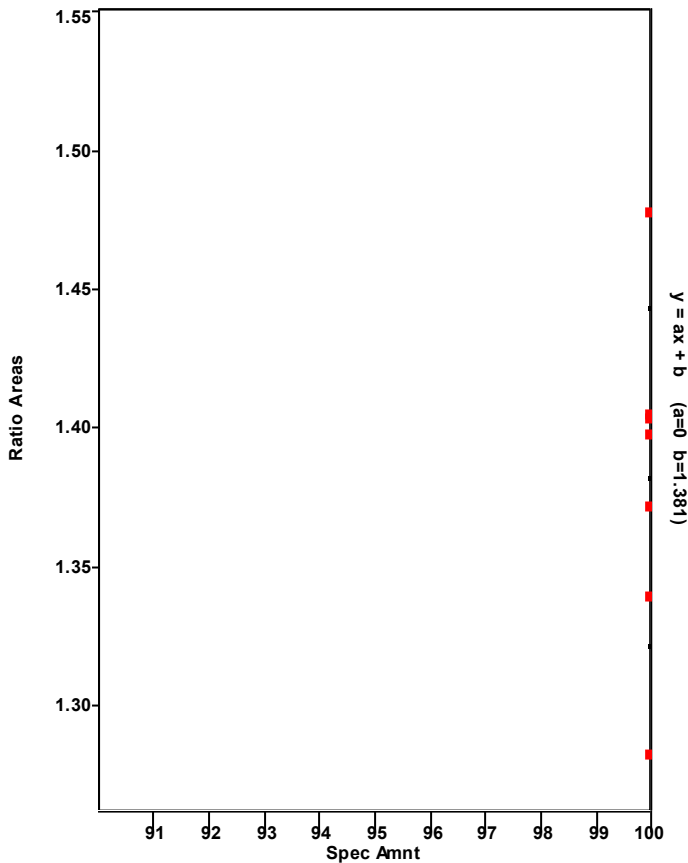


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1112701
RM1 Area	1819788
RM1 Ratio (A)	1.6355
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	66.31
Percent Recovery (A)	66
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

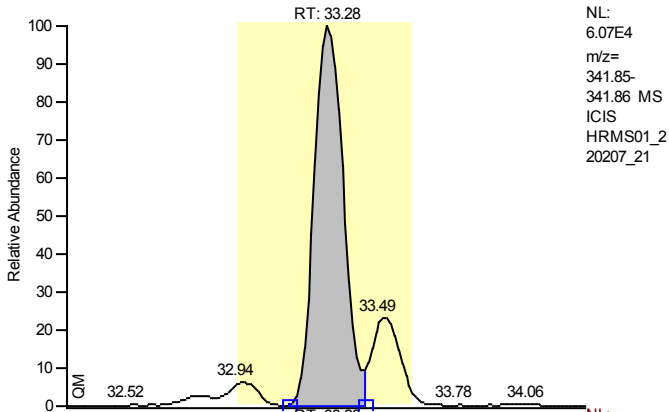
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

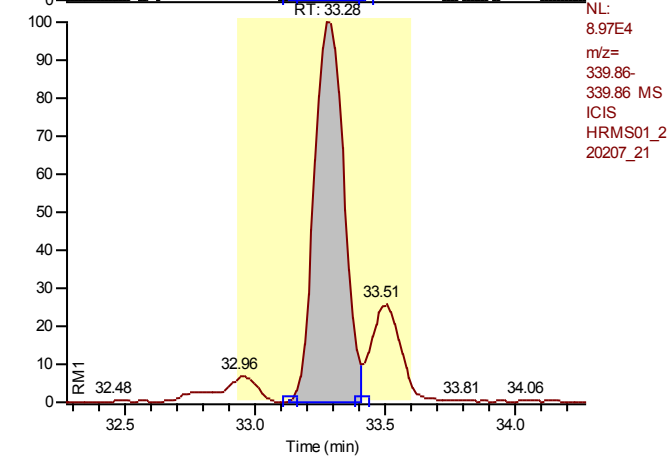
Entry Parameters

RT: 32.27 - 34.27 SM: 7G



NL:
 6.07E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	471560
RM1 Area	702553
RM1 Ratio (A)	1.4899
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	39.80
Percent Recovery (A)	---
TEQ (A)	1.1940
Label2	

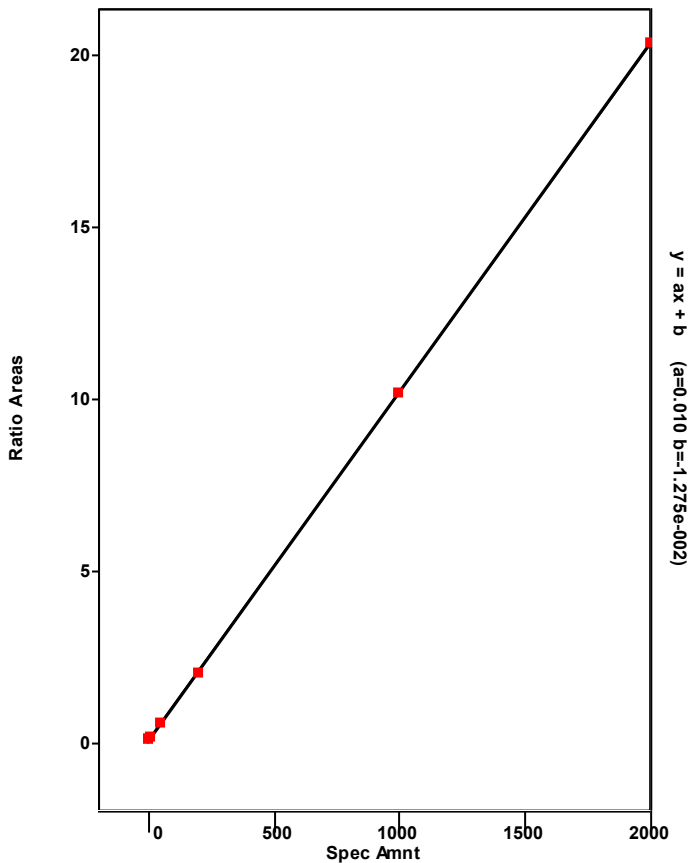


NL:
 8.97E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

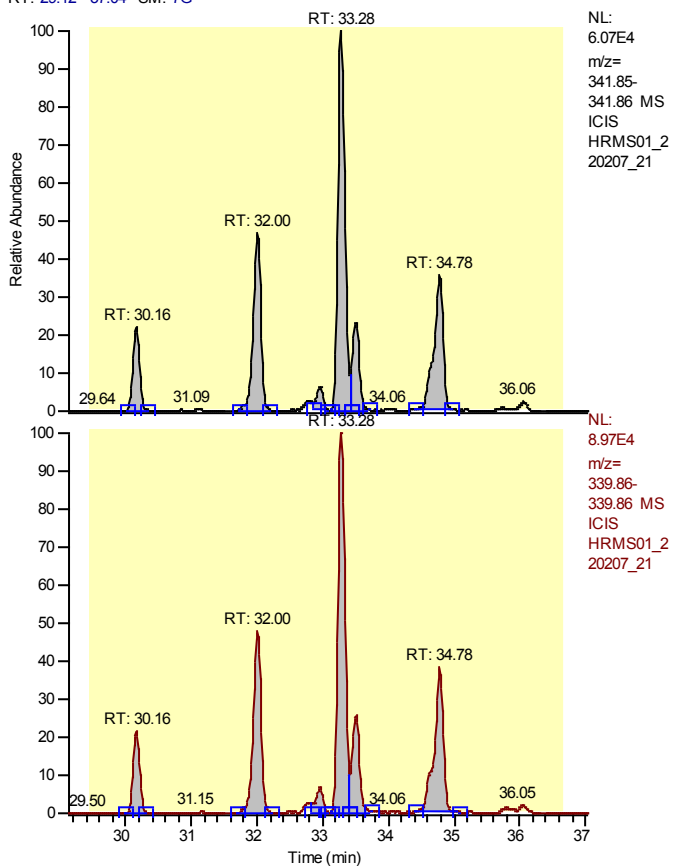
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.12- 37.04 SM: 7G

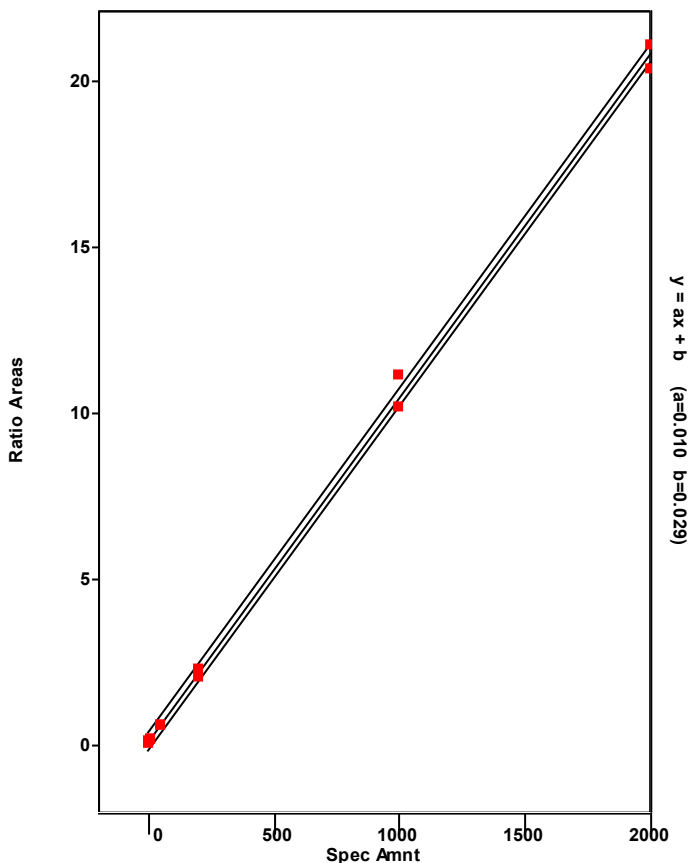


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	1157071
RM1 Area	1777920
RM1 Ratio (A)	1.5366
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	94.47
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

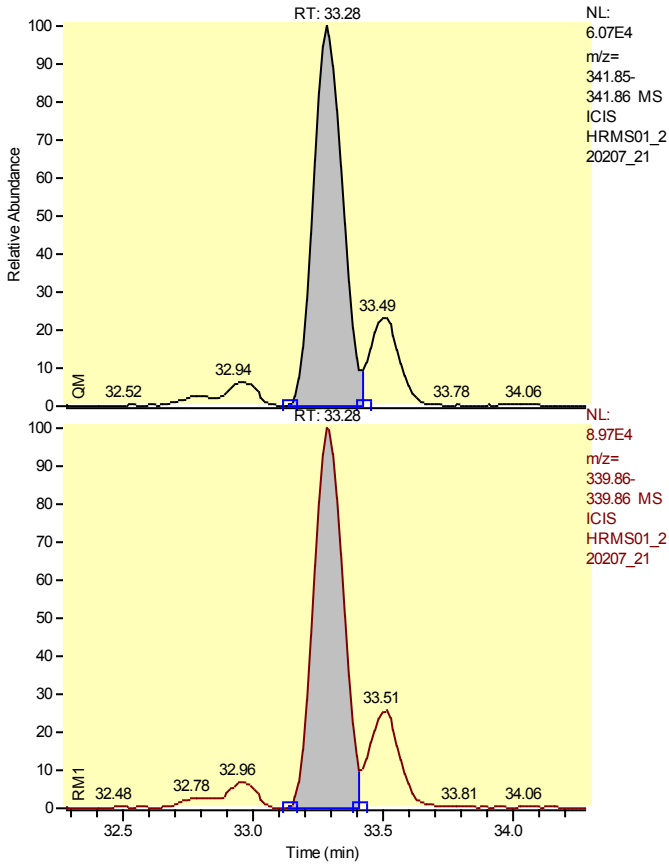
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

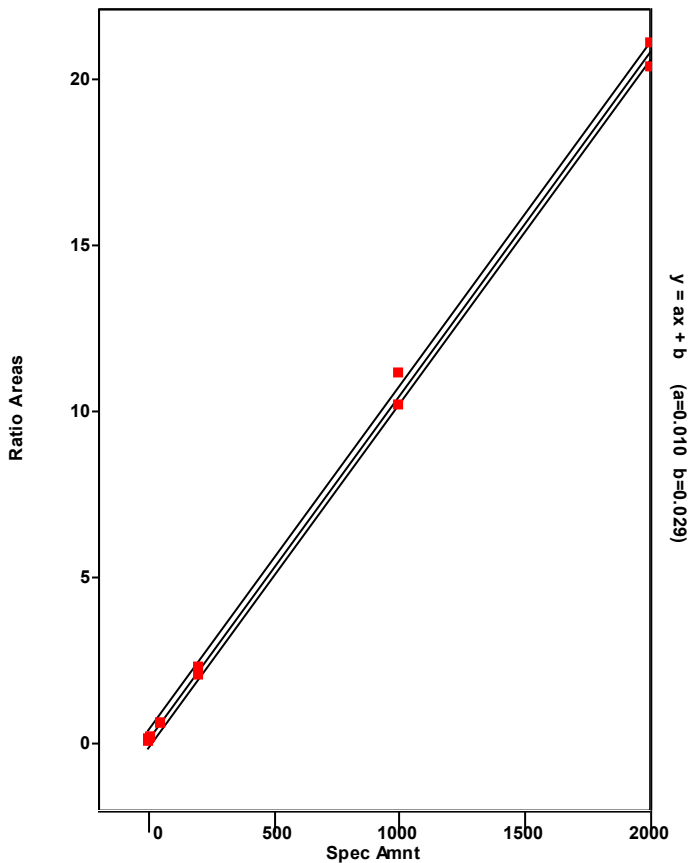


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	471560
RM1 Area	702553
RM1 Ratio (A)	1.4899
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	37.79
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

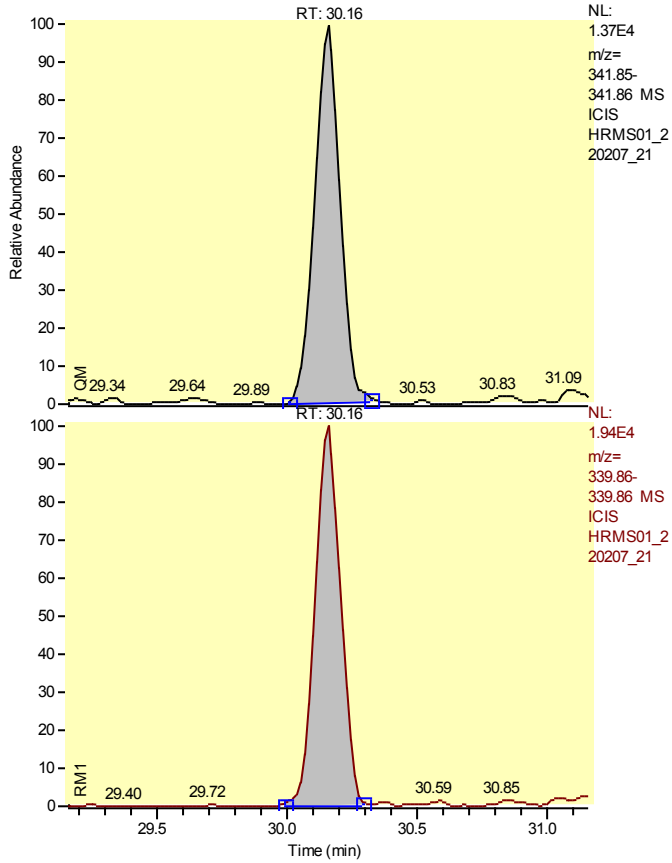
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 29.16 - 31.16 SM: 7G

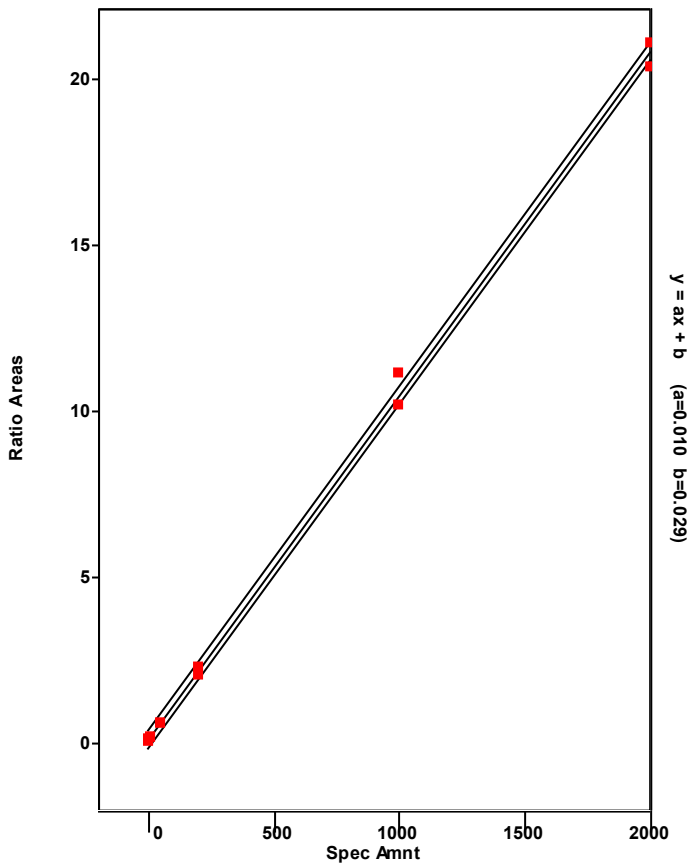


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	96432
RM1 Area	137505
RM1 Ratio (A)	1.4259
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	7.53
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

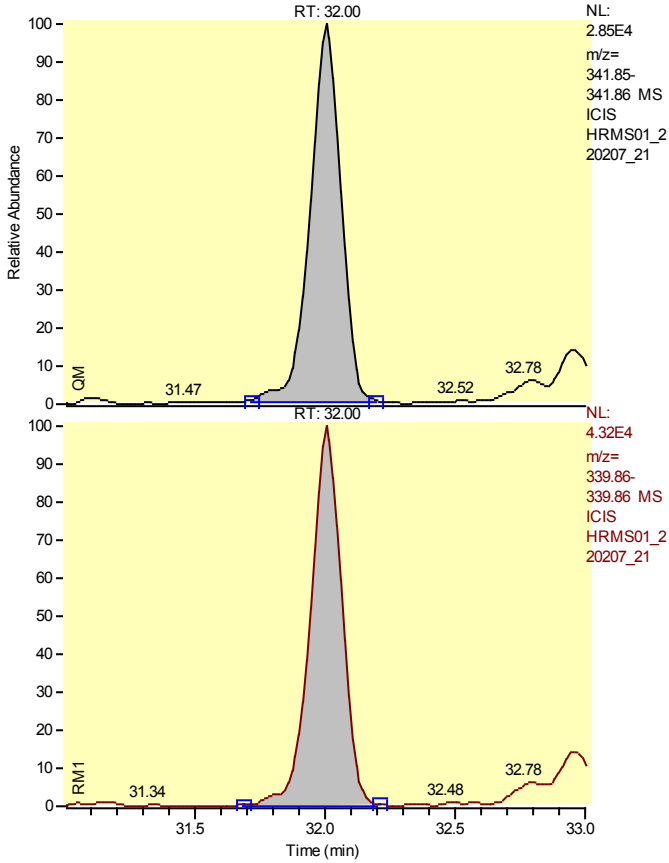
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 31.00 - 33.00 SM: 7G

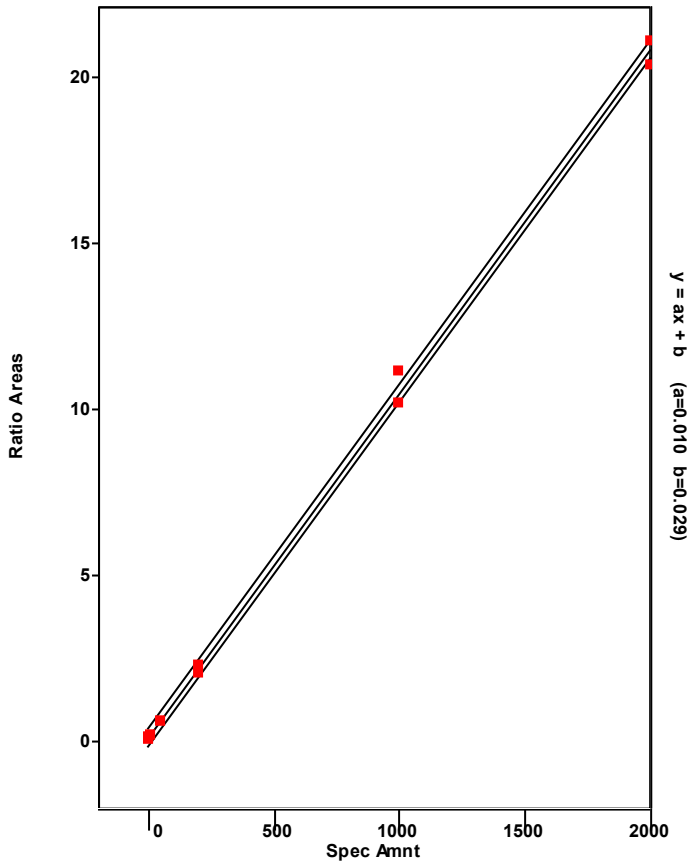


Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	232692
RM1 Area	359611
RM1 Ratio (A)	1.5454
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	19.06
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

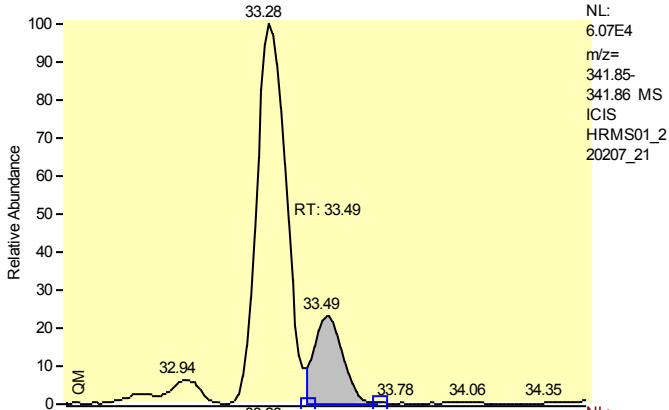
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



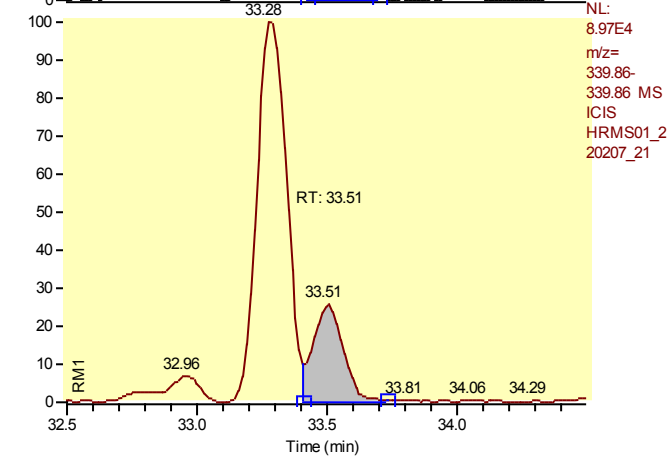
Chromatogram

Entry Parameters

RT: 32.49 - 34.49 SM: 7G



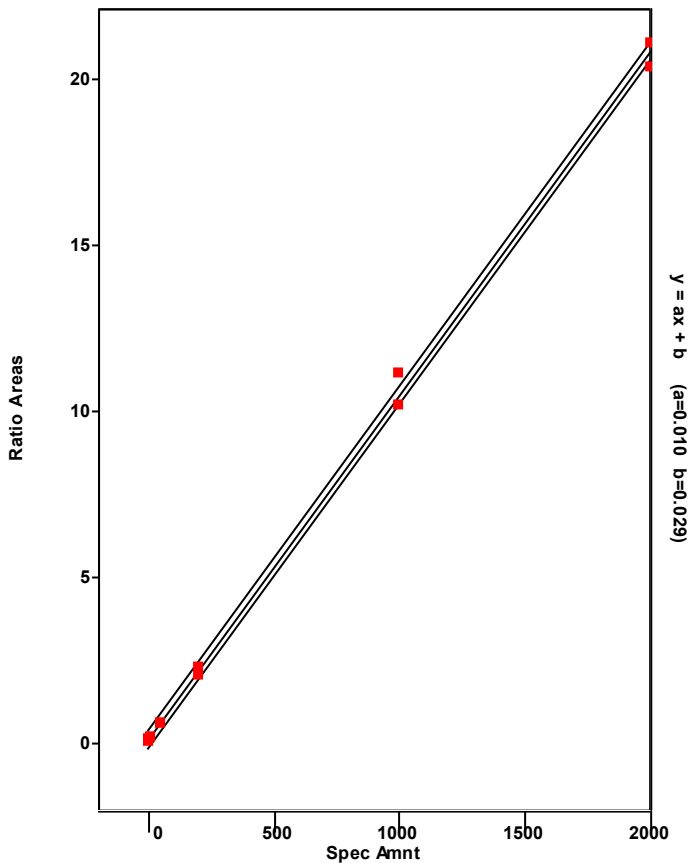
Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	106501
RM1 Area	183156
RM1 Ratio (A)	1.7198
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	9.32
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

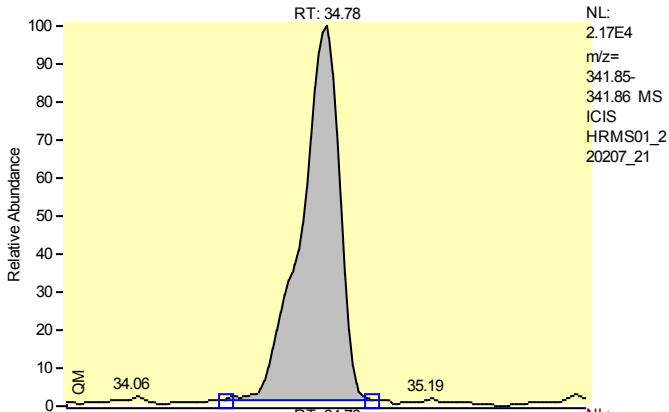
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

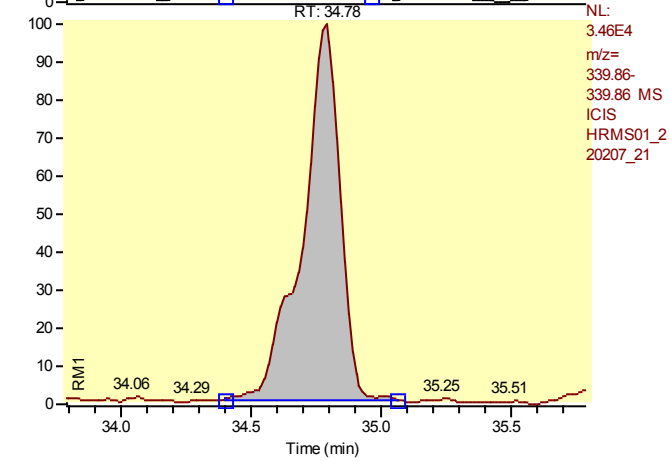
Entry Parameters

RT: 33.78 - 35.78 SM: 7G



NL:
2.17E4
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	Total Pentachlorodibenzofuran__5
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	219987
RM1 Area	346027
RM1 Ratio (A)	1.5729
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	18.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

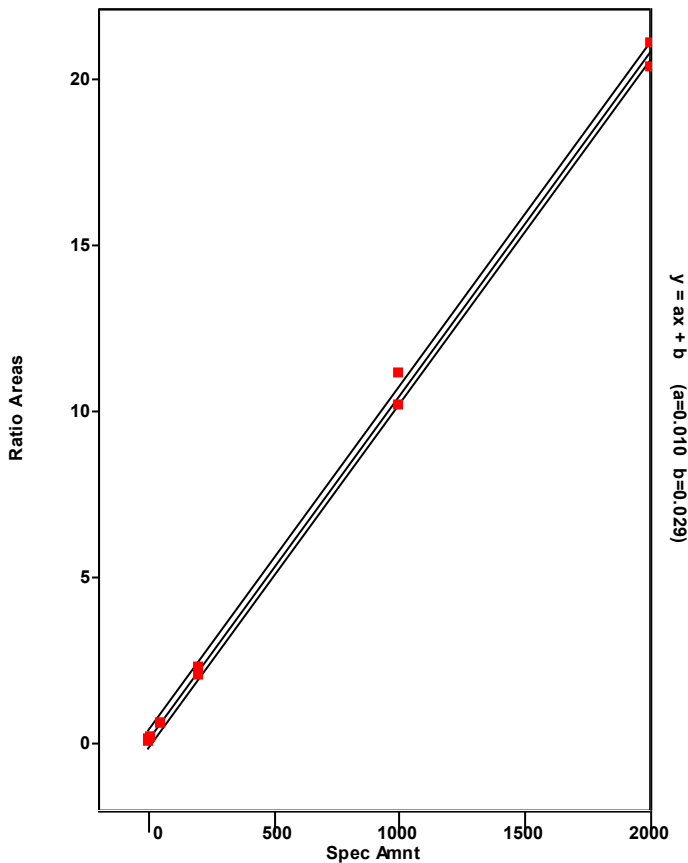


NL:
3.46E4
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20207_21

Entry: Total Pentachlorodibenzofuran__5 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__5

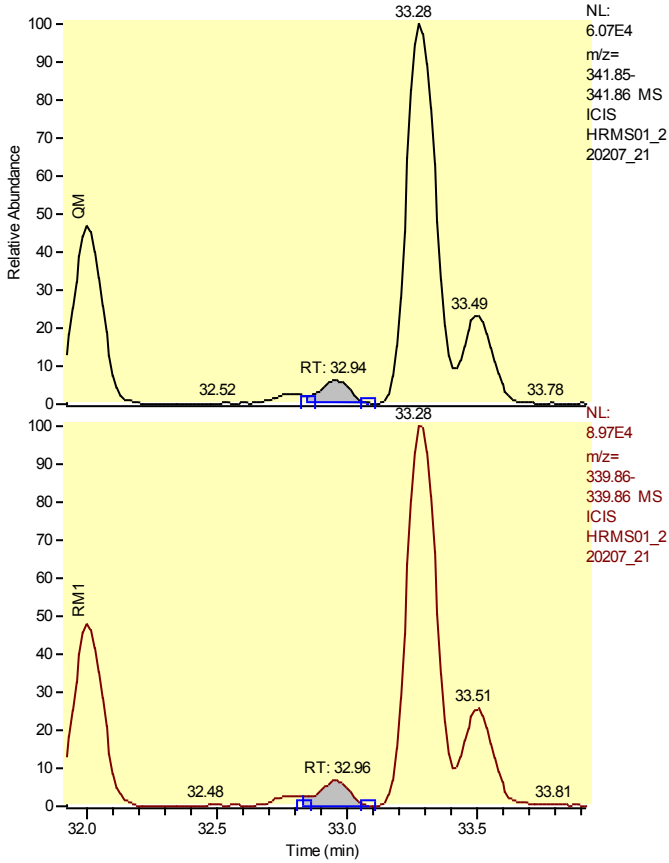
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 31.92- 33.92 SM: 7G

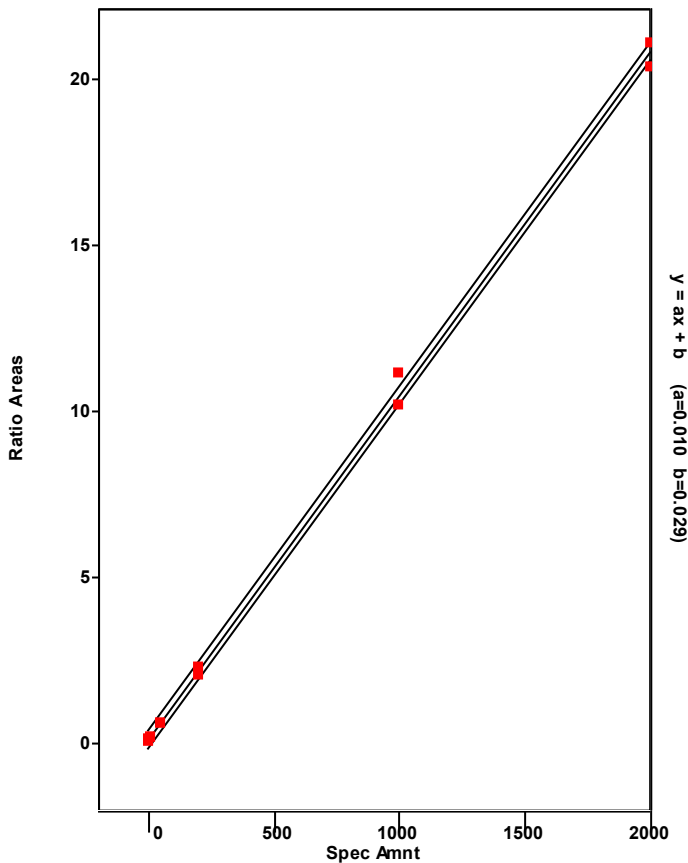


Entry Identifier	Total Pentachlorodibenzofuran__6
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	29899
RM1 Area	49067
RM1 Ratio (A)	1.6411
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.54
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__6 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__6

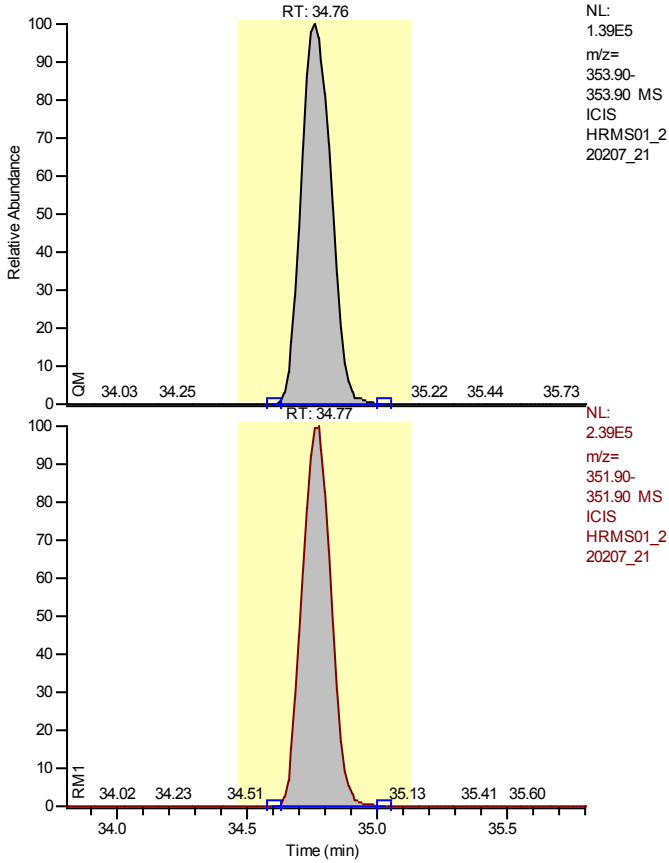
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.80 - 35.80 SM: 7G



NL:
1.39E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20207_21

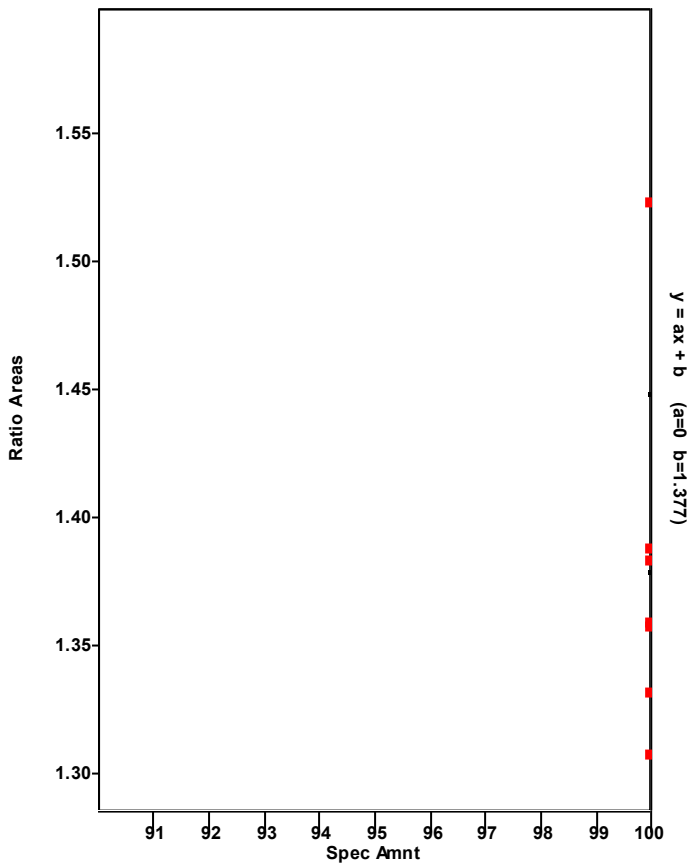
NL:
2.39E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1121887
RM1 Area	1858588
RM1 Ratio (A)	1.6567
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	67.59
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

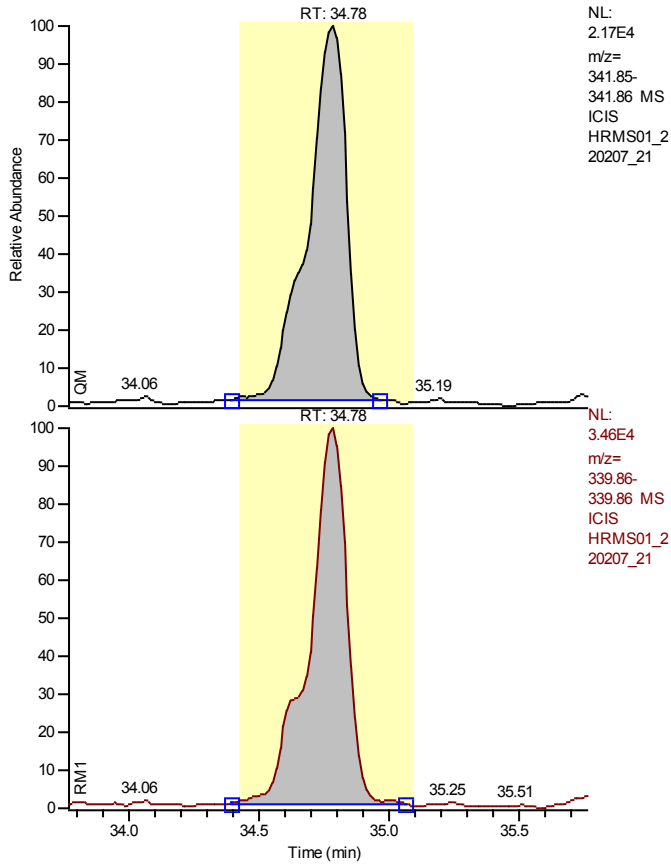
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.77 - 35.77 SM: 7G



NL:
 2.17E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_21

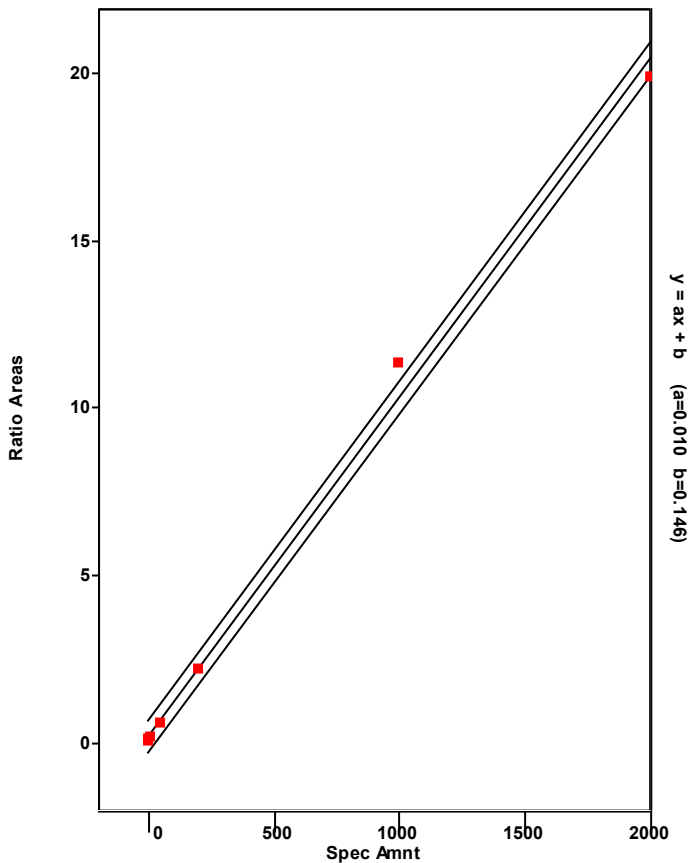
NL:
 3.46E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	219987
RM1 Area	346027
RM1 Ratio (A)	1.5729
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	16.99
Percent Recovery (A)	---
TEQ (A)	5.0974
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

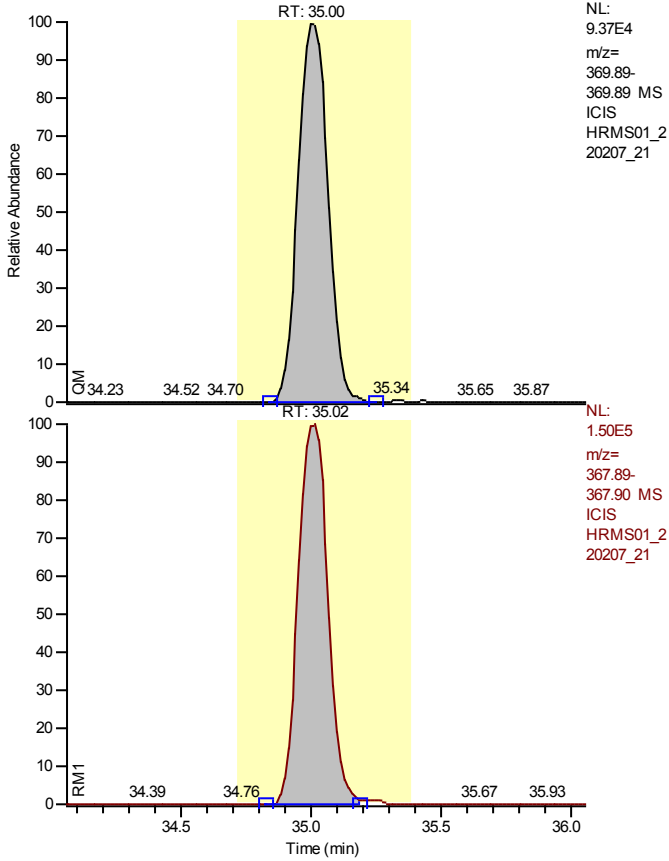
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

RT: 34.06 - 36.06 SM: 7G



NL:
9.37E4
m/z=
369.89-
369.89 MS
ICIS
HRMS01_2
20207_21

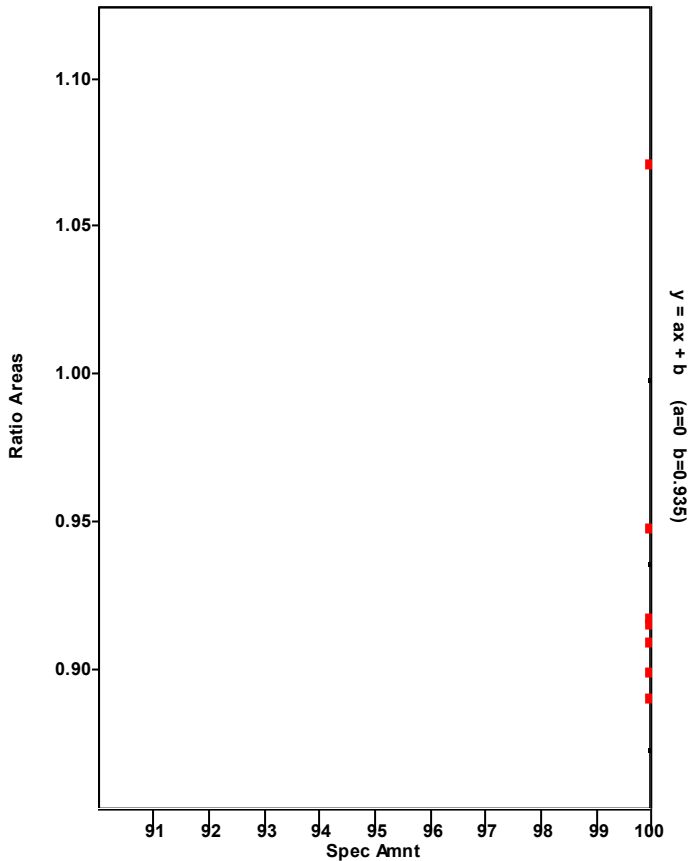
NL:
1.50E5
m/z=
367.89-
367.90 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	756305
RM1 Area	1198698
RM1 Ratio (A)	1.5849
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	65.34
Percent Recovery (A)	65
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

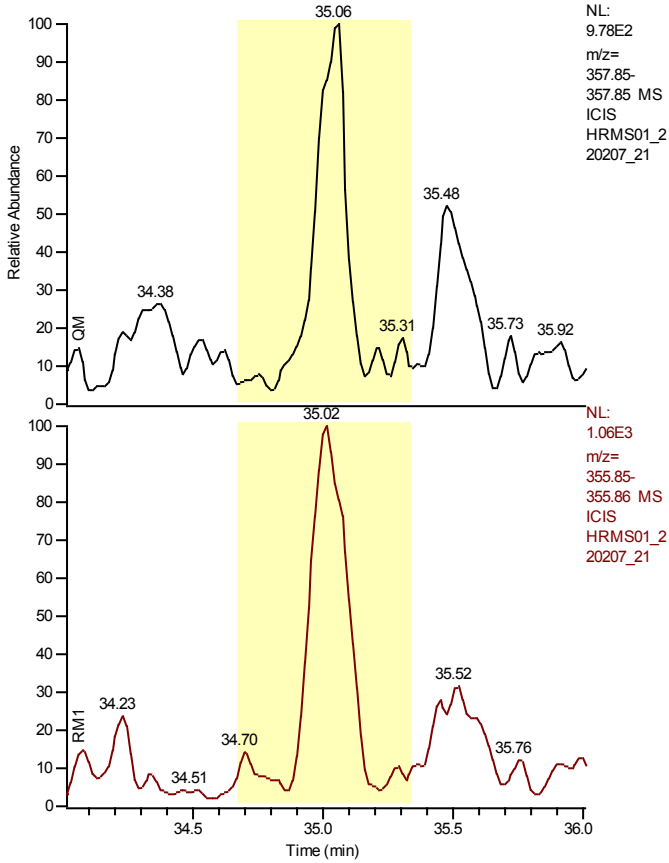
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.01 - 36.01 SM: 7G



NL:
 9.78E2
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_21

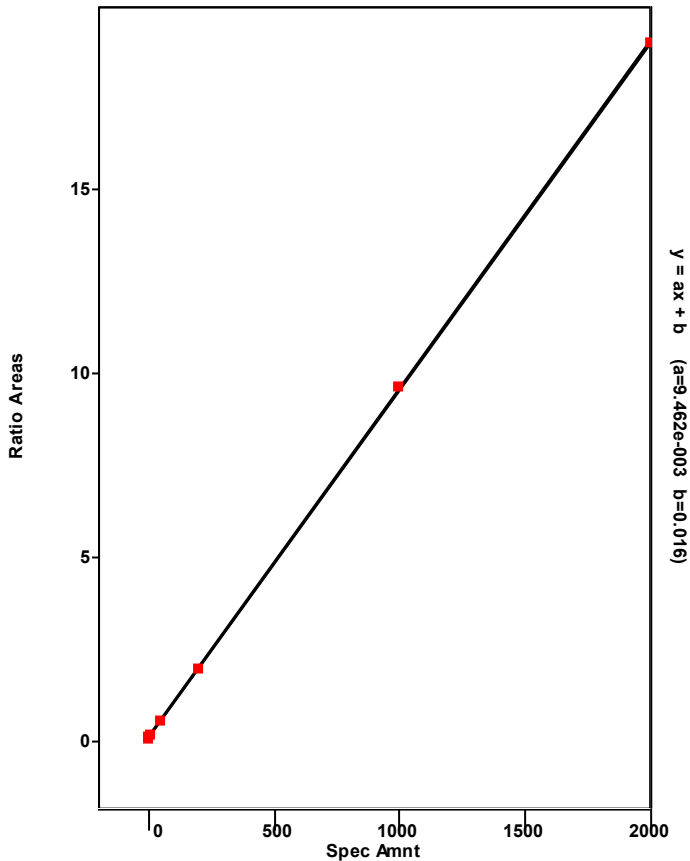
NL:
 1.06E3
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

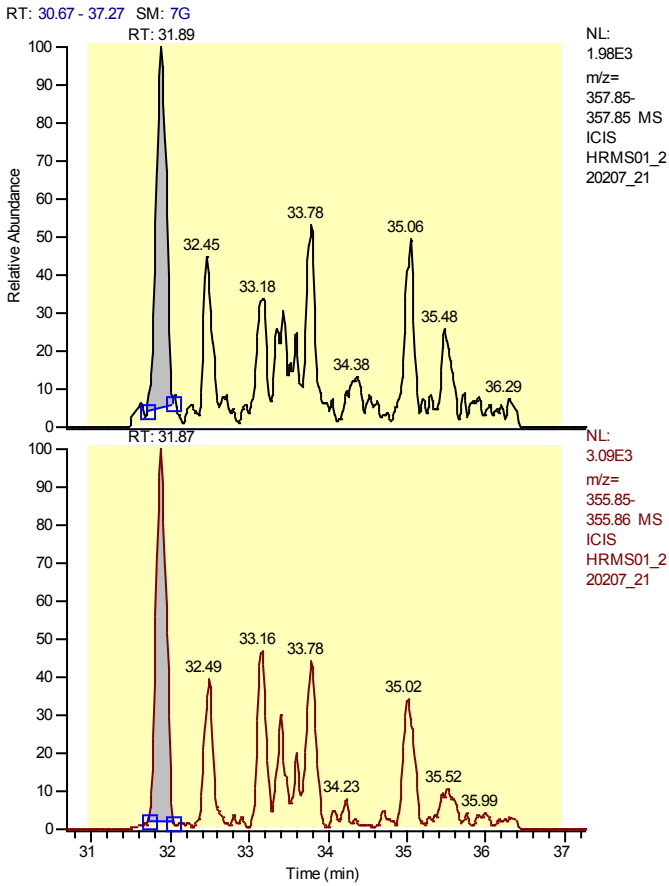
Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

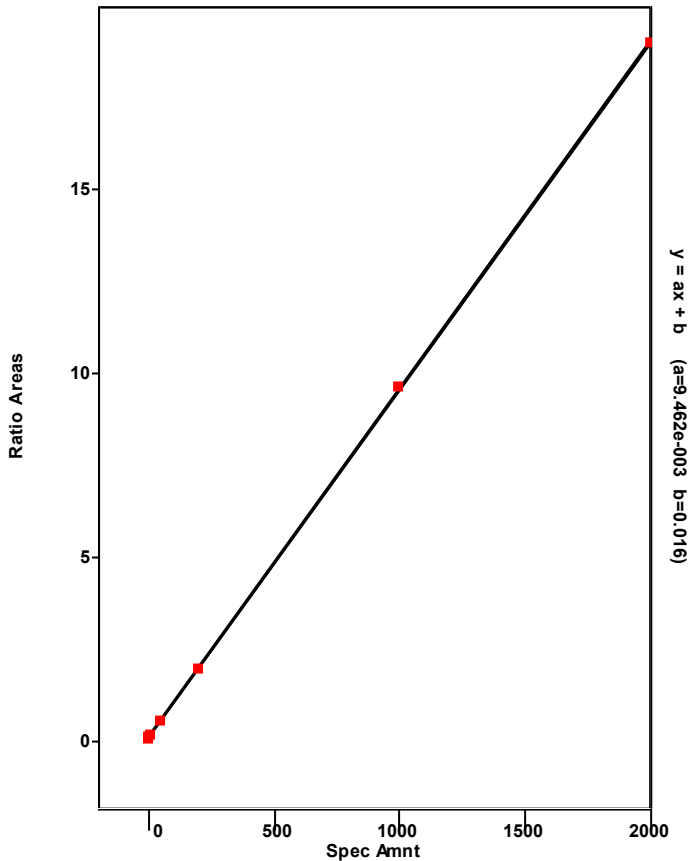


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	16810
RM1 Area	27195
RM1 Ratio (A)	1.6178
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.26
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

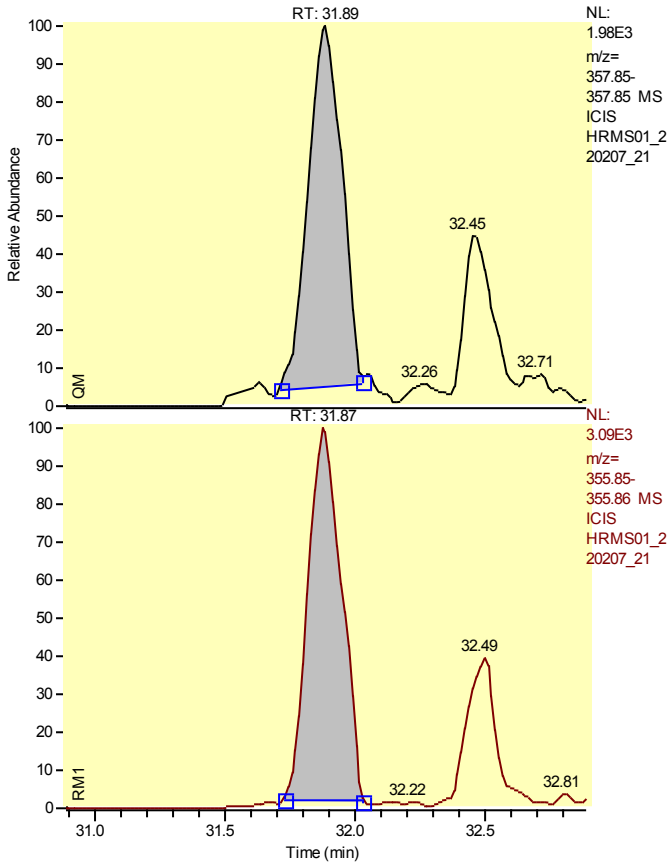
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.89 - 32.89 SM: 7G

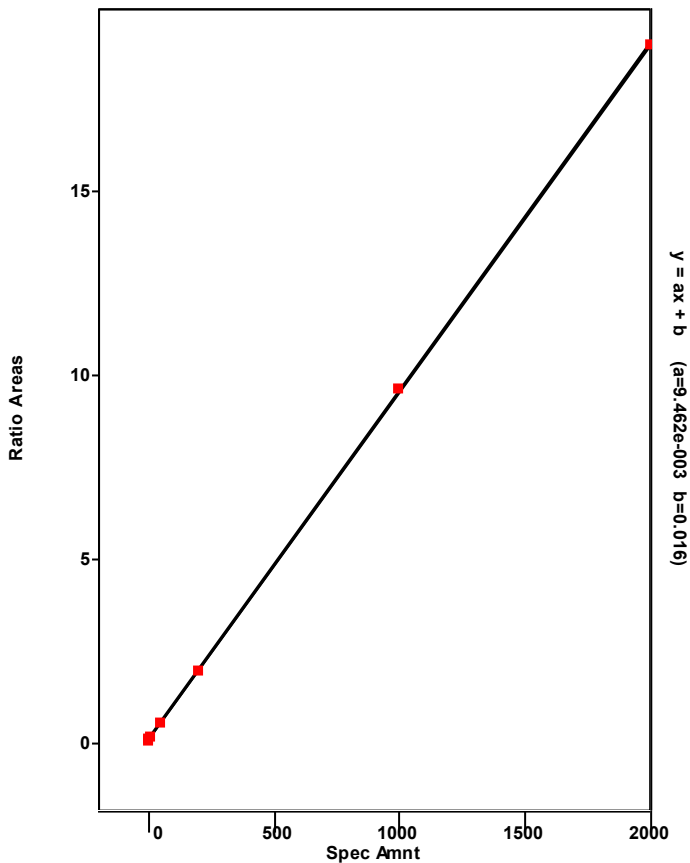


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	16810
RM1 Area	27195
RM1 Ratio (A)	1.6178
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.26
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

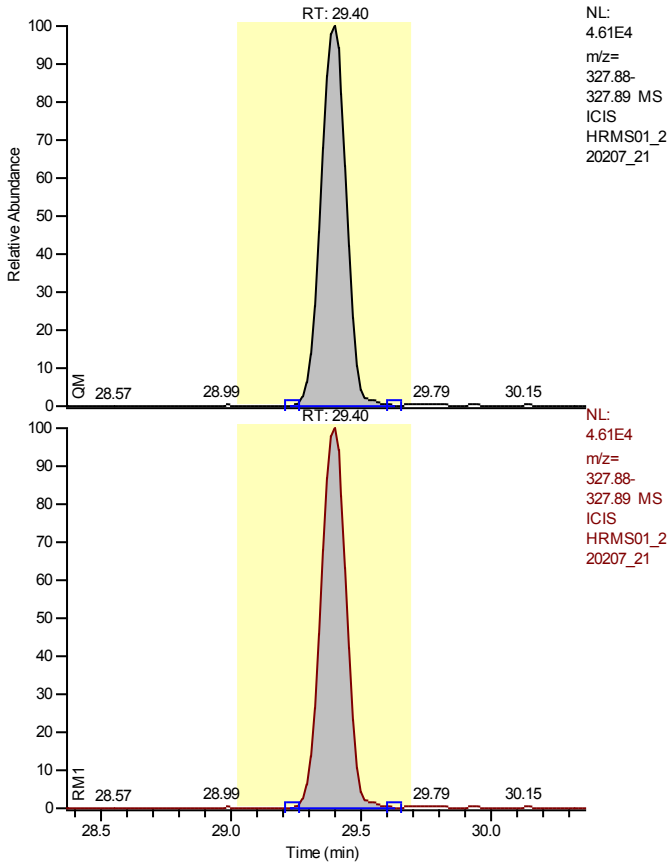
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.37 - 30.37 SM: 7G

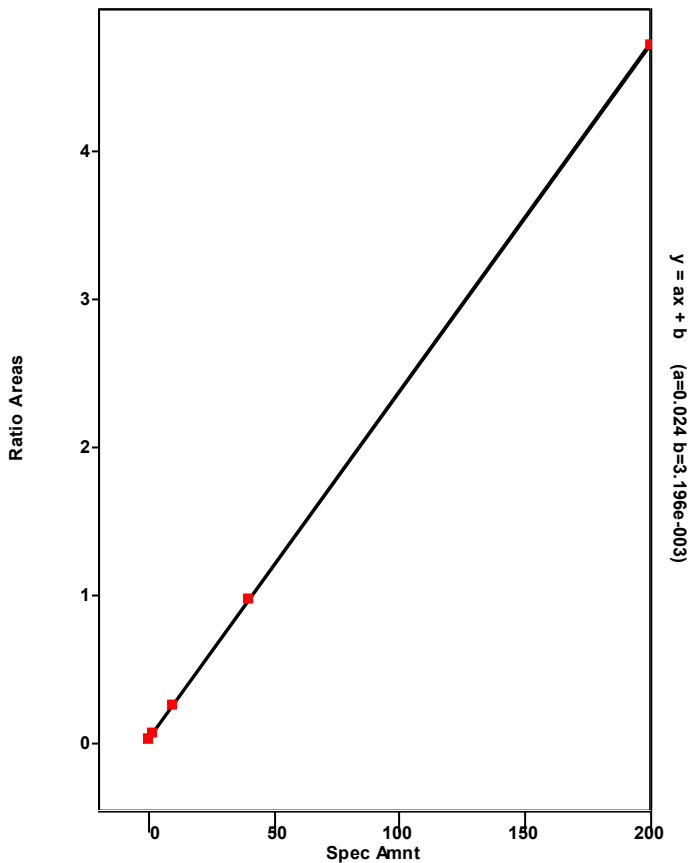


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	326754
RM1 Area	326754
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.47
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

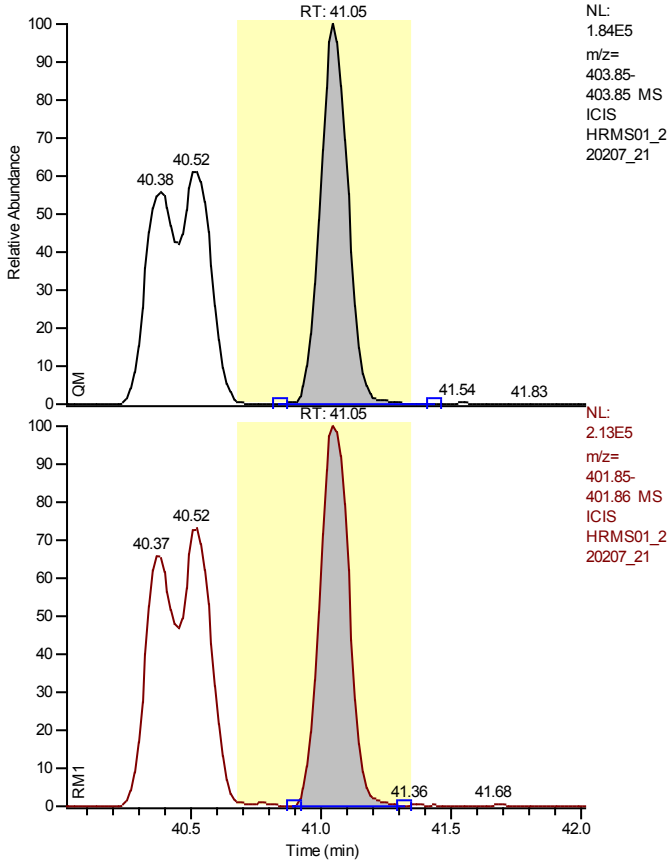
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
1.84E5
m/z=
403.85-
403.85 MS
ICIS
HRMS01_2
20207_21

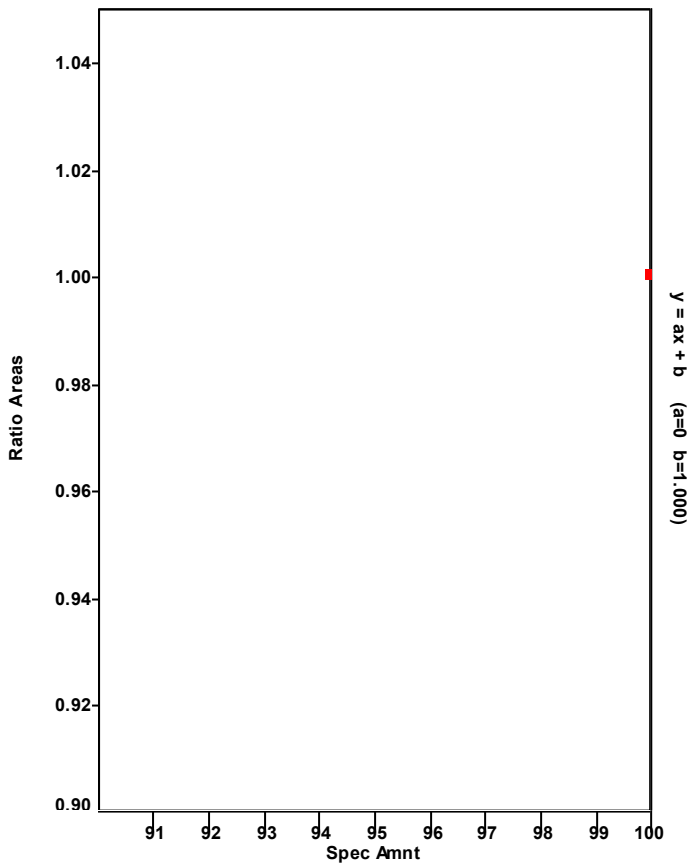
NL:
2.13E5
m/z=
401.85-
401.86 MS
ICIS
HRMS01_2
20207_21

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1370676
RM1 Area	1665287
RM1 Ratio (A)	1.2149
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

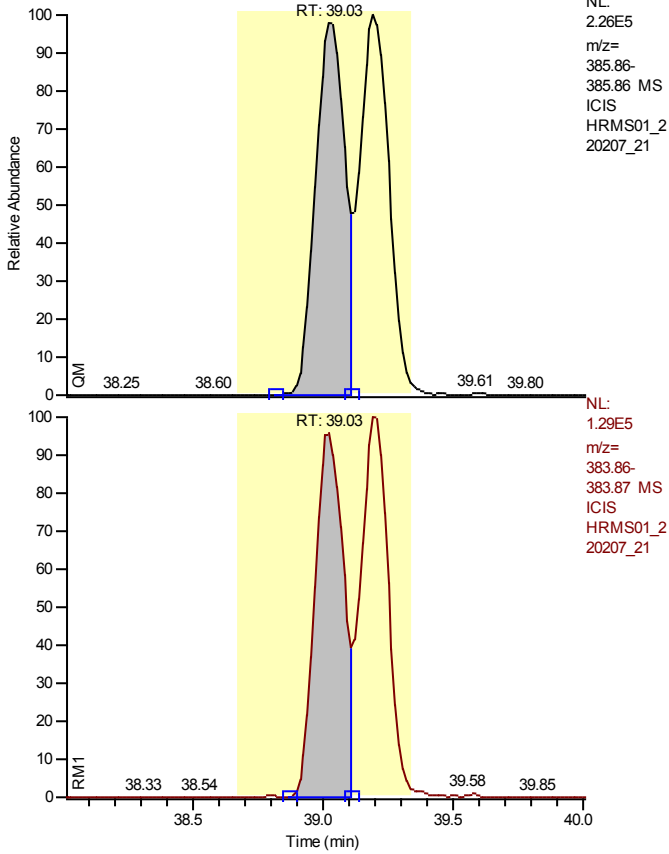
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.01 - 40.01 SM: 7G

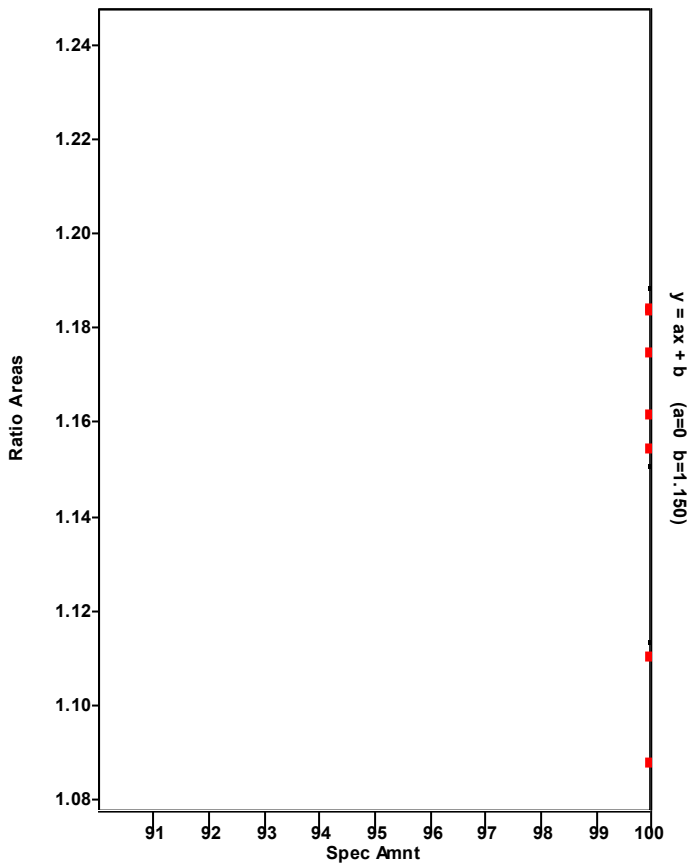


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1715527
RM1 Area	931070
RM1 Ratio (A)	0.5427
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	75.78
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

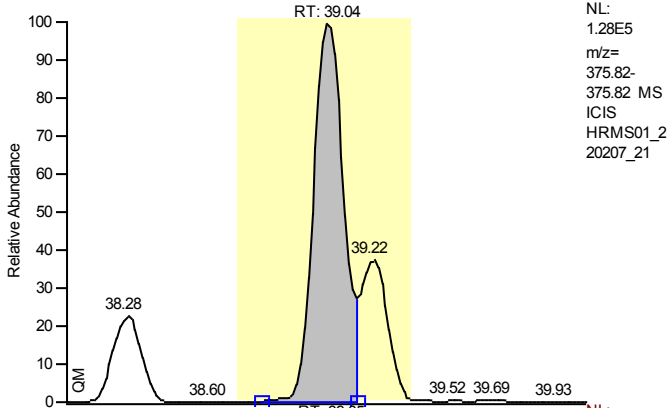
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



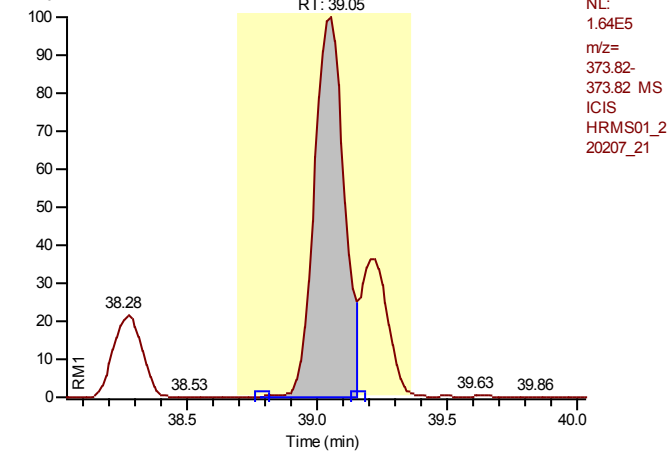
Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



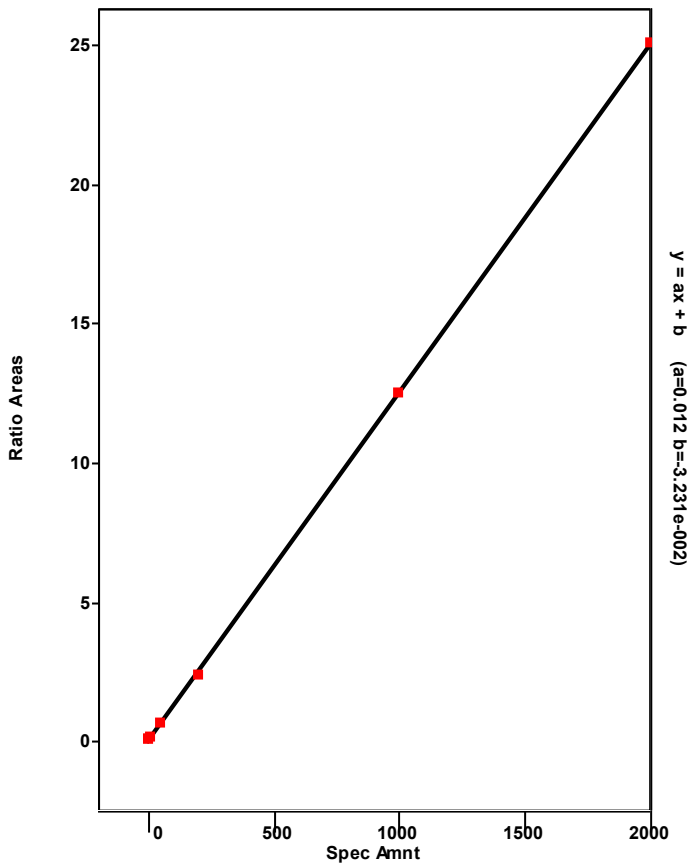
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	1013657
RM1 Area	1277319
RM1 Ratio (A)	1.2601
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	69.43
Percent Recovery (A)	---
TEQ (A)	6.9427
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

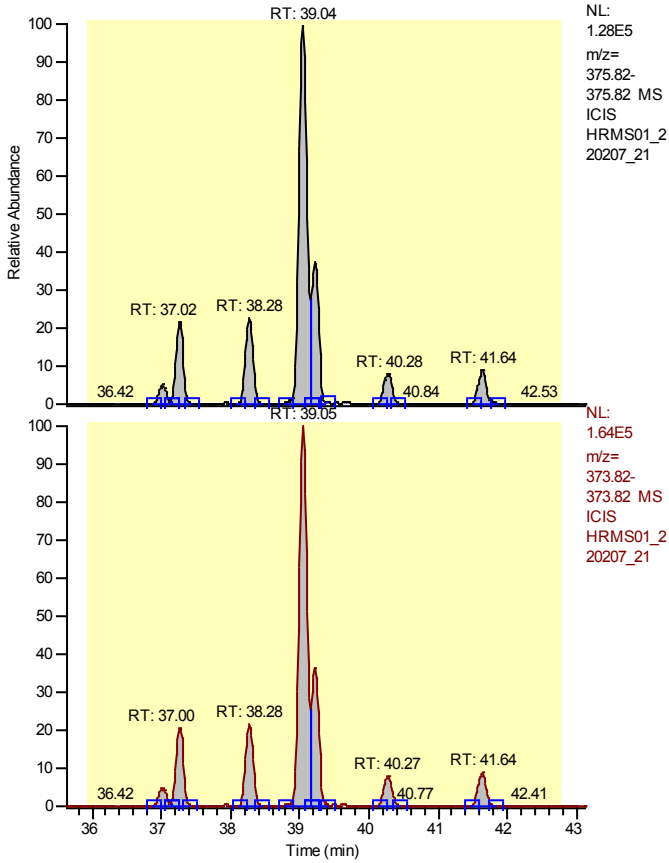
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.62 - 43.14 SM: 7G

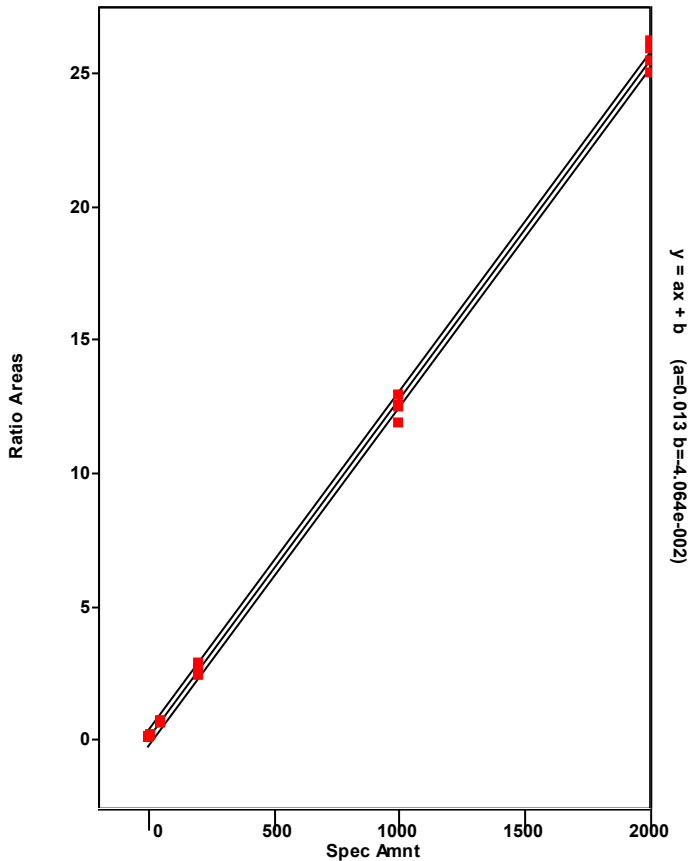


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	2023936
RM1 Area	2532397
RM1 Ratio (A)	1.2512
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	135.69
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

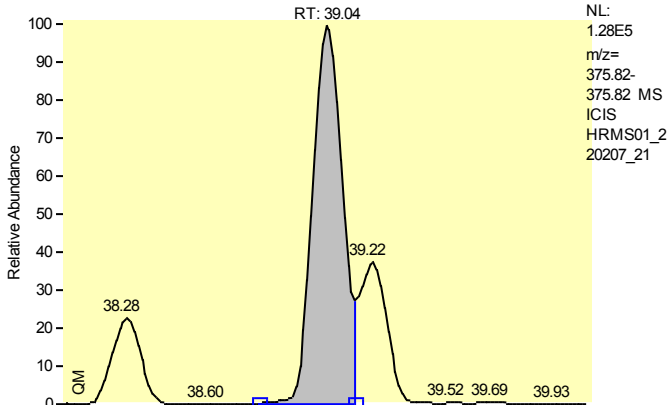
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



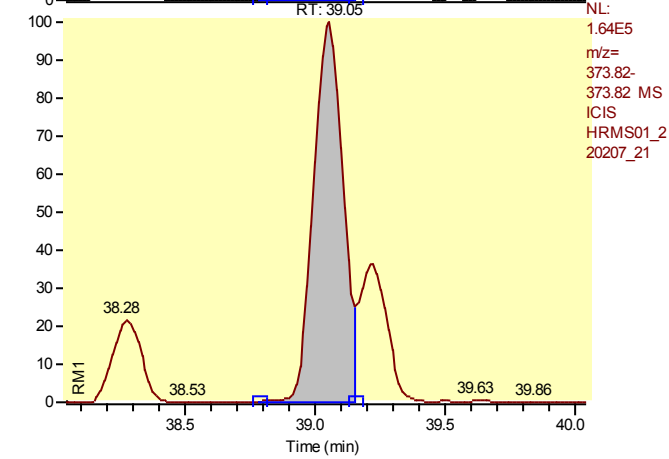
Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



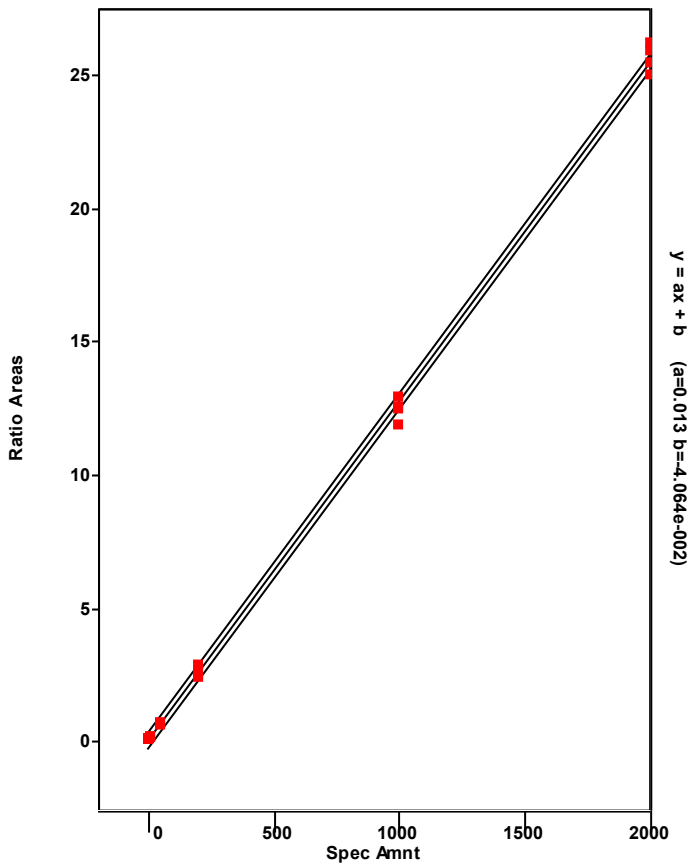
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1013657
RM1 Area	1277319
RM1 Ratio (A)	1.2601
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	68.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

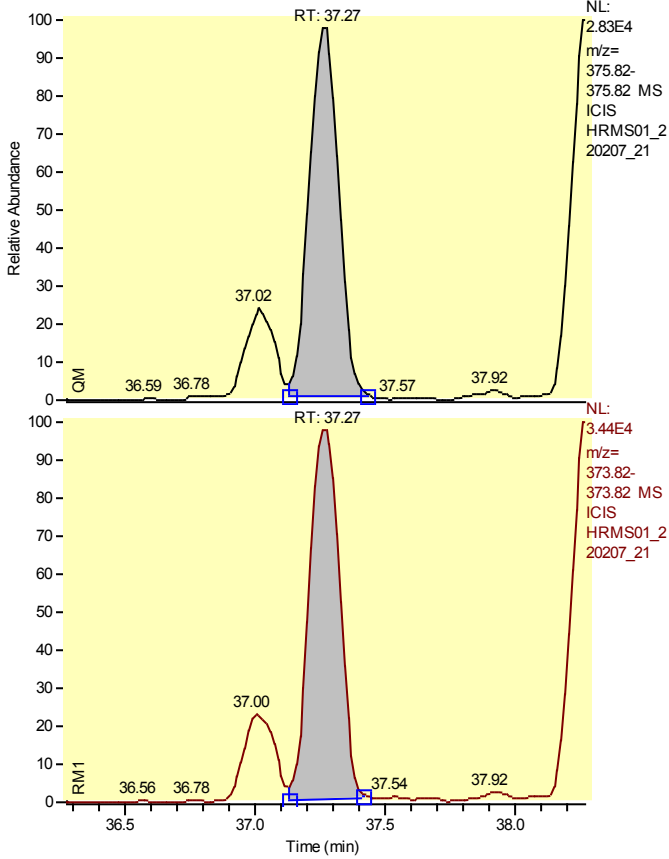
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 36.27 - 38.27 SM: 7G

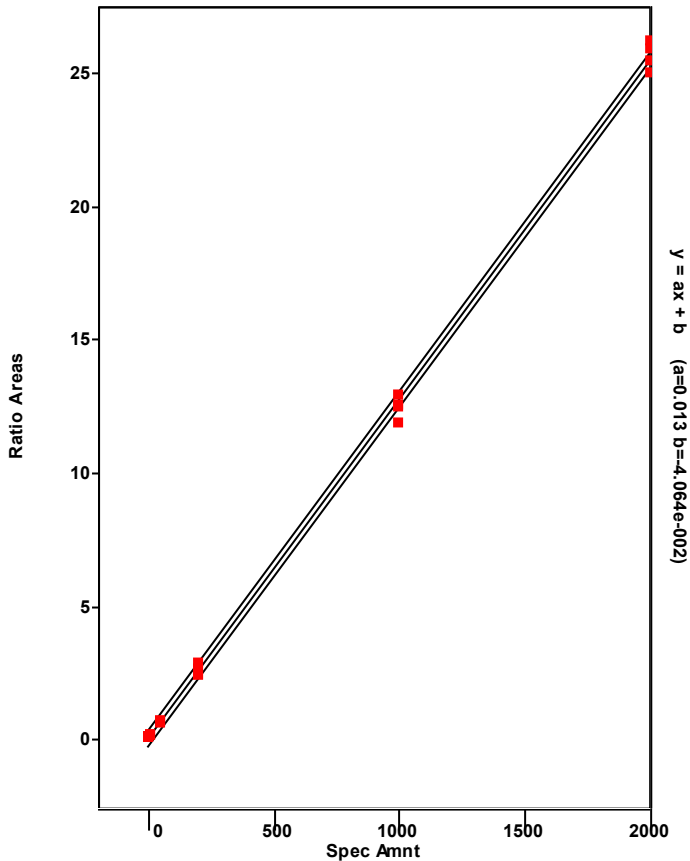


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	214201
RM1 Area	266602
RM1 Ratio (A)	1.2446
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	14.32
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

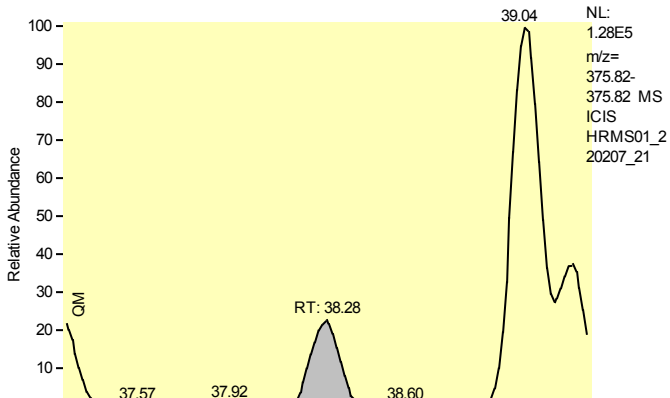
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



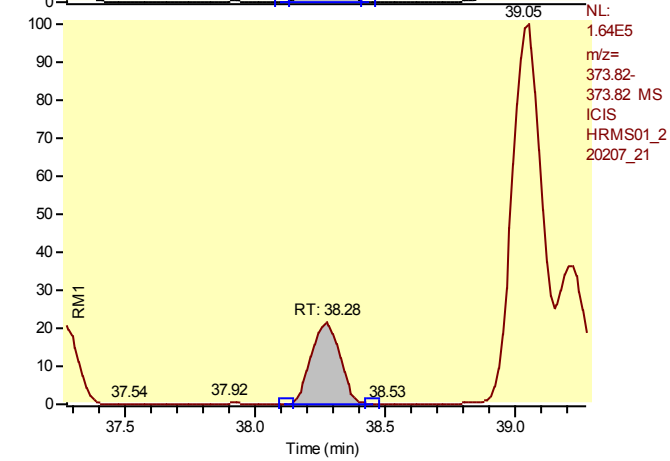
Chromatogram

Entry Parameters

RT: 37.28 - 39.28 SM: 7G



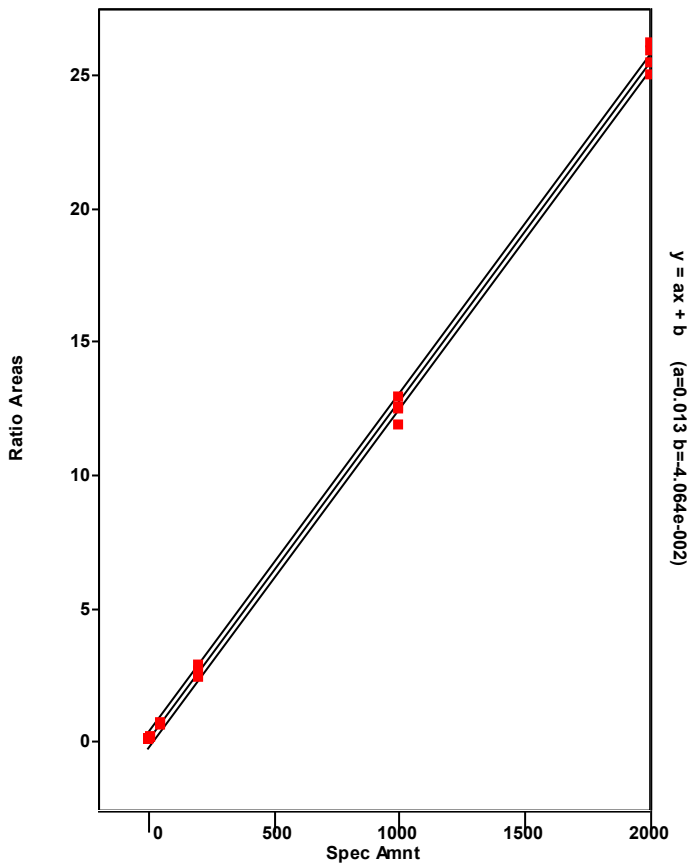
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	221263
RM1 Area	269498
RM1 Ratio (A)	1.2180
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	14.61
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

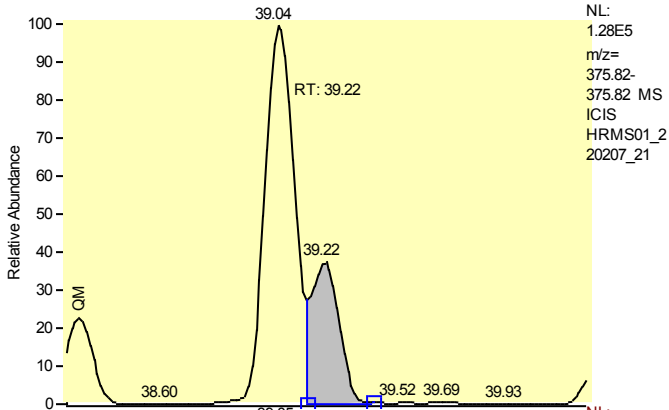
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



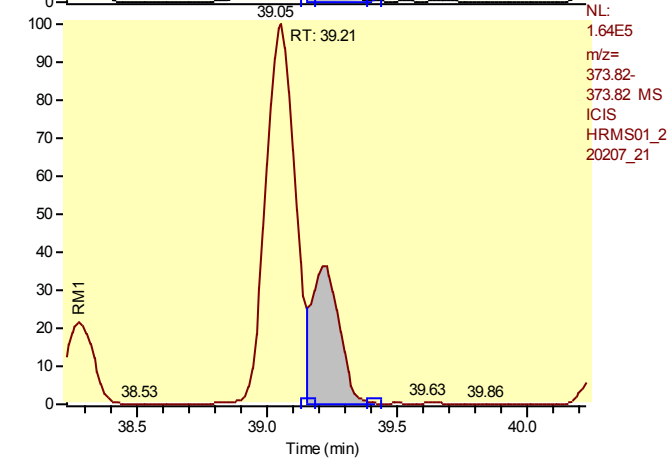
Chromatogram

Entry Parameters

RT: 38.22 - 40.22 SM: 7G



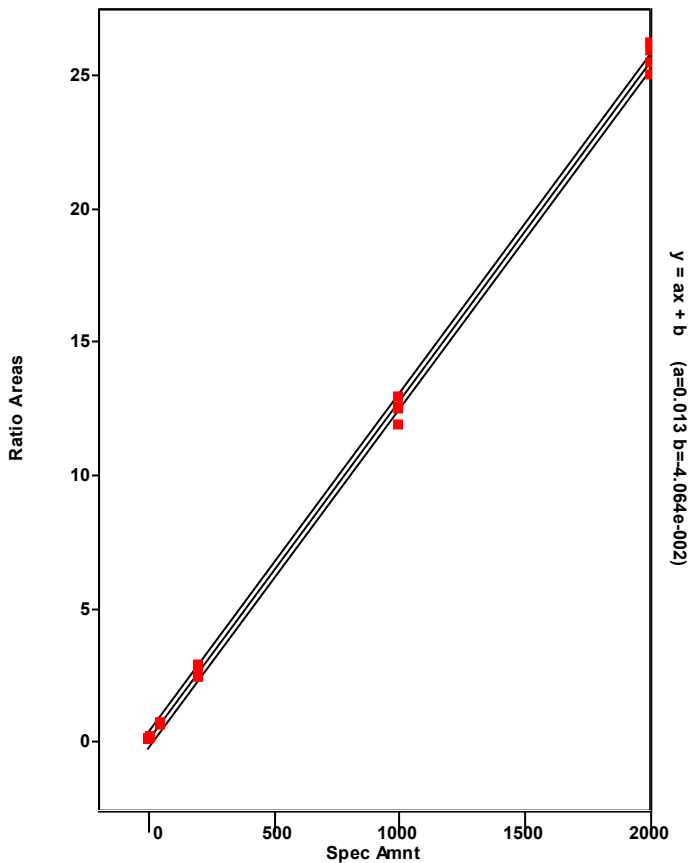
Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	348269
RM1 Area	435277
RM1 Ratio (A)	1.2498
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	23.33
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

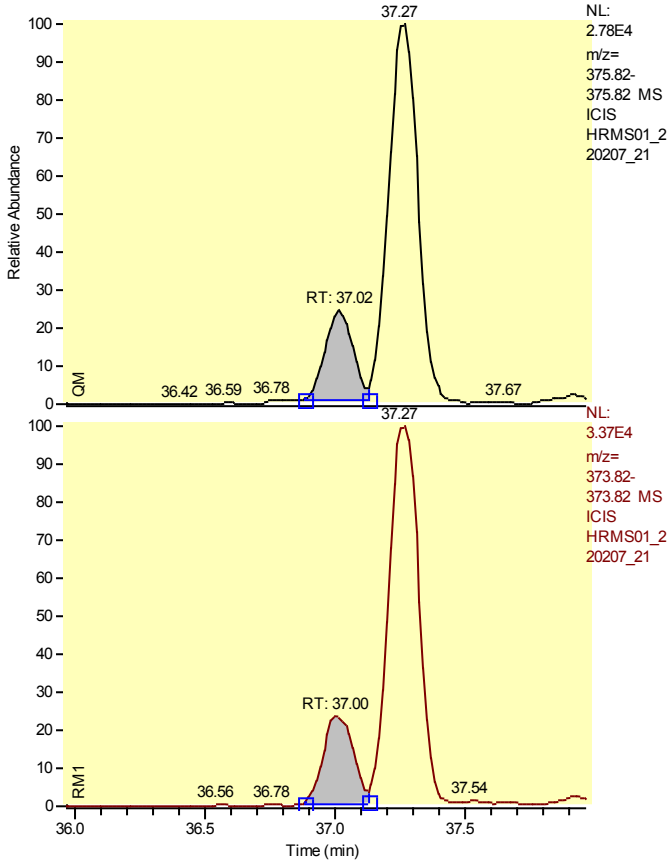
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 35.97 - 37.97 SM: 7G

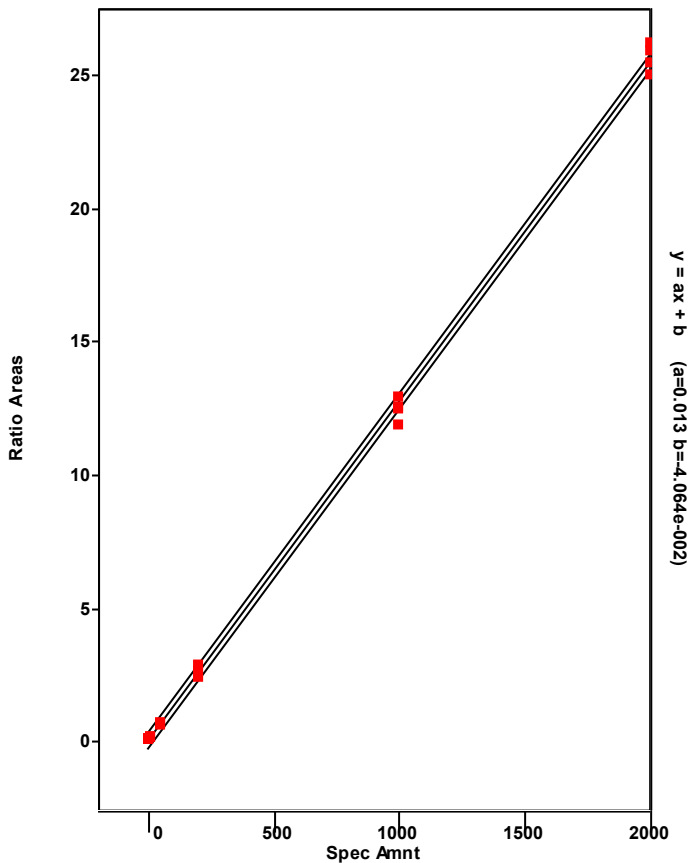


Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	49243
RM1 Area	61920
RM1 Ratio (A)	1.2574
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	3.31
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

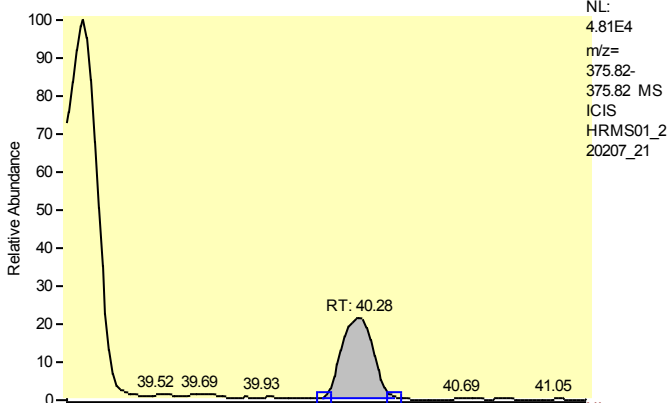
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



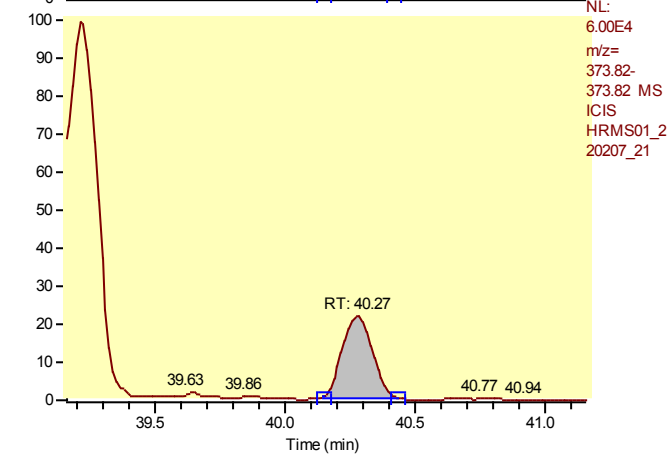
Chromatogram

Entry Parameters

RT: 39.15 - 41.15 SM: 7G



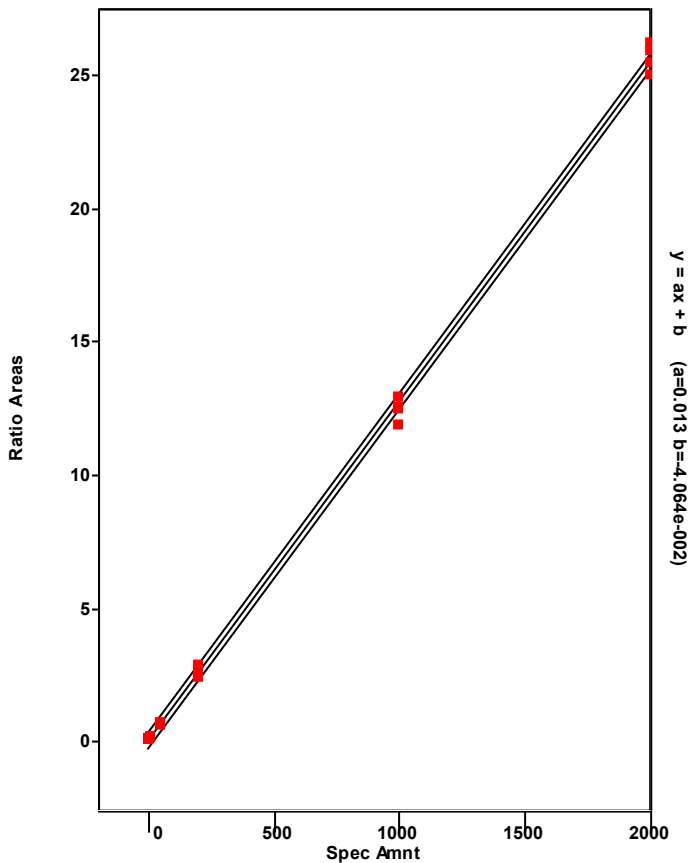
Entry Identifier	Total Hexachlorodibenzofuran__6
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	85583
RM1 Area	105684
RM1 Ratio (A)	1.2349
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__6 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__6

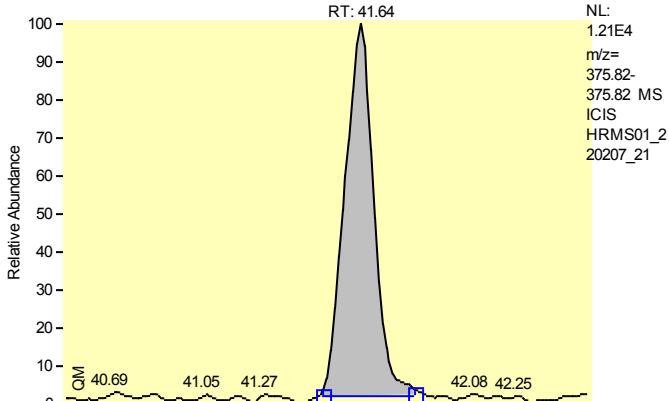
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



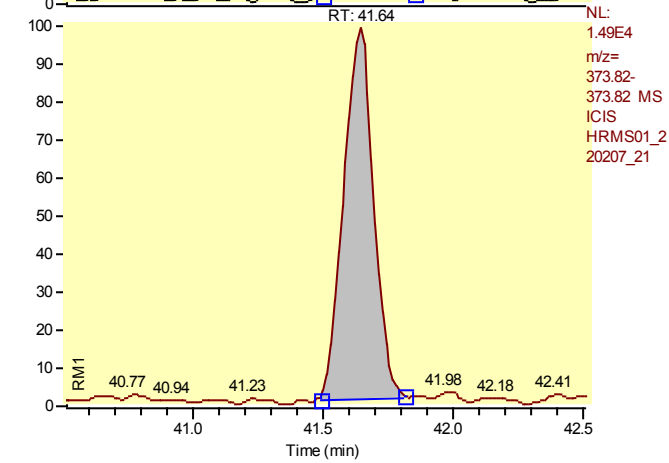
Chromatogram

Entry Parameters

RT: 40.51 - 42.51 SM: 7G



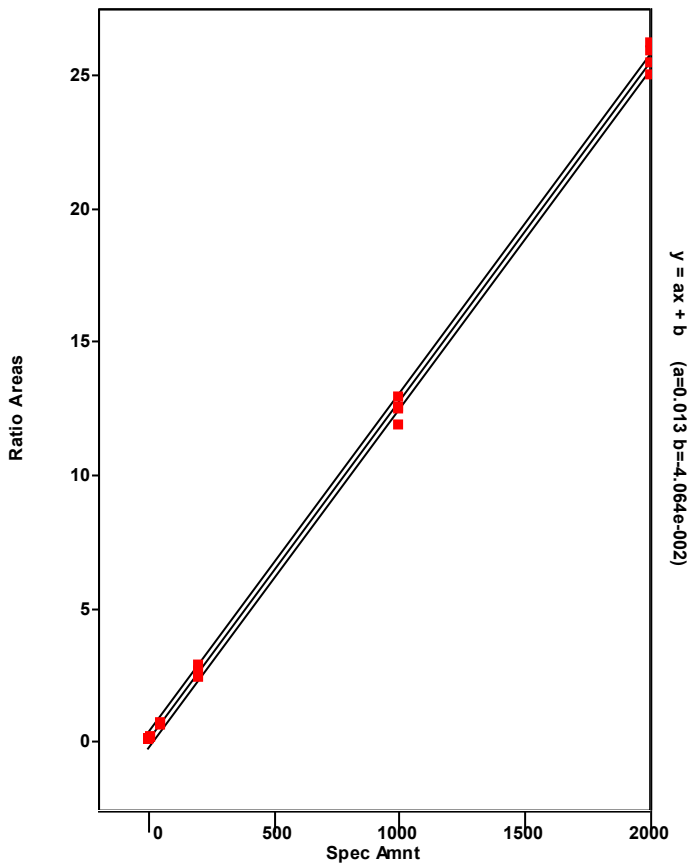
Entry Identifier	Total Hexachlorodibenzofuran__7
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	91721
RM1 Area	116097
RM1 Ratio (A)	1.2658
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__7 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__7

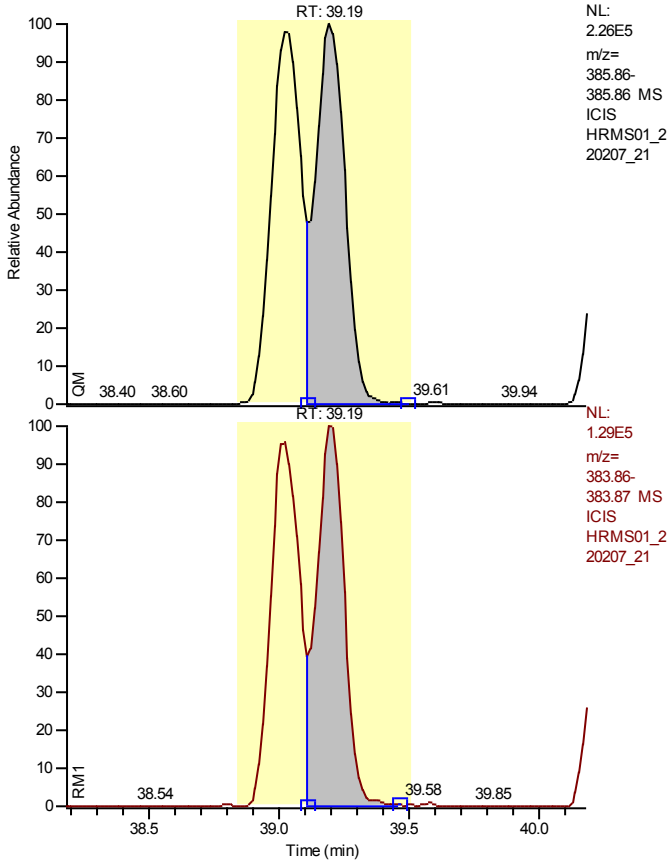
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.18 - 40.18 SM: 7G



NL:
 2.26E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_21

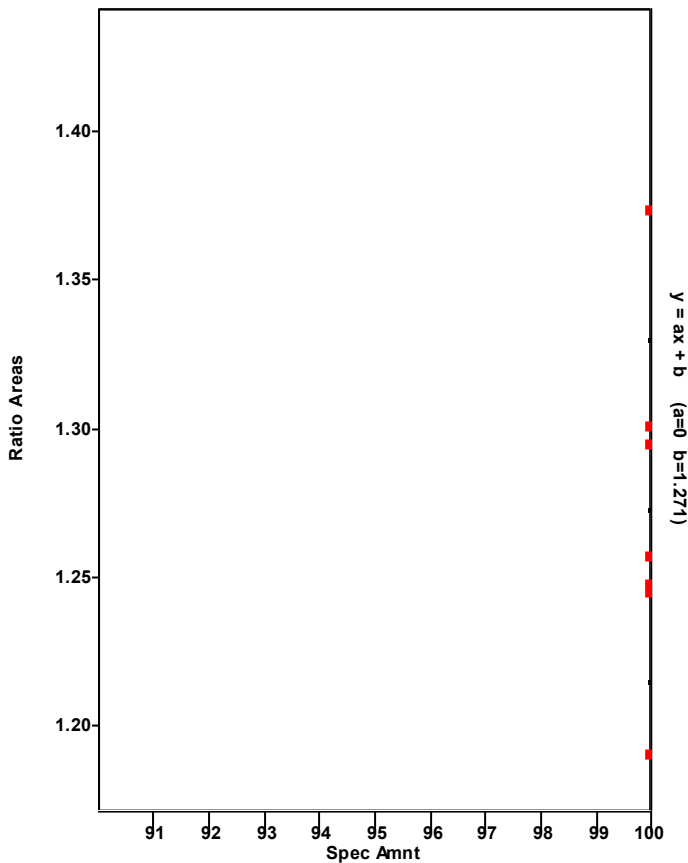
NL:
 1.29E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1791164
RM1 Area	950605
RM1 Ratio (A)	0.5307
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	71.03
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

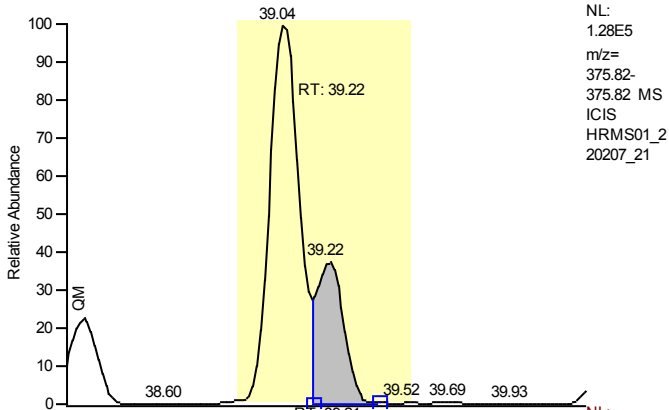
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



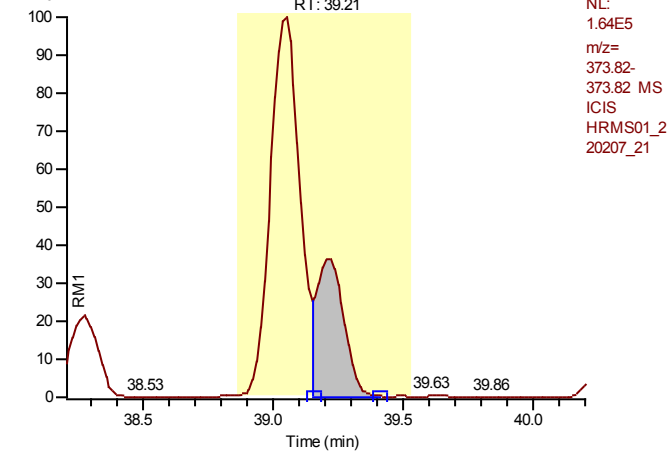
Chromatogram

Entry Parameters

RT: 38.21 - 40.21 SM: 7G



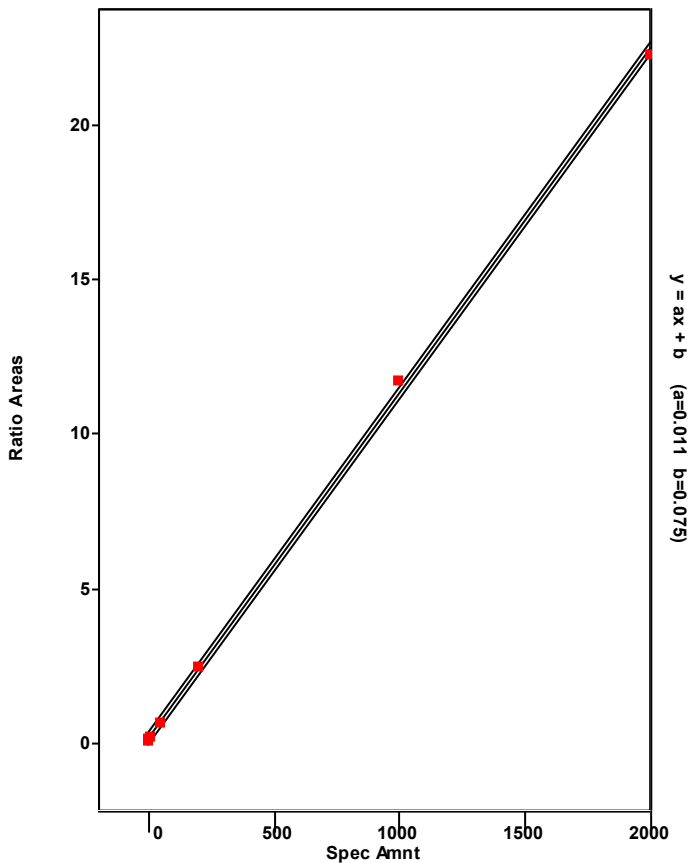
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	348269
RM1 Area	435277
RM1 Ratio (A)	1.2498
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	24.07
Percent Recovery (A)	---
TEQ (A)	2.4069
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

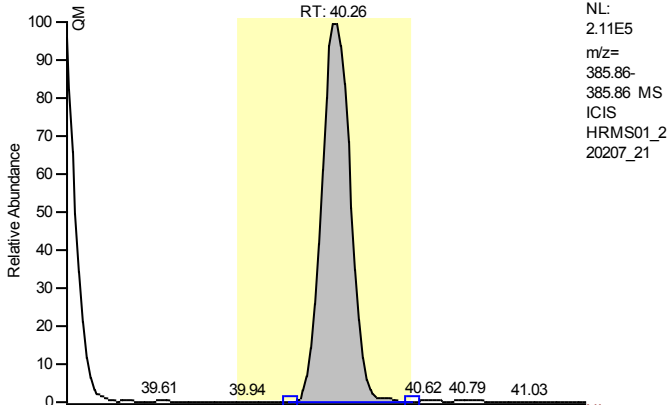
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

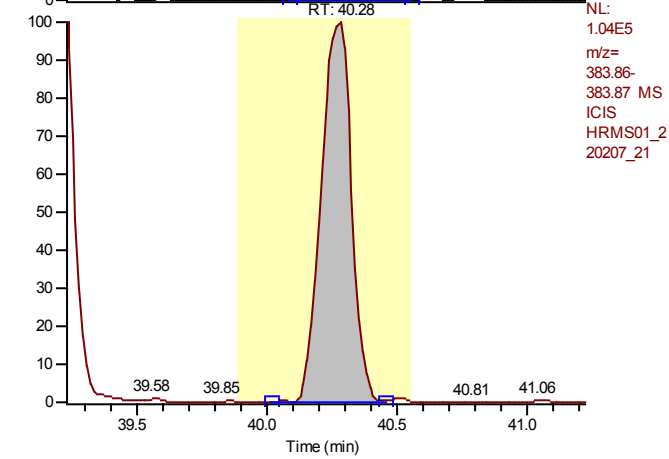
Entry Parameters

RT: 39.23 - 41.23 SM: 7G



NL:
 2.11E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1634998
RM1 Area	848168
RM1 Ratio (A)	0.5188
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	66.56
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	

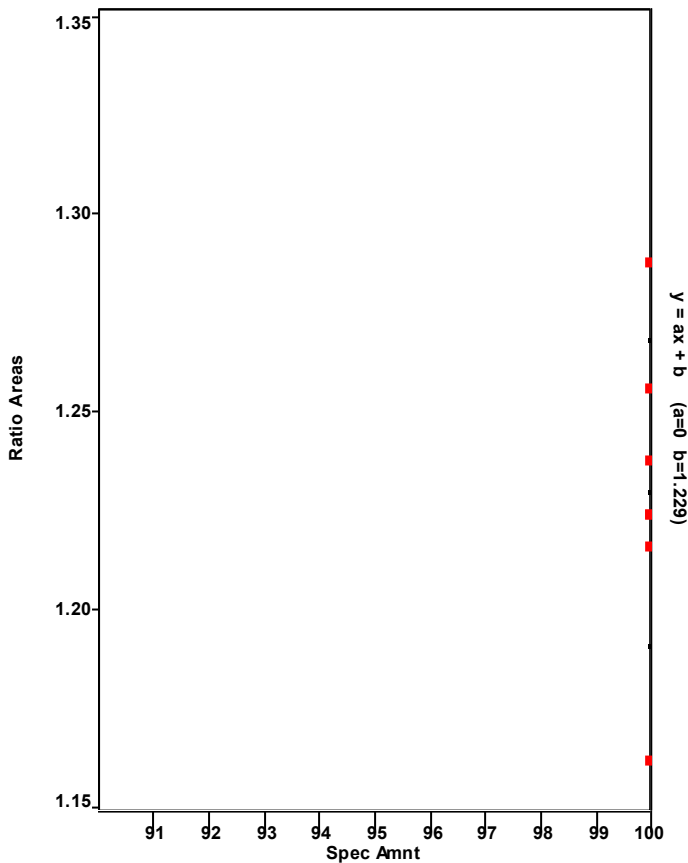


NL:
 1.04E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

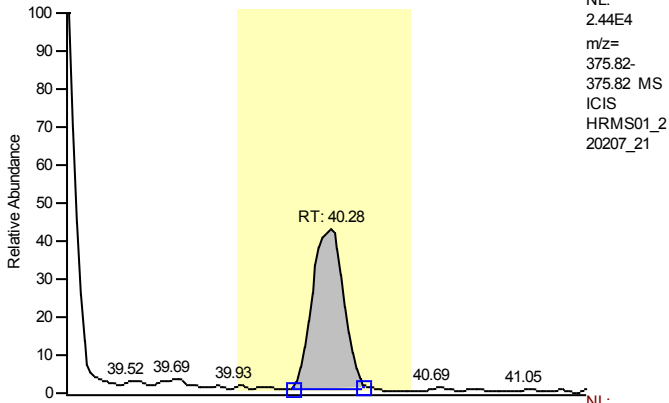
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



Chromatogram

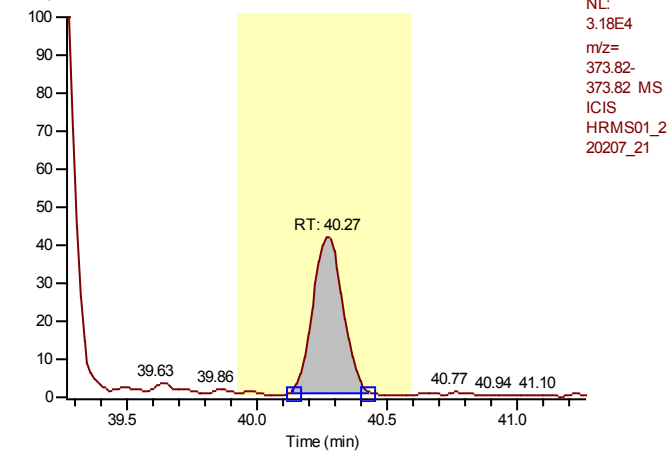
Entry Parameters

RT: 39.27 - 41.27 SM: 7G



NL:
 2.44E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	85583
RM1 Area	105684
RM1 Ratio (A)	1.2349
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.24
Percent Recovery (A)	---
TEQ (A)	0.6236
Label2	

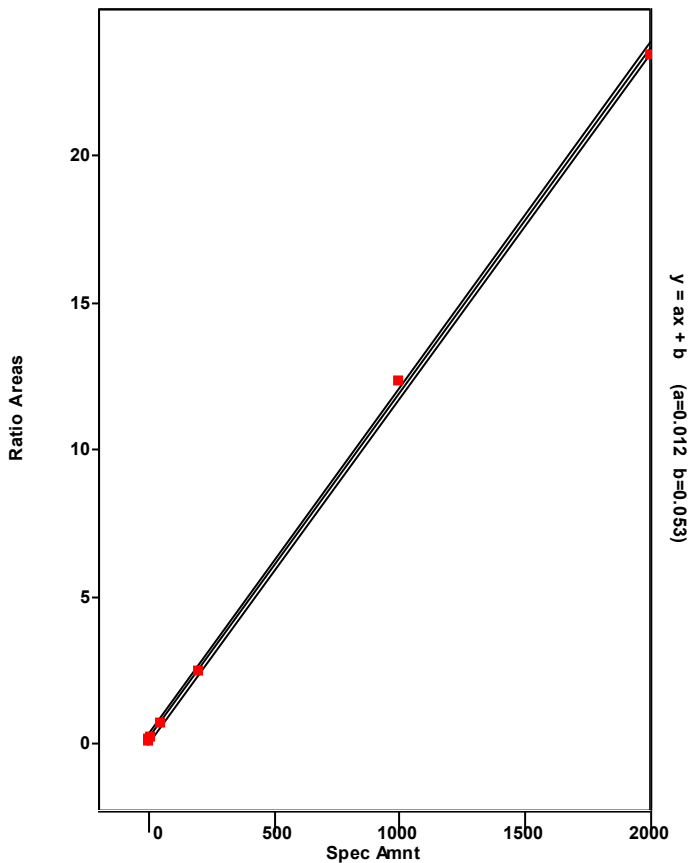


NL:
 3.18E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

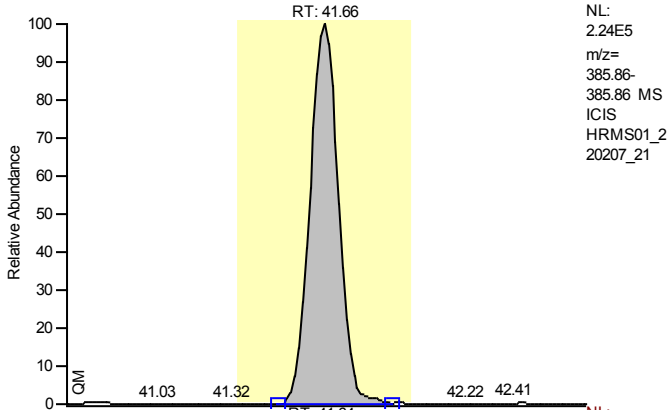
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



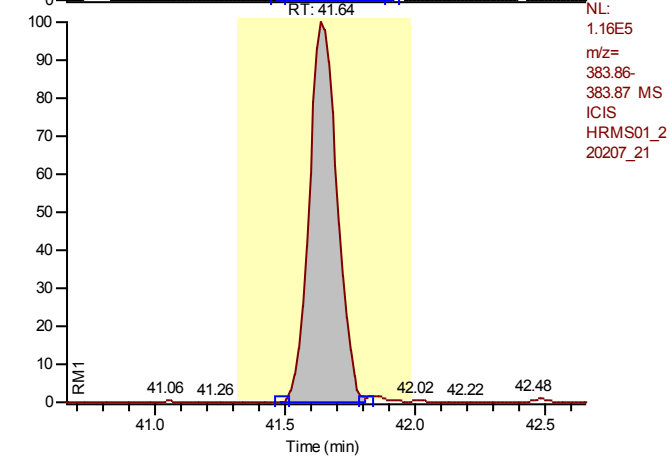
Chromatogram

Entry Parameters

RT: 40.66 - 42.66 SM: 7G



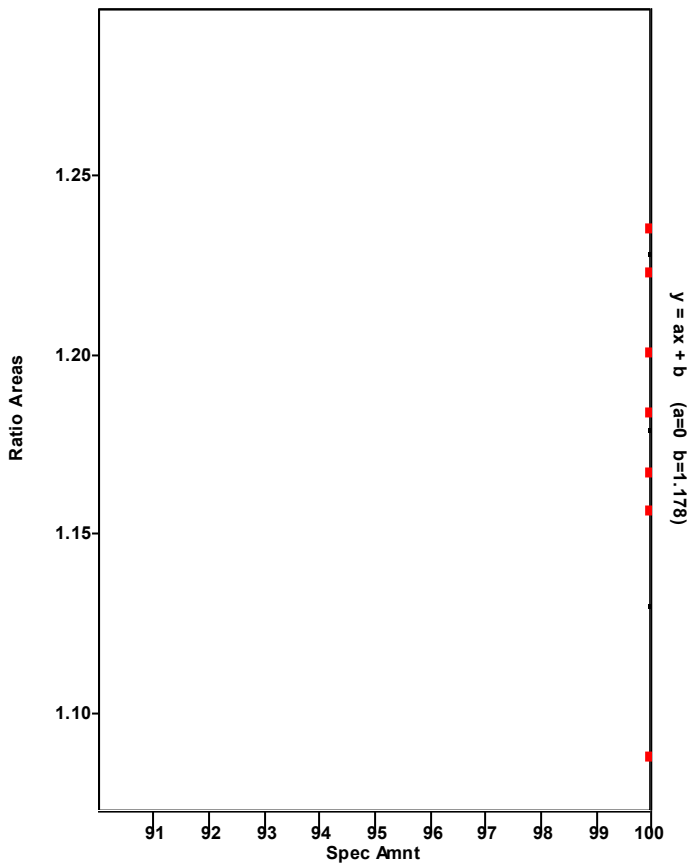
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1726528
RM1 Area	865324
RM1 Ratio (A)	0.5012
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	72.46
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

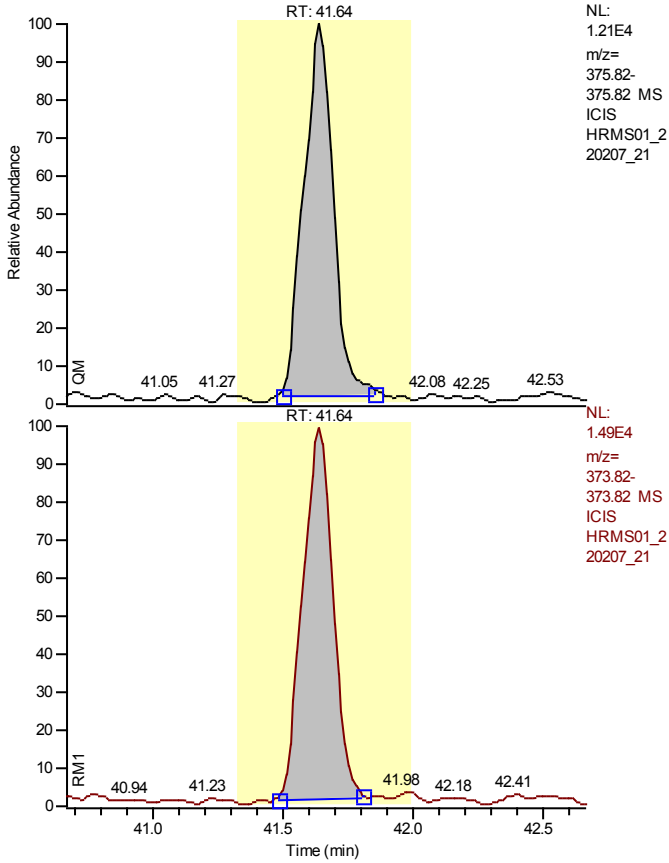
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.67 - 42.67 SM: 7G



NL:
 1.21E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_21

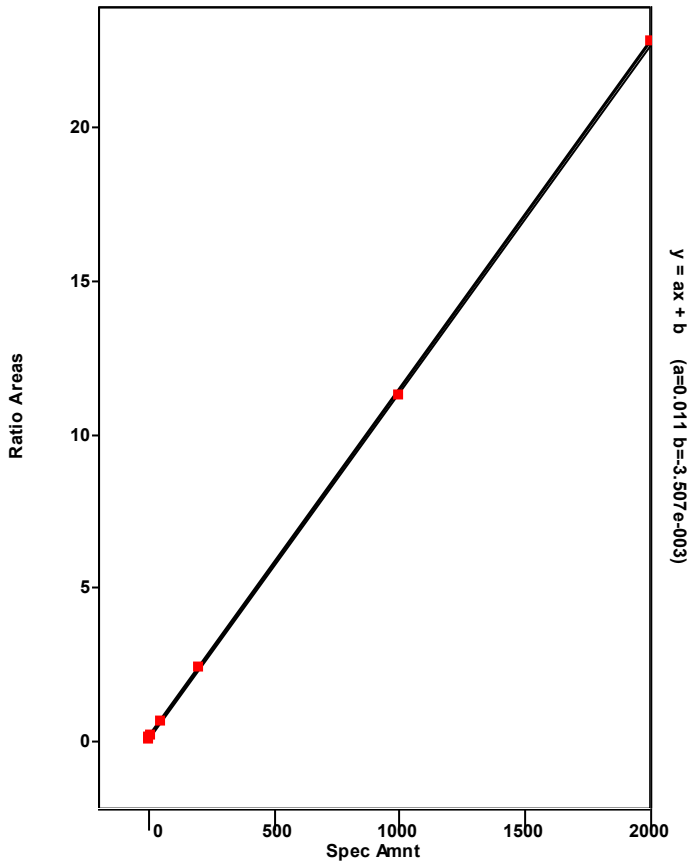
NL:
 1.49E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	91721
RM1 Area	116097
RM1 Ratio (A)	1.2658
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.86
Percent Recovery (A)	---
TEQ (A)	0.6858
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

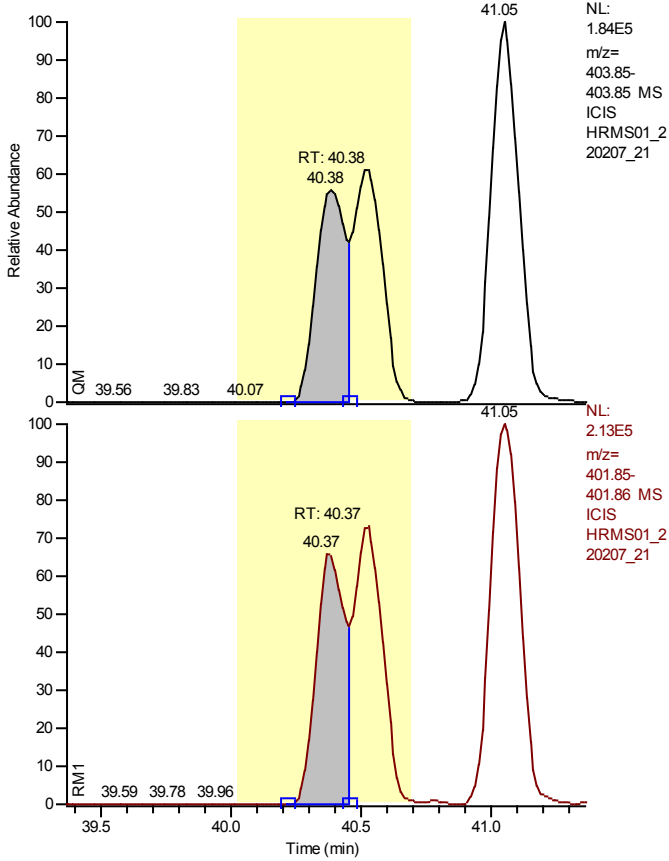
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

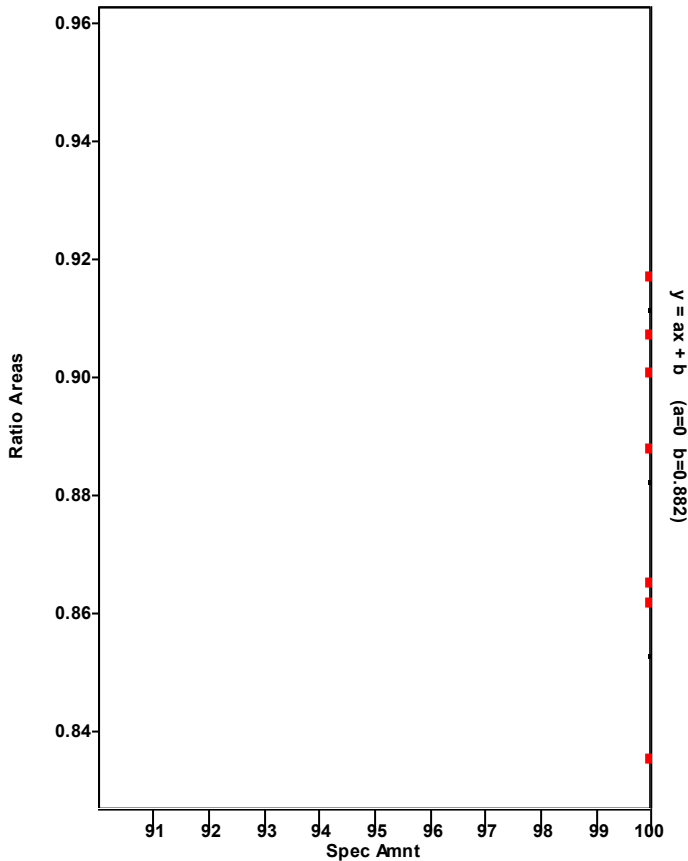
RT: 39.36 - 41.36 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	811996
RM1 Area	1064896
RM1 Ratio (A)	1.3115
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	70.12
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

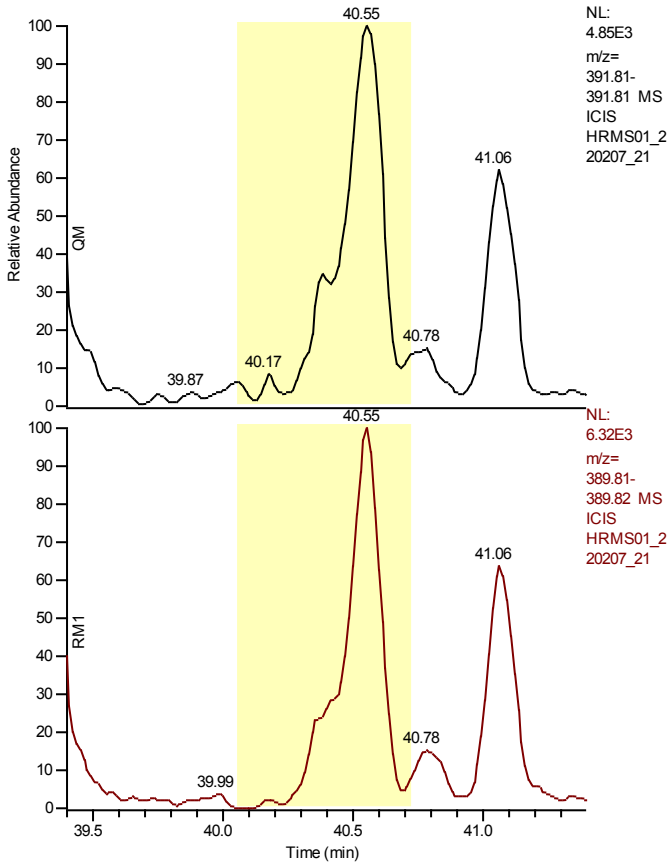
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.39 - 41.39 SM: 7G

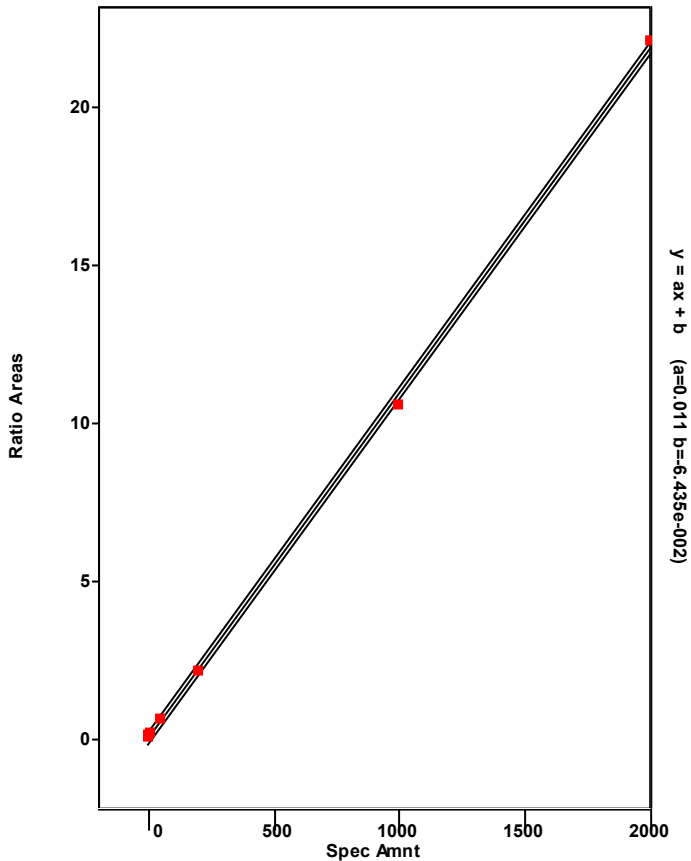


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

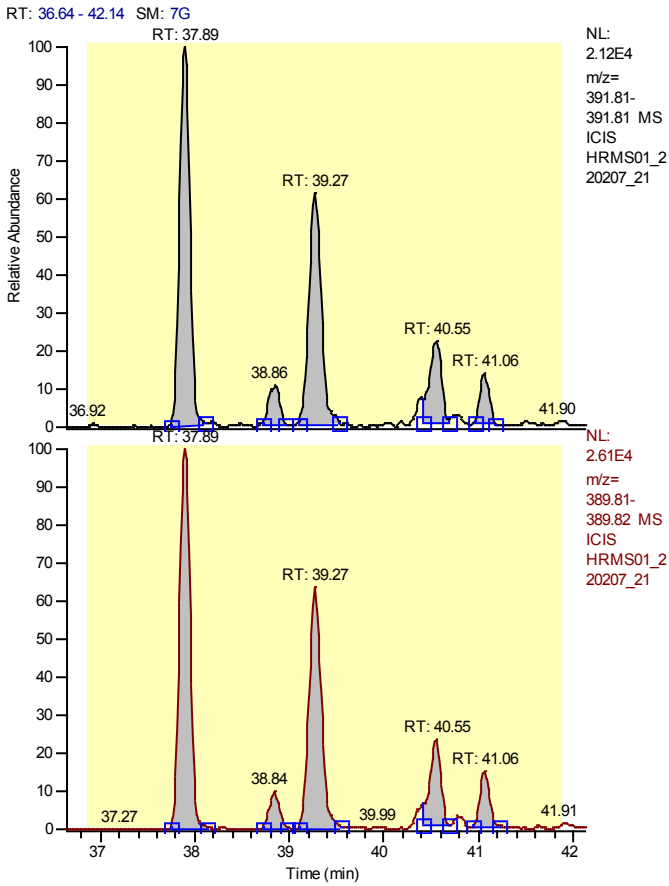
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

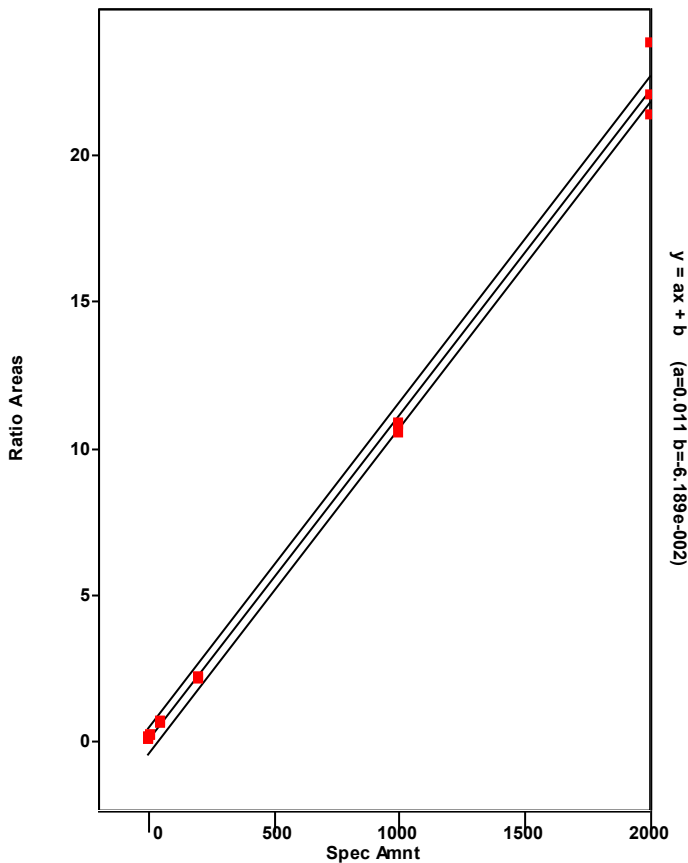


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	356208
RM1 Area	447770
RM1 Ratio (A)	1.2570
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	38.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

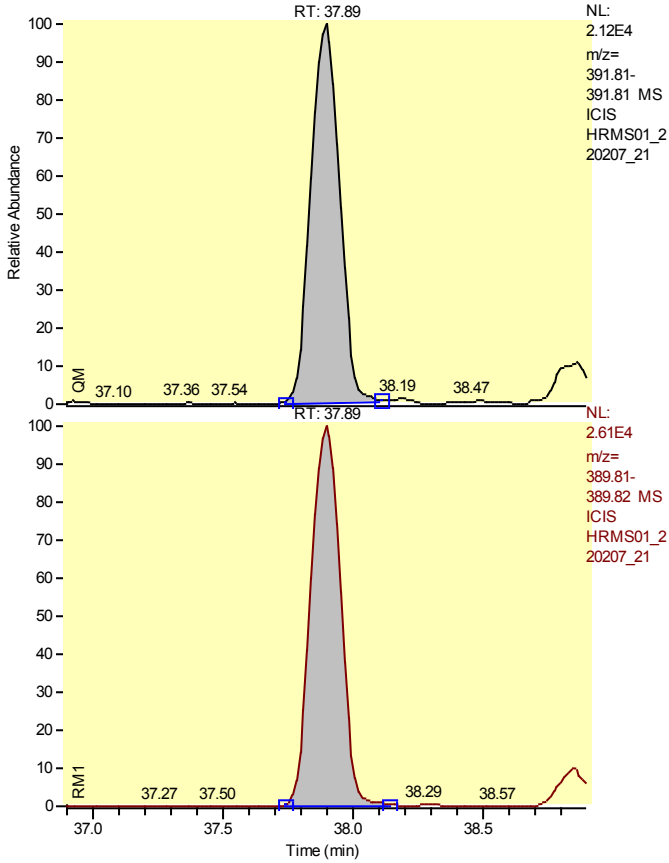
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 36.89 - 38.89 SM: 7G

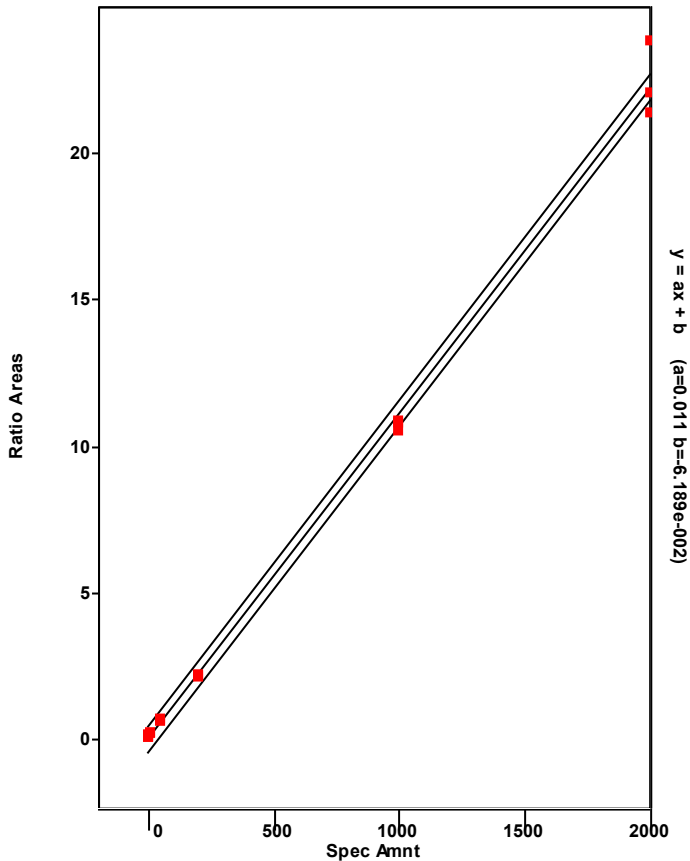


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	160390
RM1 Area	204496
RM1 Ratio (A)	1.2750
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	17.44
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

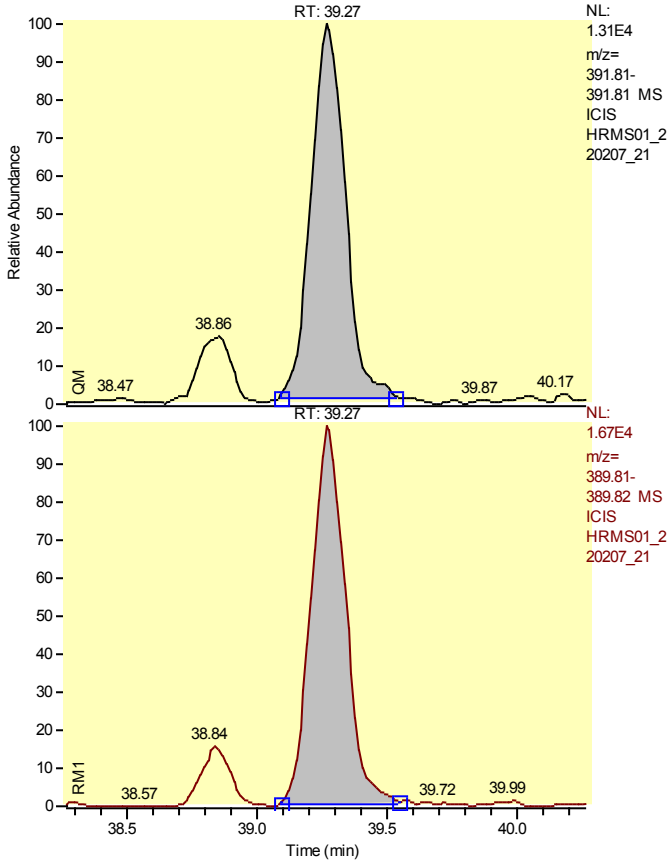
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 38.27 - 40.27 SM: 7G

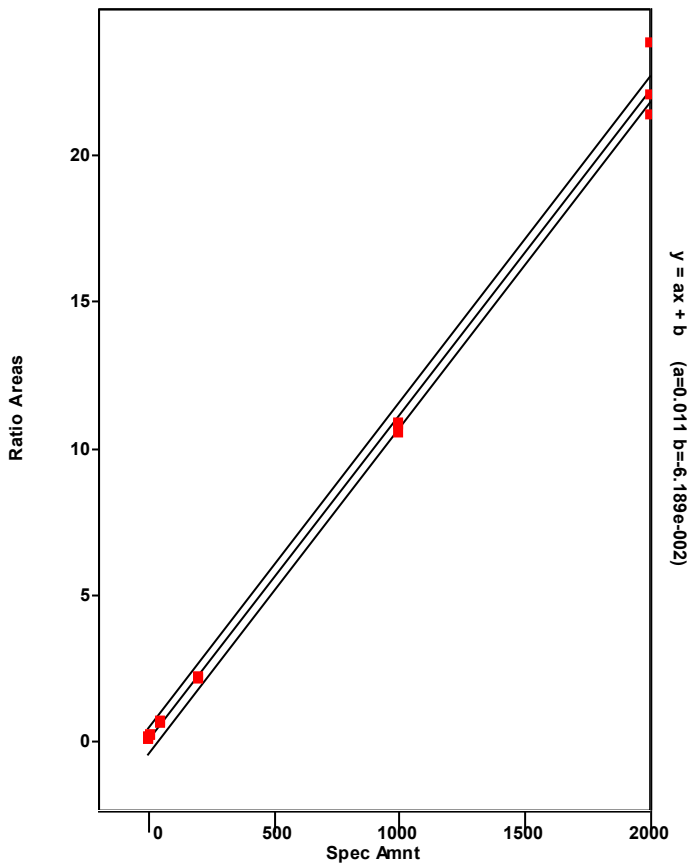


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	117188
RM1 Area	149453
RM1 Ratio (A)	1.2753
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	12.74
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

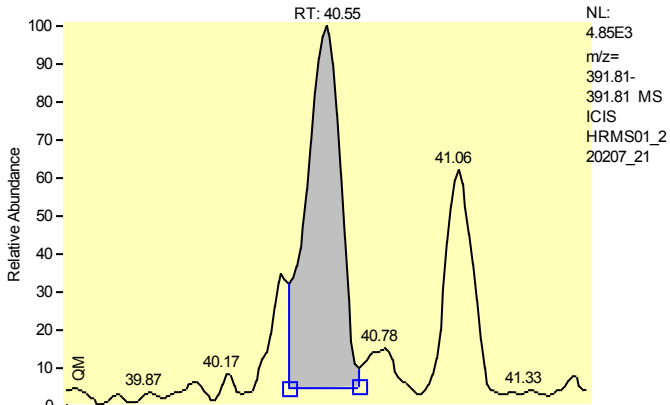
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



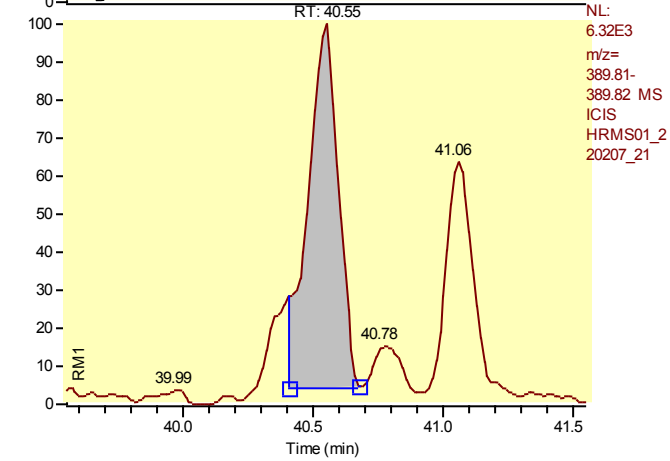
Chromatogram

Entry Parameters

RT: 39.55 - 41.55 SM: 7G



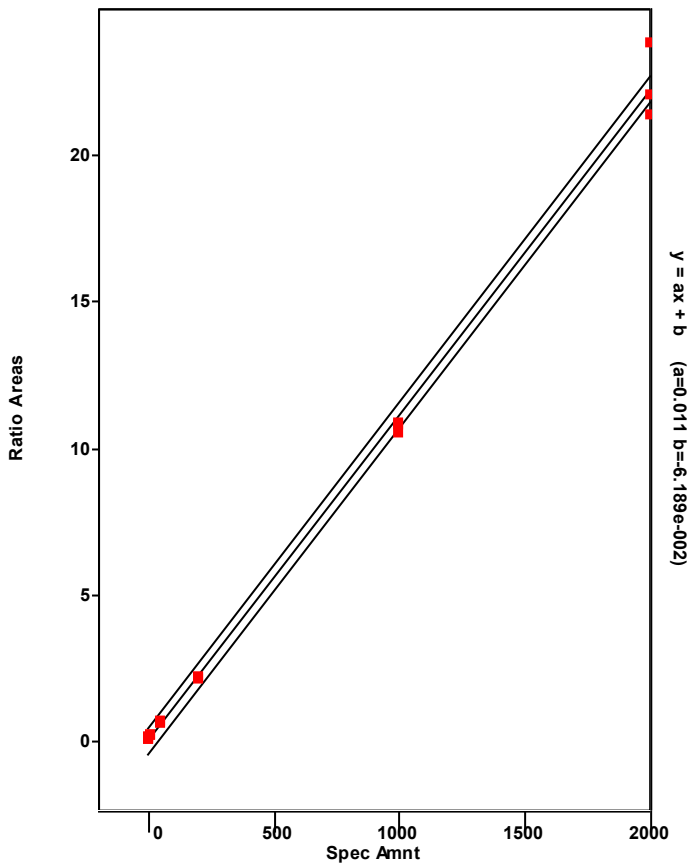
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	41646
RM1 Area	48521
RM1 Ratio (A)	1.1651
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.31
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

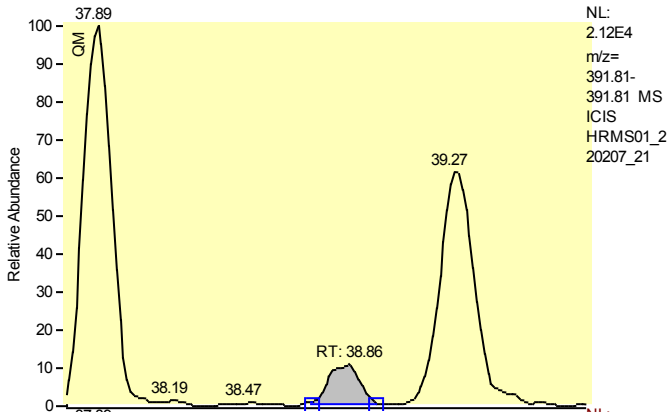
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



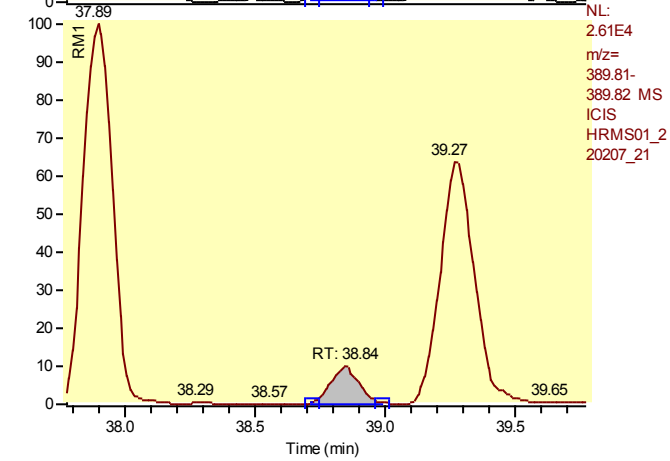
Chromatogram

Entry Parameters

RT: 37.77 - 39.77 SM: 7G



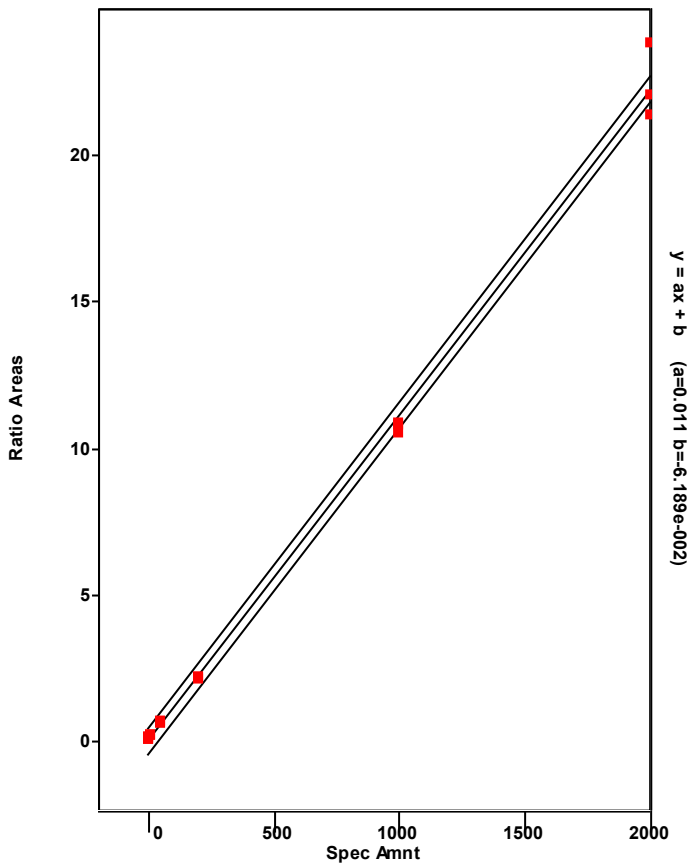
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	17709
RM1 Area	19007
RM1 Ratio (A)	1.0733
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.75
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

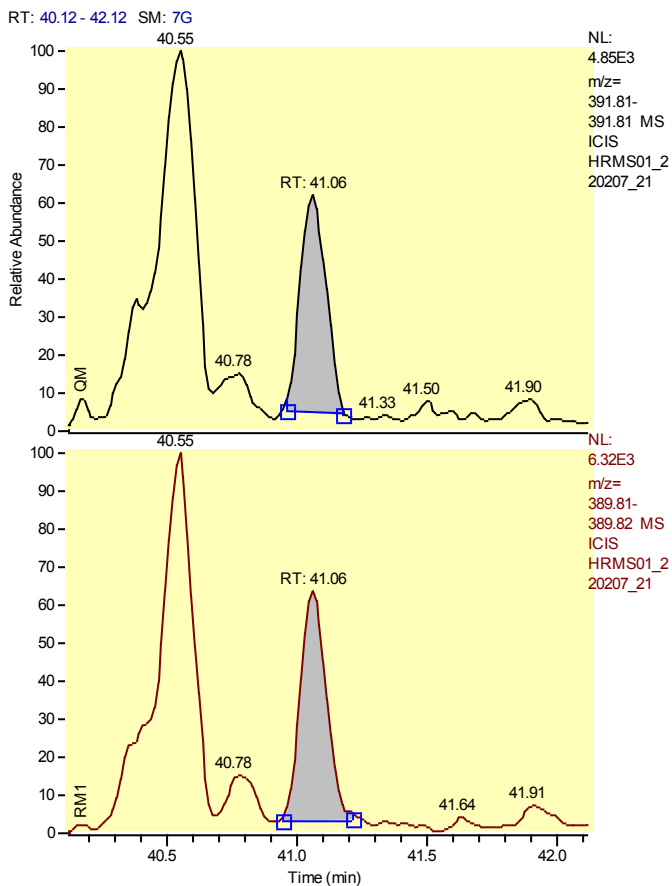
Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

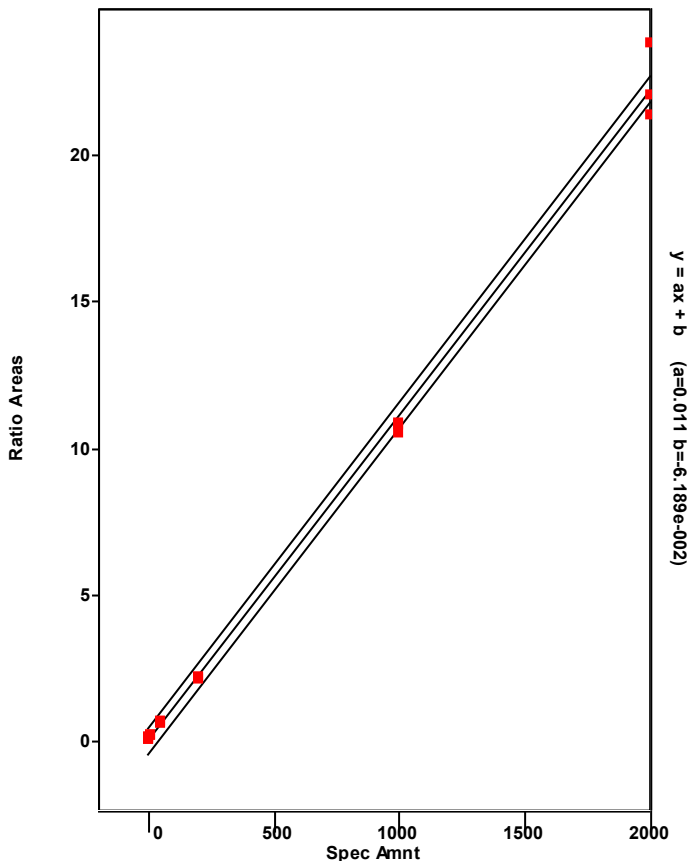


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__5
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	19275
RM1 Area	26293
RM1 Ratio (A)	1.3641
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.18
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__5

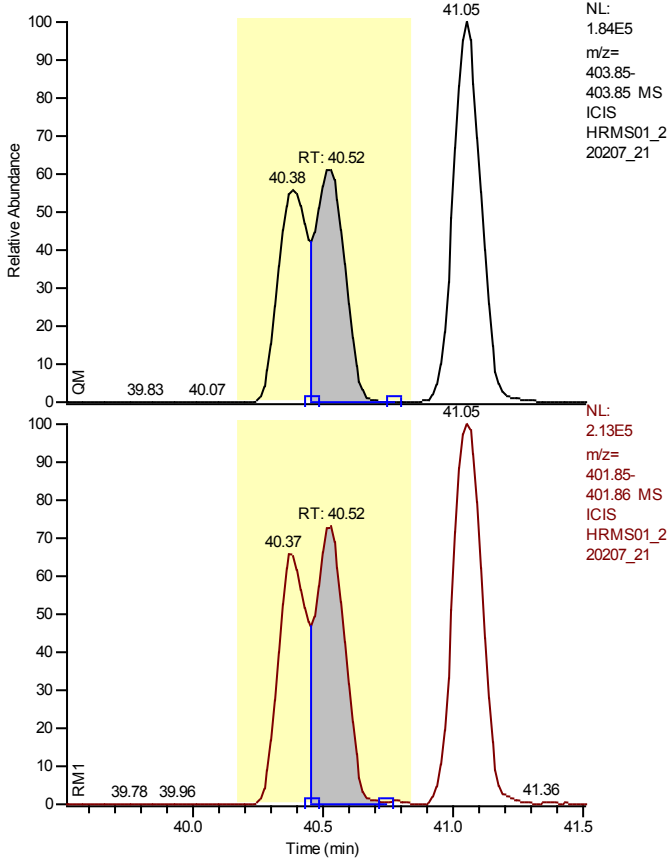
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

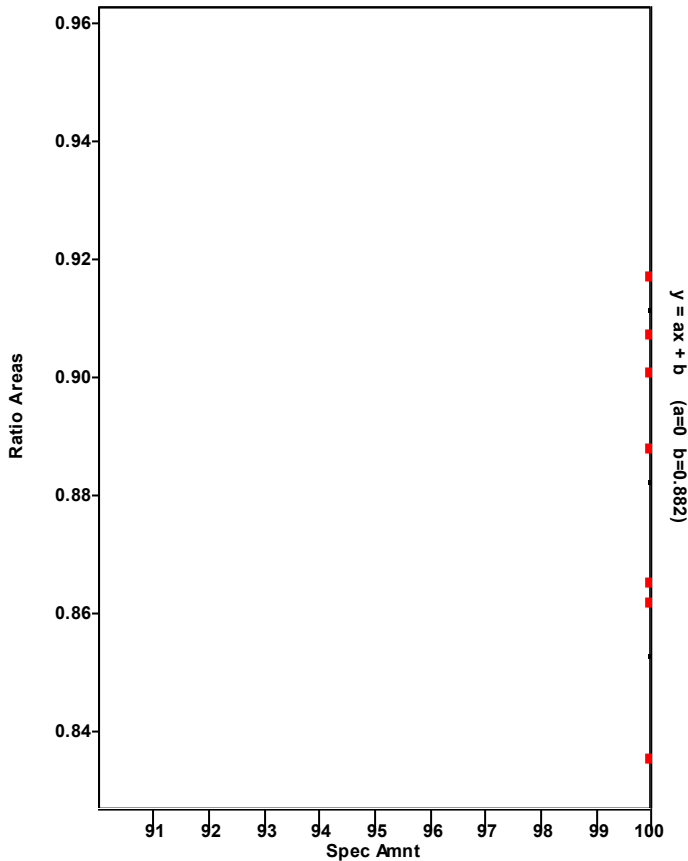
RT: 39.51 - 41.51 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	871165
RM1 Area	1176188
RM1 Ratio (A)	1.3501
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	76.49
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

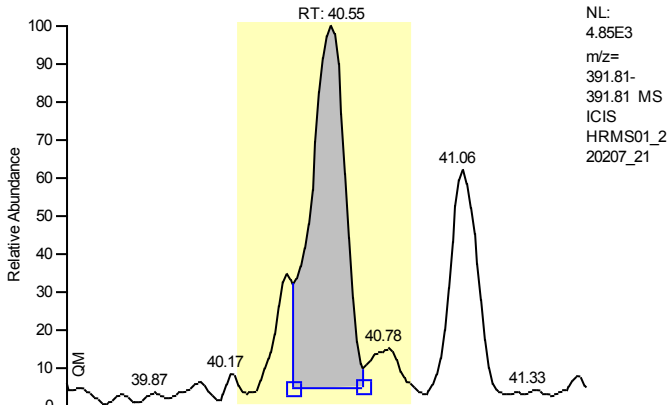
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

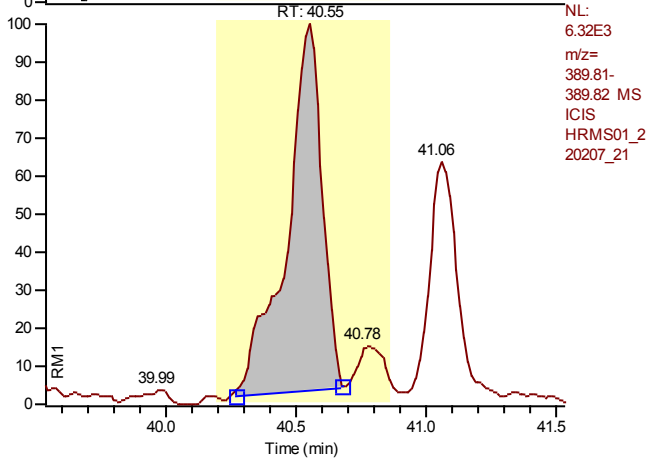
Entry Parameters

RT: 39.54 - 41.54 SM: 7G



NL:
 4.85E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	41646
RM1 Area	56750
RM1 Ratio (A)	1.3627
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.39
Percent Recovery (A)	---
TEQ (A)	0.4386
Label2	

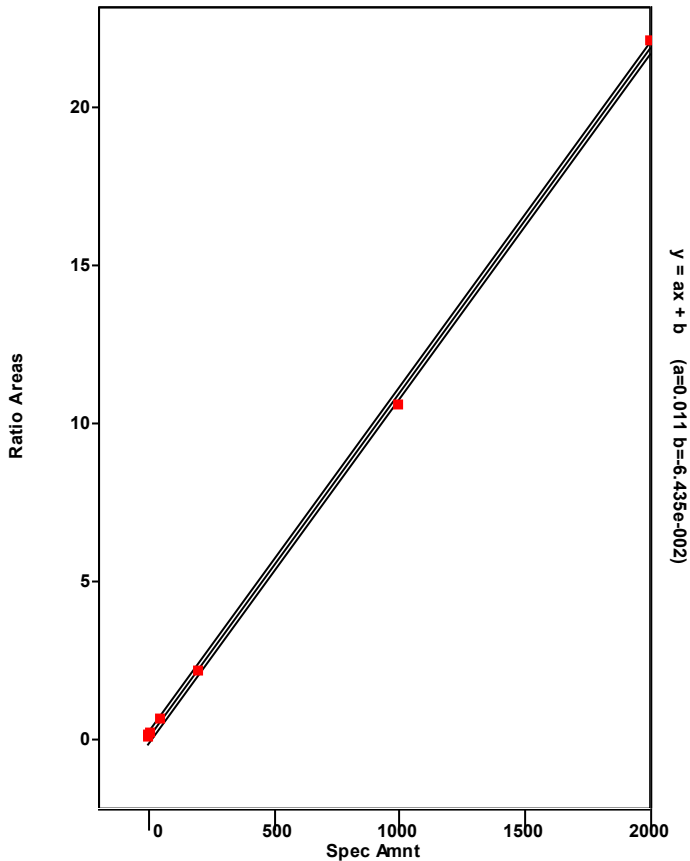


NL:
 6.32E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_21

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

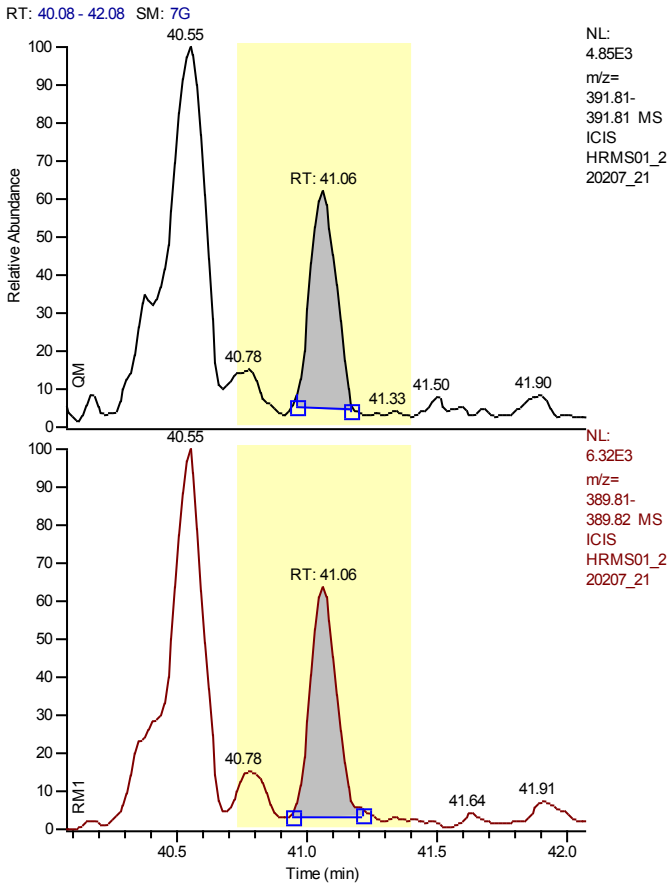
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

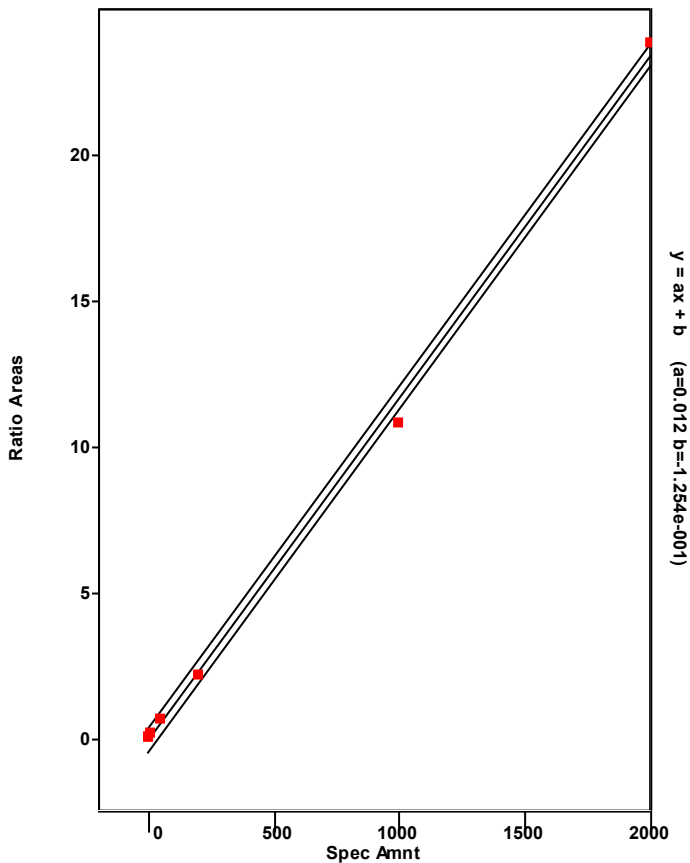


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	19275
RM1 Area	26293
RM1 Ratio (A)	1.3641
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.93
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

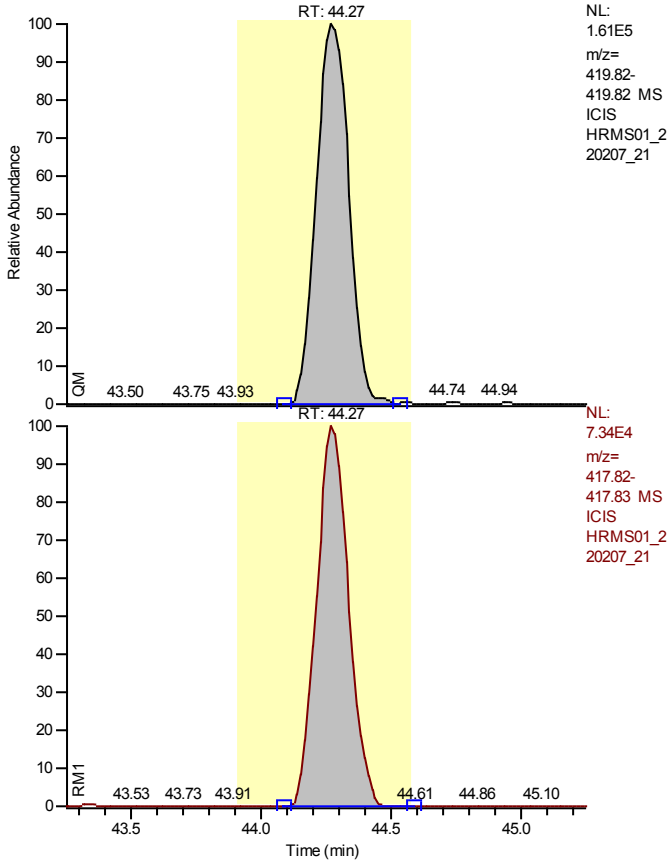
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

Entry Parameters

RT: 43.25 - 45.25 SM: 7G



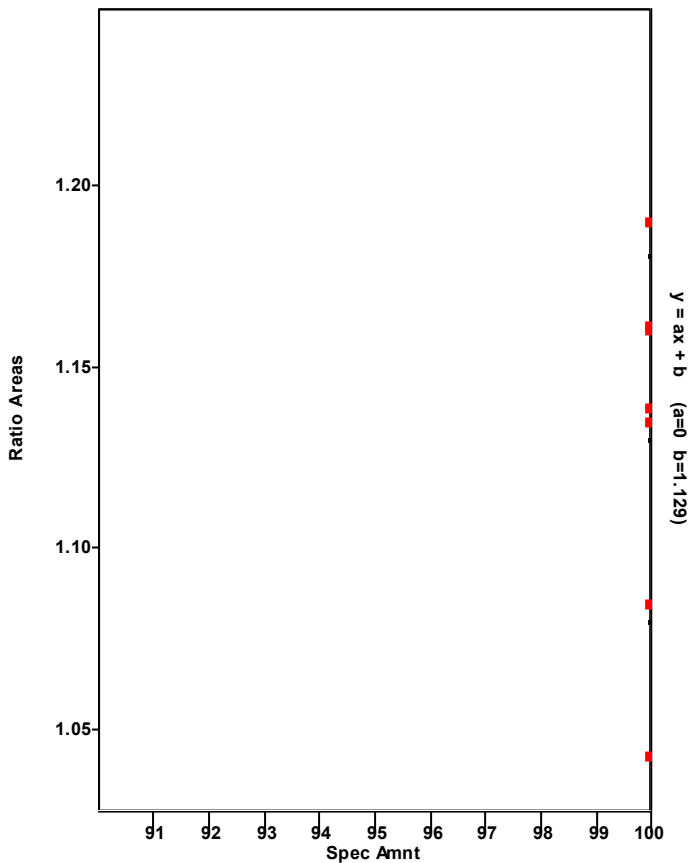
NL:
 1.61E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_21

NL:
 7.34E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1419757
RM1 Area	631788
RM1 Ratio (A)	0.4450
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	59.84
Percent Recovery (A)	60
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

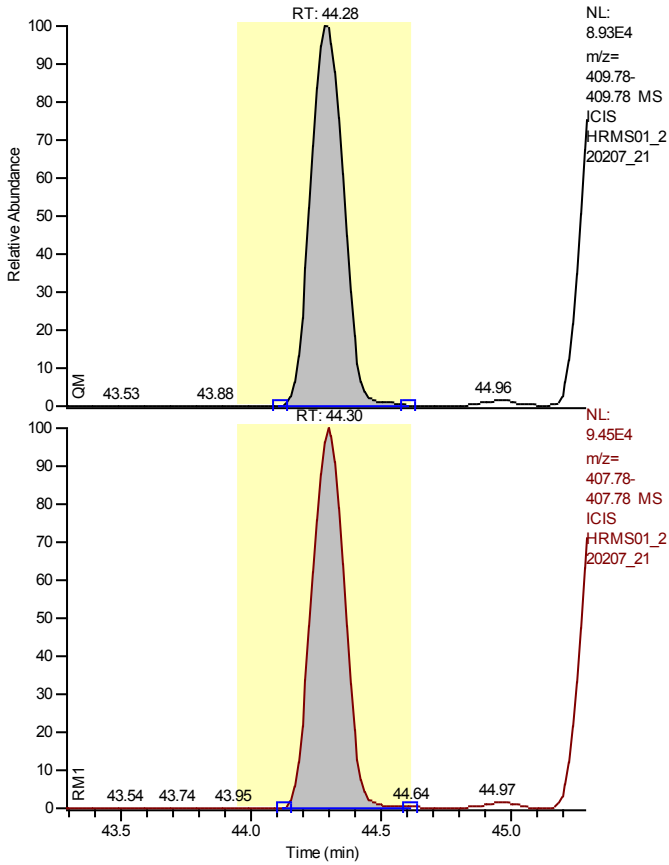
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.29 - 45.29 SM: 7G

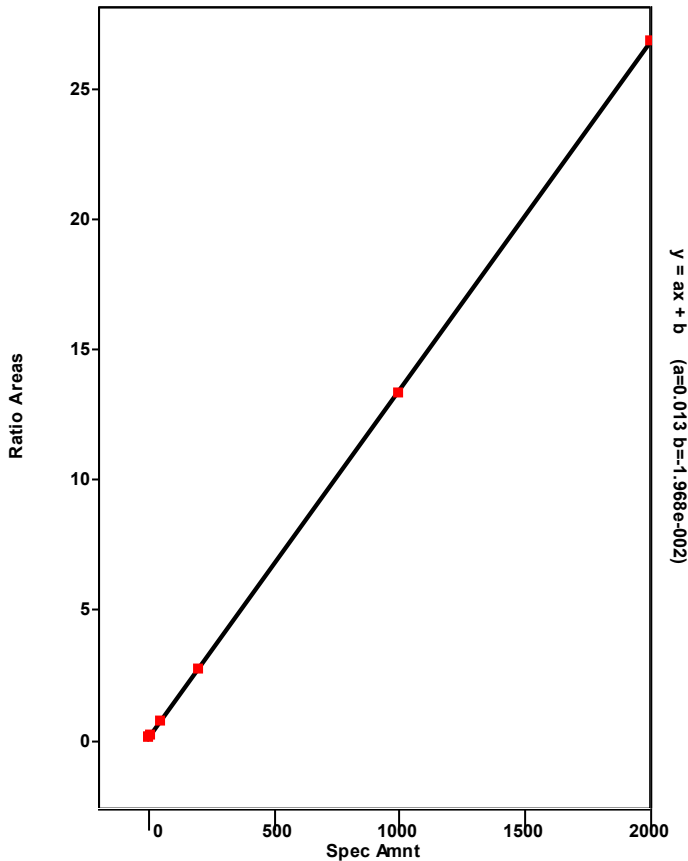


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	785936
RM1 Area	818017
RM1 Ratio (A)	1.0408
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	57.95
Percent Recovery (A)	---
TEQ (A)	0.5795
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

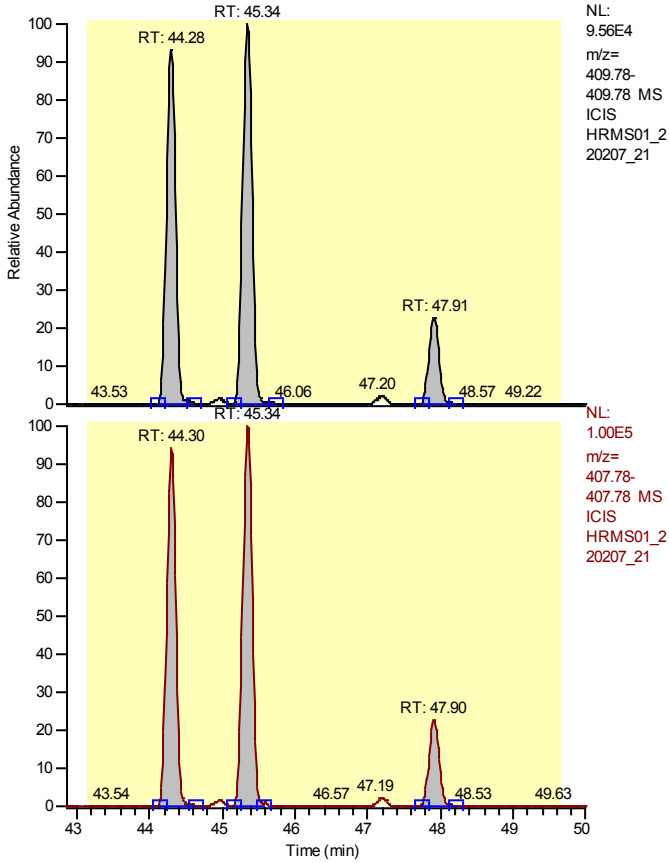
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

RT: 42.85 - 50.00 SM: 7G

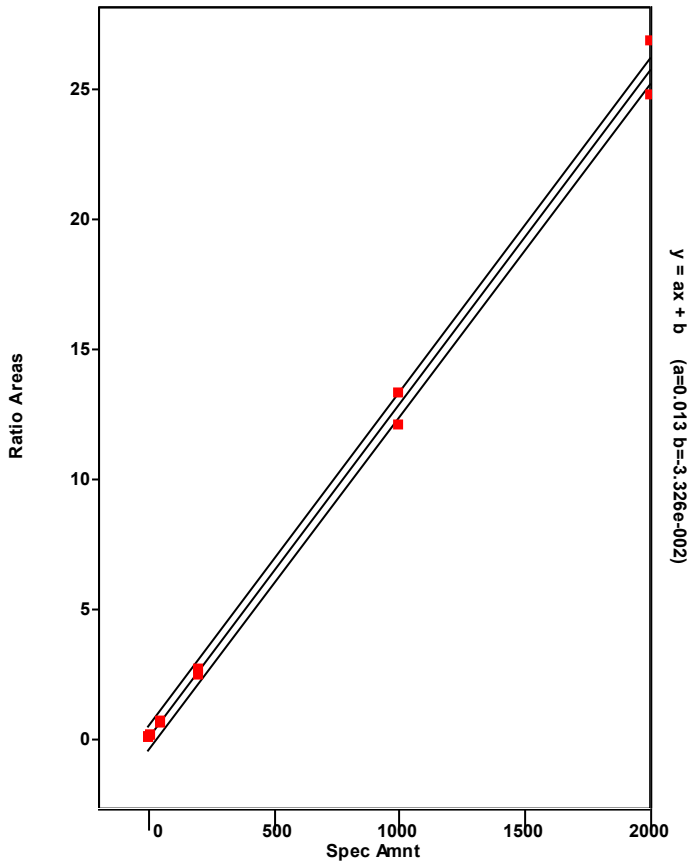


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1856511
RM1 Area	1936328
RM1 Ratio (A)	1.0430
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	143.91
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

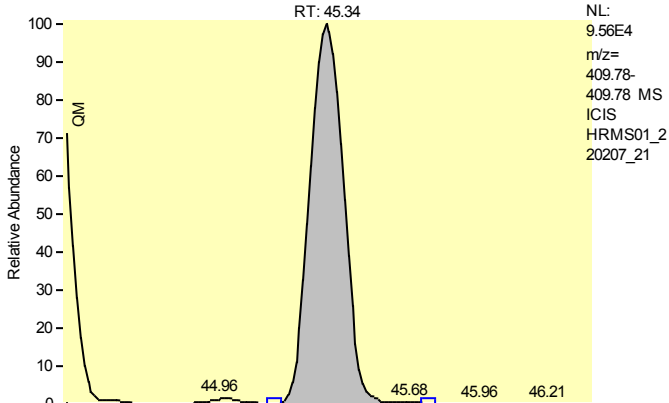
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

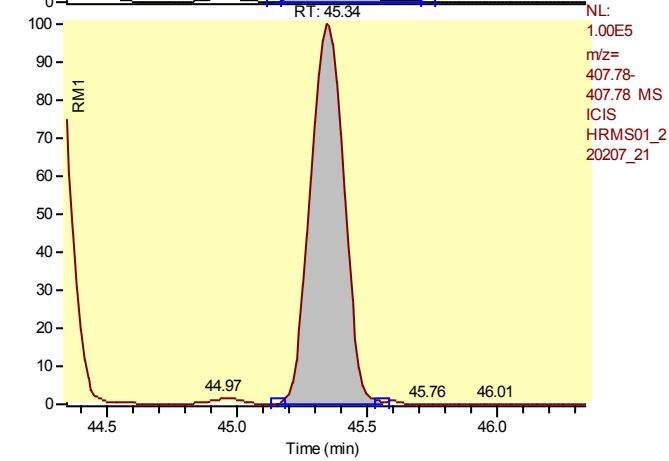
Entry Parameters

RT: 44.34 - 46.34 SM: 7G



NL:
 9.56E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	856672
RM1 Area	893946
RM1 Ratio (A)	1.0435
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	66.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

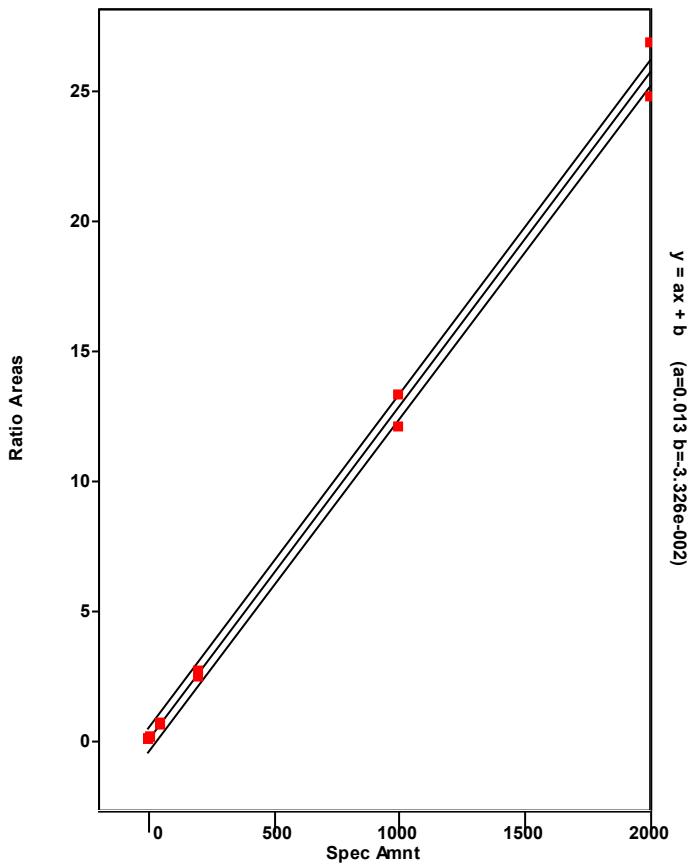


NL:
 1.00E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_21

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

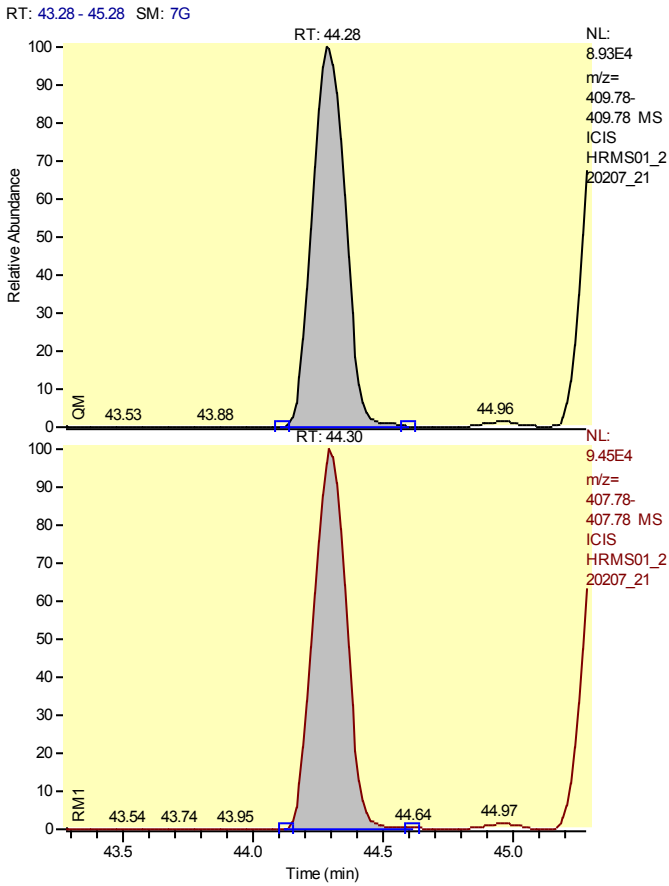
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

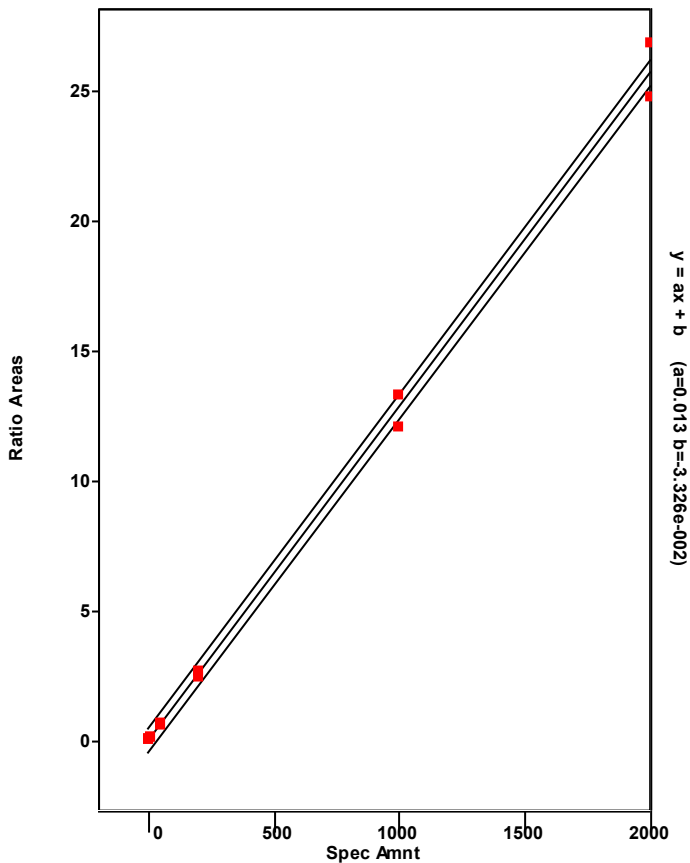


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	785936
RM1 Area	818017
RM1 Ratio (A)	1.0408
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	60.86
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

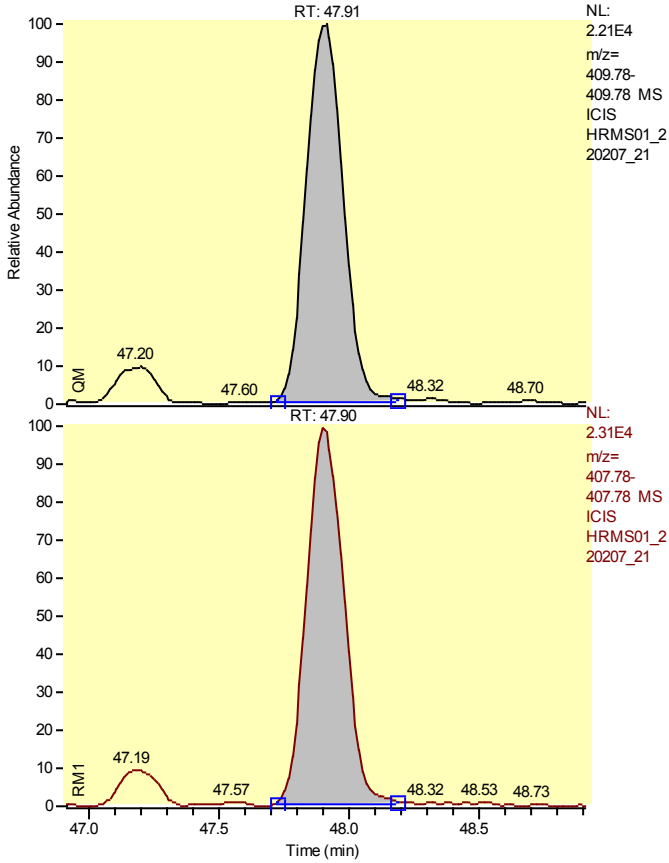
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.91 - 48.91 SM: 7G

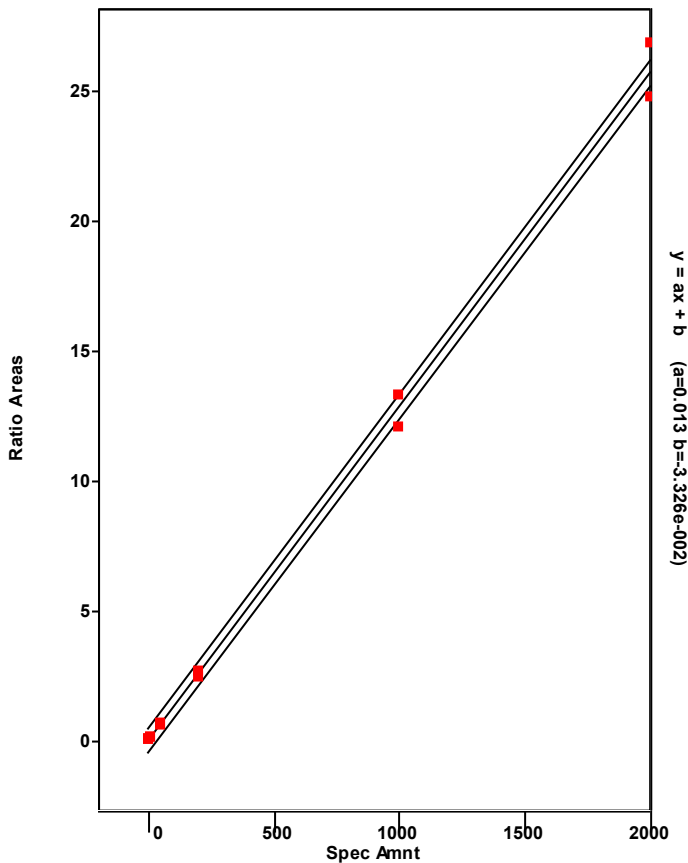


Entry Identifier	Total Heptachlorodibenzofuran__3
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	213902
RM1 Area	224365
RM1 Ratio (A)	1.0489
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	16.63
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__3 IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__3

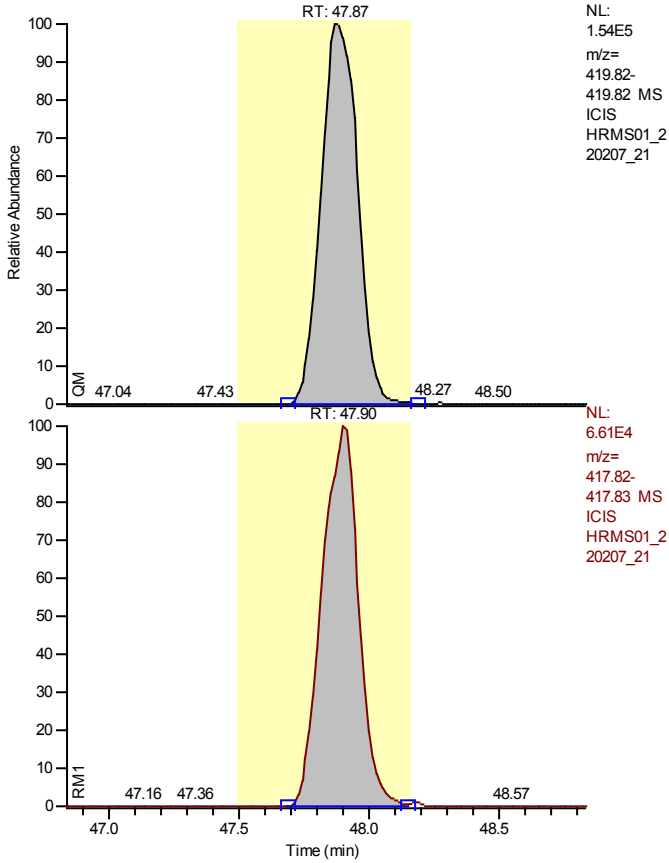
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.84 - 48.84 SM: 7G



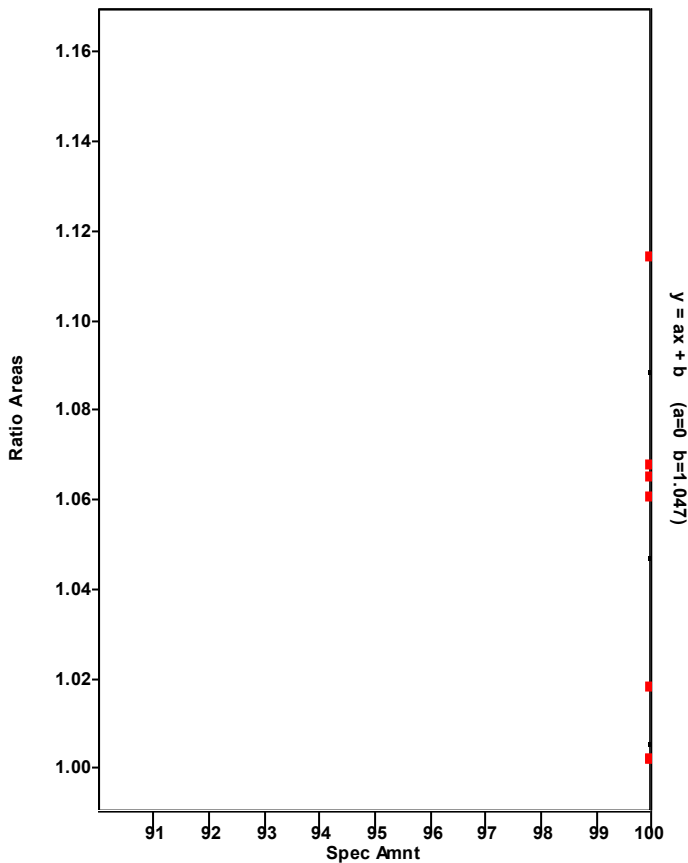
NL:
 1.54E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_21

NL:
 6.61E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1520204
RM1 Area	647107
RM1 Ratio (A)	0.4257
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	68.22
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

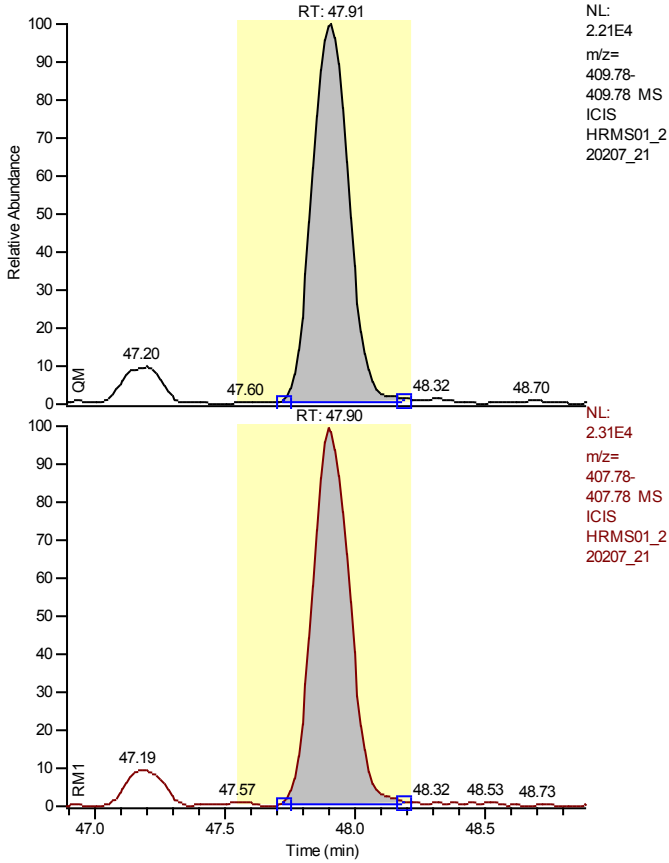
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.89 - 48.89 SM: 7G

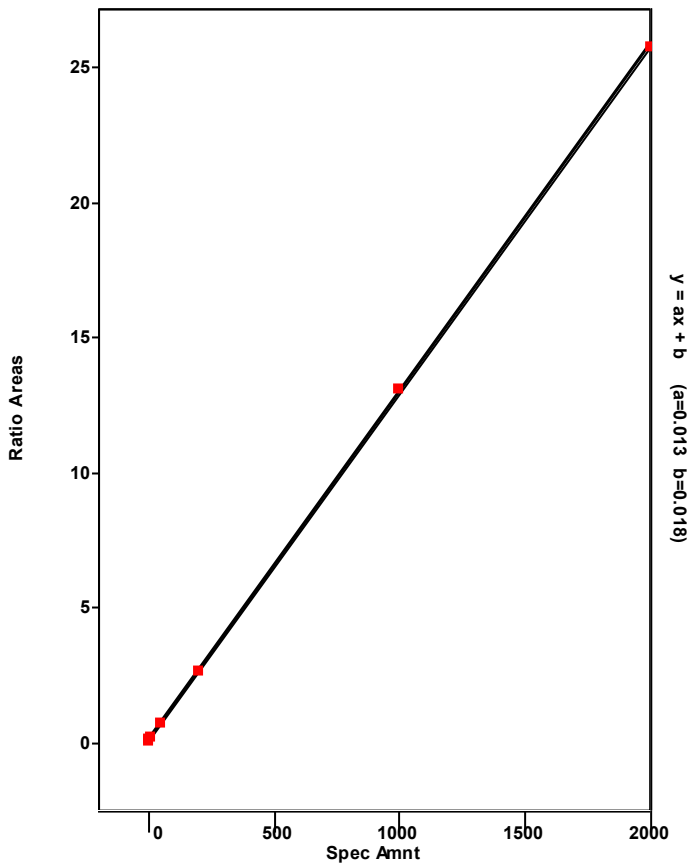


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	213902
RM1 Area	224365
RM1 Ratio (A)	1.0489
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	15.36
Percent Recovery (A)	---
TEQ (A)	0.1536
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

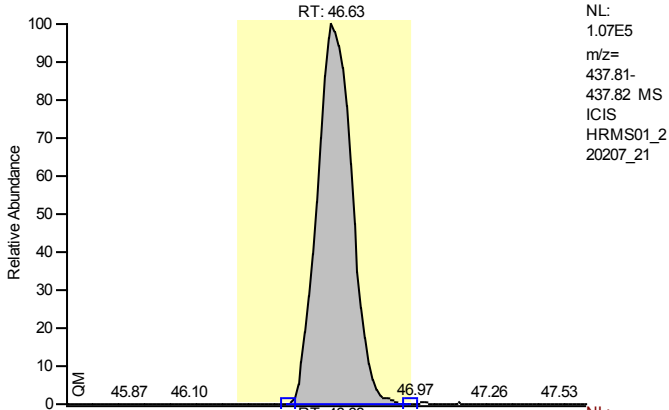
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



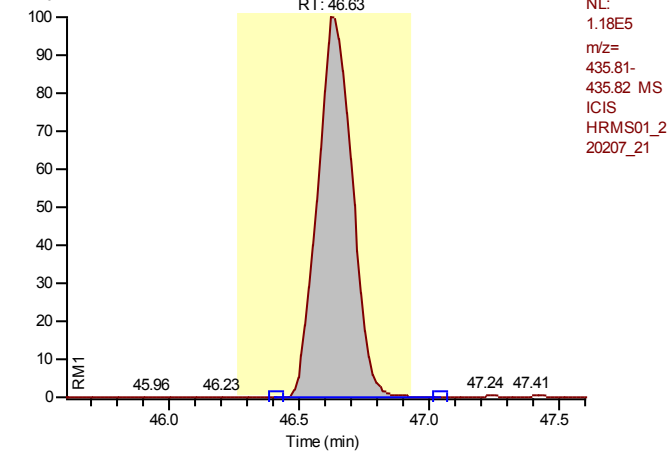
Chromatogram

Entry Parameters

RT: 45.61 - 47.61 SM: 7G

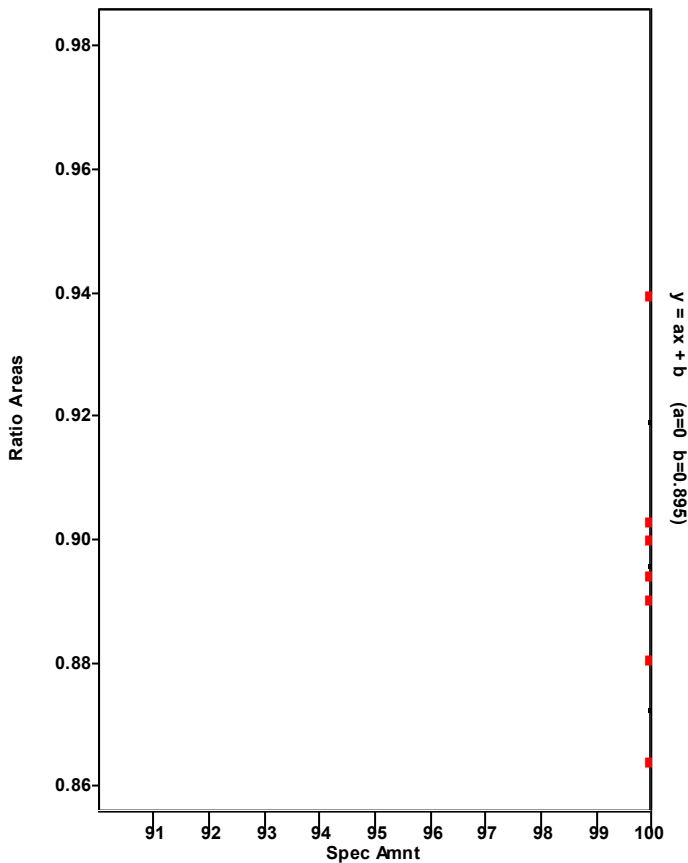


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1006917
RM1 Area	1098023
RM1 Ratio (A)	1.0905
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	77.44
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

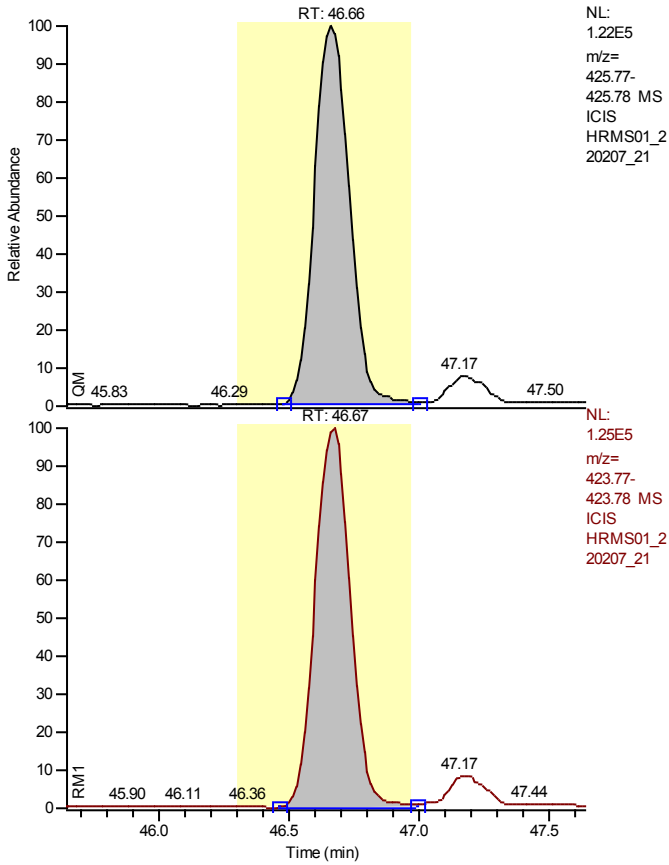
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

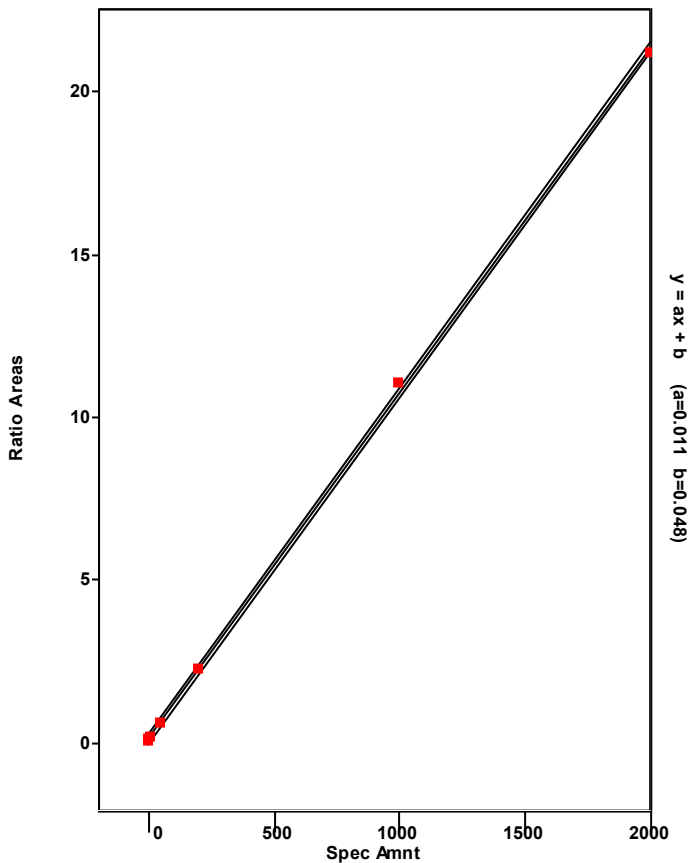


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1143164
RM1 Area	1168852
RM1 Ratio (A)	1.0225
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	99.11
Percent Recovery (A)	---
TEQ (A)	0.9911
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

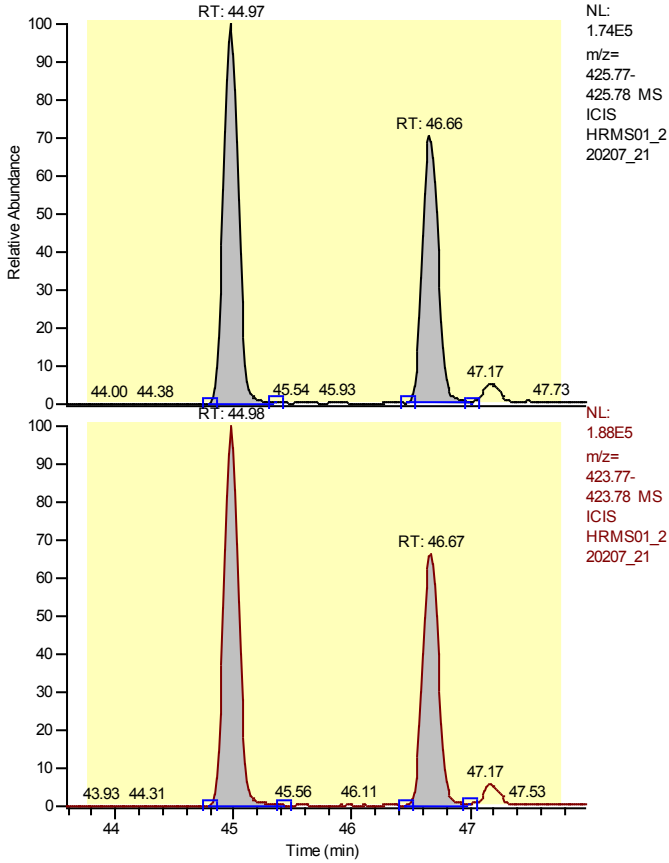
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.58 - 47.98 SM: 7G



NL:
 1.74E5
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20207_21

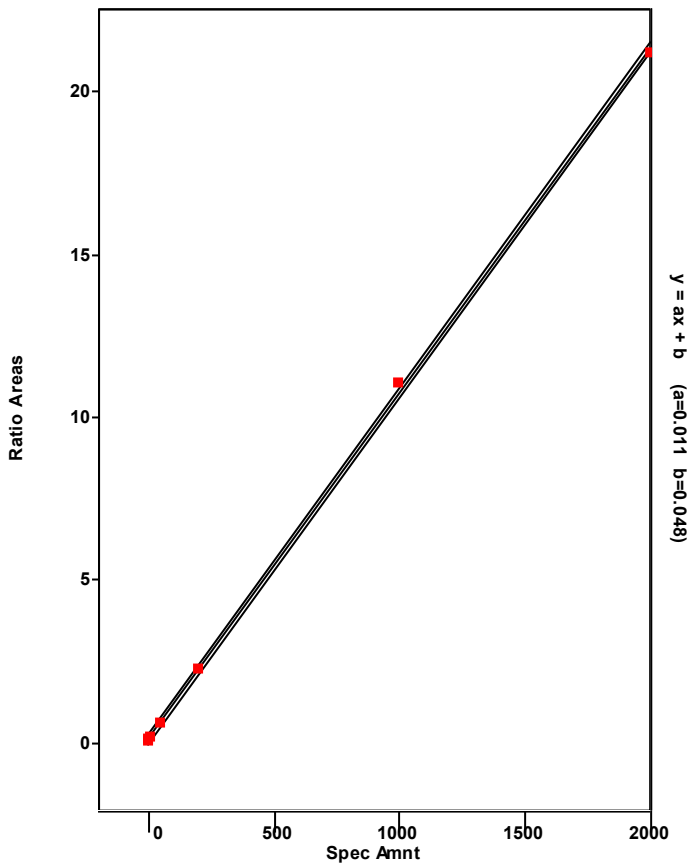
NL:
 1.88E5
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	2665982
RM1 Area	2789664
RM1 Ratio (A)	1.0464
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	233.86
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

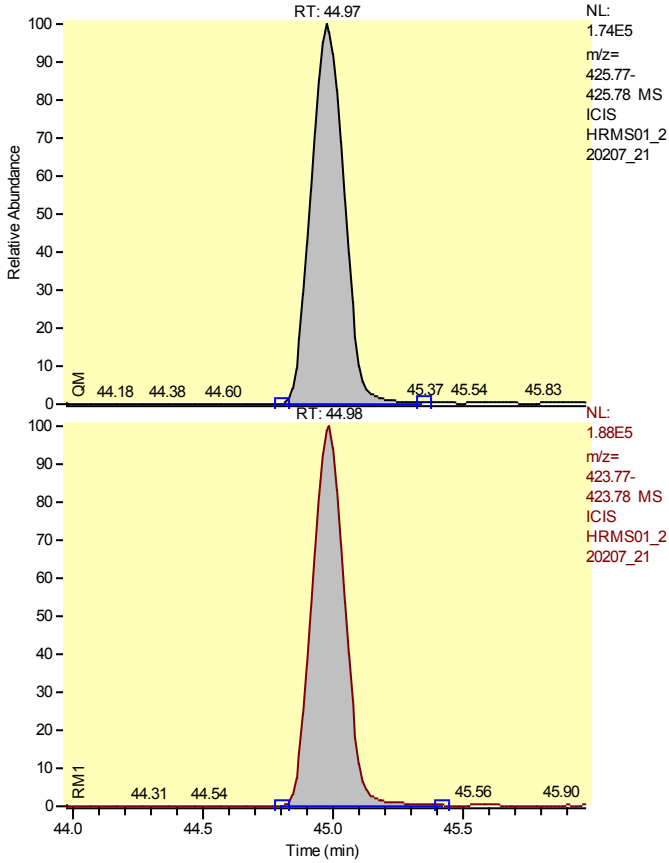
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 43.97 - 45.97 SM: 7G

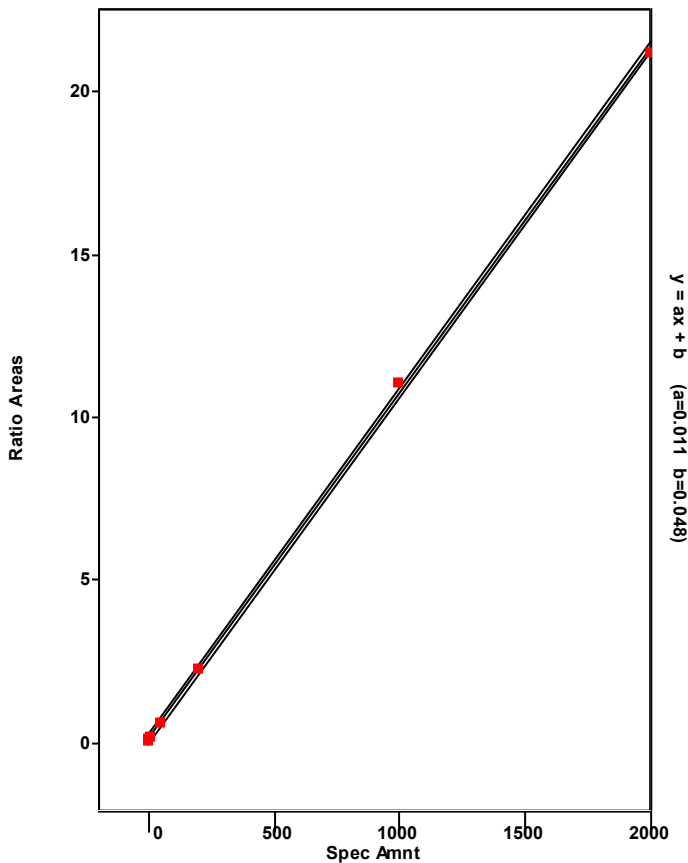


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1522818
RM1 Area	1620811
RM1 Ratio (A)	1.0644
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	134.75
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

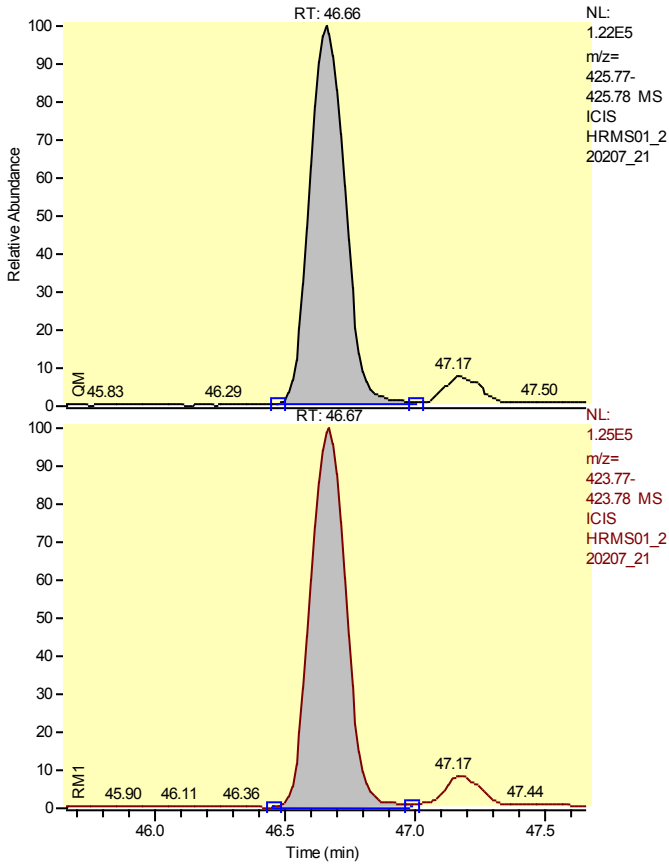
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

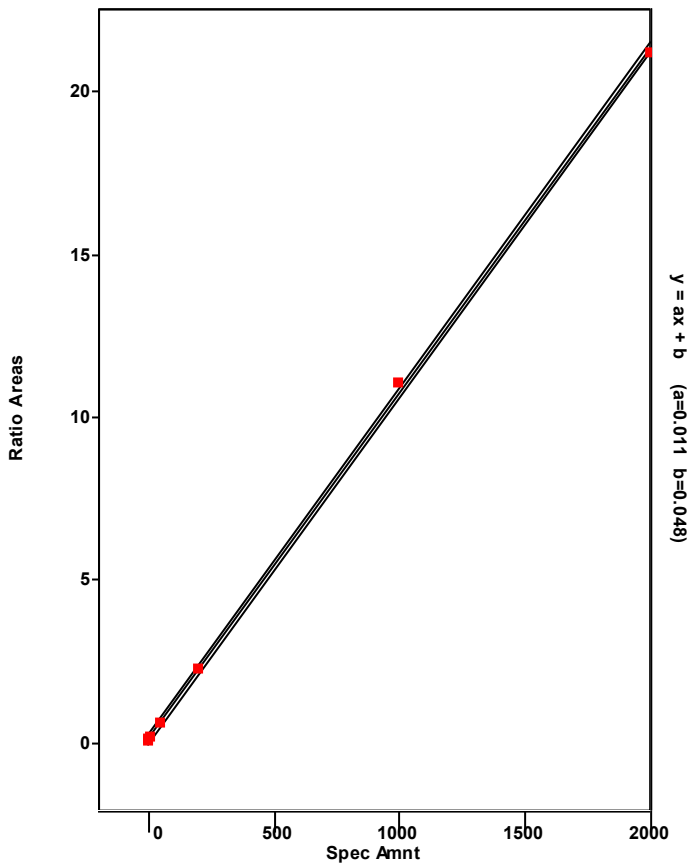


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1143164
RM1 Area	1168852
RM1 Ratio (A)	1.0225
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	99.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

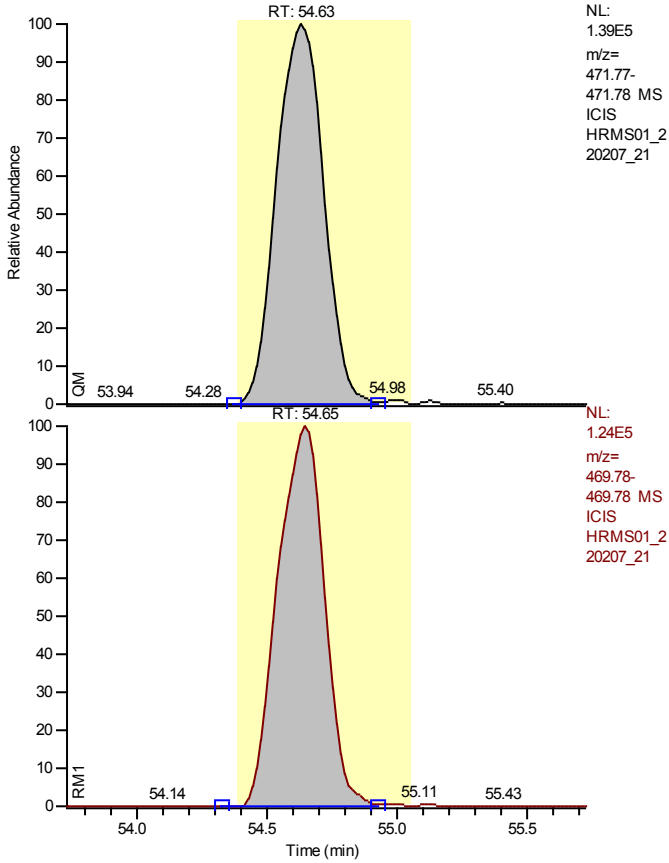
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 53.72 - 55.72 SM: 7G



NL:
 1.39E5
 m/z=
 471.77-
 471.78 MS
 ICIS
 HRMS01_2
 20207_21

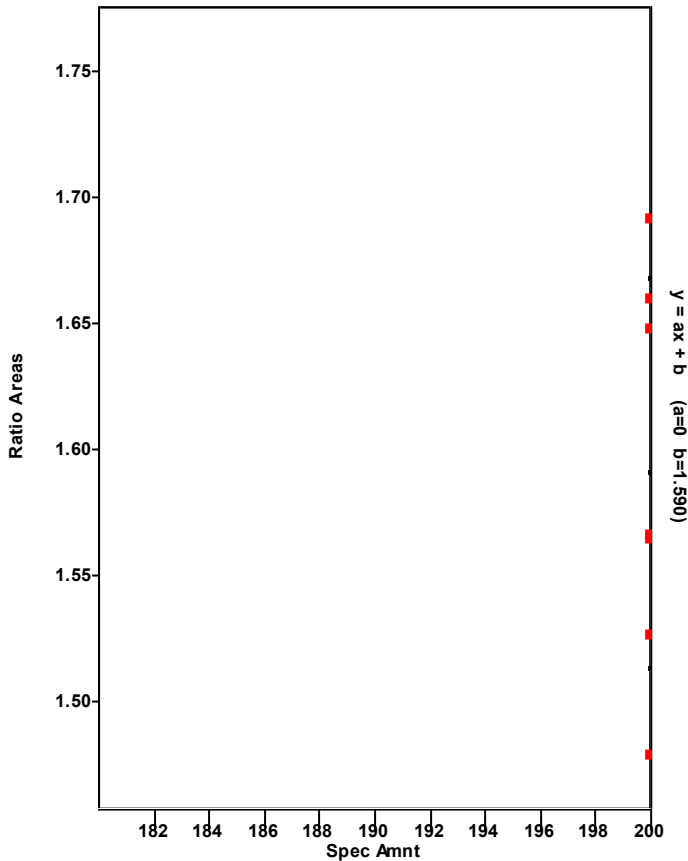
NL:
 1.24E5
 m/z=
 469.78-
 469.78 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1755441
RM1 Area	1541763
RM1 Ratio (A)	0.8783
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	136.65
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

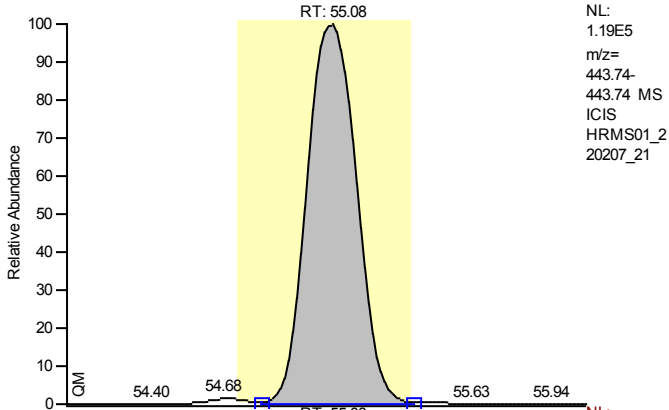
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



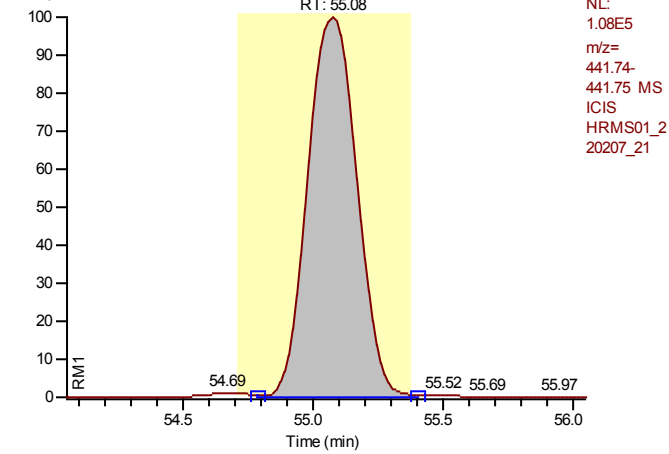
Chromatogram

Entry Parameters

RT: 54.05 - 56.05 SM: 7G



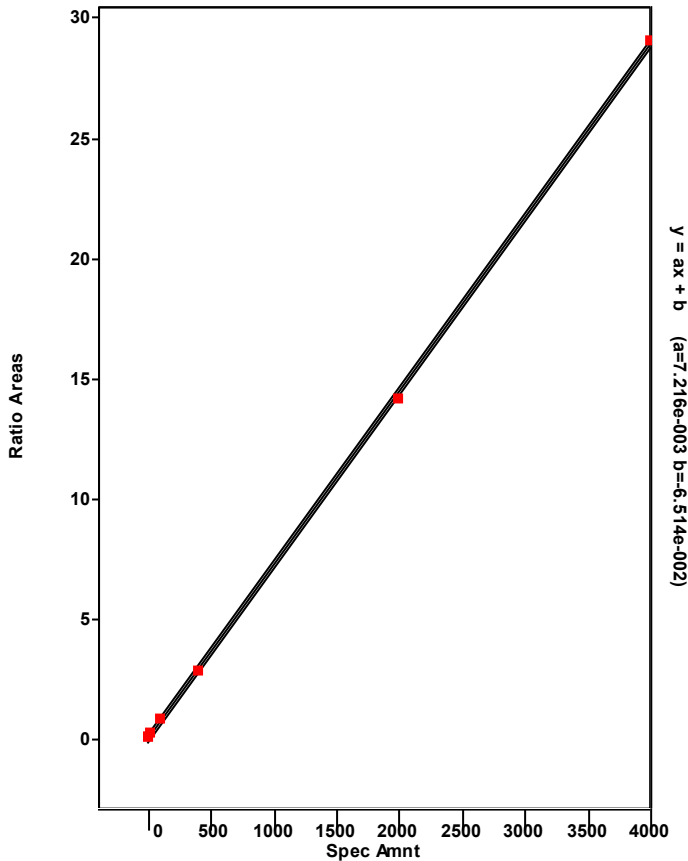
Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1577723
RM1 Area	1422099
RM1 Ratio (A)	0.9014
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	129.27
Percent Recovery (A)	---
TEQ (A)	0.0388
Label2	



Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

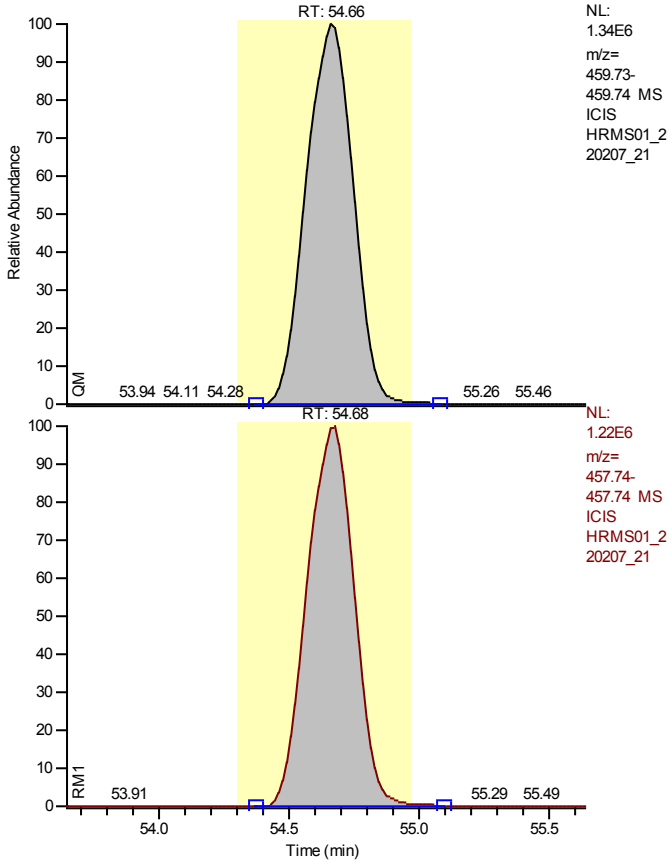
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.64 - 55.64 SM: 7G



NL:
 1.34E6
 m/z=
 459.73-
 459.74 MS
 ICIS
 HRMS01_2
 20207_21

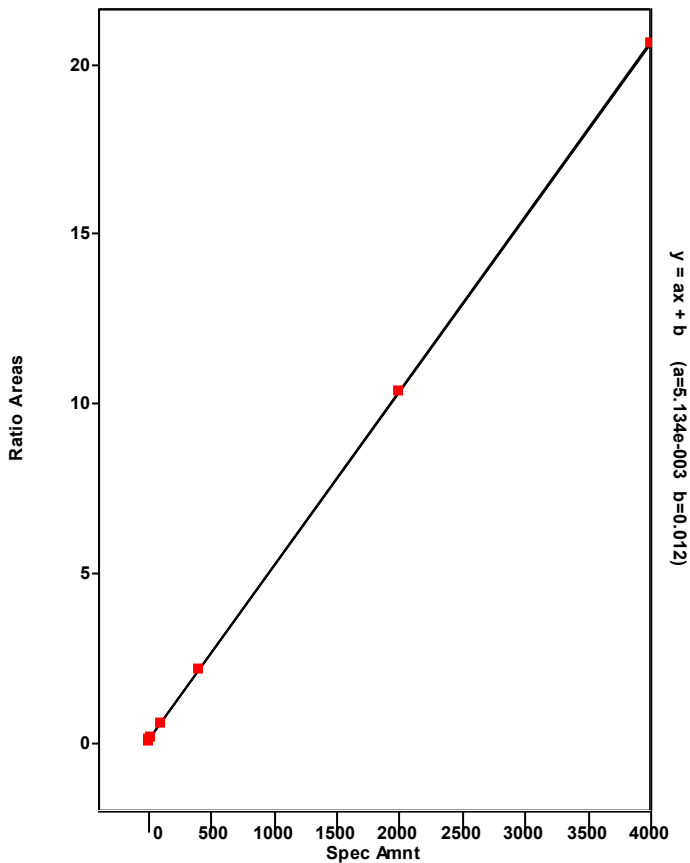
NL:
 1.22E6
 m/z=
 457.74-
 457.74 MS
 ICIS
 HRMS01_2
 20207_21

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	16891594
RM1 Area	15291237
RM1 Ratio (A)	0.9053
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	1842.23
Percent Recovery (A)	---
TEQ (A)	0.5527
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

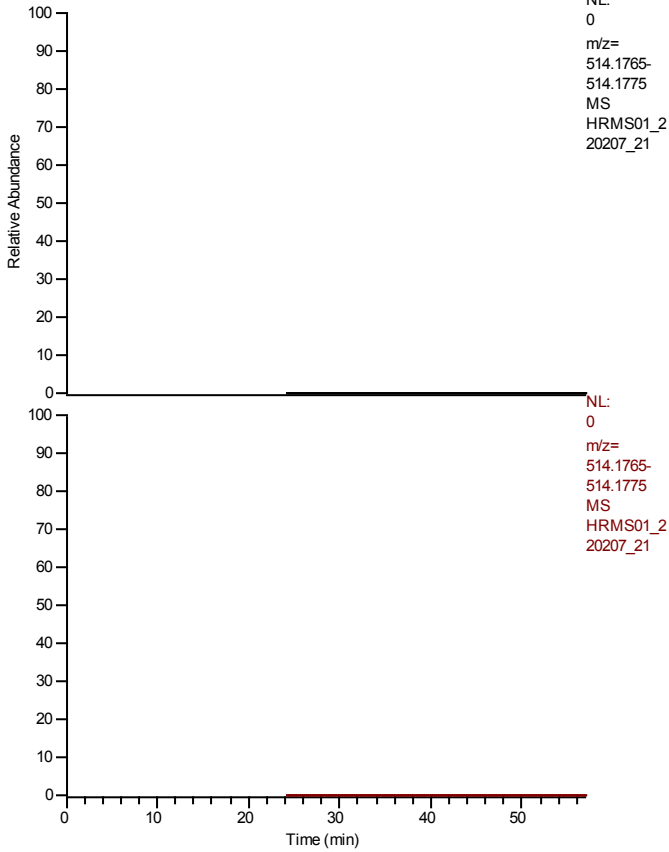
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

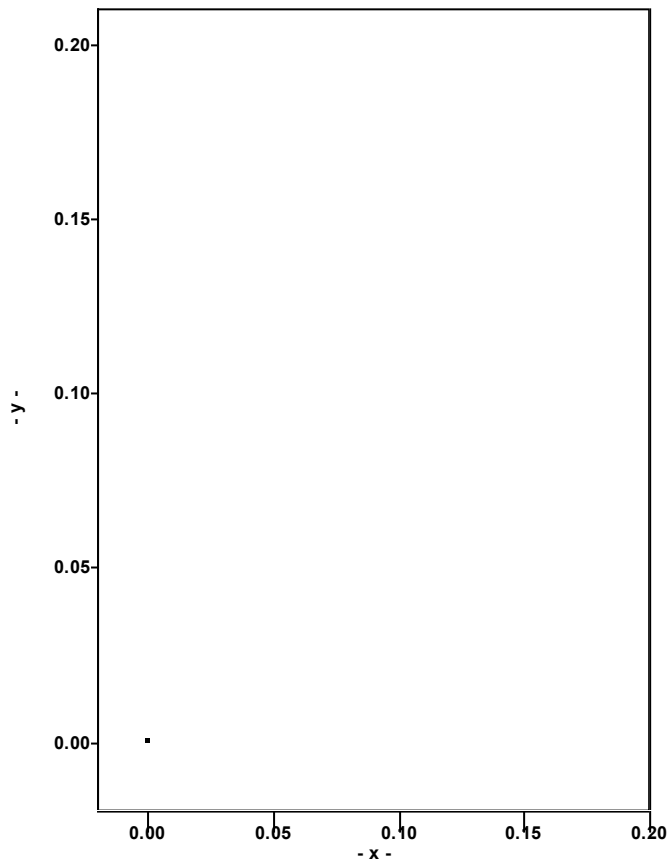
RT: 0.00 - 57.02 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	23211130
RM1 Area	22215861
RM1 Ratio (A)	0.9571
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	2328.81
Percent Recovery (A)	---
TEQ (A)	21.2240
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 06:12
Number of Entries	48
Comment	
Vial	127
Sample Name	L2202953-05
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_23_seq
Data	hrms01_220207_23
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

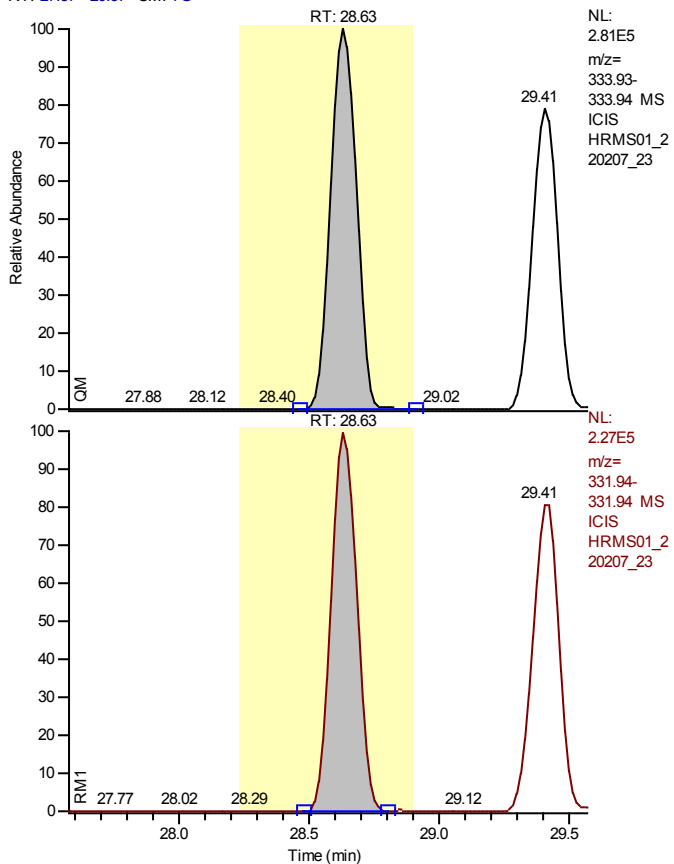
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1933346	1541063	0.7971	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2217376	1775686	0.8008	0.6500 - 0.8900	100.00	67.99	68	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	9576	6601	0.6893	0.6500 - 0.8900	0.00	0.39	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	9576	6601	0.6893	0.6500 - 0.8900	0.00	0.39	---	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1500299	1281589	0.8542	0.6500 - 0.8900	100.00	67.43	67	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	7482	3192	---	0.6500 - 0.8900	0.00	---	---	---
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	7482	3192	0.4265	0.6500 - 0.8900	0.00	n.d. < 0.35	---	n.d.
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1320475	2159494	1.6354	1.3200 - 1.7800	100.00	72.50	73	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
13	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1312992	2030077	1.5461	1.3200 - 1.7800	100.00	69.86	70	0.0000
14	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
15	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		927523	1462587	1.5769	1.3200 - 1.7800	100.00	73.61	74	0.0000
16	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
17	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
18	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		376710	376710	1.0000	0.8500 - 1.1500	10.00	9.00	90	0.0000
19	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1301761	1655727	1.2719	1.0500 - 1.4300	100.00	100.00	100	0.0000
20	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1913202	1022934	0.5347	0.4300 - 0.5900	100.00	86.30	86	0.0000
21	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
22	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
23	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1960587	1088441	0.5552	0.4300 - 0.5900	100.00	81.08	81	0.0000
24	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
25	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1827738	990063	0.5417	0.4300 - 0.5900	100.00	77.53	78	0.0000
26	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
27	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1613131	871555	0.5403	0.4300 - 0.5900	100.00	71.30	71	0.0000
28	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
29	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		849354	1160631	1.3665	1.0500 - 1.4300	100.00	77.09	77	0.0000
30	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
31	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
32	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1026561	1225171	1.1935	1.0500 - 1.4300	100.00	86.36	86	0.0000
33	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
34	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
35	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1888649	842183	0.4459	0.3700 - 0.5100	100.00	81.77	82	0.0000
36	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
37	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
38	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1527113	682061	0.4466	0.3700 - 0.5100	100.00	71.38	71	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
40	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1111740	1150880	1.0352	0.8800 - 1.2000	100.00	85.45	85	0.0000
41	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	11024	10969	0.9950	0.8800 - 1.2000	0.00	0.88	---	0.0000
42	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	25381	26197	1.0322	0.8800 - 1.2000	0.00	2.06	---	0.0000
43	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	14357	15228	1.0607	0.8800 - 1.2000	0.00	1.18	---	0.0000
44	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	11024	10969	0.9950	0.8800 - 1.2000	0.00	0.88	---	0.0000
45	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1855211	1639123	0.8835	0.7600 - 1.0200	200.00	148.66	74	0.0000
46	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
47	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	100732	92242	0.9157	0.7600 - 1.0200	0.00	10.42	---	0.0031
48	overall TEQ	overall TEQ test		111756	103211	0.9235	0.0000 - 0.0000	0.00	11.30	---	0.0031

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

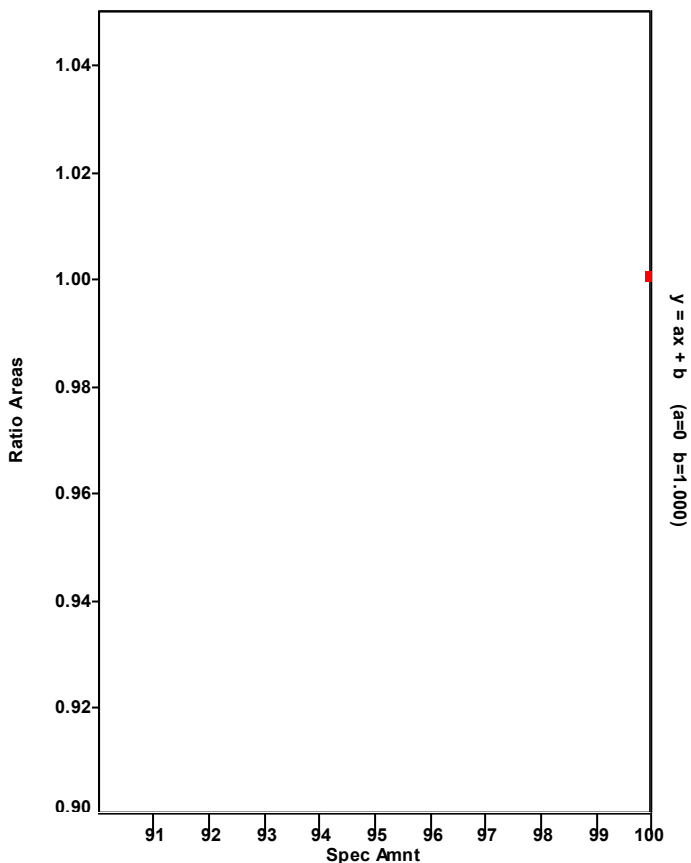


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1933346
RM1 Area	1541063
RM1 Ratio (A)	0.7971
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

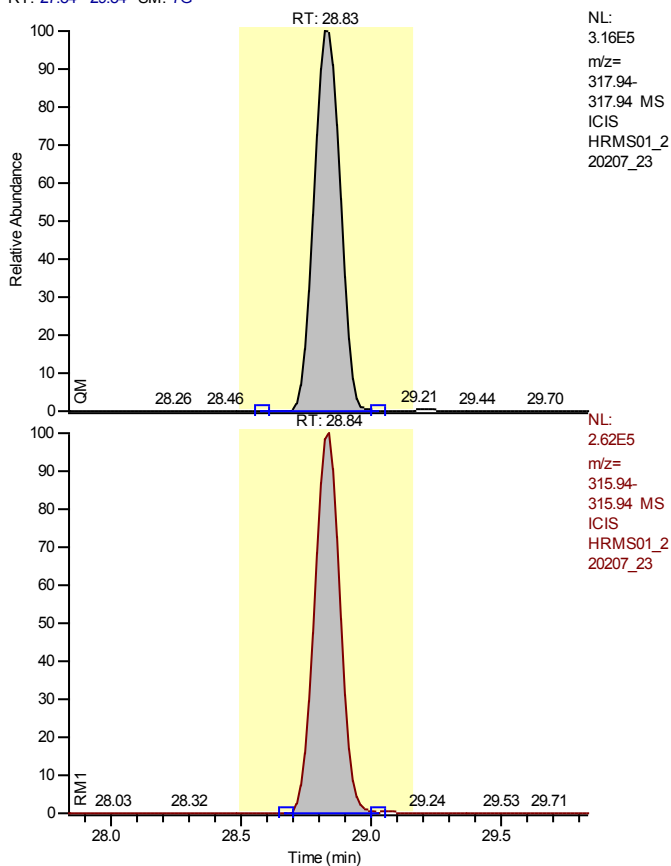
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



NL:
 3.16E5
 m/z=
 317.94
 MS
 ICIS
 HRMS01_2
 20207_23

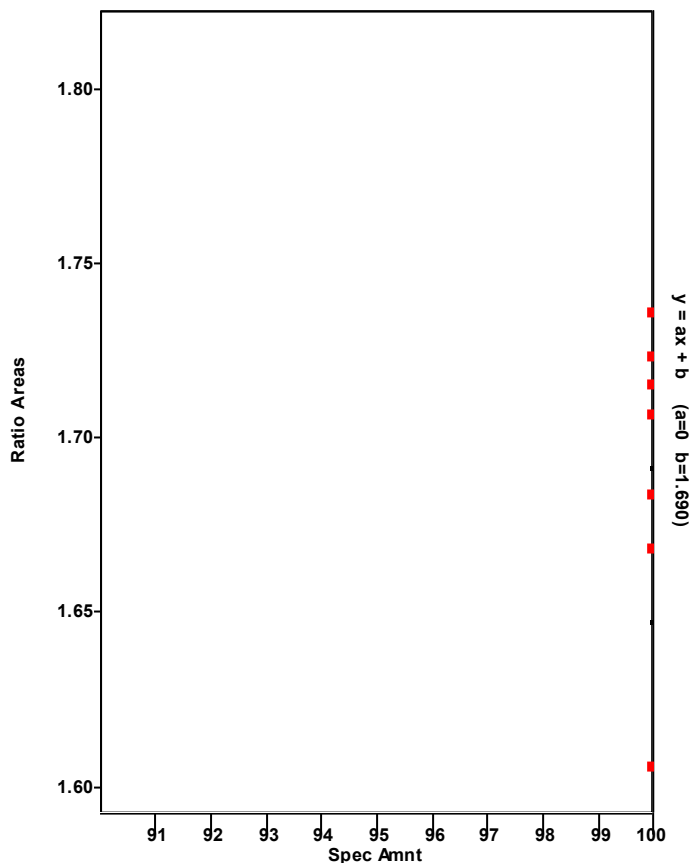
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2217376
RM1 Area	1775686
RM1 Ratio (A)	0.8008
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	67.99
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

NL:
 2.62E5
 m/z=
 315.94
 MS
 ICIS
 HRMS01_2
 20207_23

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

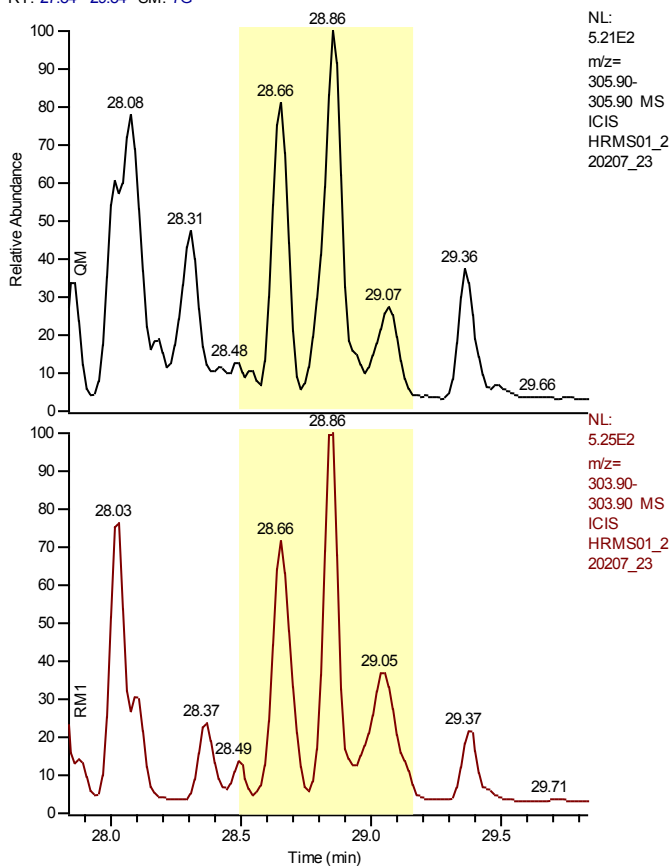
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



NL:
 5.21E2
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_23

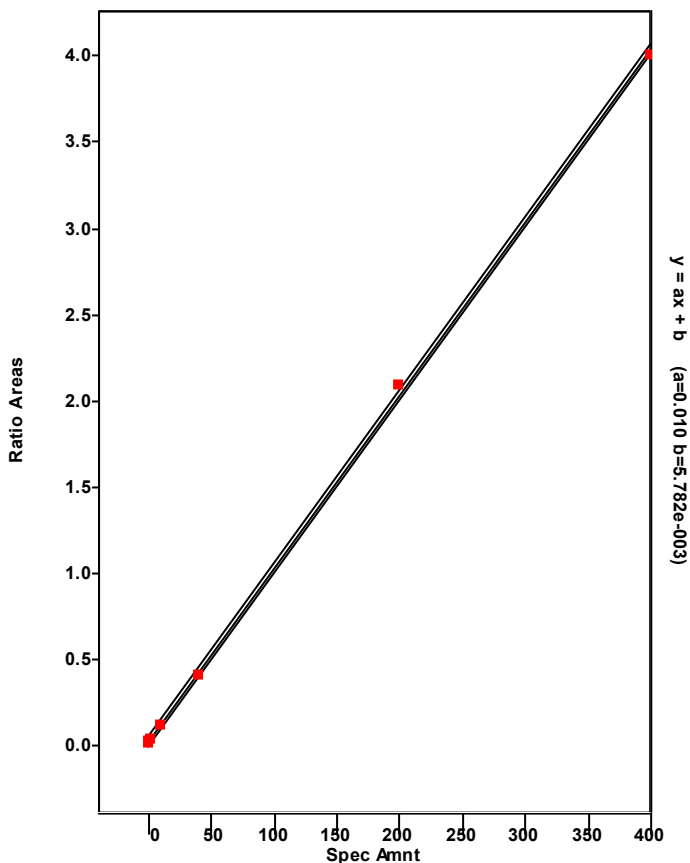
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

NL:
 5.25E2
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_23

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

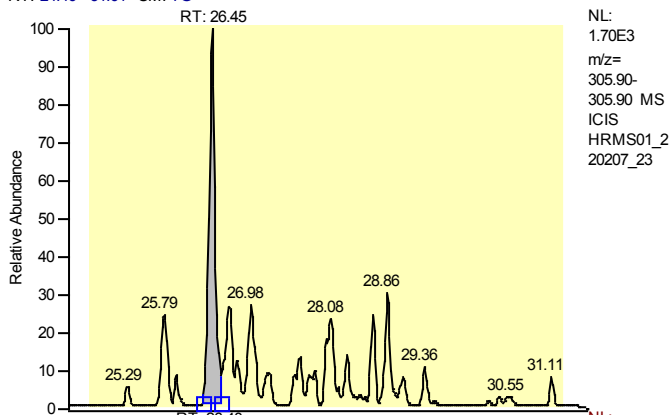
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



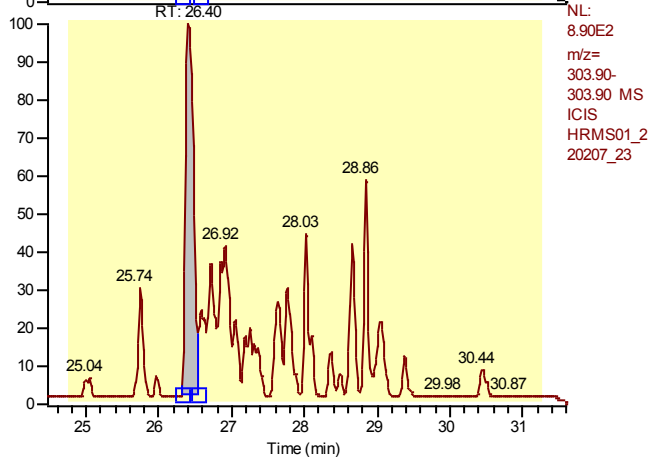
Chromatogram

Entry Parameters

RT: 24.46 - 31.61 SM: 7G



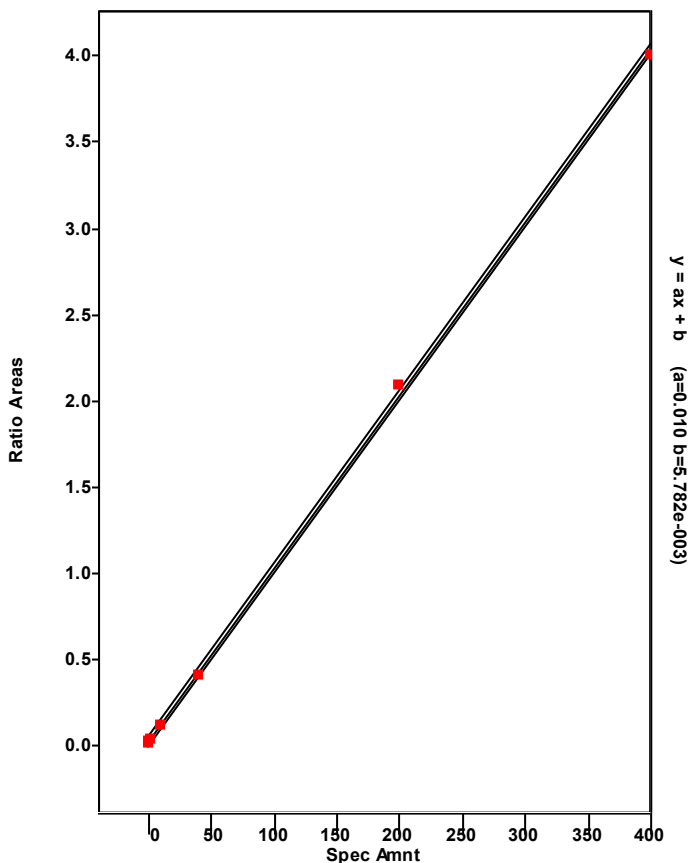
Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	9576
RM1 Area	6601
RM1 Ratio (A)	0.6893
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

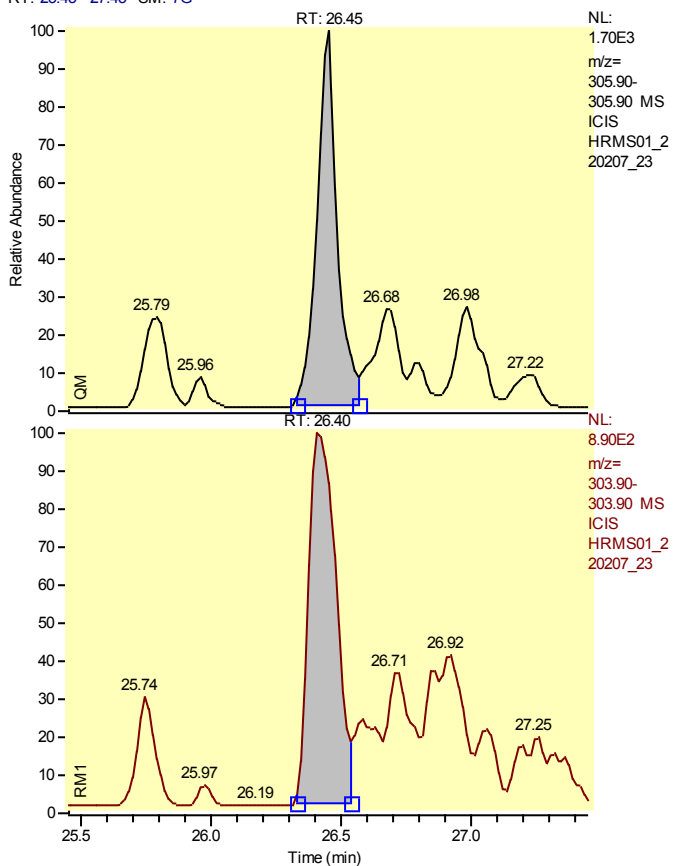
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.45 - 27.45 SM: 7G

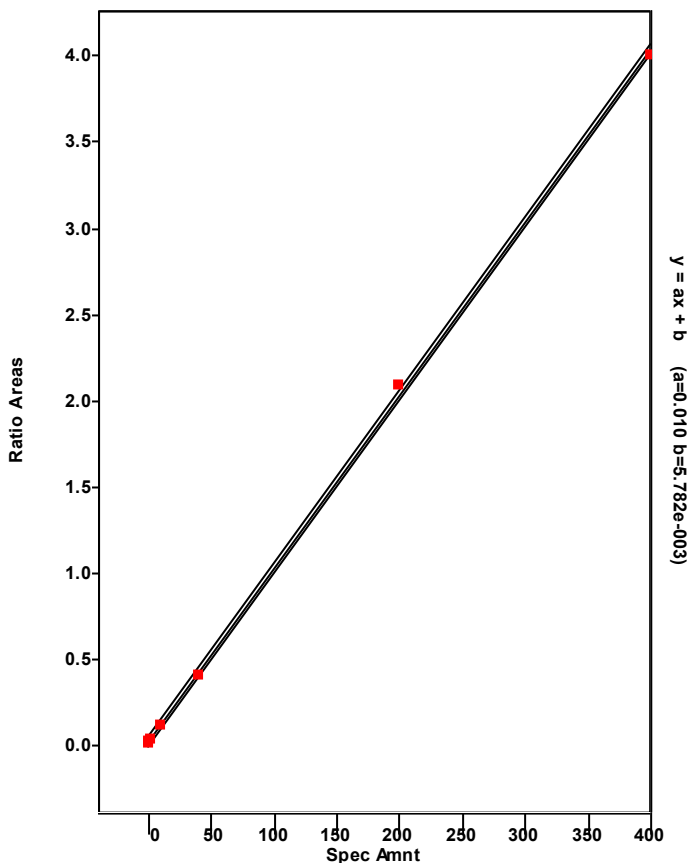


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9576
RM1 Area	6601
RM1 Ratio (A)	0.6893
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

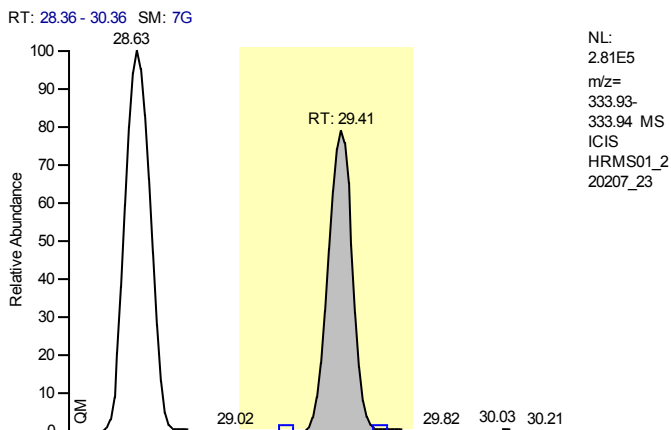
Calibration Points of Total Tetrachlorodibenzofuran__1

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704

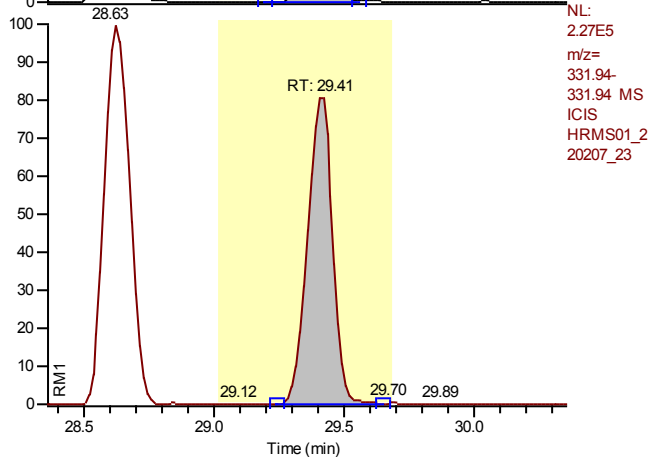


Chromatogram

Entry Parameters



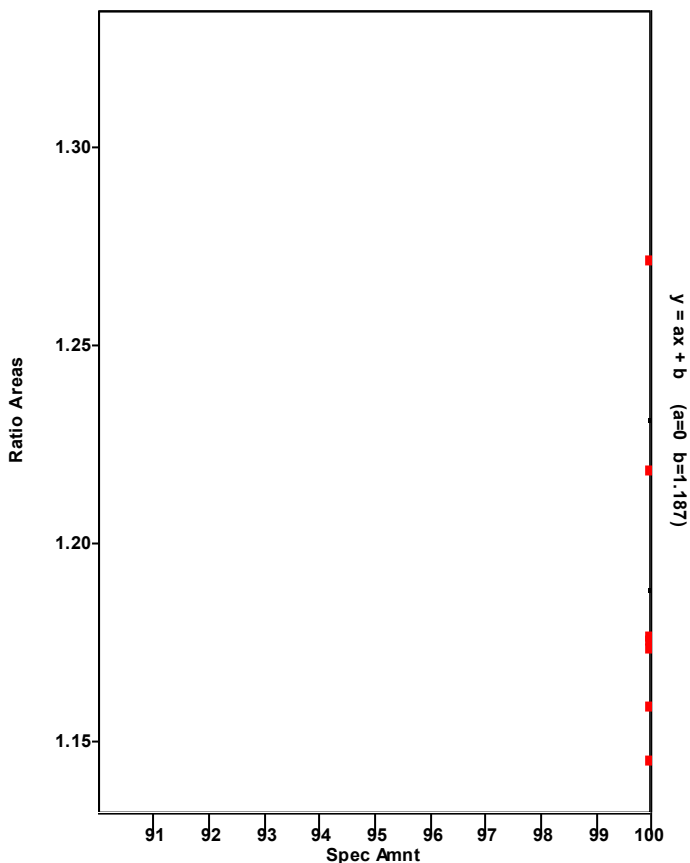
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1500299
RM1 Area	1281589
RM1 Ratio (A)	0.8542
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	67.43
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

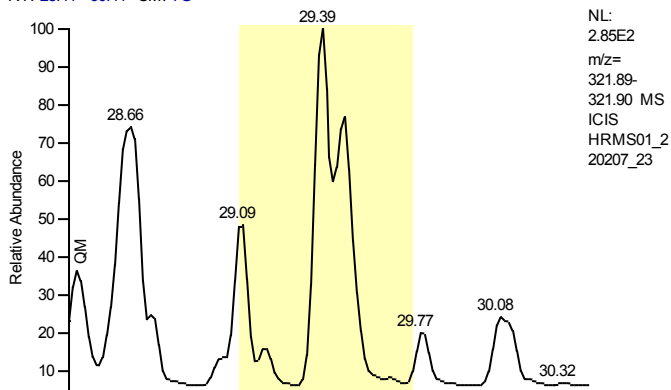
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



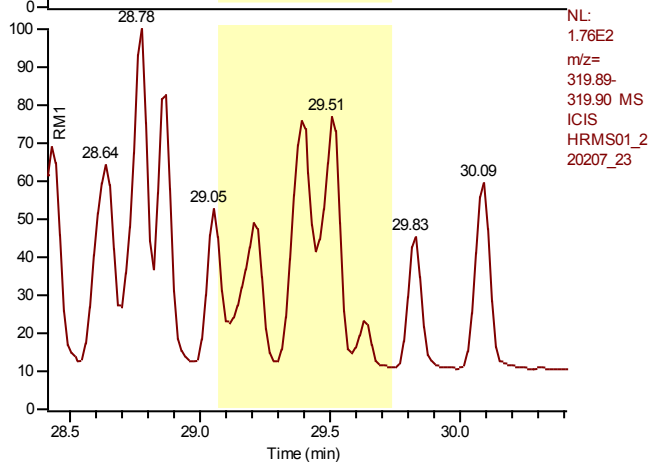
Chromatogram

Entry Parameters

RT: 28.41 - 30.41 SM: 7G



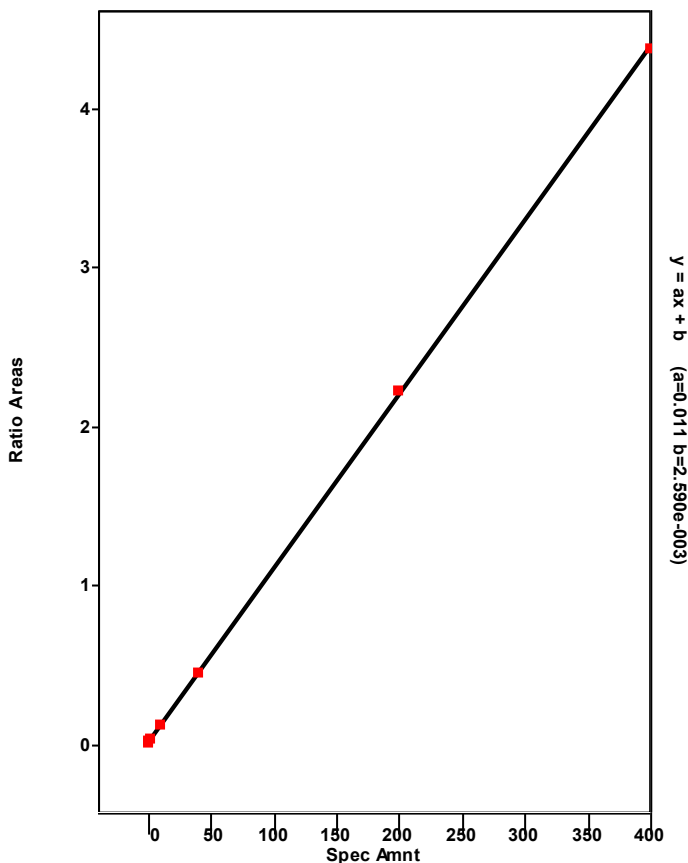
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

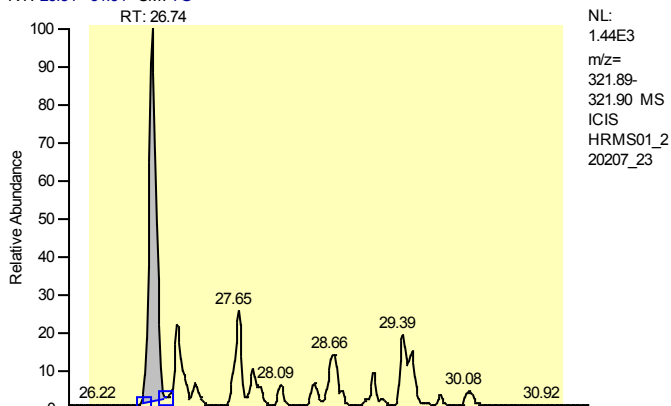
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



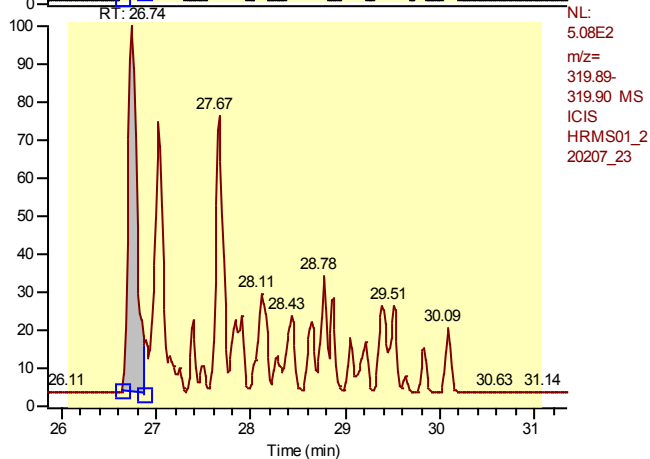
Chromatogram

Entry Parameters

RT: 25.84 - 31.34 SM: 7G



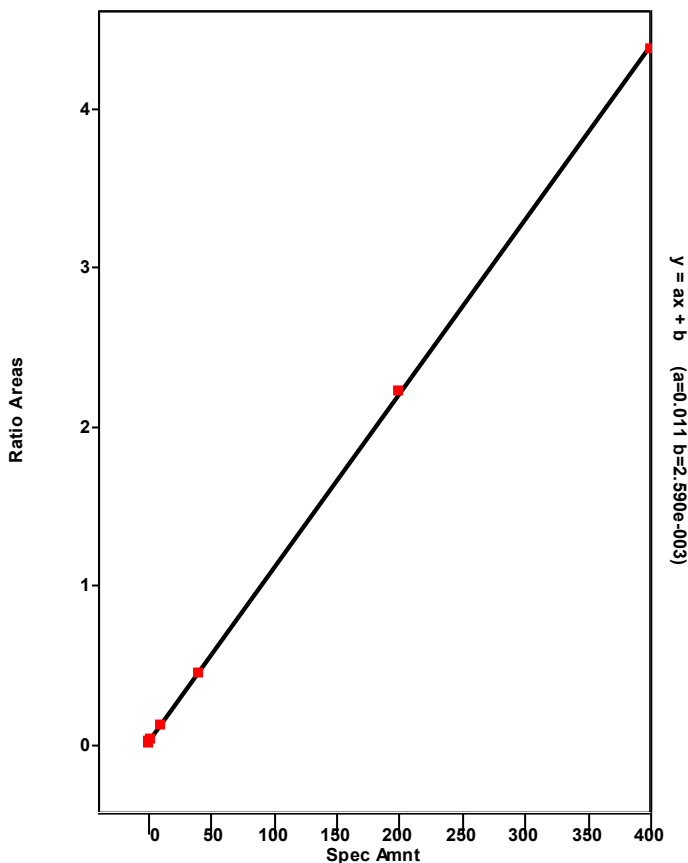
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	7482
RM1 Area	3192
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

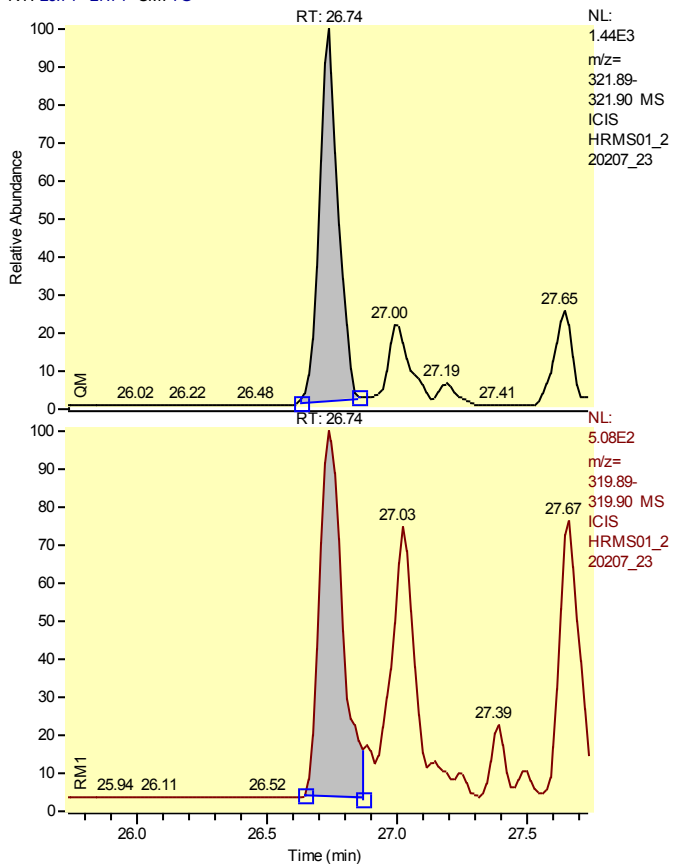
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.74 - 27.74 SM: 7G

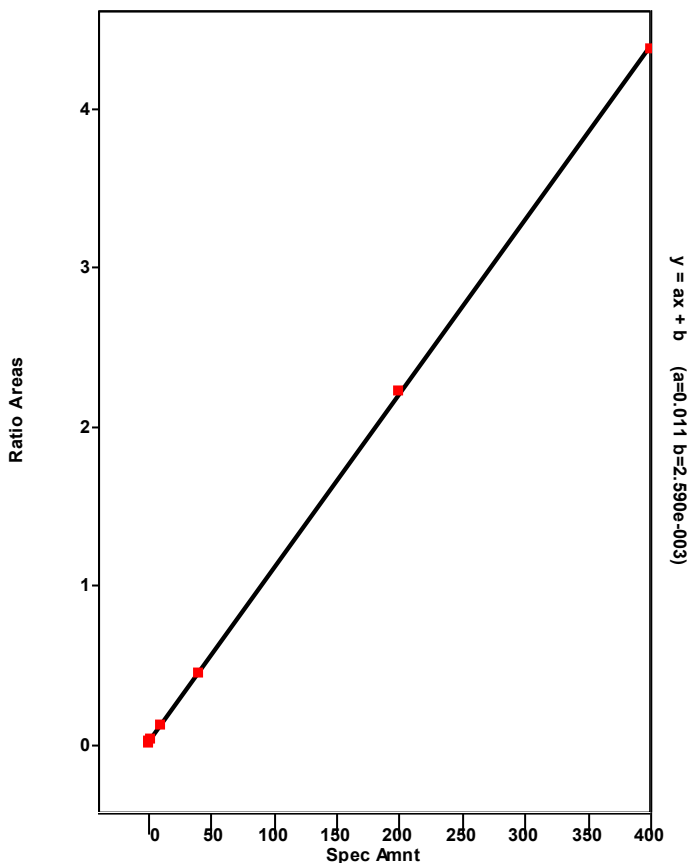


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	7482
RM1 Area	3192
RM1 Ratio (A)	0.4265
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.35
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

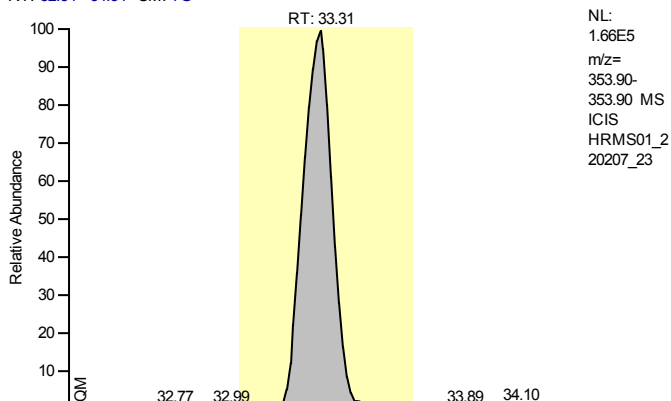
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



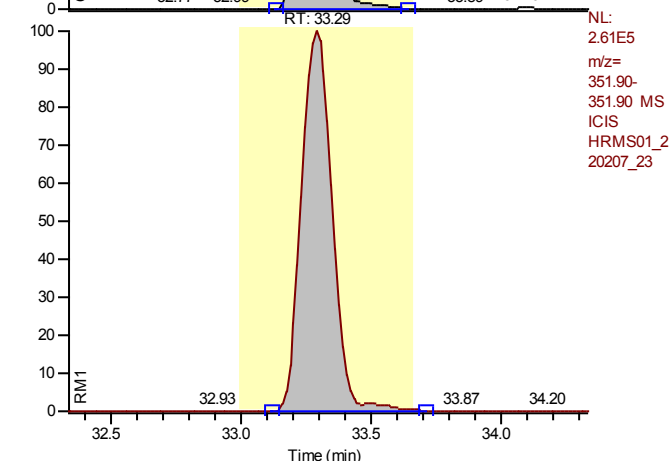
Chromatogram

Entry Parameters

RT: 32.34 - 34.34 SM: 7G



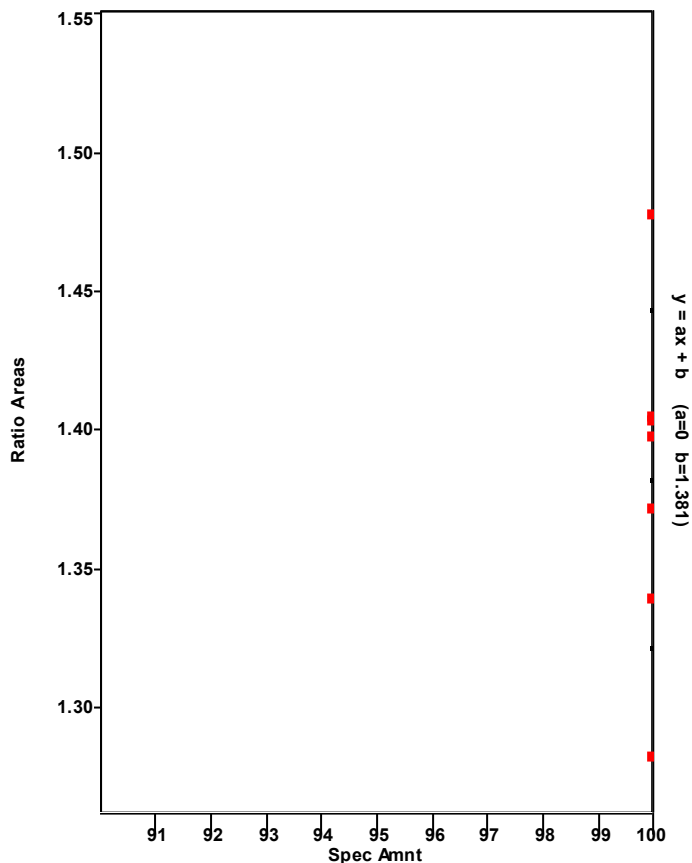
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1320475
RM1 Area	2159494
RM1 Ratio (A)	1.6354
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	72.50
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

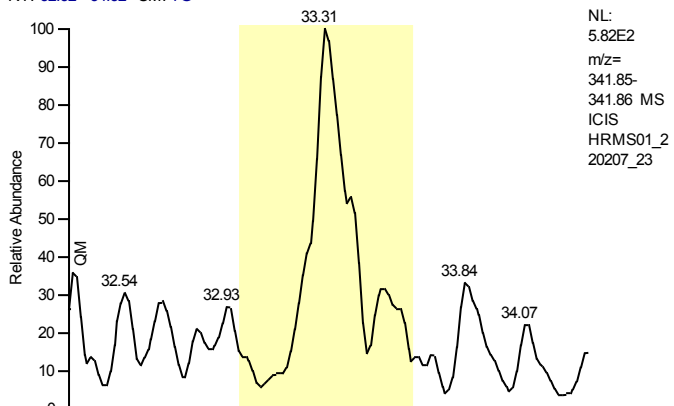
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

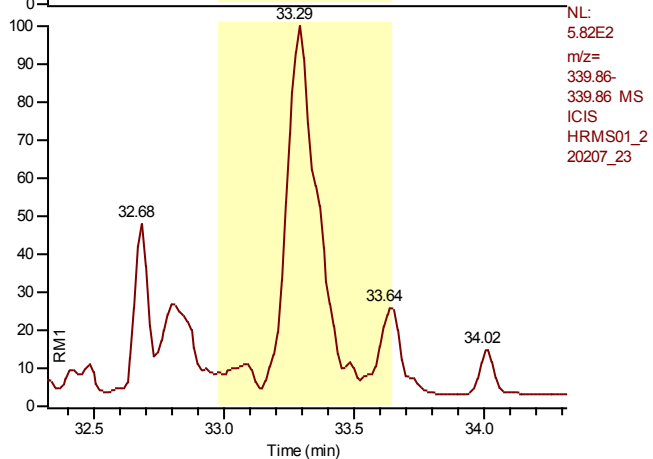
Entry Parameters

RT: 32.32 - 34.32 SM: 7G



NL:
 5.82E2
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

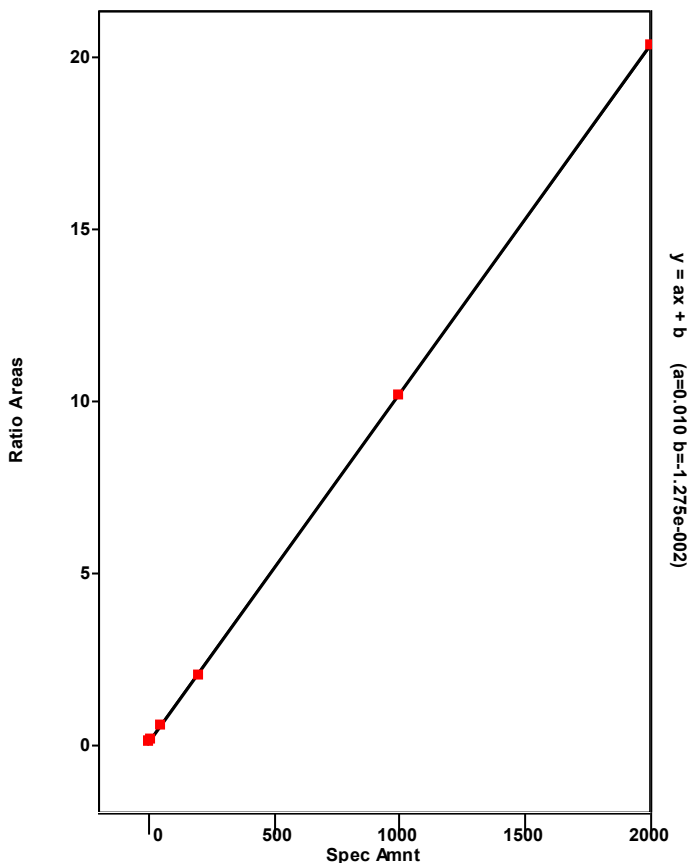


NL:
 5.82E2
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_23

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

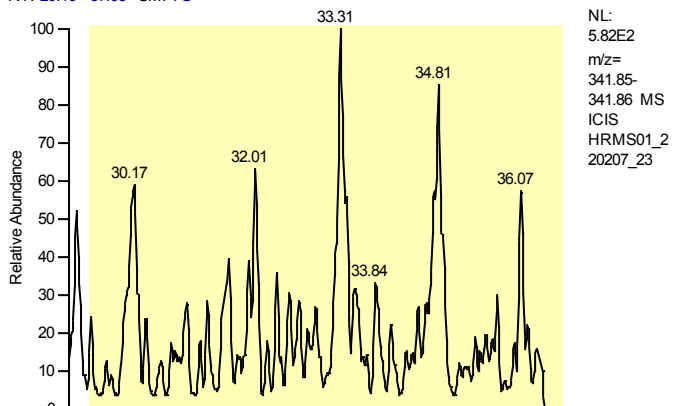
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



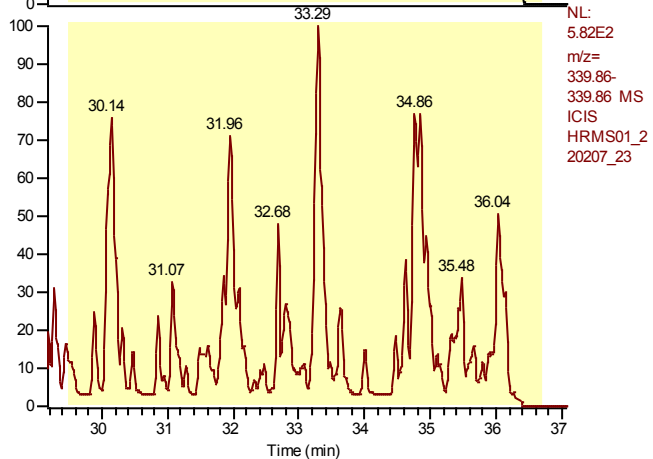
Chromatogram

Entry Parameters

RT: 29.16 - 37.08 SM: 7G



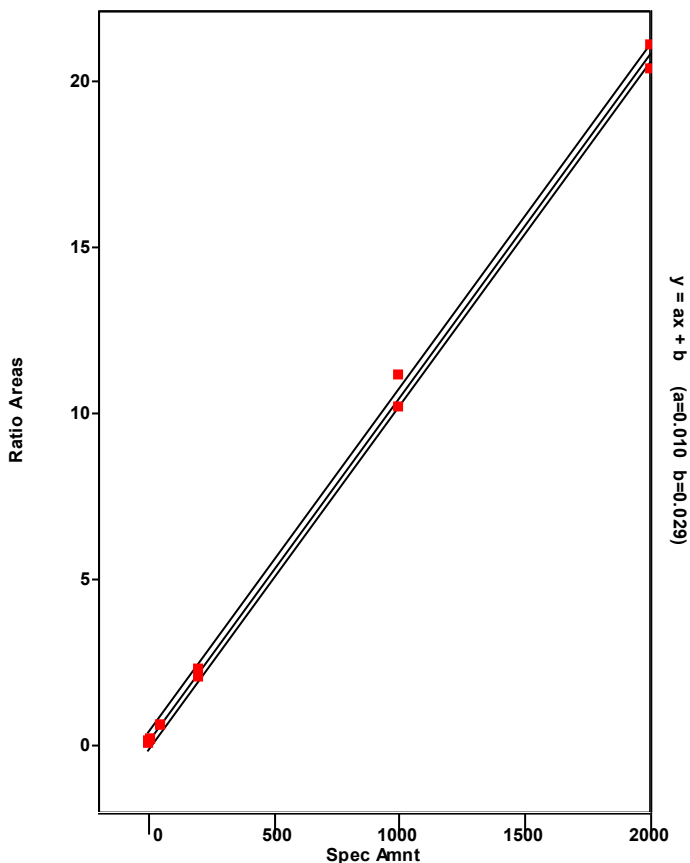
Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

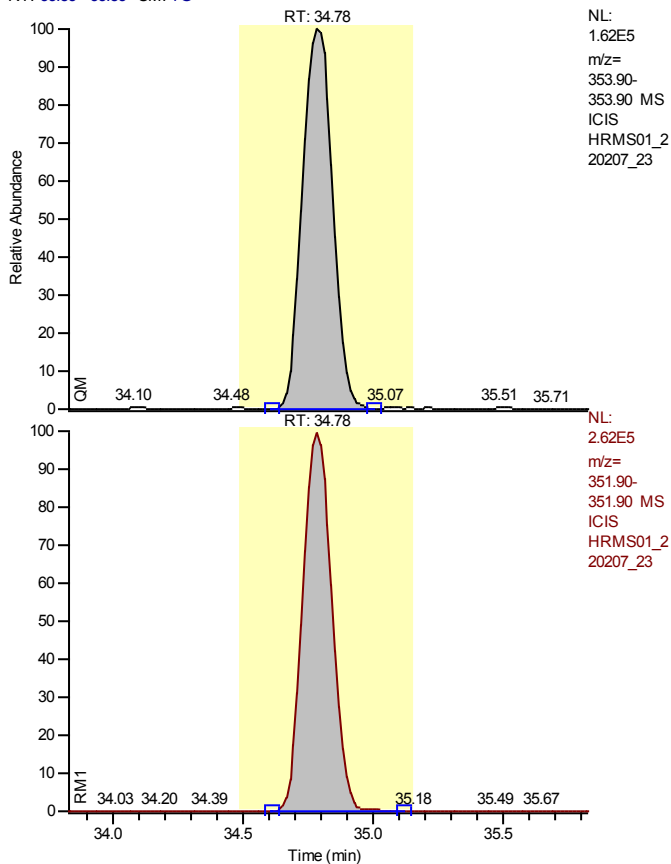
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.83 - 35.83 SM: 7G



NL:
 1.62E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_23

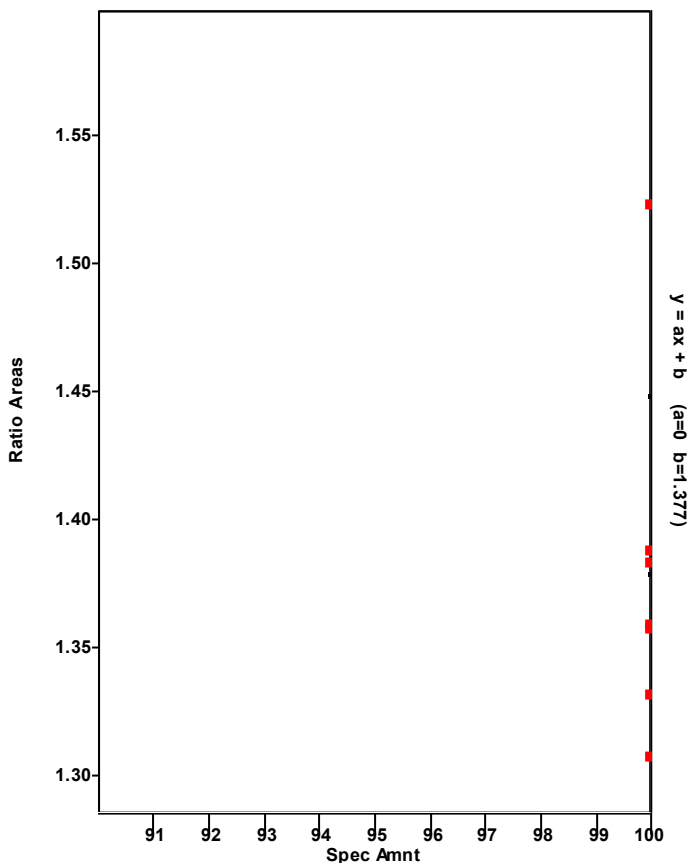
NL:
 2.62E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1312992
RM1 Area	2030077
RM1 Ratio (A)	1.5461
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	69.86
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

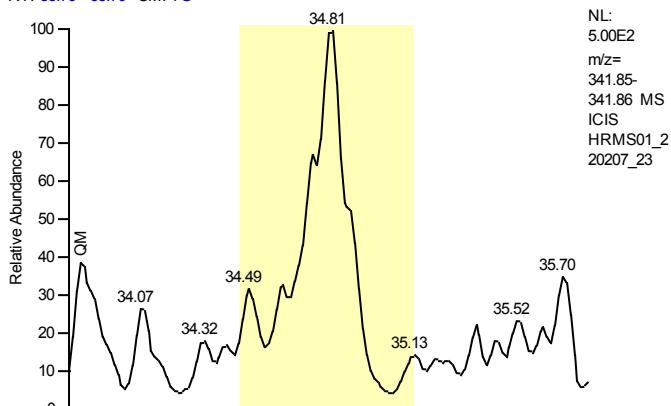
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



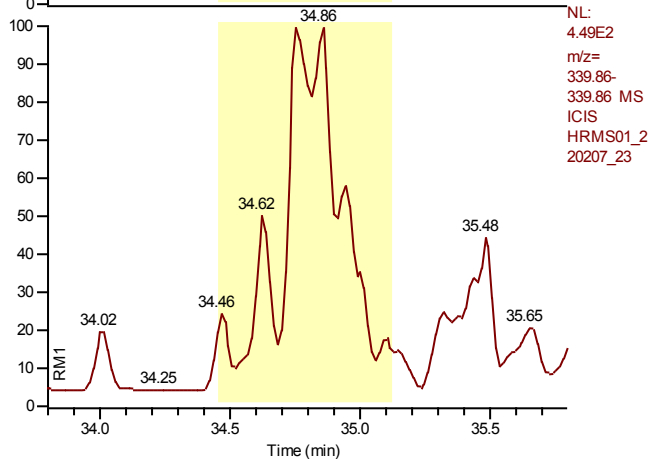
Chromatogram

Entry Parameters

RT: 33.79 - 35.79 SM: 7G



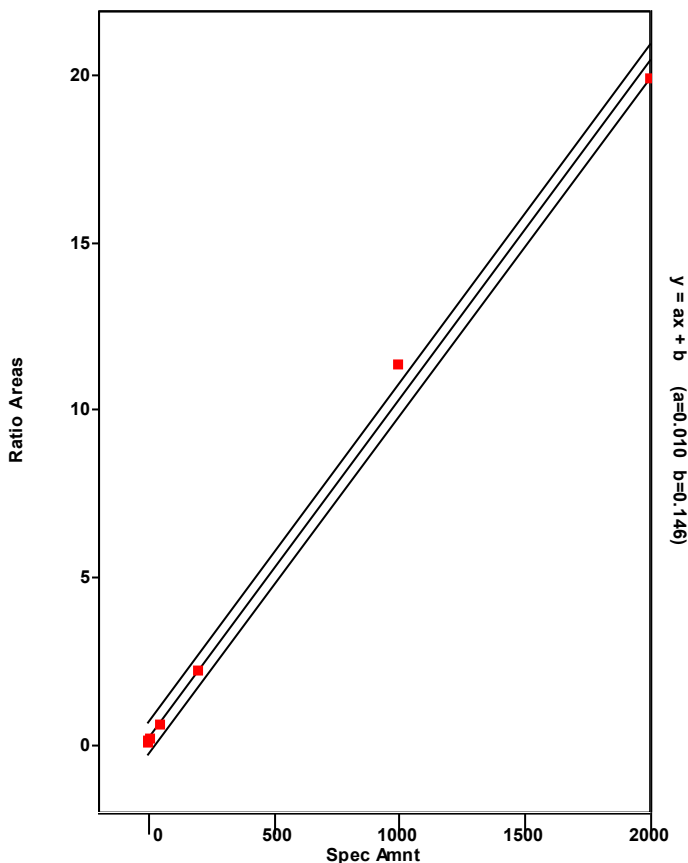
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

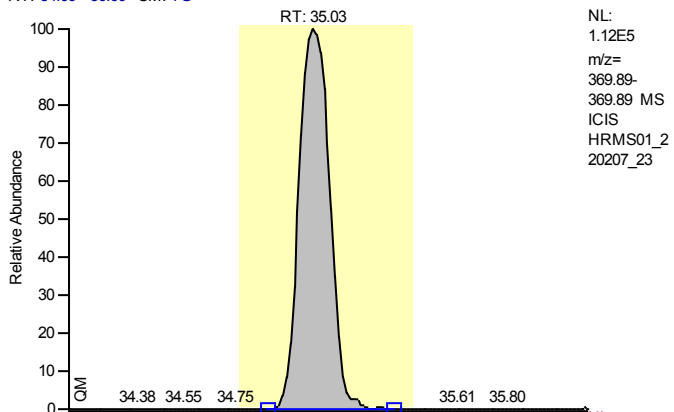
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



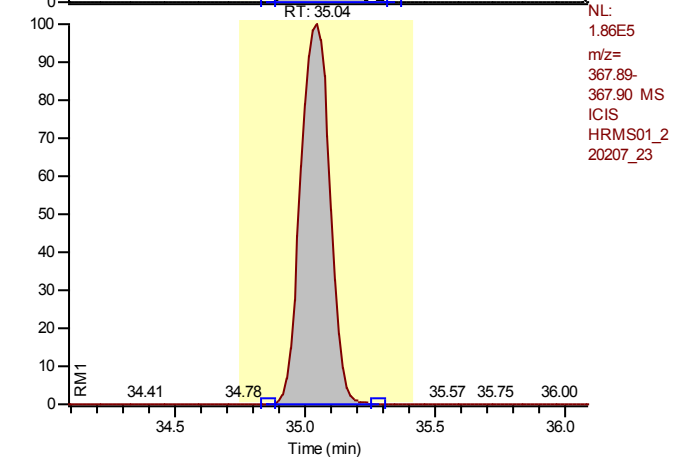
Chromatogram

Entry Parameters

RT: 34.09 - 36.09 SM: 7G



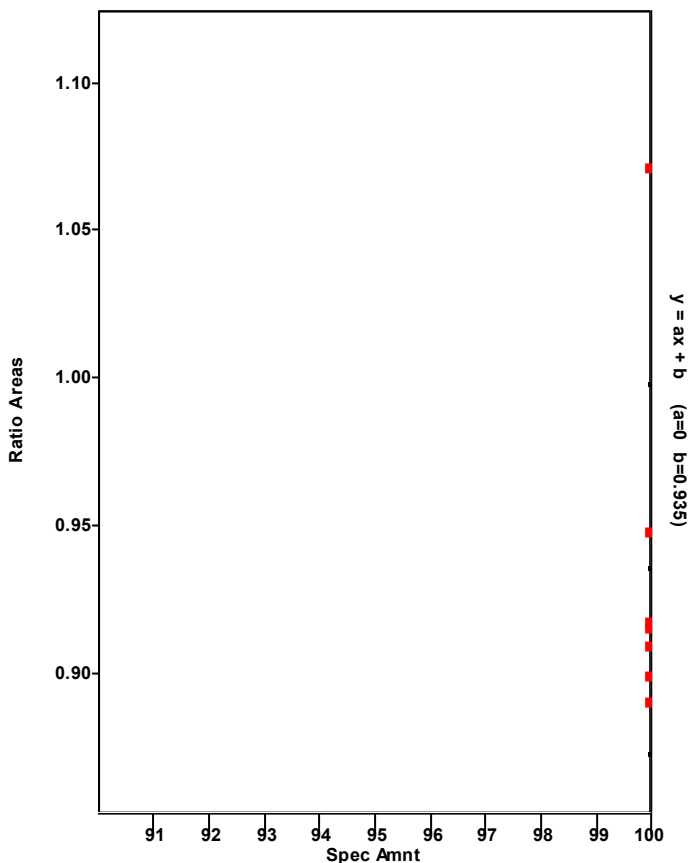
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	927523
RM1 Area	1462587
RM1 Ratio (A)	1.5769
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	73.61
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

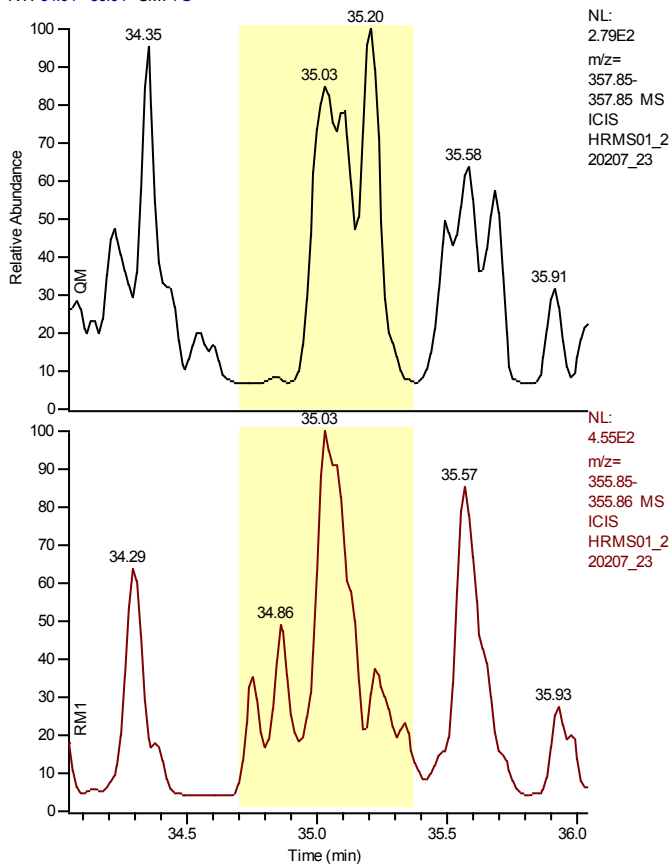
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.04 - 36.04 SM: 7G



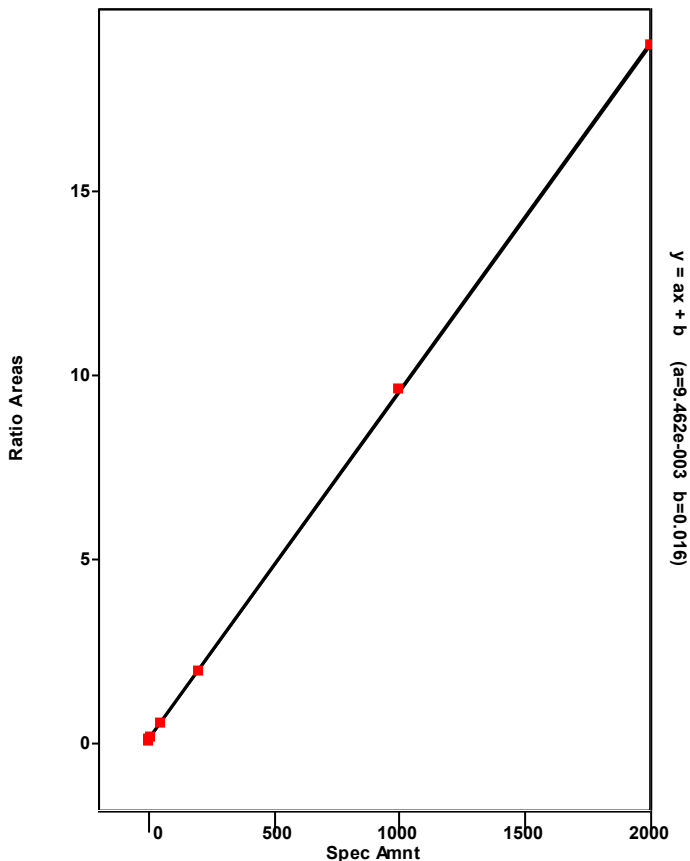
NL:
 2.79E2
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

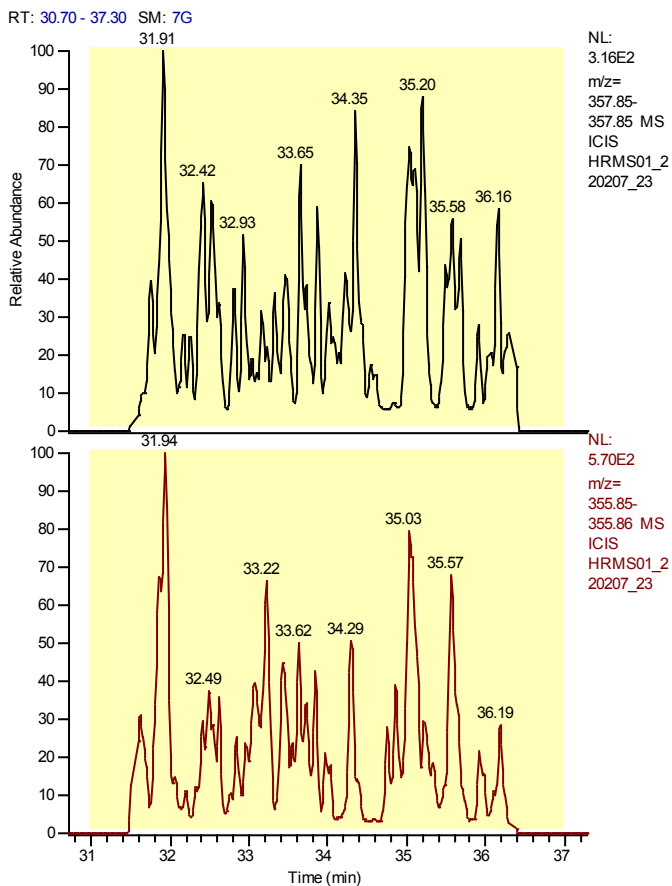
Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

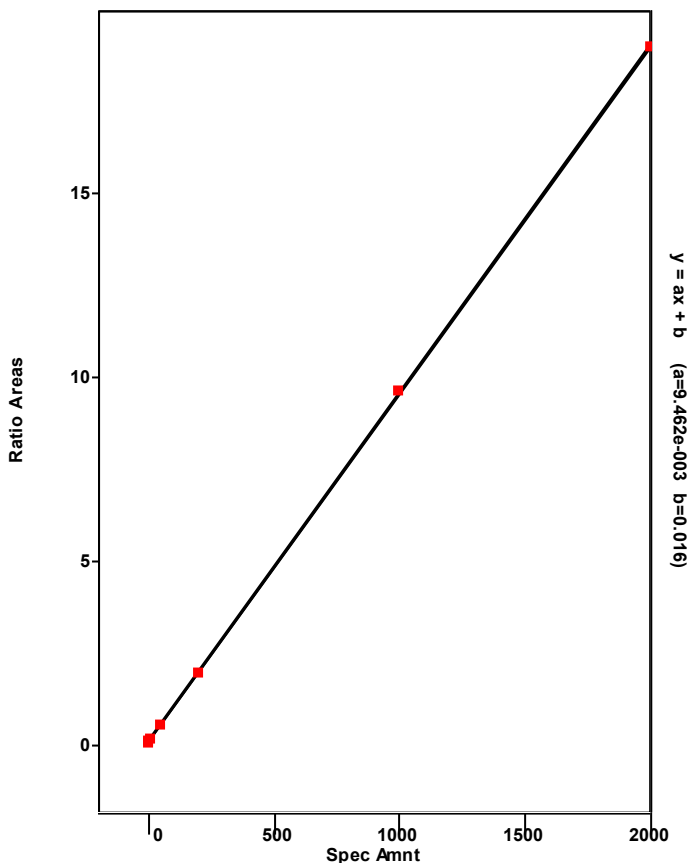


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

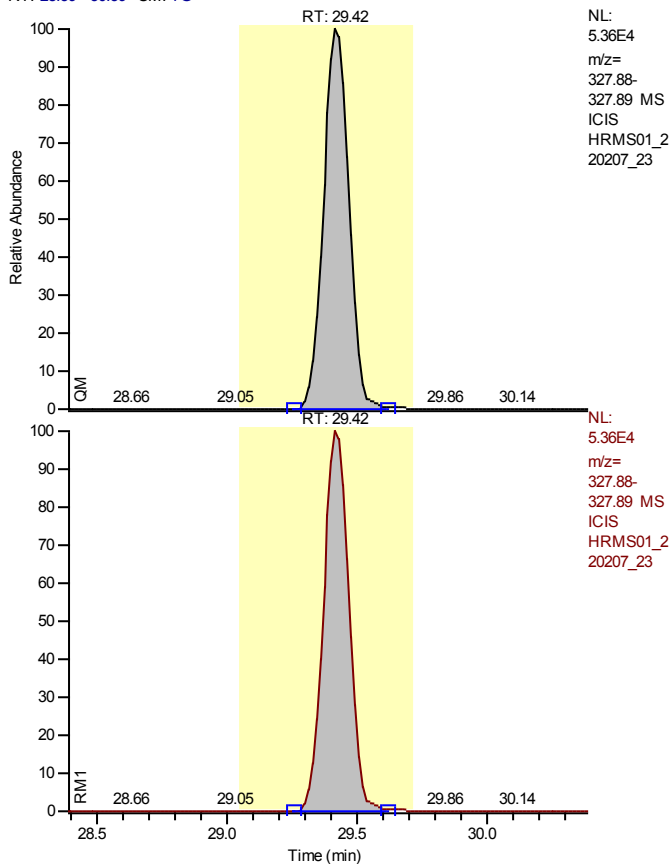
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.39 - 30.39 SM: 7G

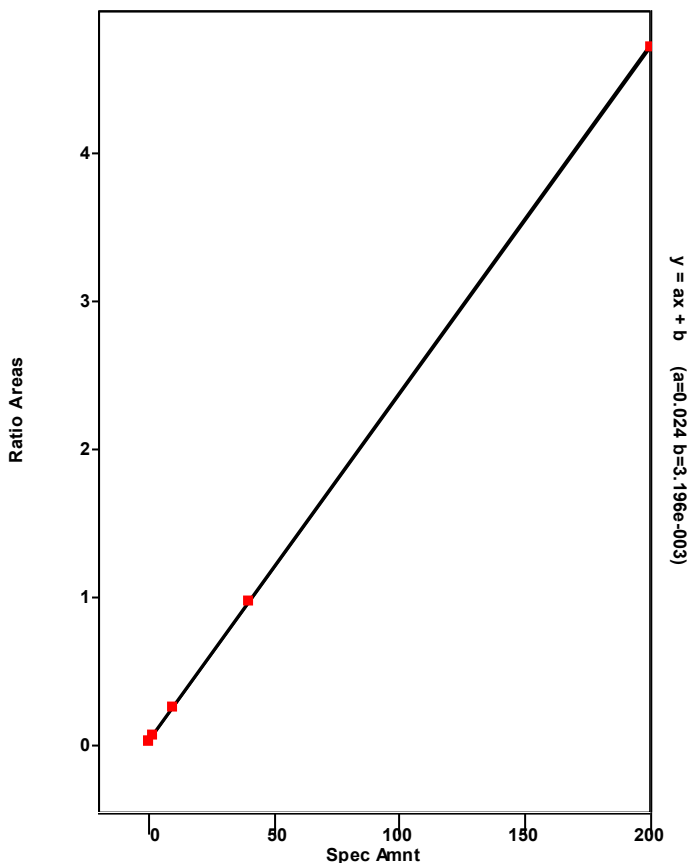


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	376710
RM1 Area	376710
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.00
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

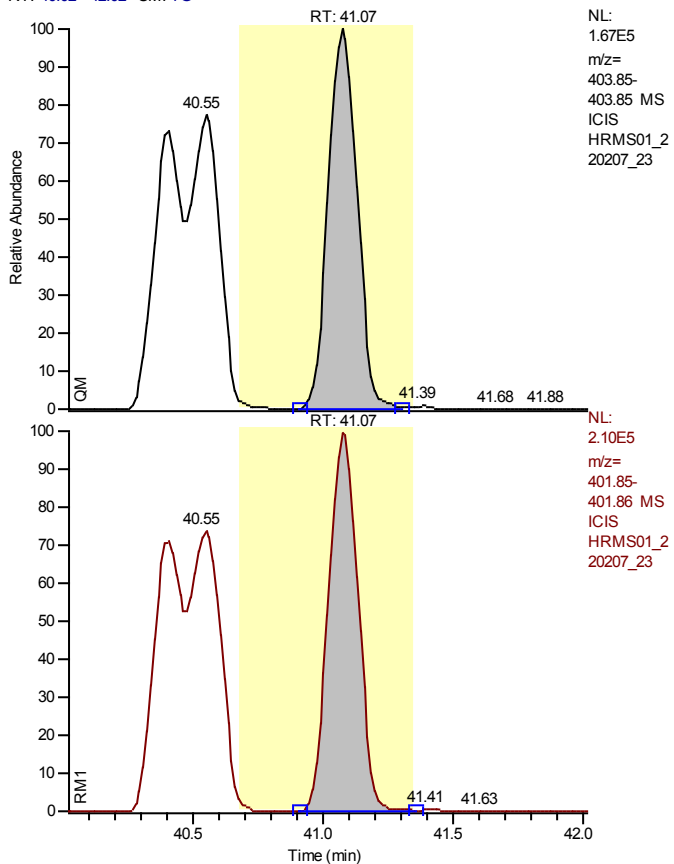
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
 1.67E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_23

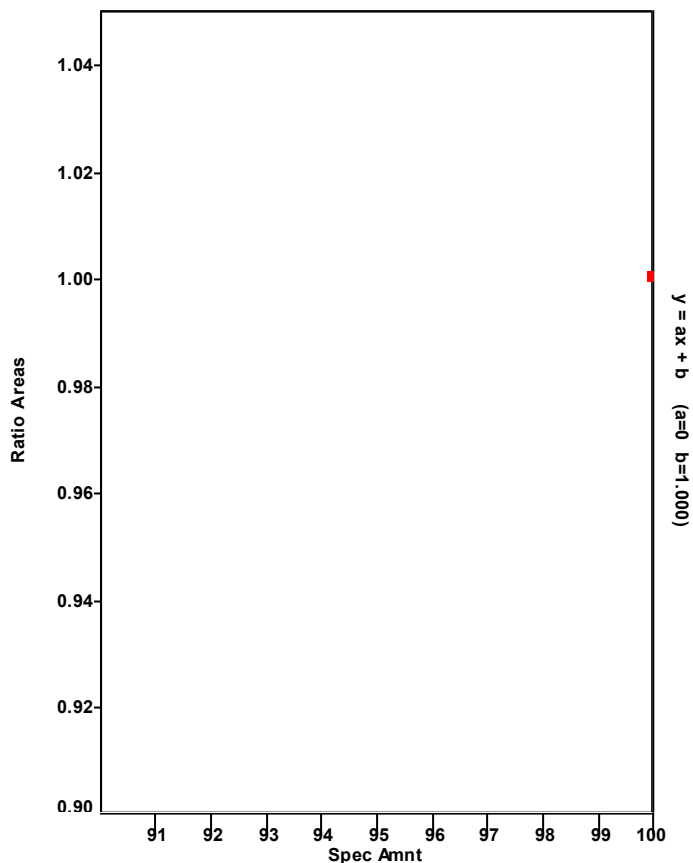
NL:
 2.10E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1301761
RM1 Area	1655727
RM1 Ratio (A)	1.2719
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

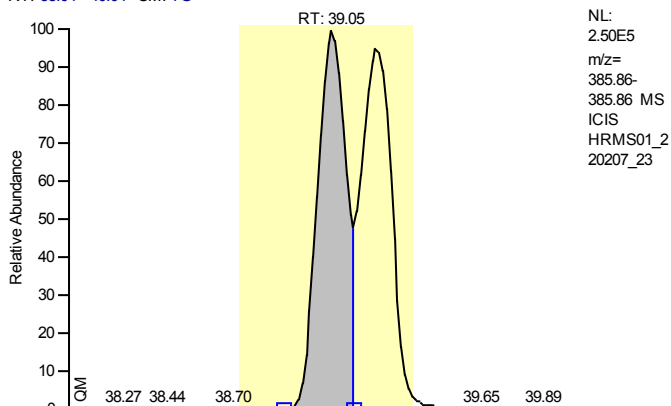
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



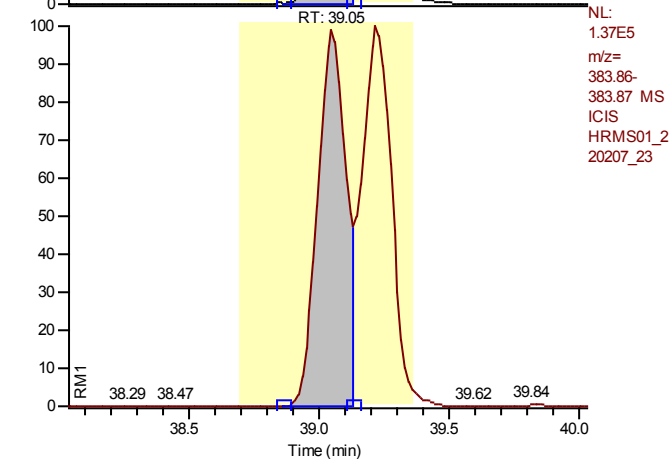
Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



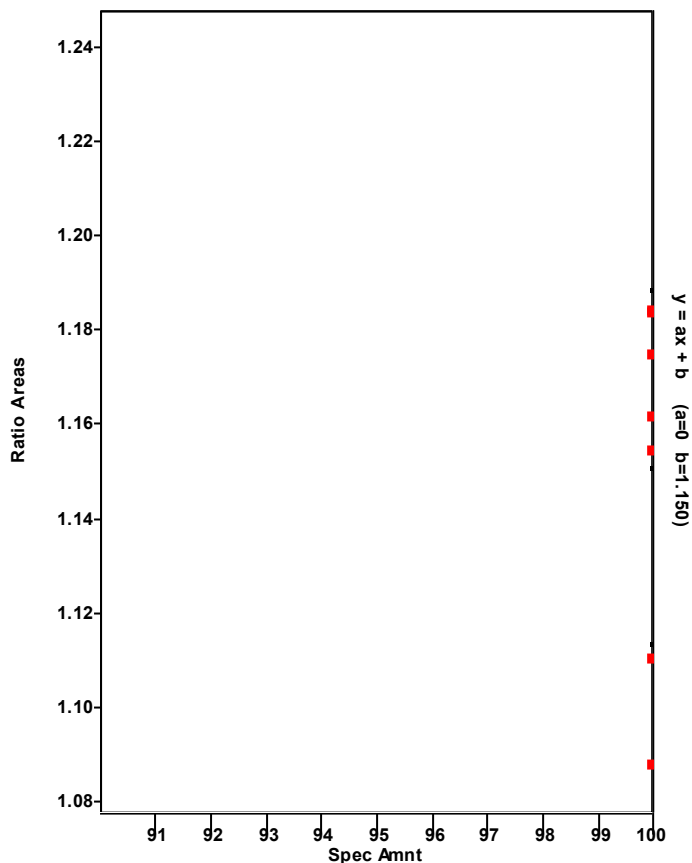
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1913202
RM1 Area	1022934
RM1 Ratio (A)	0.5347
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	86.30
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

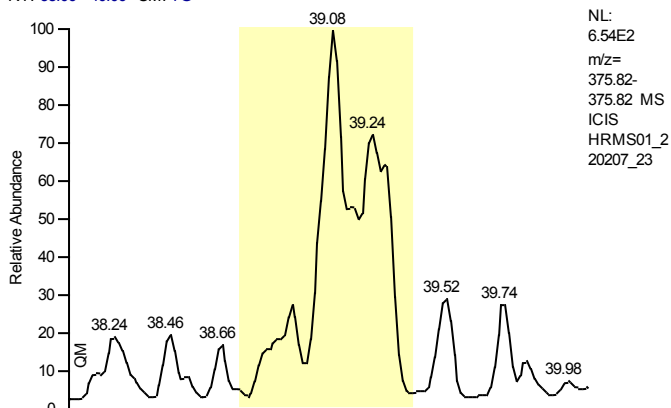
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



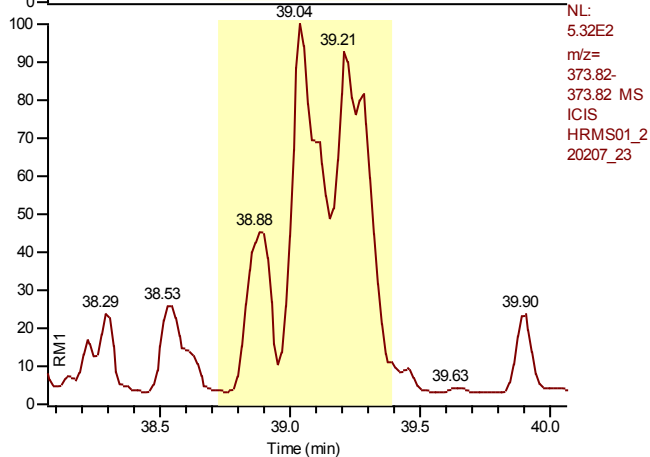
Chromatogram

Entry Parameters

RT: 38.06 - 40.06 SM: 7G



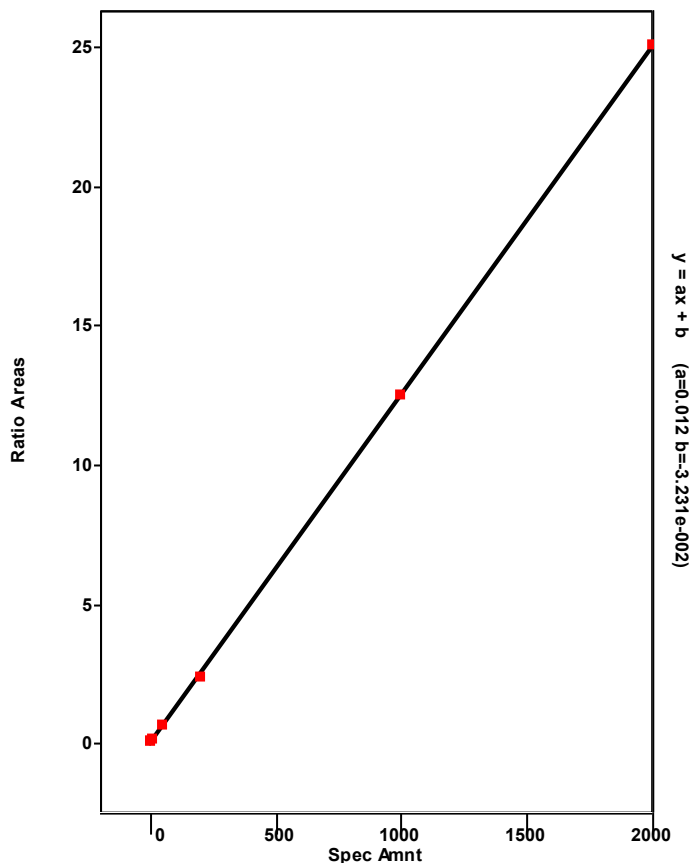
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

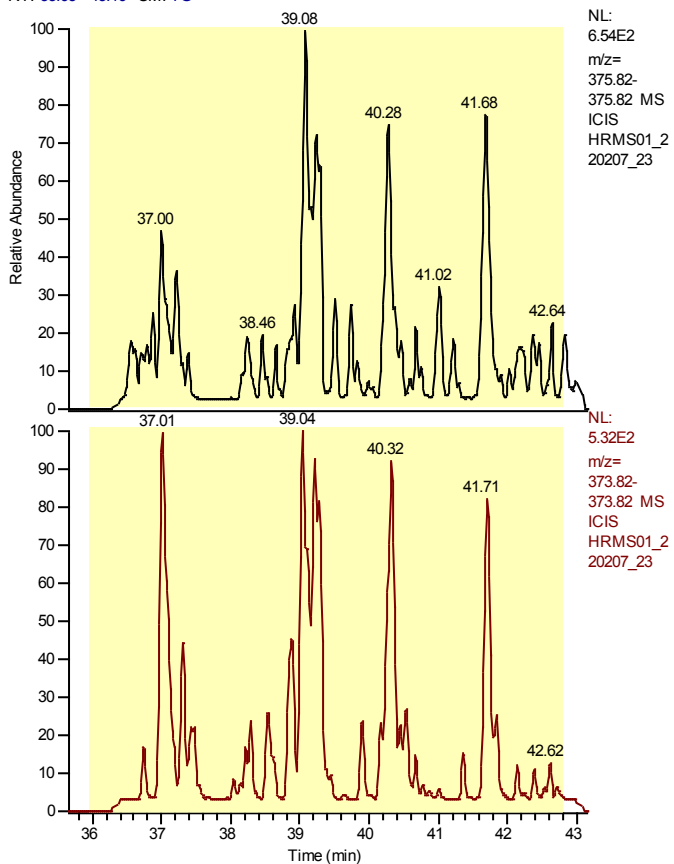
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.65 - 43.16 SM: 7G

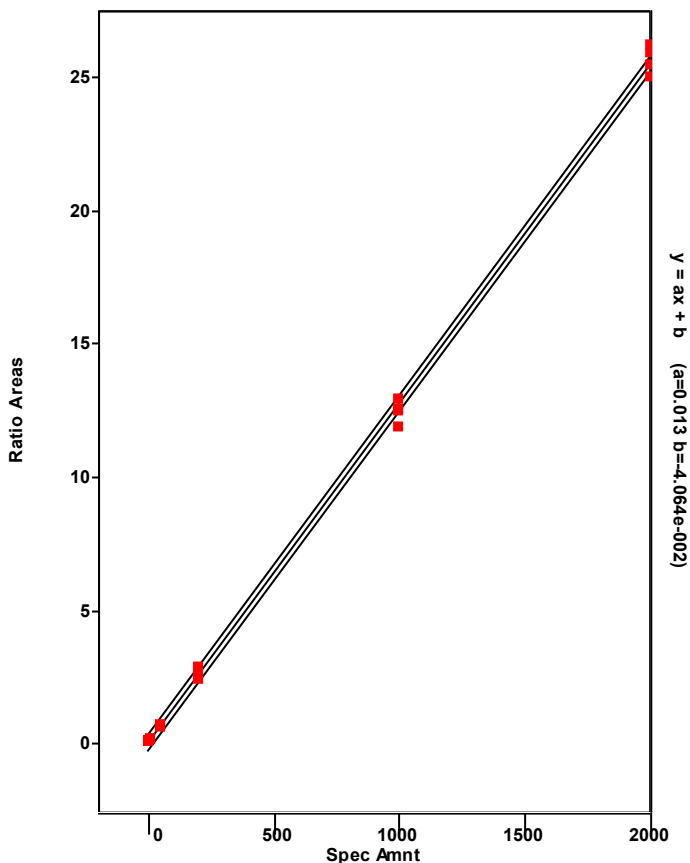


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

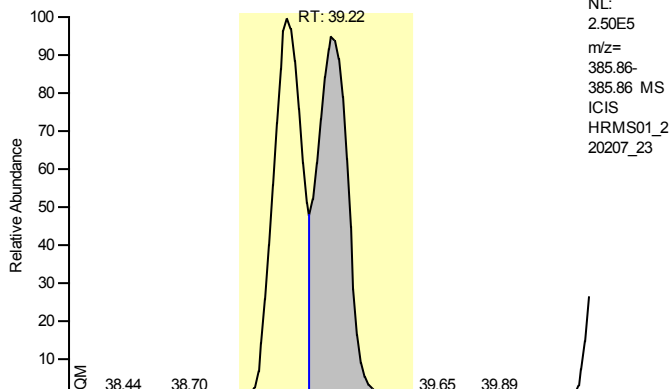
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



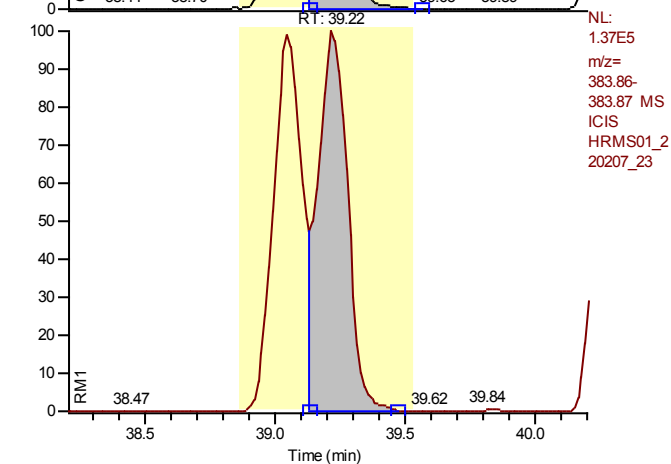
Chromatogram

Entry Parameters

RT: 38.21 - 40.21 SM: 7G



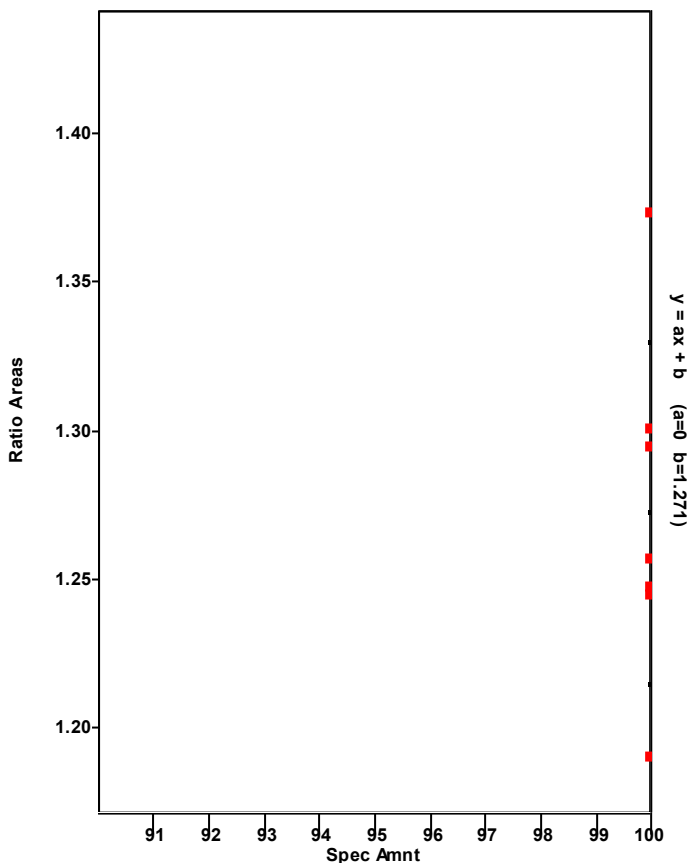
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1960587
RM1 Area	1088441
RM1 Ratio (A)	0.5552
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	81.08
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

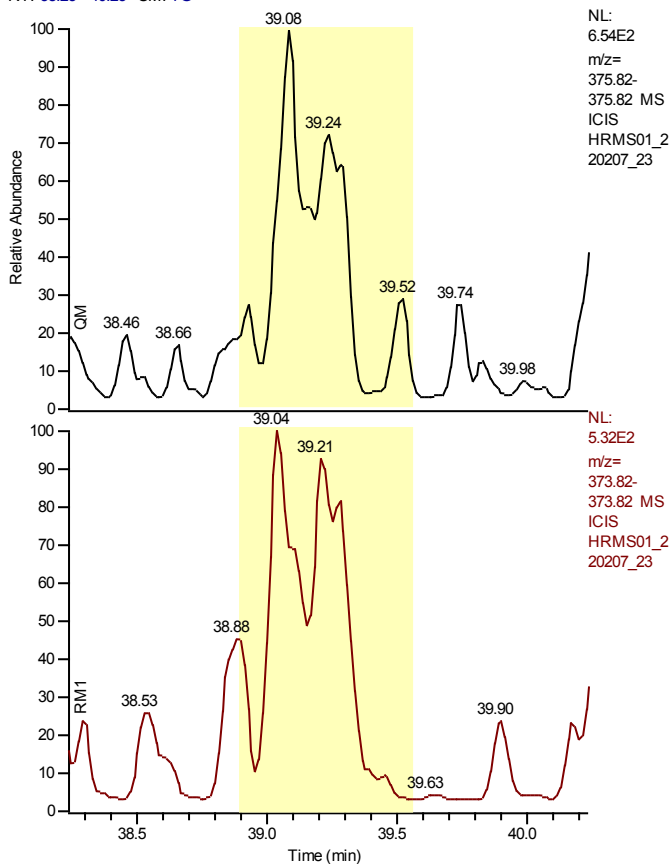
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.23 - 40.23 SM: 7G



NL:
6.54E2
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20207_23

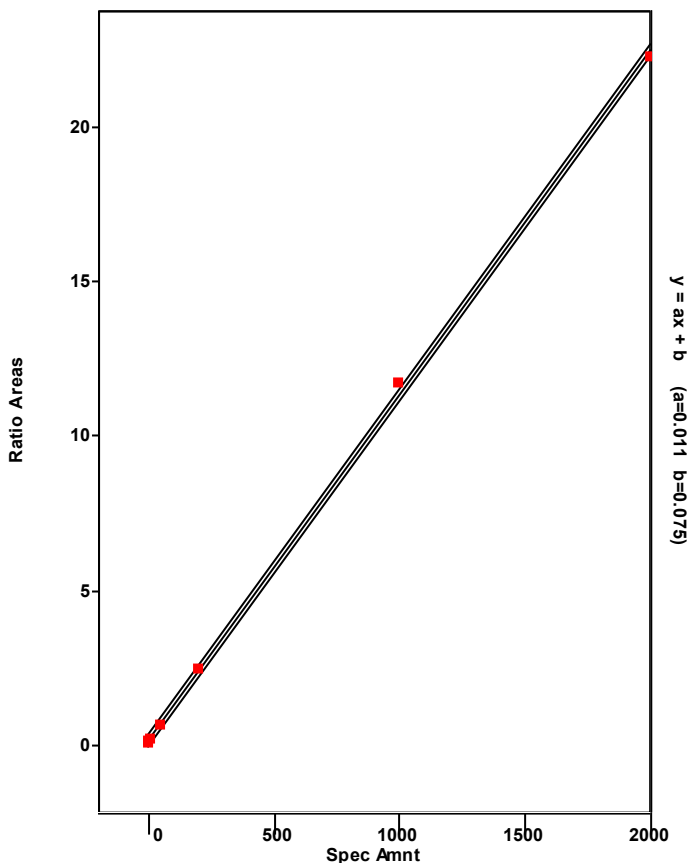
NL:
5.32E2
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20207_23

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

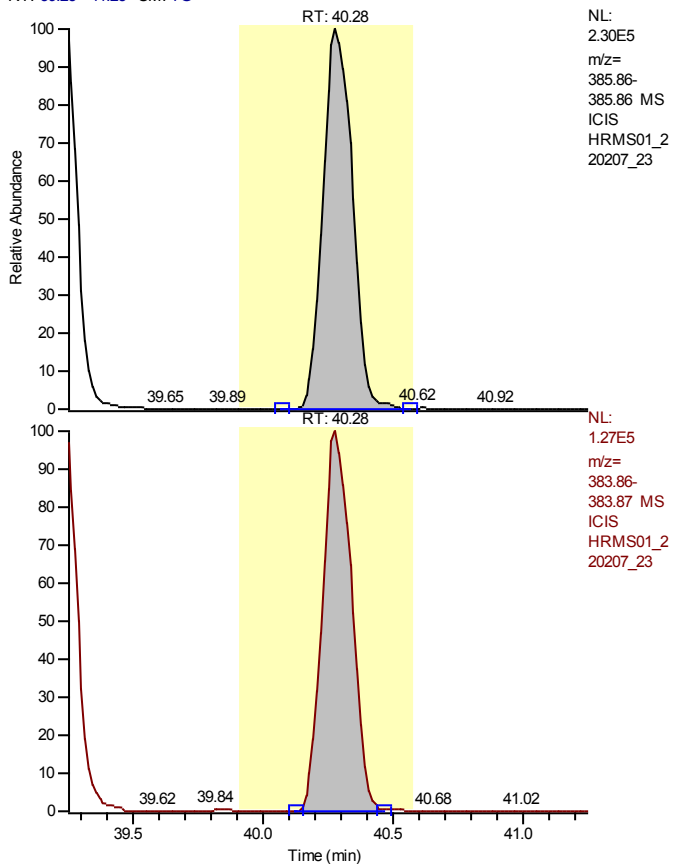
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

Entry Parameters

RT: 39.25 - 41.25 SM: 7G

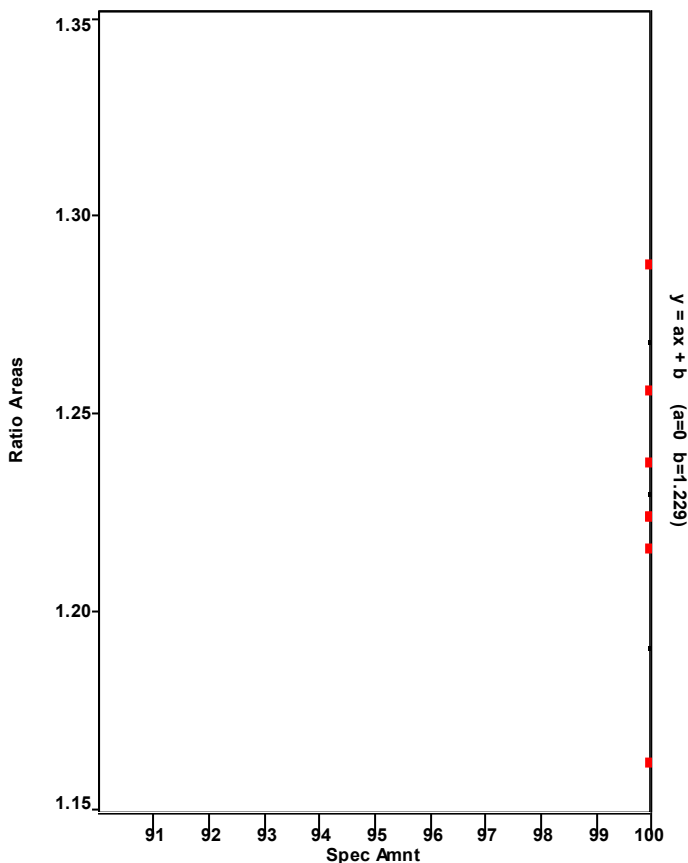


Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1827738
RM1 Area	990063
RM1 Ratio (A)	0.5417
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	77.53
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

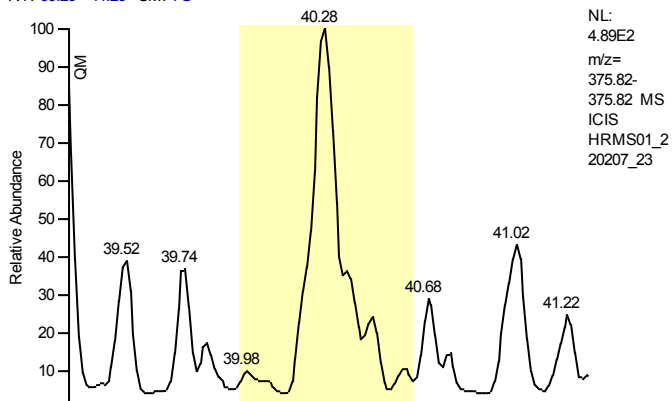
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



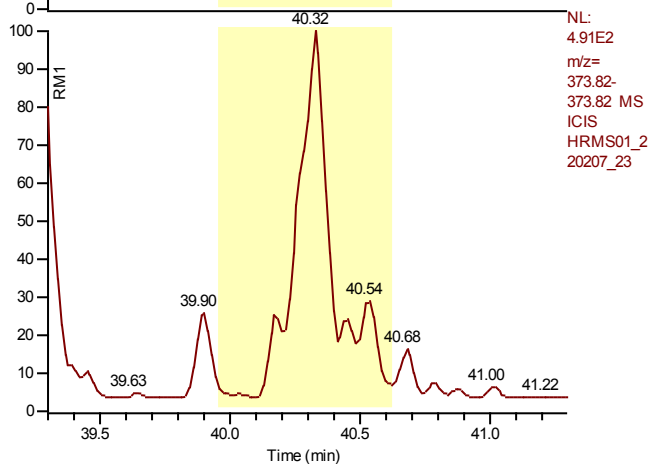
Chromatogram

Entry Parameters

RT: 39.29 - 41.29 SM: 7G



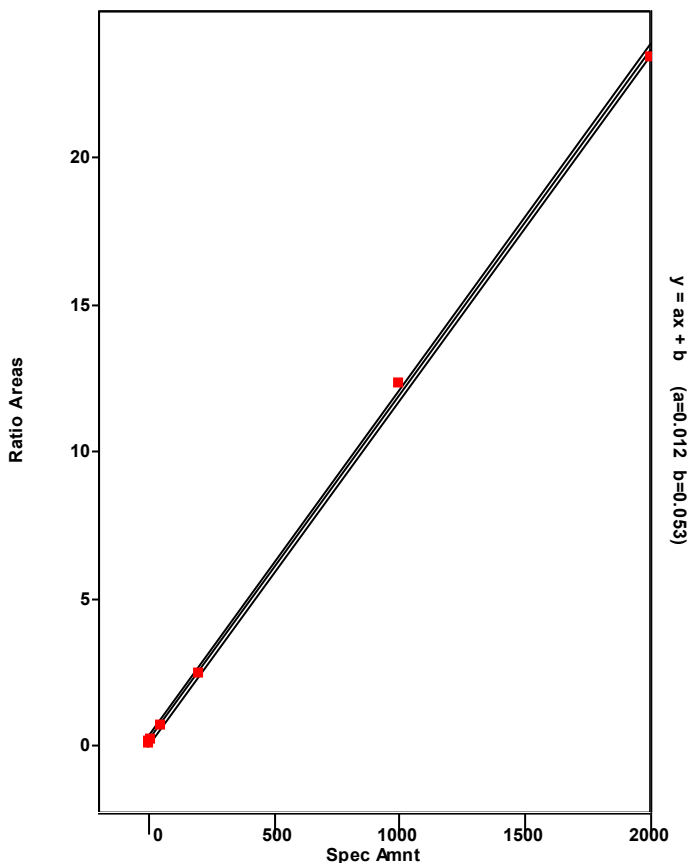
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

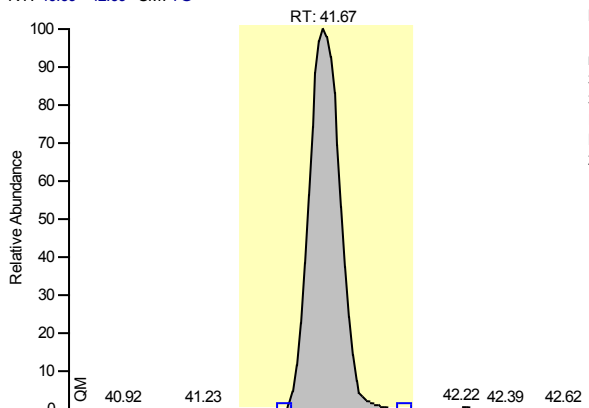
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



Chromatogram

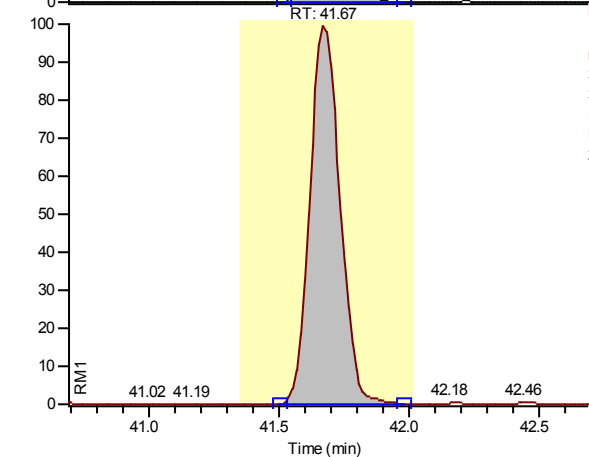
Entry Parameters

RT: 40.69 - 42.69 SM: 7G



NL:
 1.91E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1613131
RM1 Area	871555
RM1 Ratio (A)	0.5403
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	71.30
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

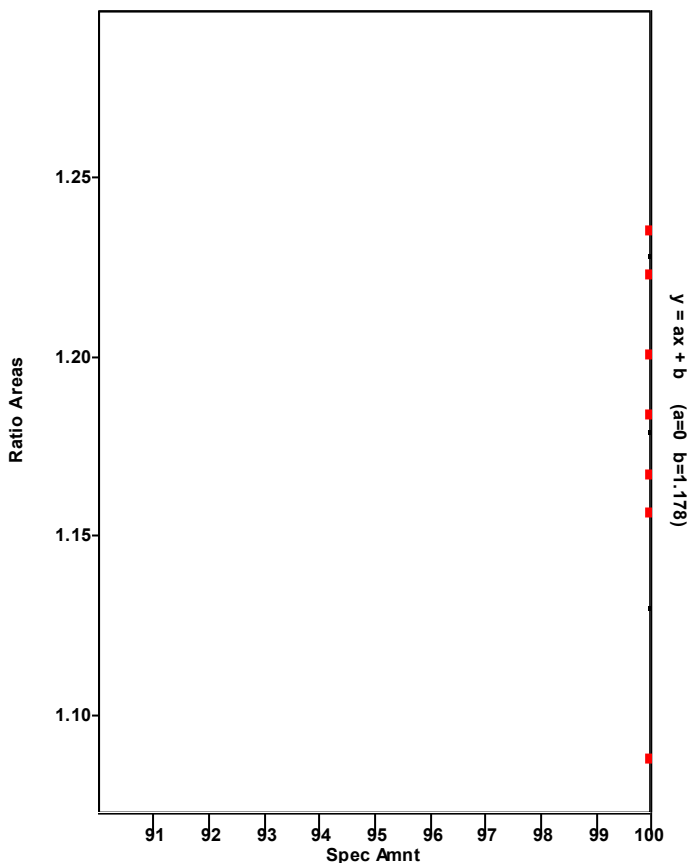


NL:
 1.08E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_23

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

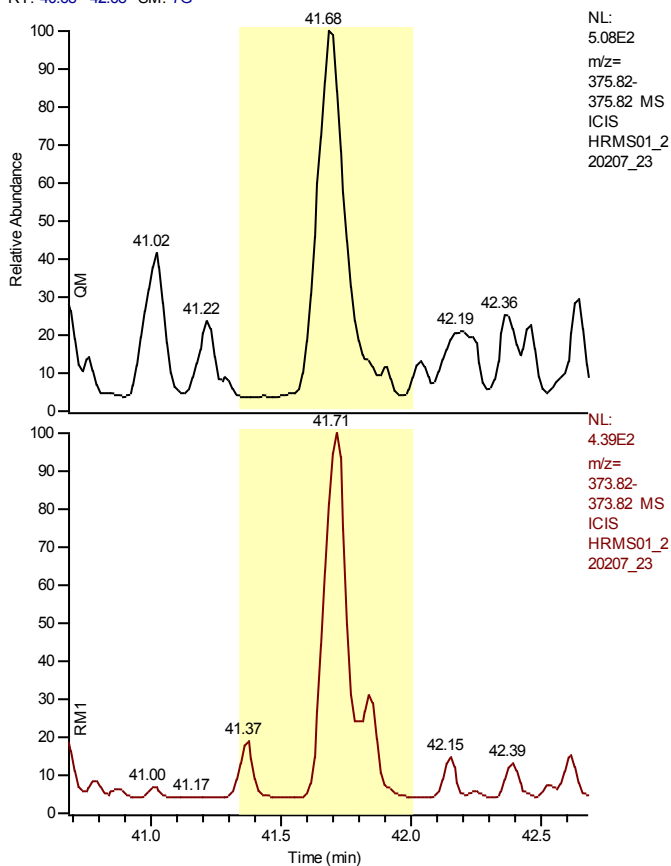
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

Entry Parameters

RT: 40.68 - 42.68 SM: 7G

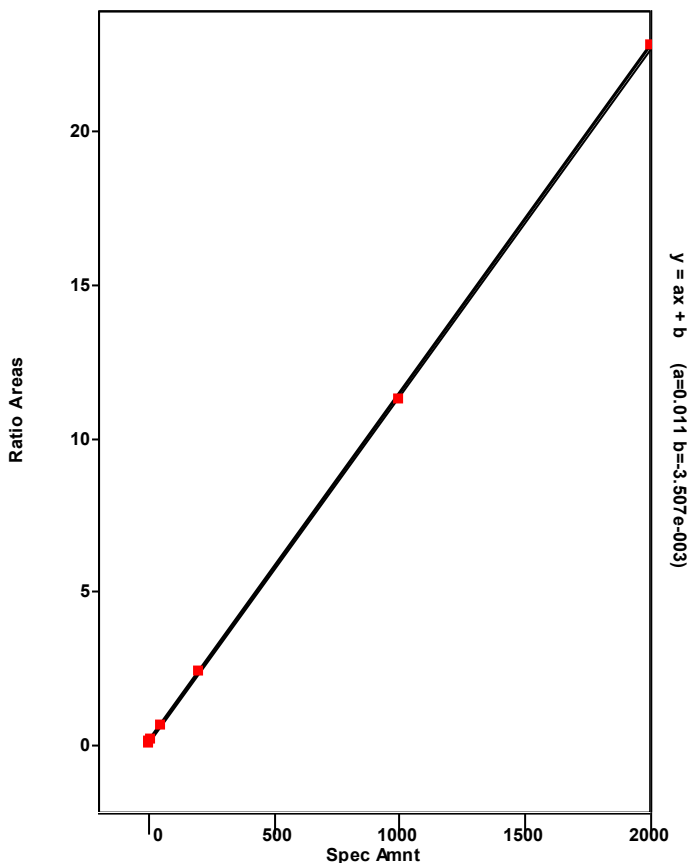


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

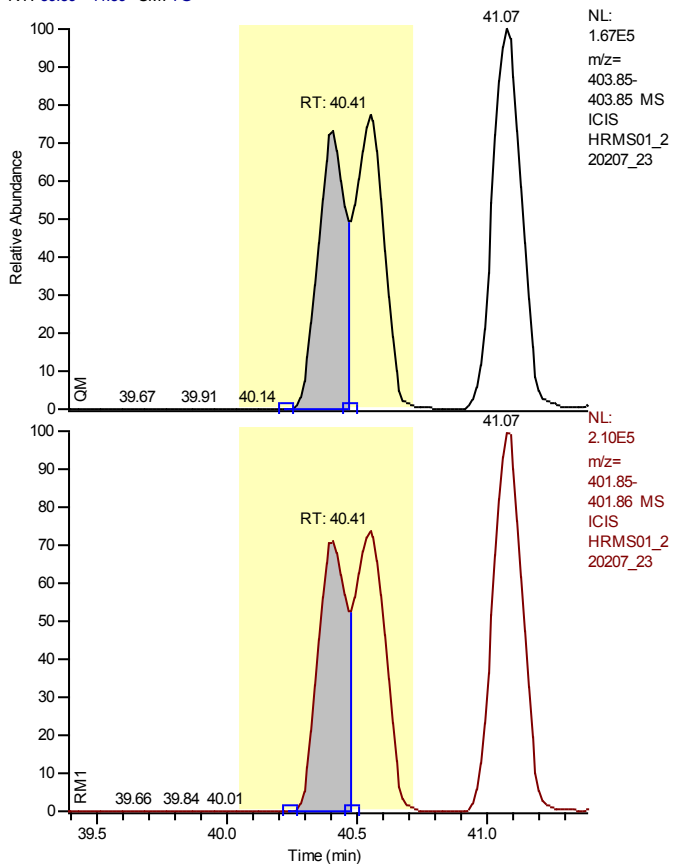
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

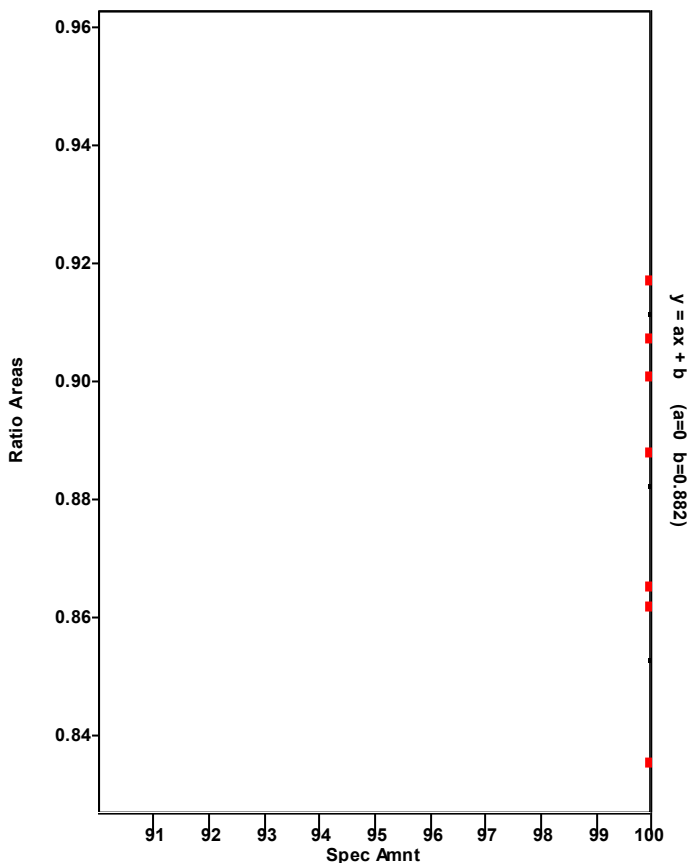
RT: 39.39 - 41.39 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	849354
RM1 Area	1160631
RM1 Ratio (A)	1.3665
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	77.09
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

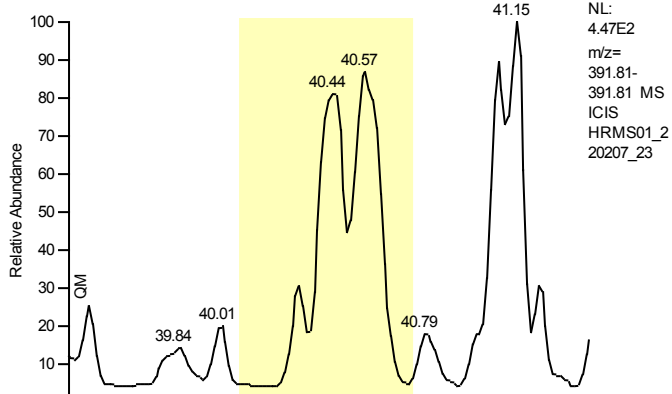
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



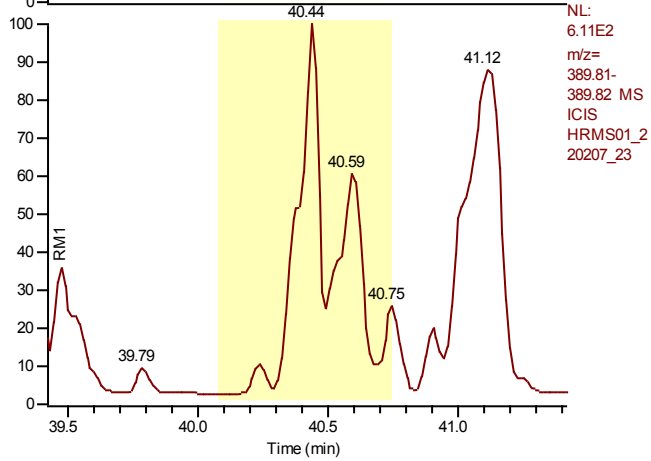
Chromatogram

Entry Parameters

RT: 39.42 - 41.42 SM: 7G



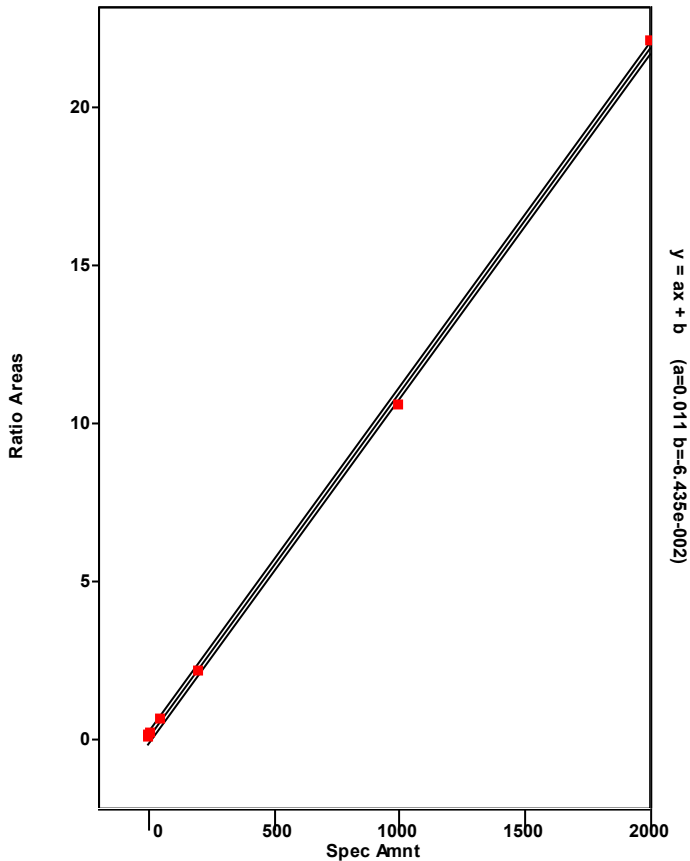
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

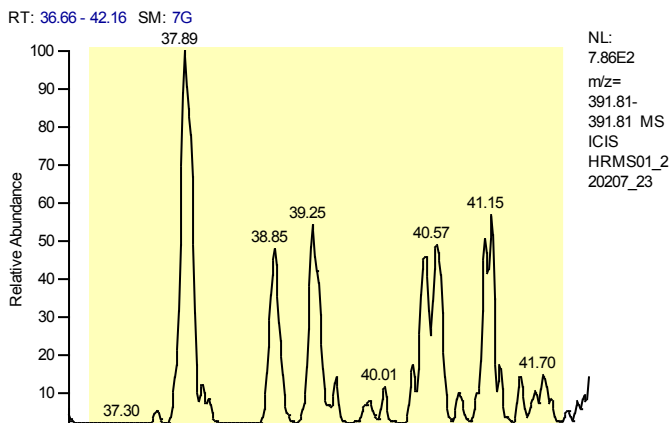
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449

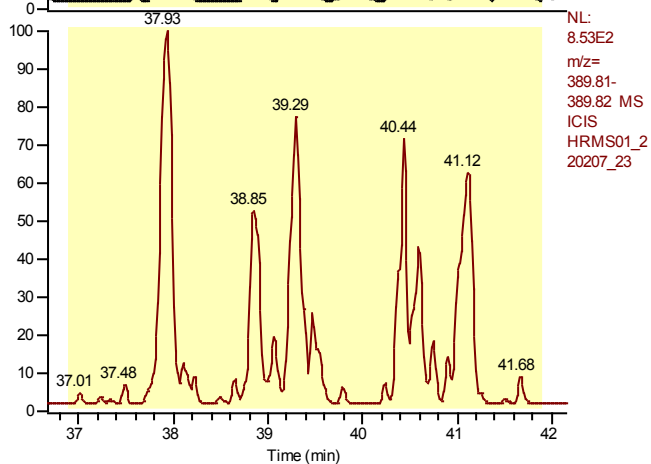


Chromatogram

Entry Parameters



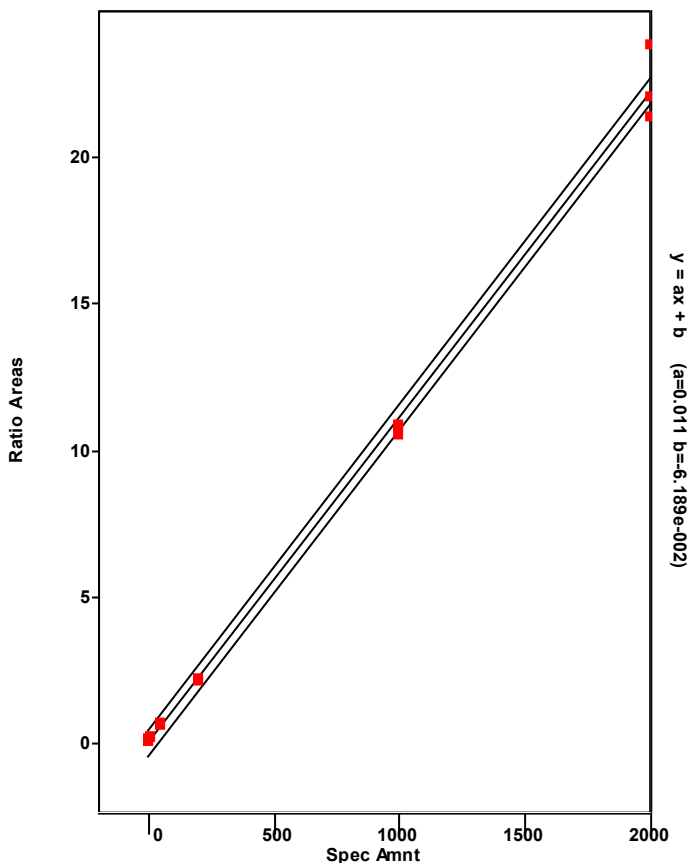
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

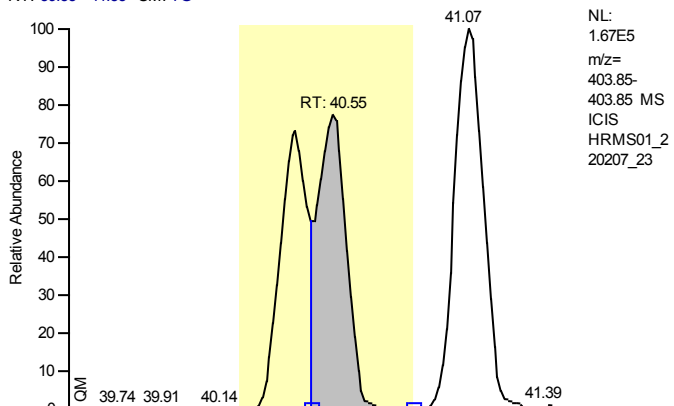
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



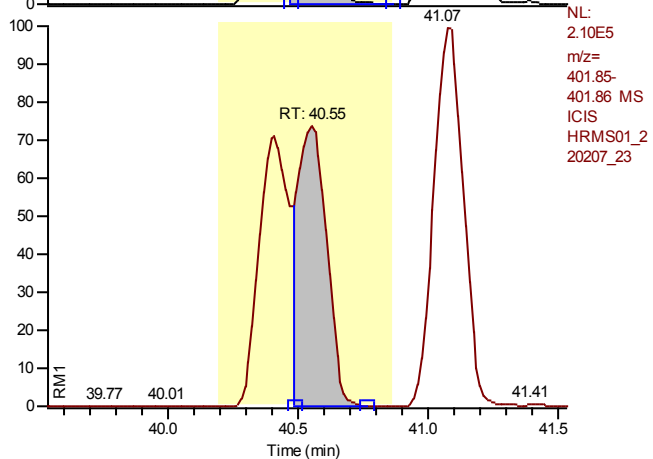
Chromatogram

Entry Parameters

RT: 39.53 - 41.53 SM: 7G

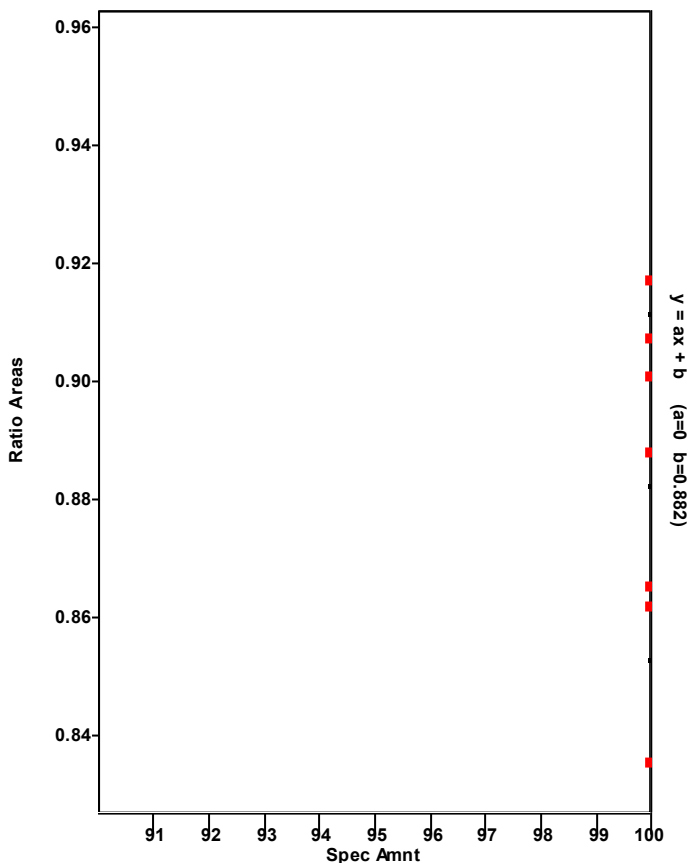


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1026561
RM1 Area	1225171
RM1 Ratio (A)	1.1935
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	86.36
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

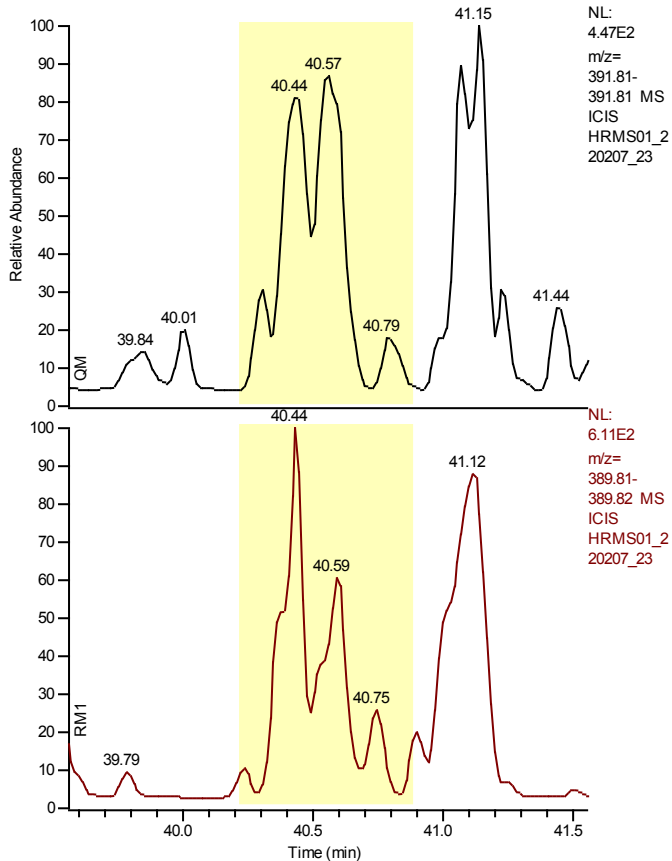
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.56 - 41.56 SM: 7G



NL: 4.47E2
 m/z= 391.81-391.81 MS
 ICIS HRMS01_2 20207_23

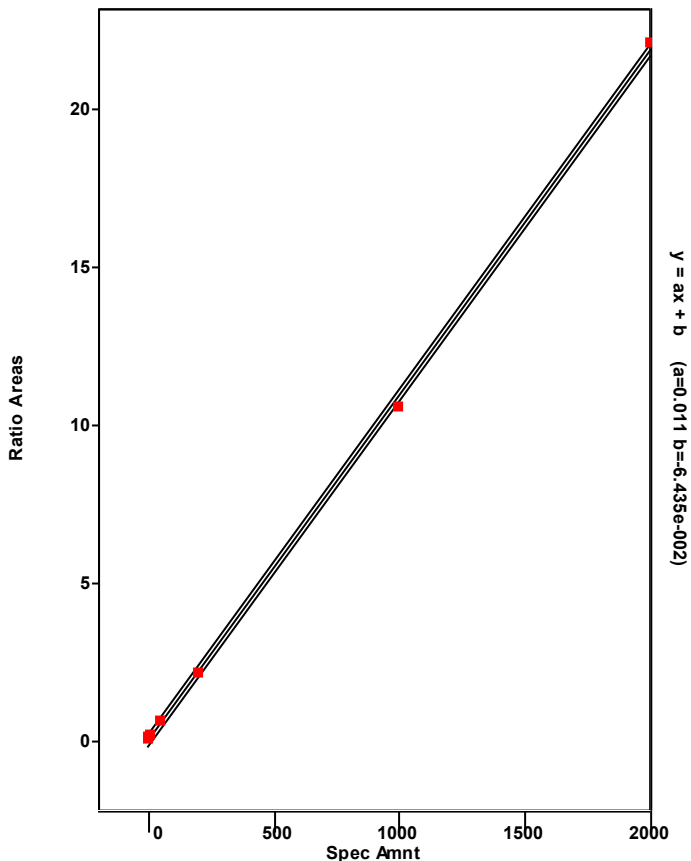
NL: 6.11E2
 m/z= 389.81-389.82 MS
 ICIS HRMS01_2 20207_23

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

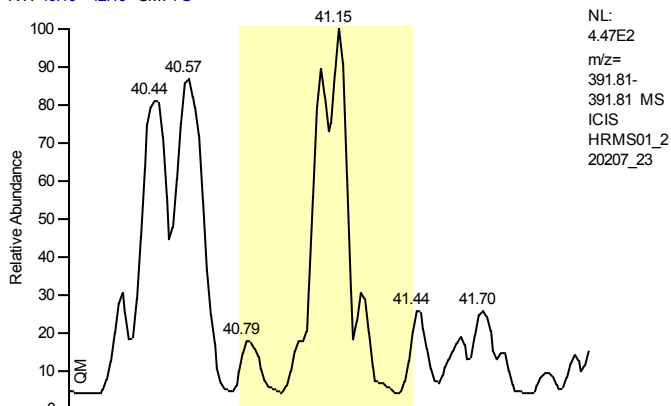
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



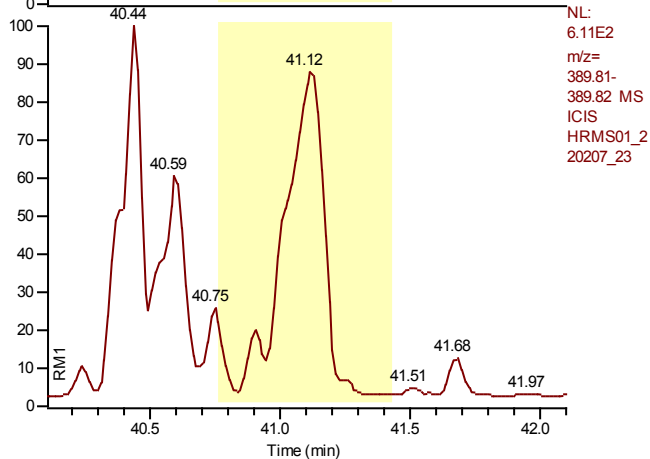
Chromatogram

Entry Parameters

RT: 40.10 - 42.10 SM: 7G



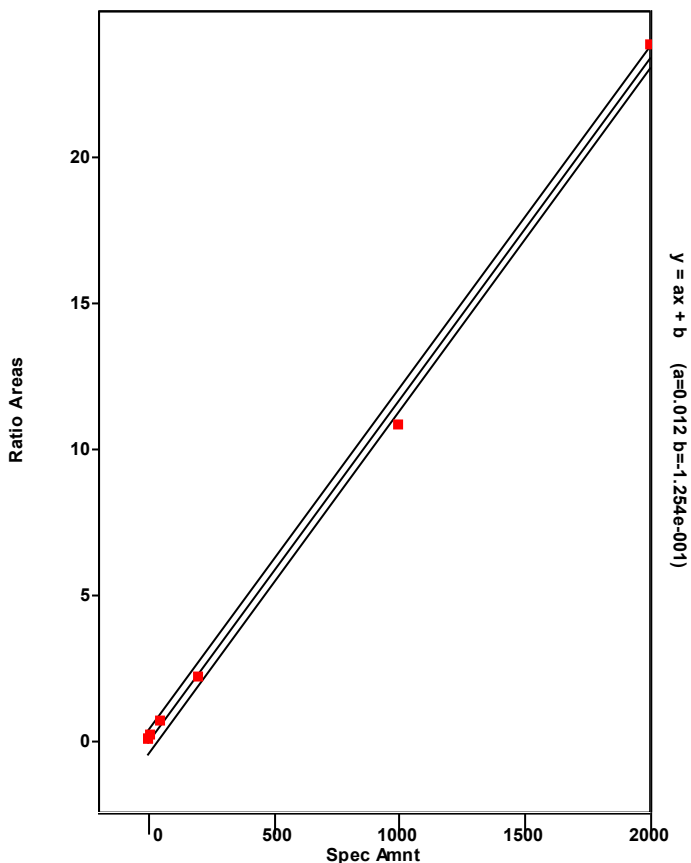
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

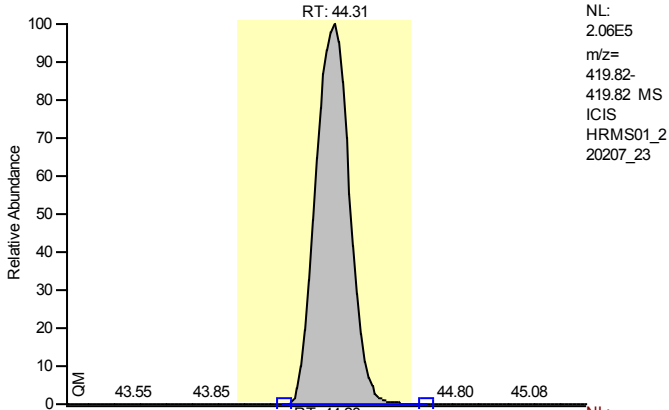
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



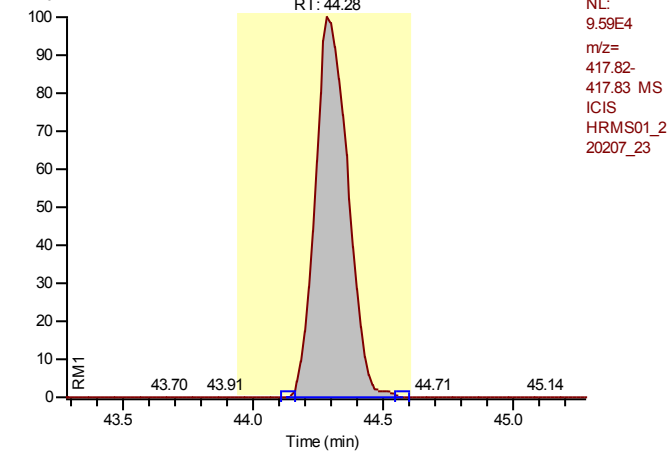
Chromatogram

Entry Parameters

RT: 43.28 - 45.28 SM: 7G

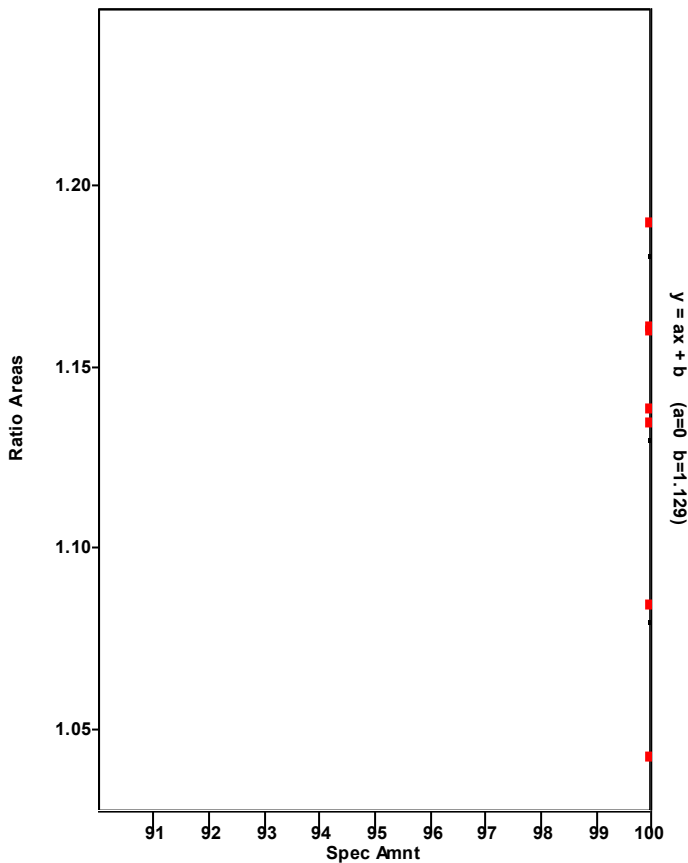


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1888649
RM1 Area	842183
RM1 Ratio (A)	0.4459
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	81.77
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

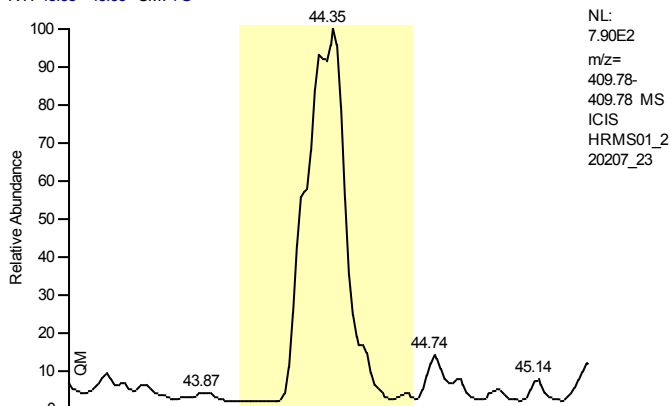
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

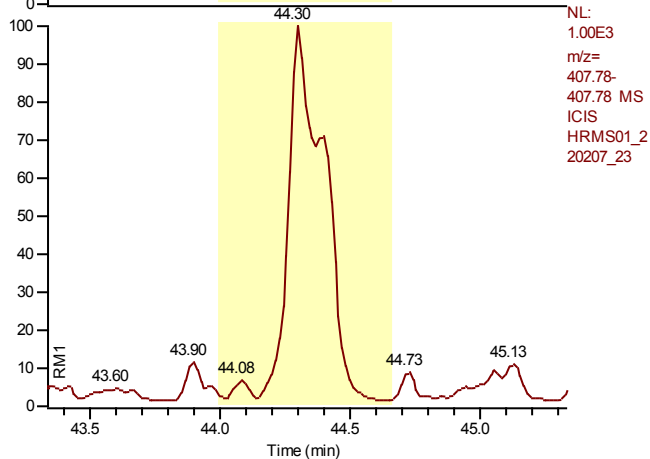
Entry Parameters

RT: 43.33 - 45.33 SM: 7G



NL:
 7.90E2
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

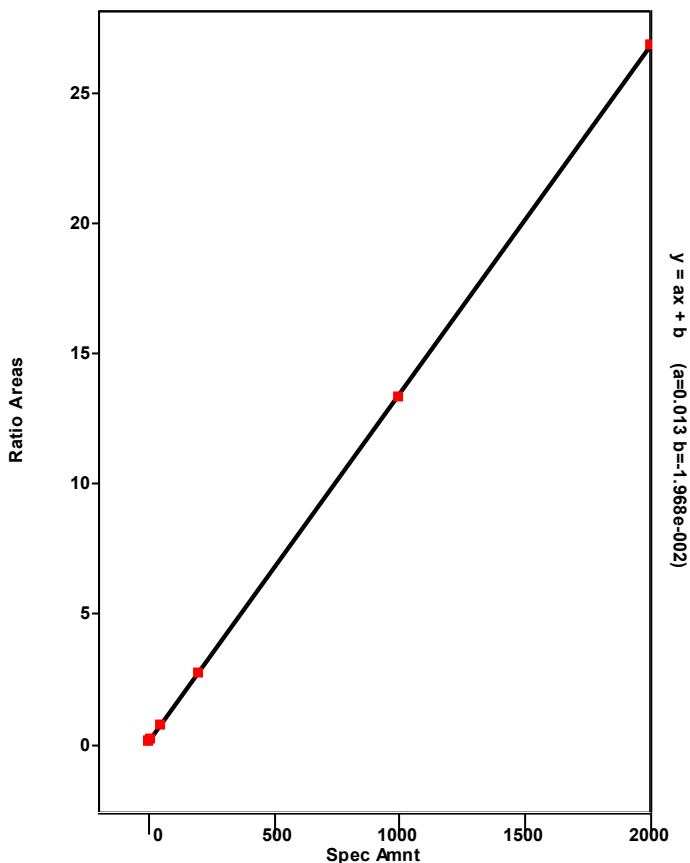


NL:
 1.00E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_23

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

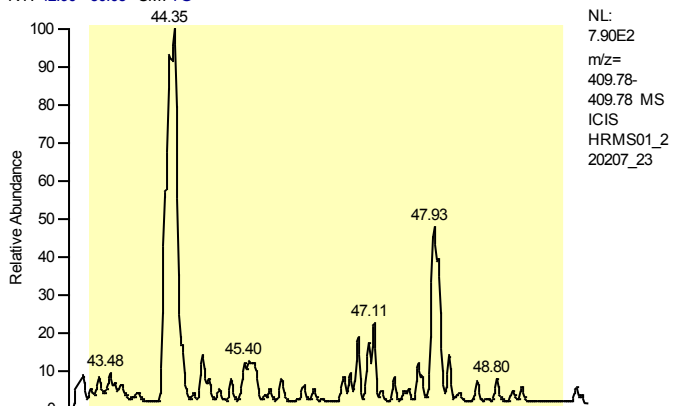
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



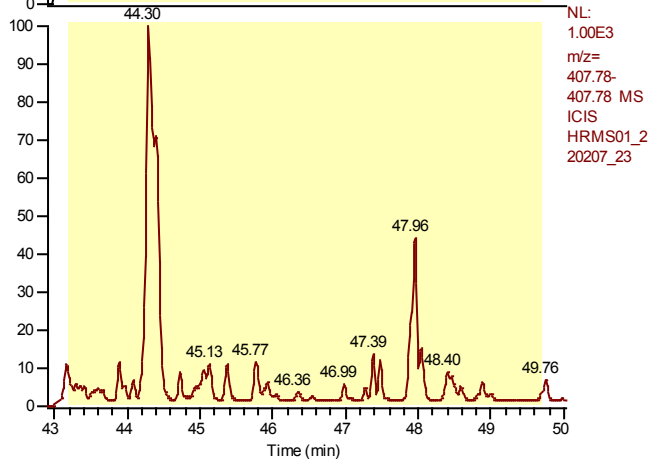
Chromatogram

Entry Parameters

RT: 42.90 - 50.05 SM: 7G



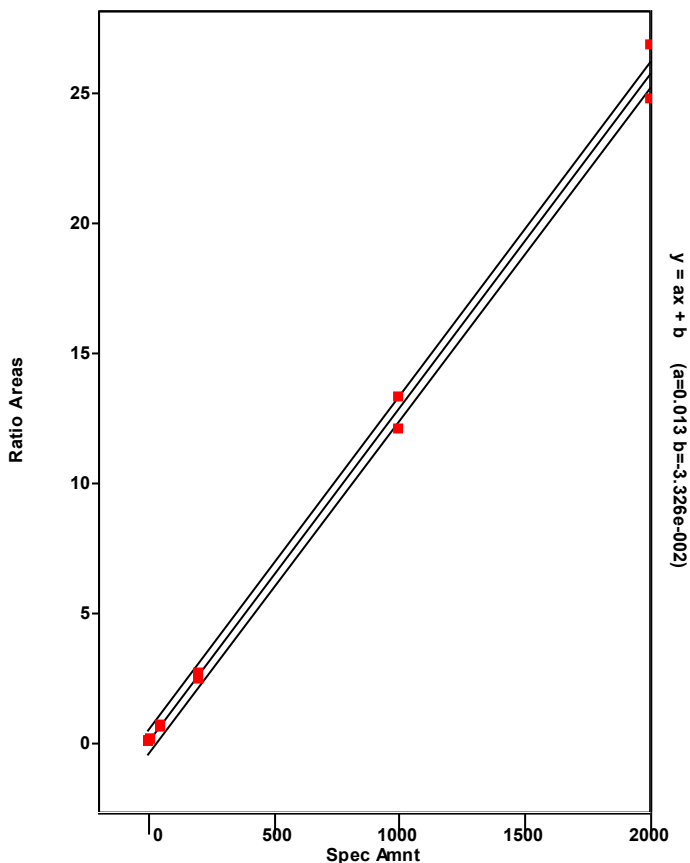
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

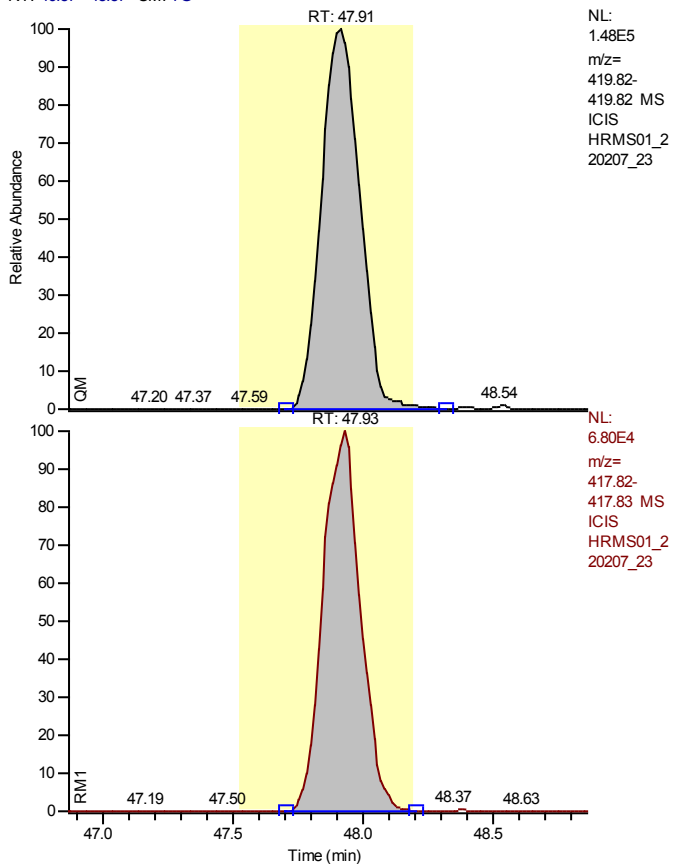
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

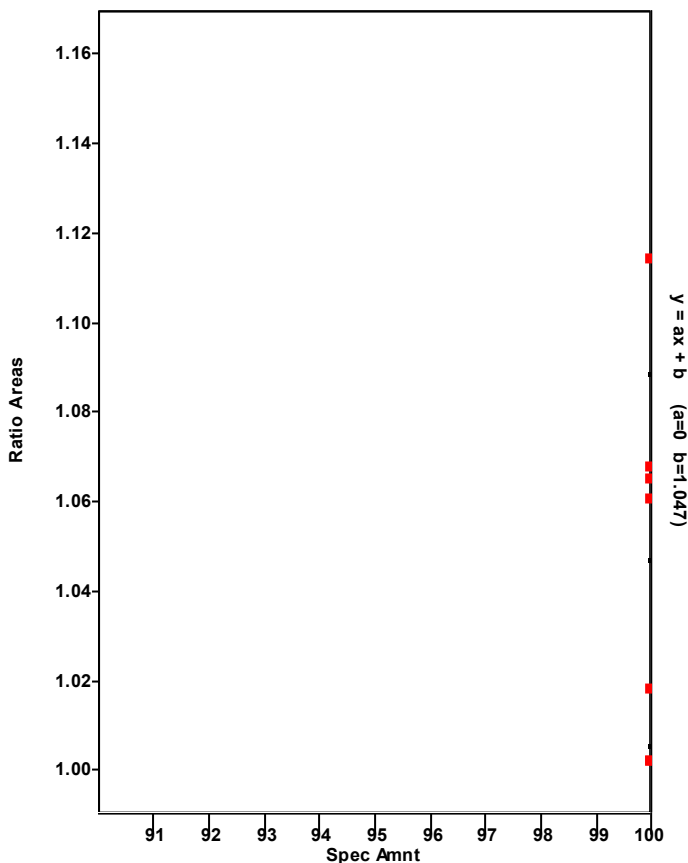
RT: 46.87 - 48.87 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1527113
RM1 Area	682061
RM1 Ratio (A)	0.4466
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	71.38
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

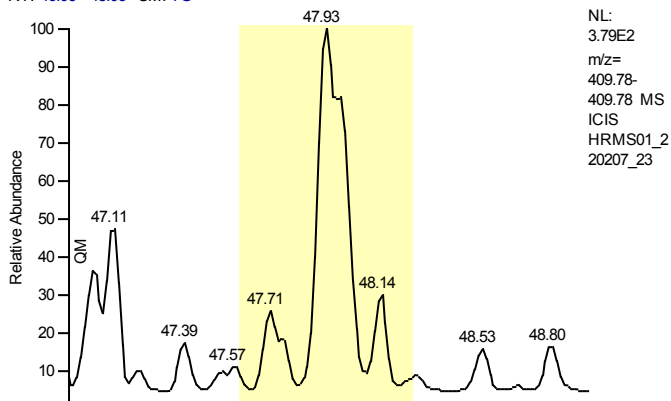
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



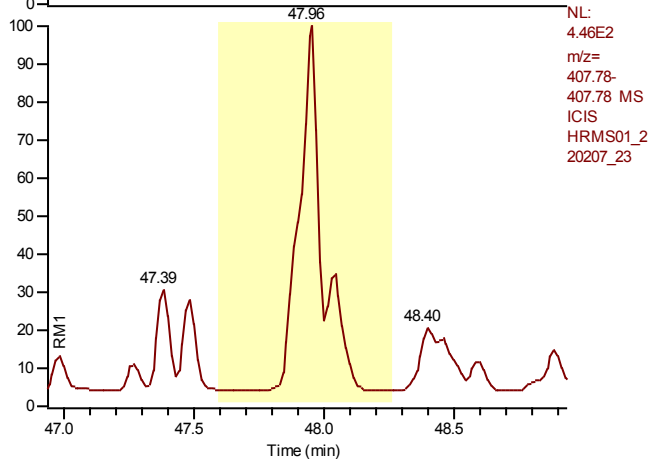
Chromatogram

Entry Parameters

RT: 46.93 - 48.93 SM: 7G



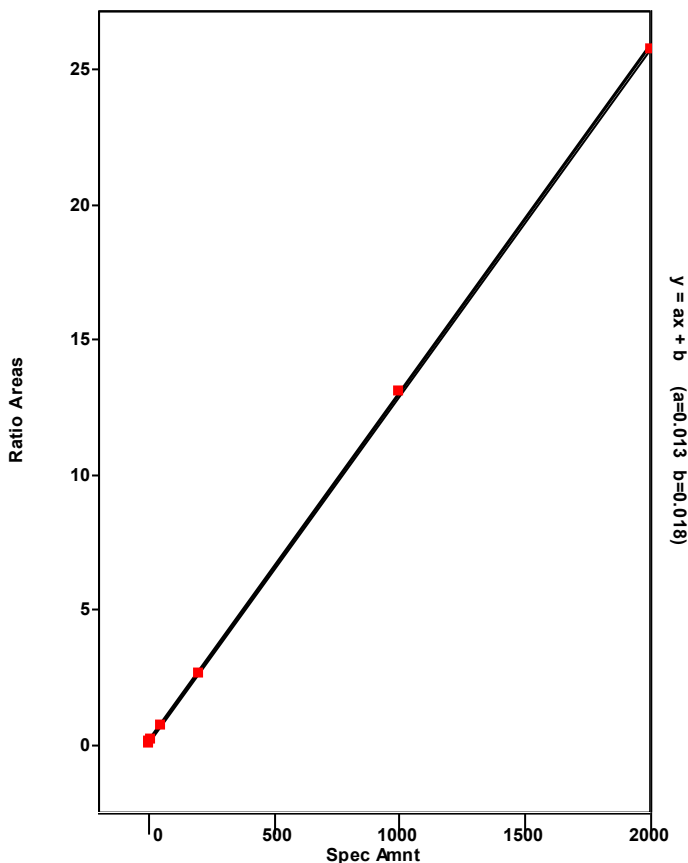
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

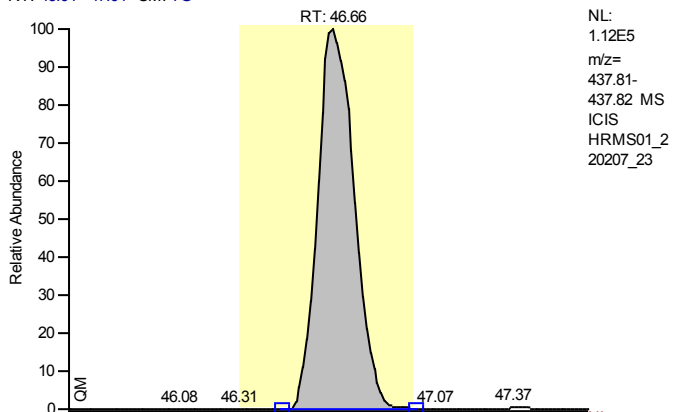
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

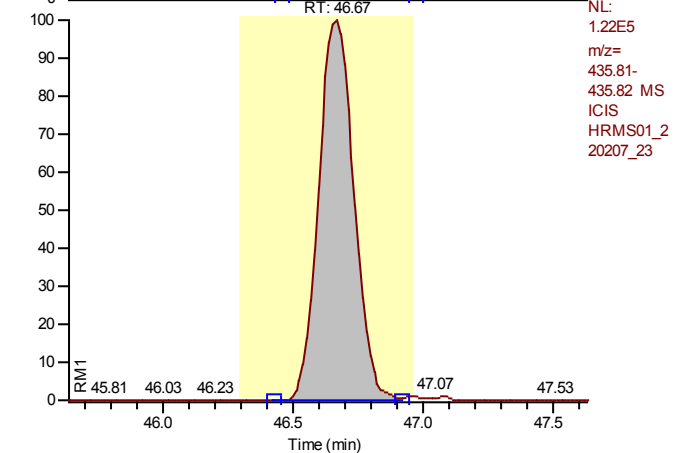
Entry Parameters

RT: 45.64 - 47.64 SM: 7G



NL:
 1.12E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_23

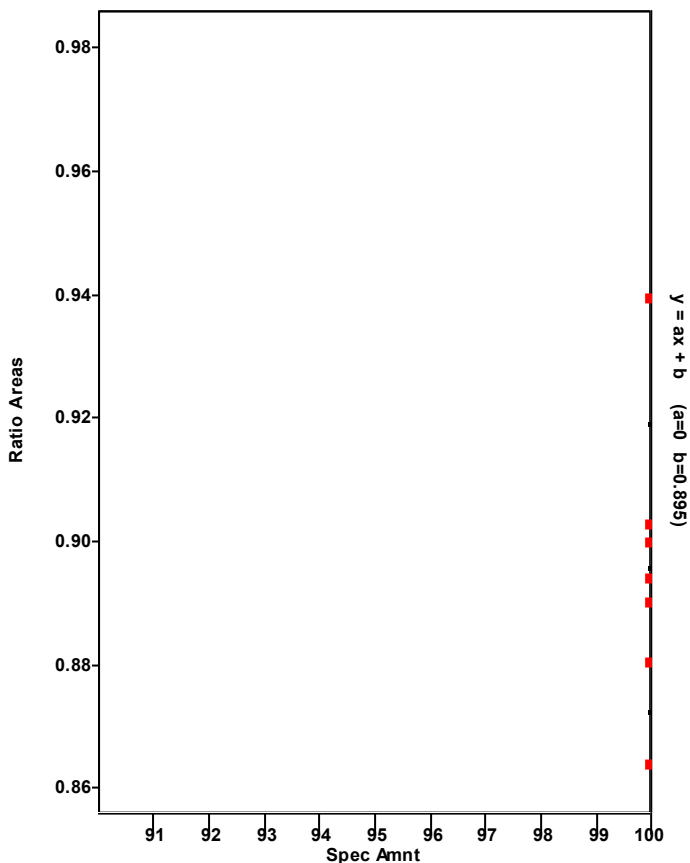
Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1111740
RM1 Area	1150880
RM1 Ratio (A)	1.0352
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	85.45
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	



NL:
 1.22E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_23

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

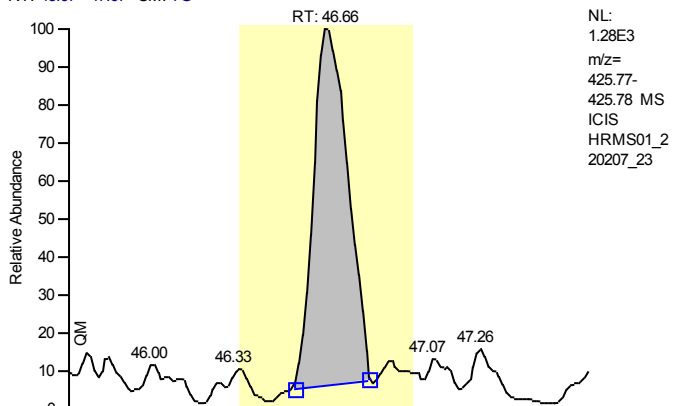
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

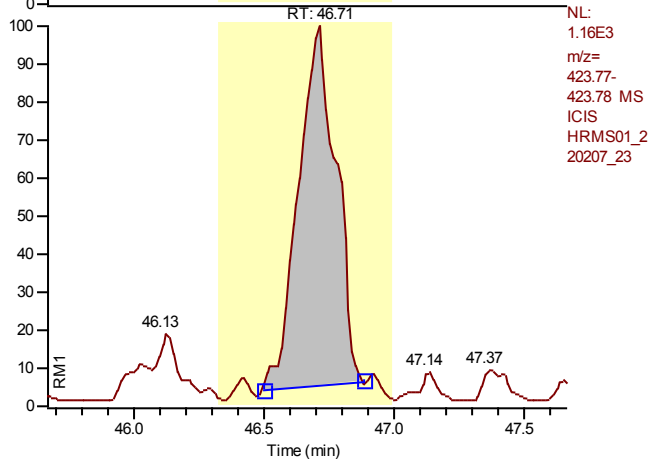
Entry Parameters

RT: 45.67 - 47.67 SM: 7G



NL:
1.28E3
m/z=
425.77-
425.78 MS
ICIS
HRMS01_2
20207_23

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	11024
RM1 Area	10969
RM1 Ratio (A)	0.9950
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	0.88
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

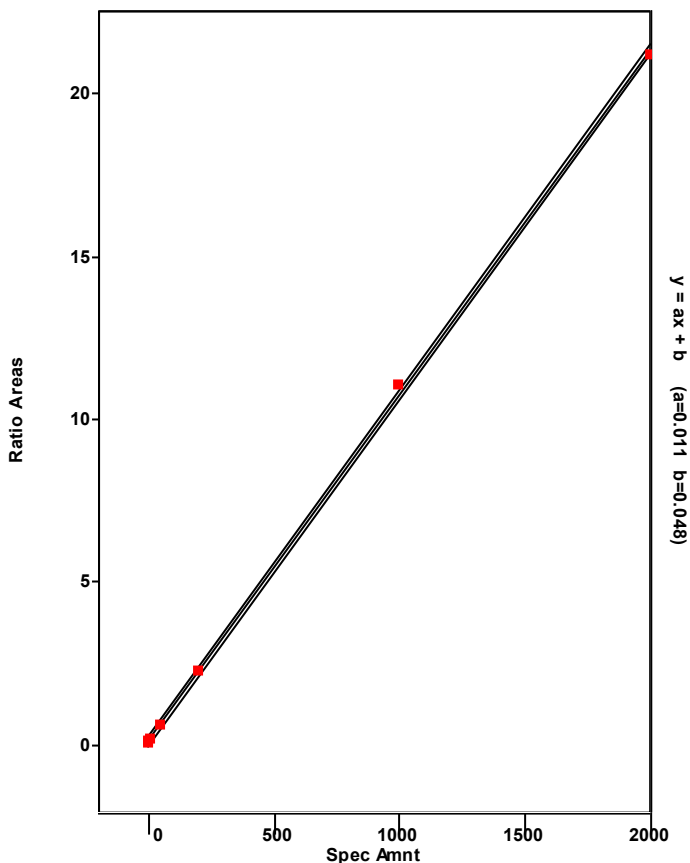


NL:
1.16E3
m/z=
423.77-
423.78 MS
ICIS
HRMS01_2
20207_23

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

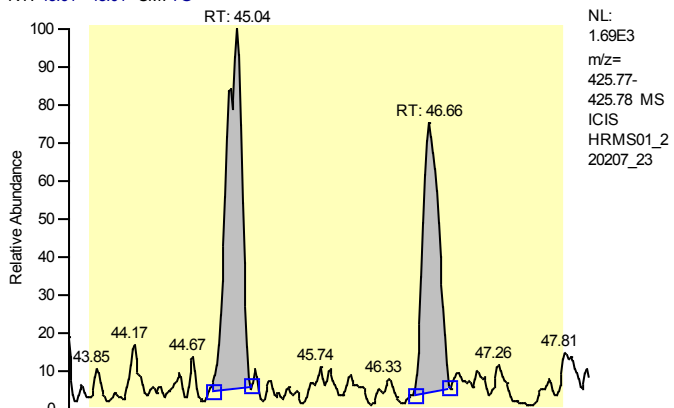
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



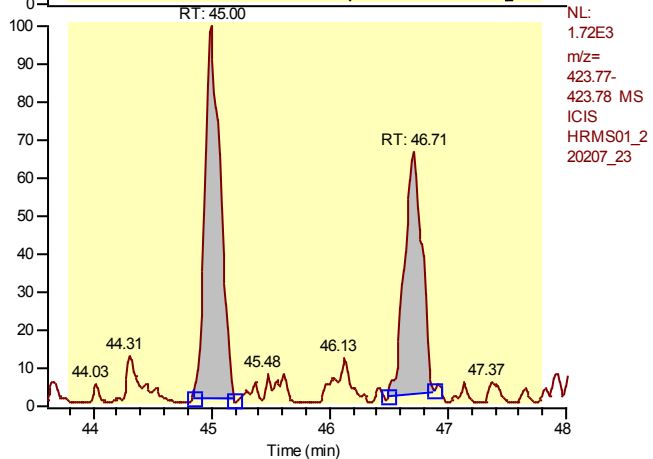
Chromatogram

Entry Parameters

RT: 43.61 - 48.01 SM: 7G



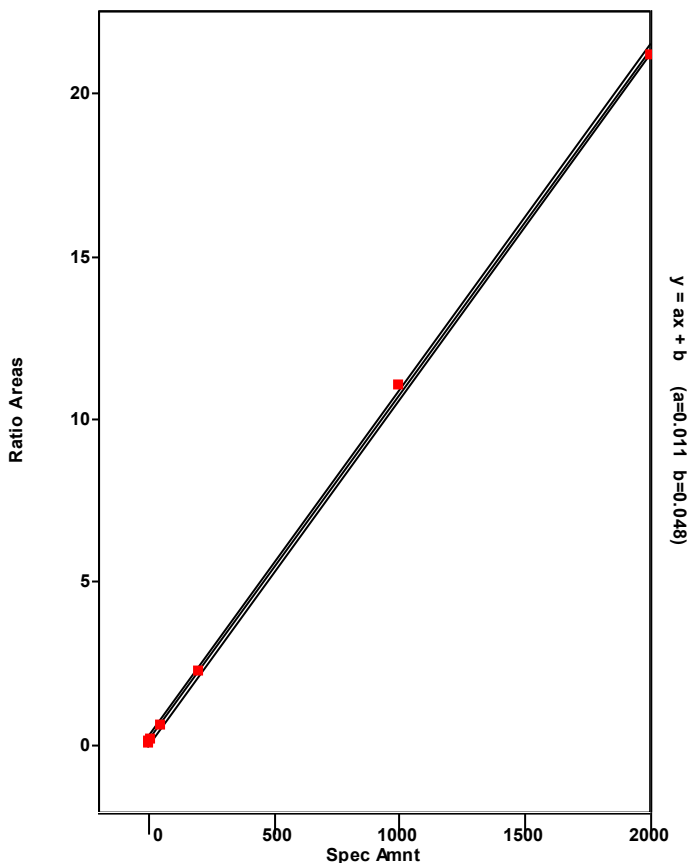
Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	25381
RM1 Area	26197
RM1 Ratio (A)	1.0322
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	2.06
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

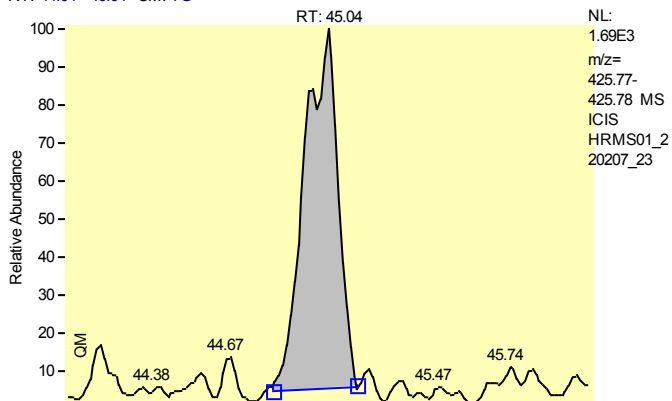
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



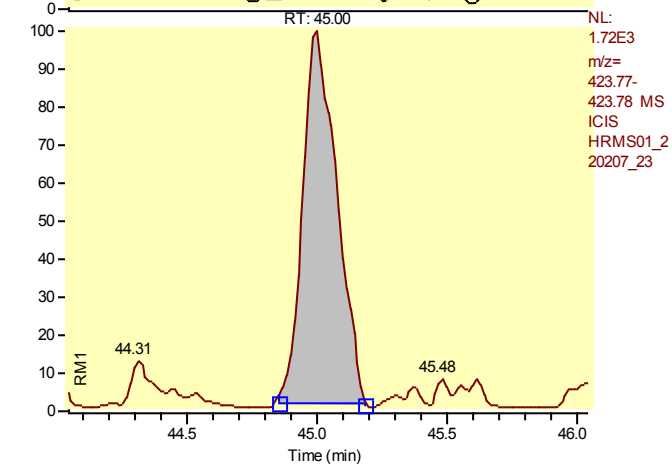
Chromatogram

Entry Parameters

RT: 44.04 - 46.04 SM: 7G



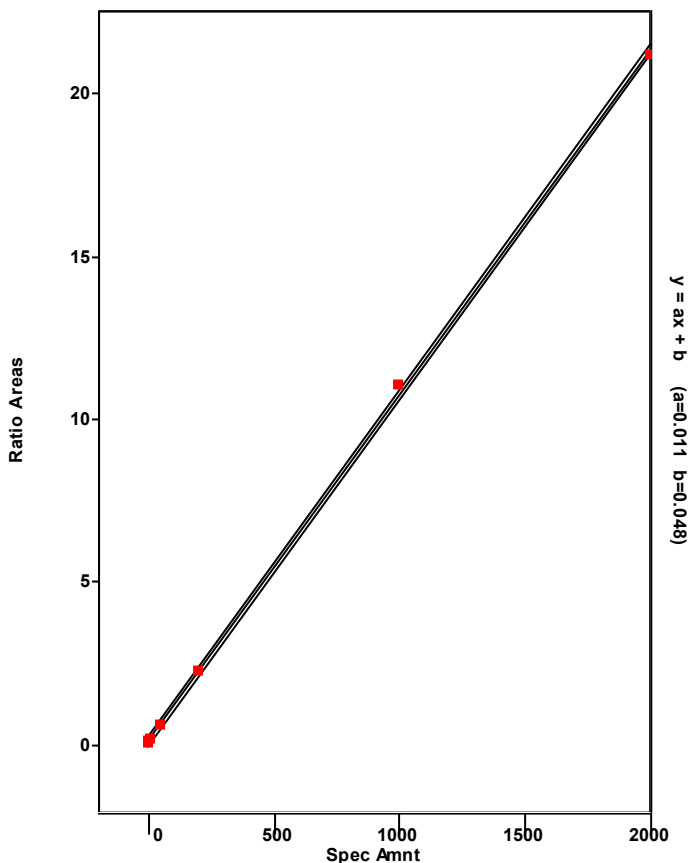
Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	14357
RM1 Area	15228
RM1 Ratio (A)	1.0607
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.18
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

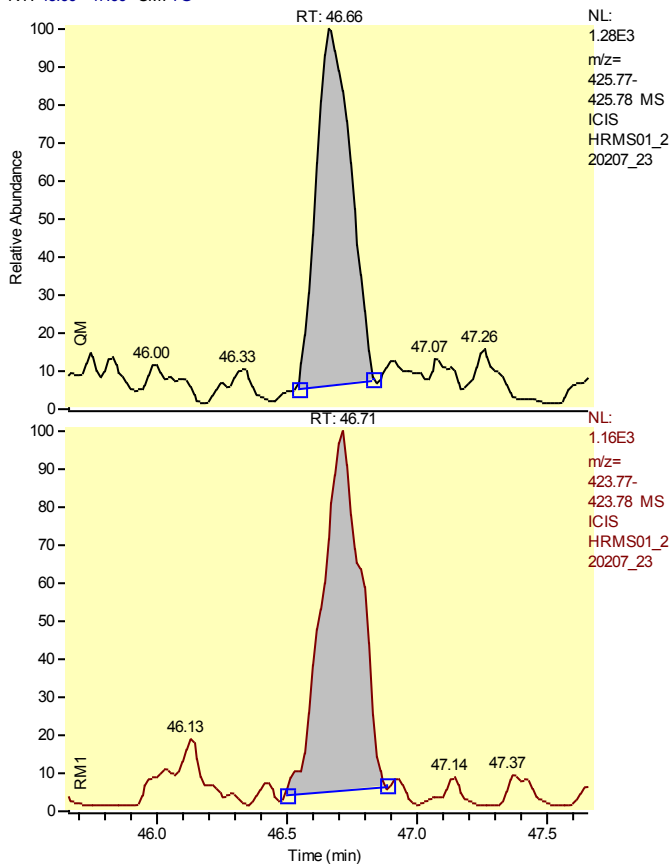
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G

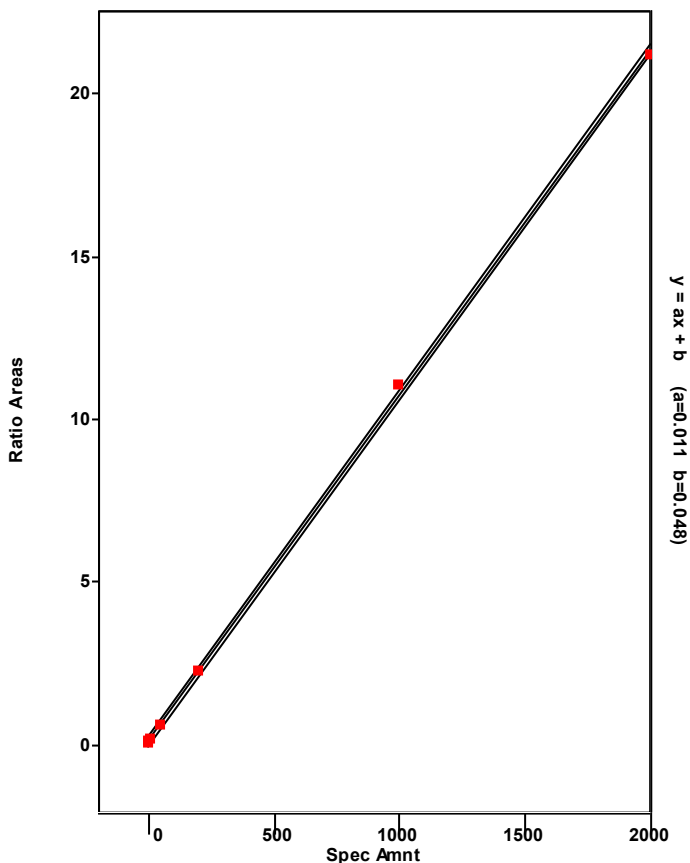


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	11024
RM1 Area	10969
RM1 Ratio (A)	0.9950
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	0.88
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

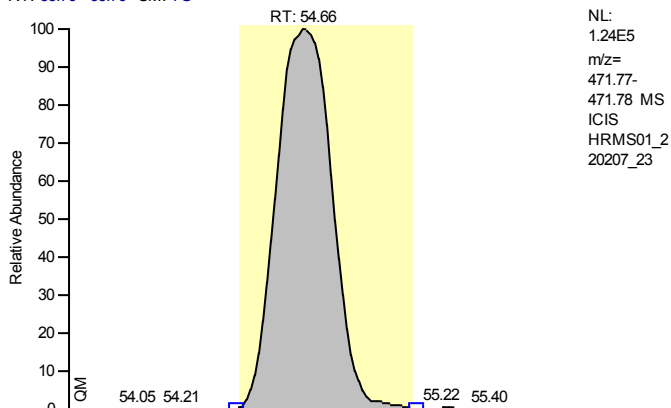
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



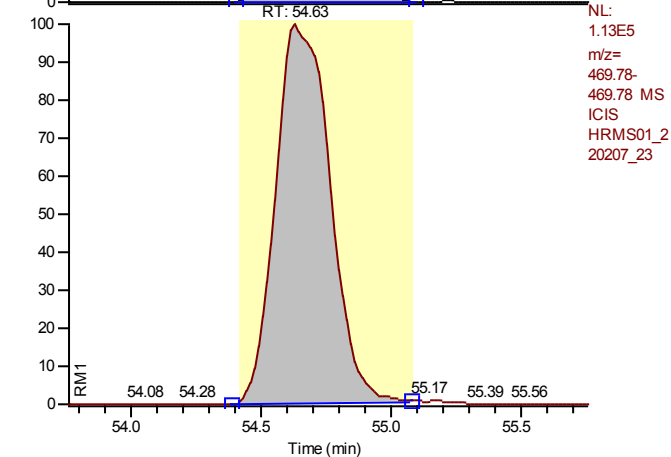
Chromatogram

Entry Parameters

RT: 53.76 - 55.76 SM: 7G



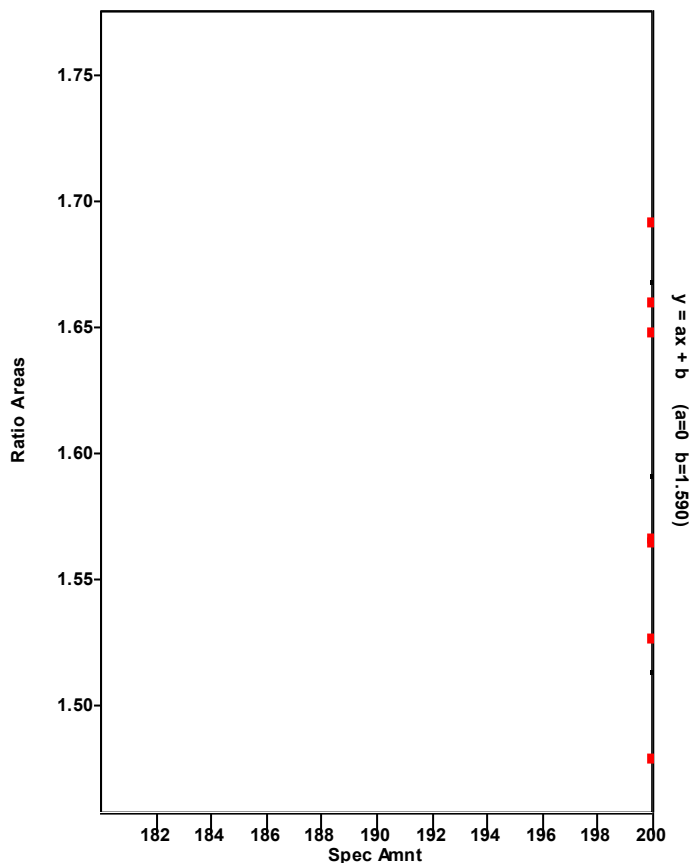
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1855211
RM1 Area	1639123
RM1 Ratio (A)	0.8835
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	148.66
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

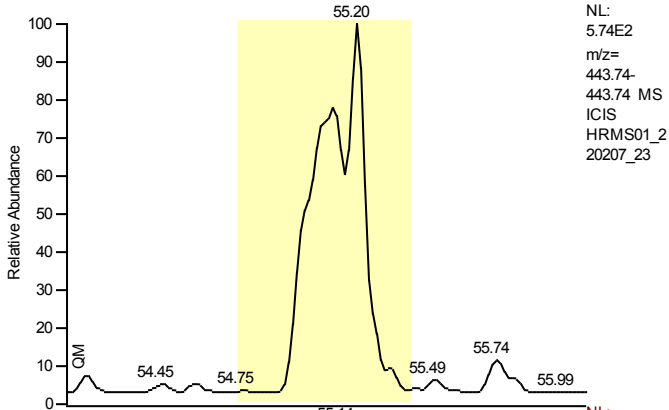
Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

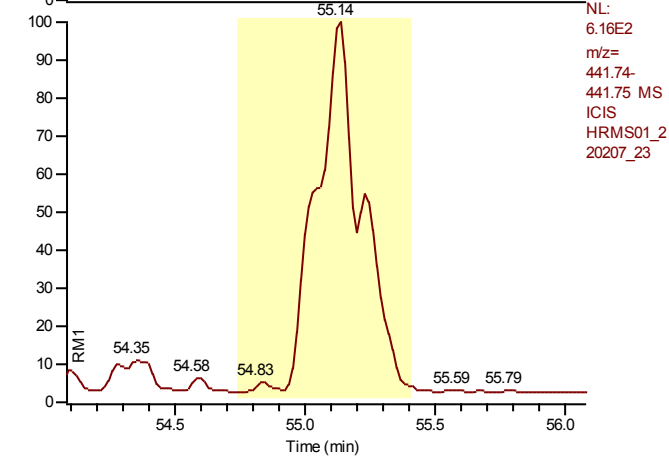
RT: 54.08 - 56.08 SM: 7G



NL:
 5.74E2
 m/z=
 443.74-
 443.74 MS
 ICIS
 HRMS01_2
 20207_23

Entry Parameters

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

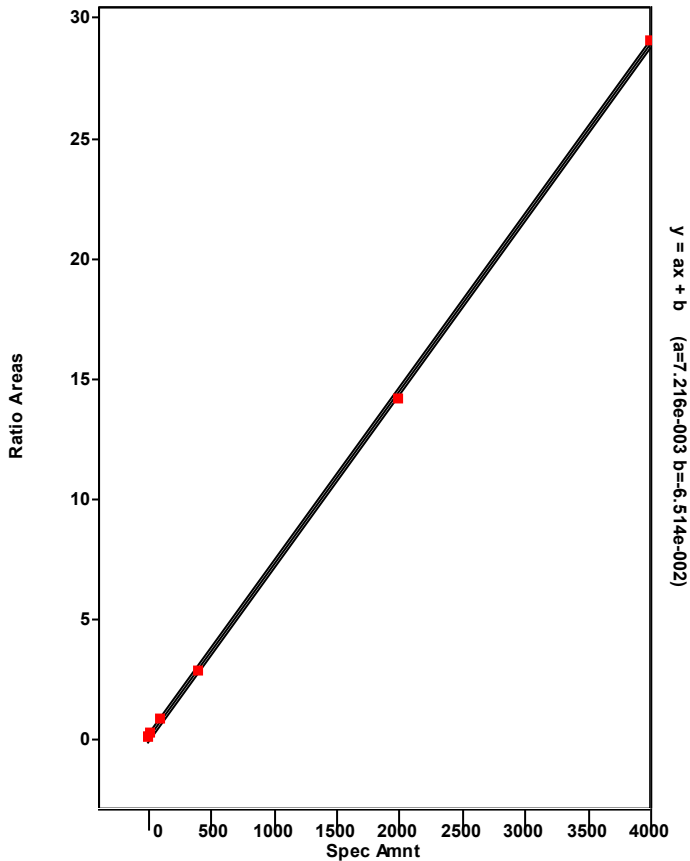


NL:
 6.16E2
 m/z=
 441.74-
 441.75 MS
 ICIS
 HRMS01_2
 20207_23

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

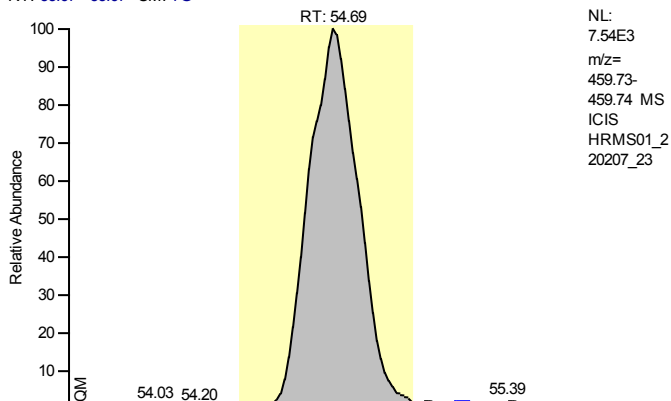
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

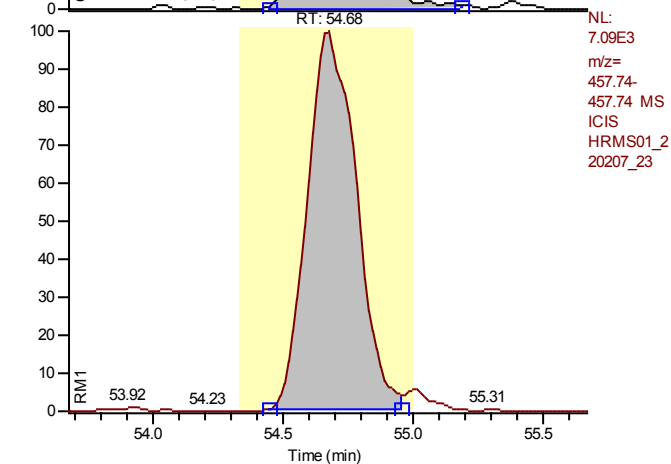
Entry Parameters

RT: 53.67 - 55.67 SM: 7G



NL:
 7.54E3
 m/z=
 459.73-
 459.74 MS
 ICIS
 HRMS01_2
 20207_23

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	100732
RM1 Area	92242
RM1 Ratio (A)	0.9157
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	10.42
Percent Recovery (A)	---
TEQ (A)	0.0031
Label2	

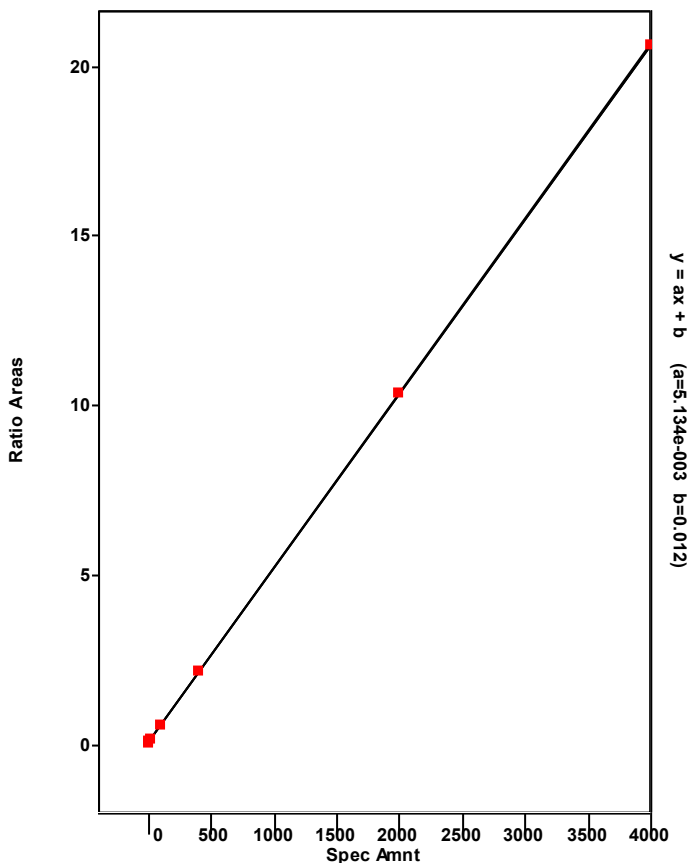


NL:
 7.09E3
 m/z=
 457.74-
 457.74 MS
 ICIS
 HRMS01_2
 20207_23

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

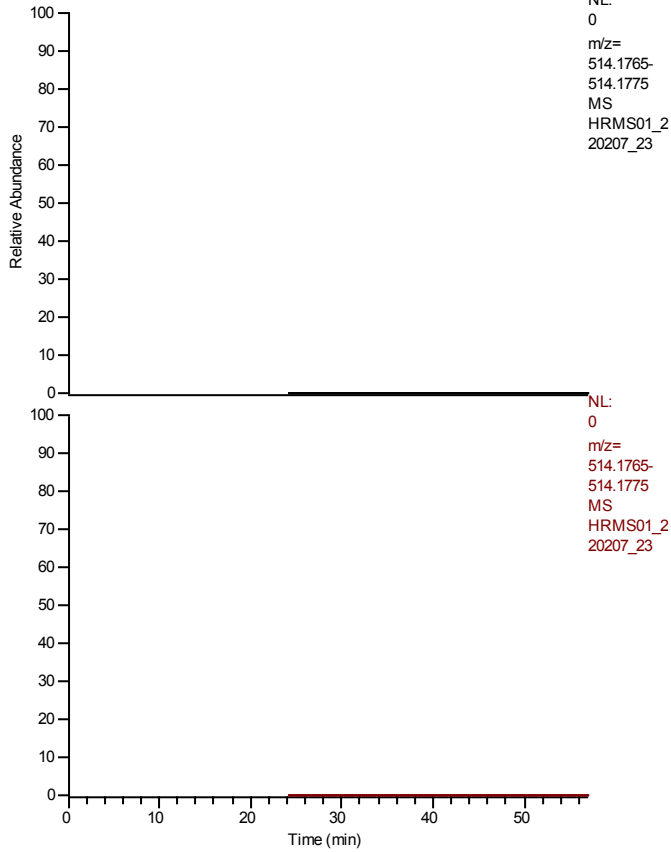
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

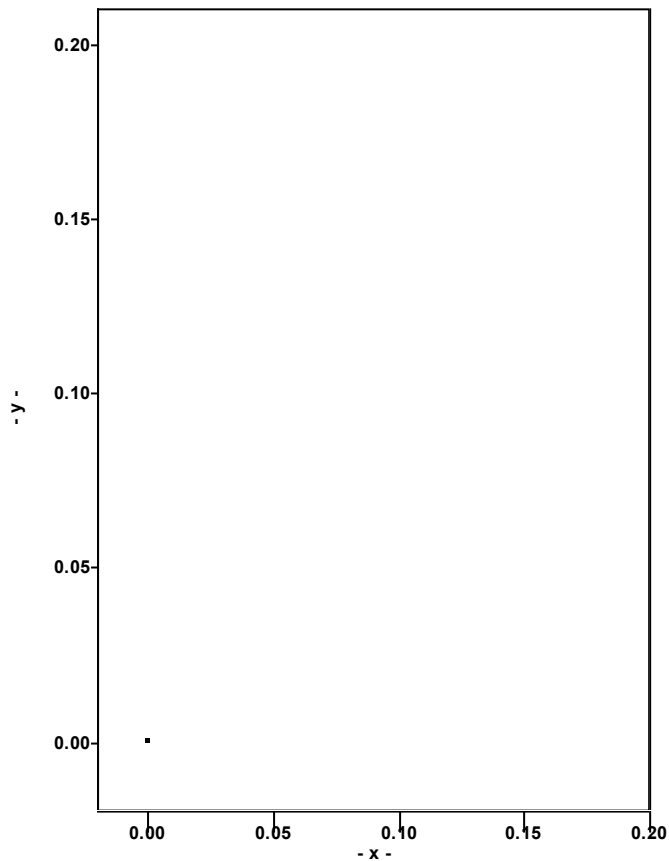
RT: 0.00 - 57.00 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	111756
RM1 Area	103211
RM1 Ratio (A)	0.9235
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	11.30
Percent Recovery (A)	---
TEQ (A)	0.0031
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Analytical Event

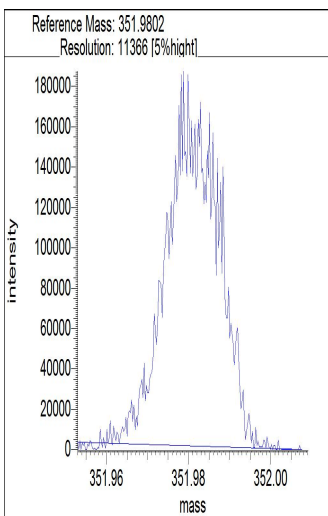
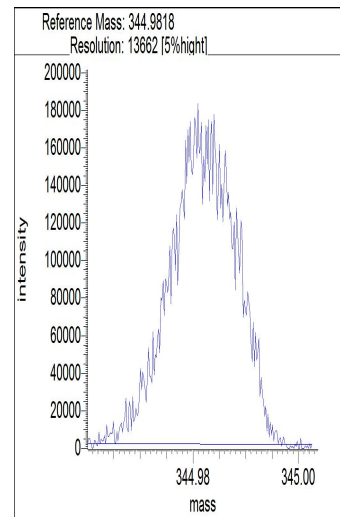
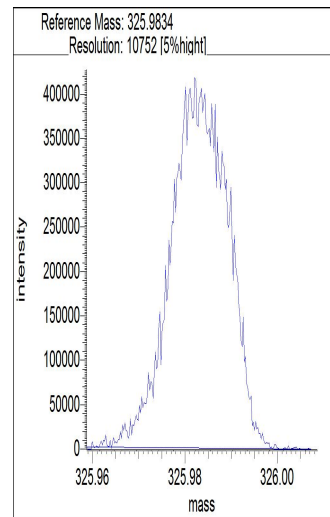
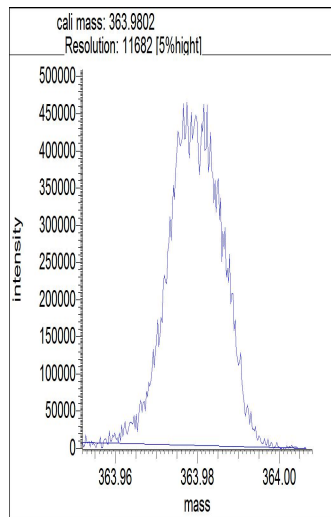
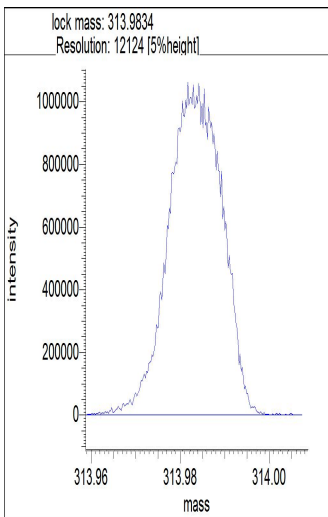
Continuing Calibration

Resolution Check Report (DFS SN: 1209)

Date: 08 Feb 2022 09:48
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

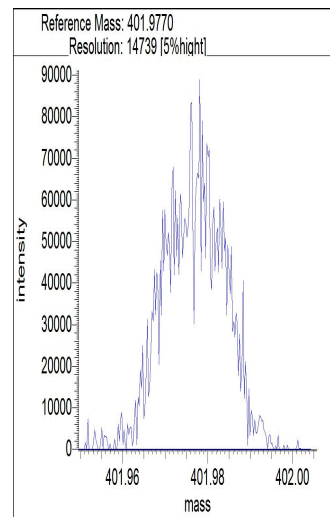
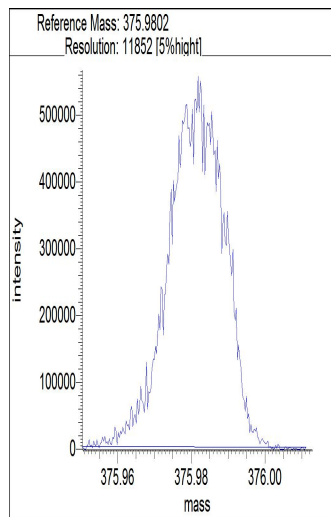
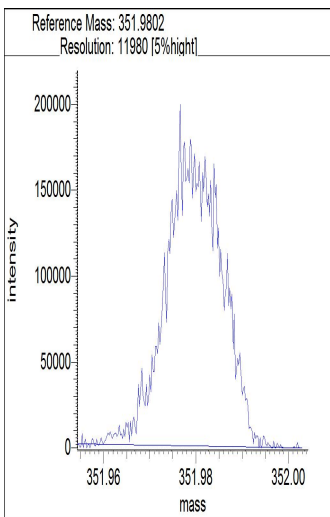
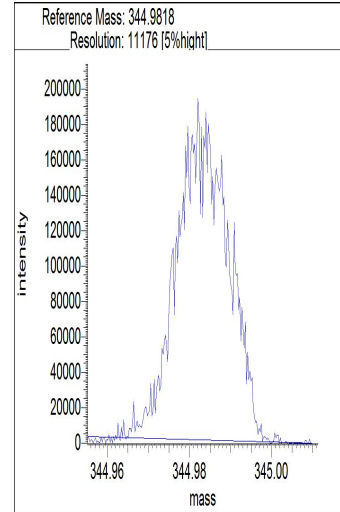
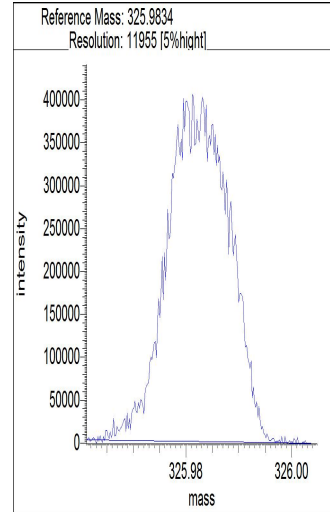
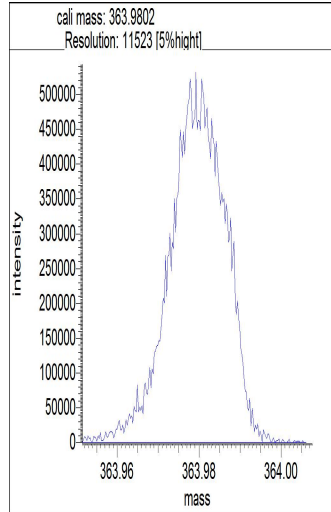
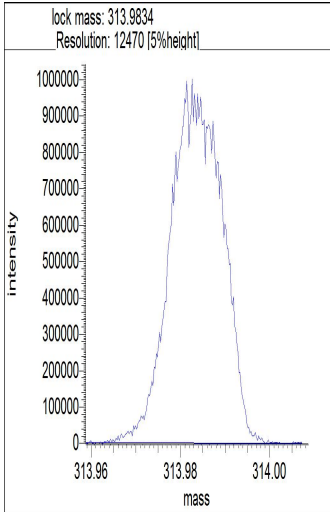
Lock mass 313.9834 [m/z] Resolution: 12124 [5%height]
Cali. mass 363.9802 [m/z] Resolution: 11682 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 10752 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 13662 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11366 [5%height]



Segment 2

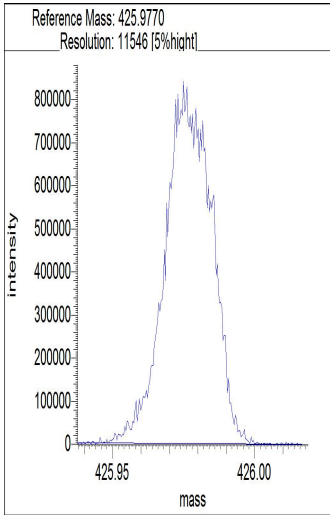
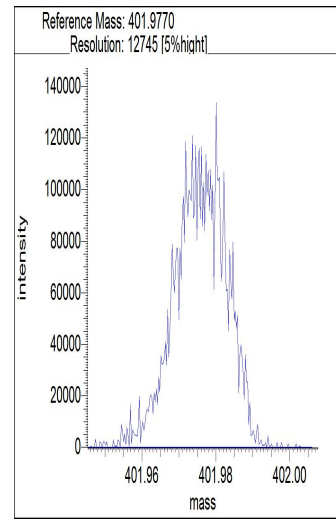
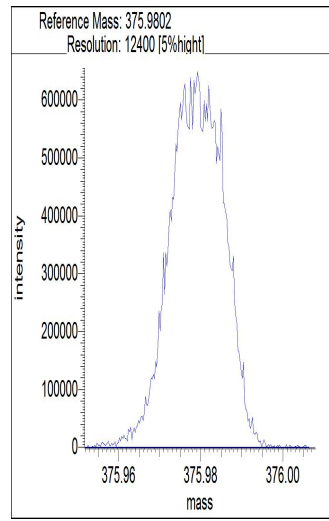
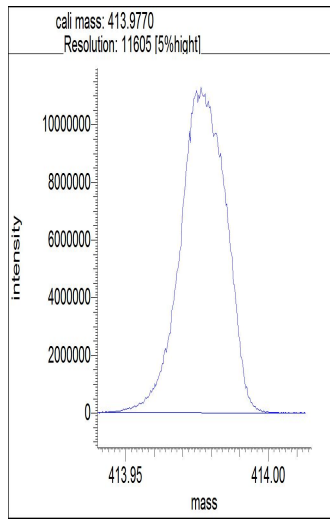
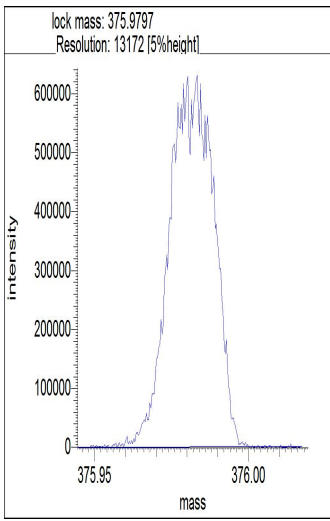
Lock mass 313.9834 [m/z] Resolution: 12470 [5%height]

Cali. mass 363.9802 [m/z] Resolution: 11523 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11955 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11176 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11980 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 11852 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 14739 [5%height]



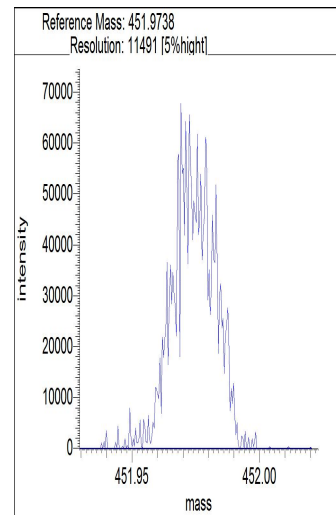
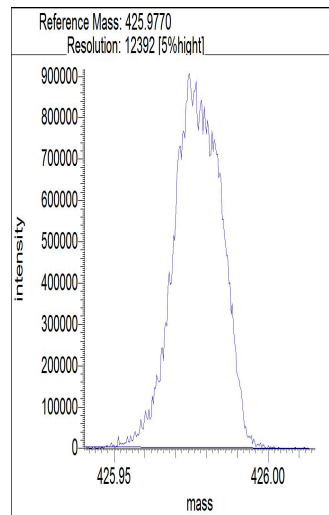
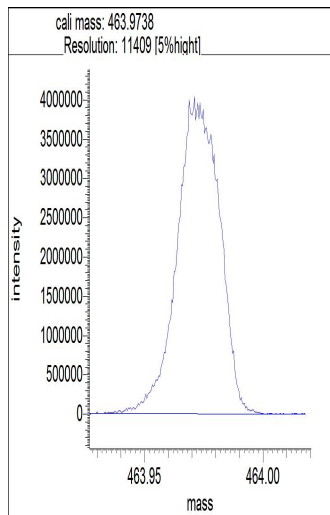
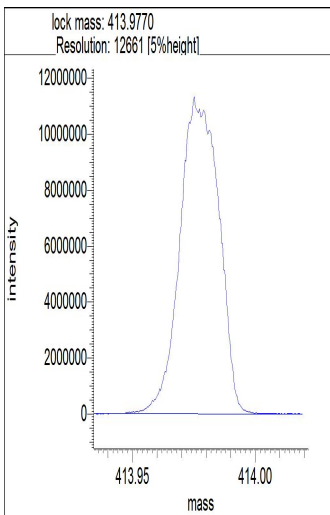
Segment 3

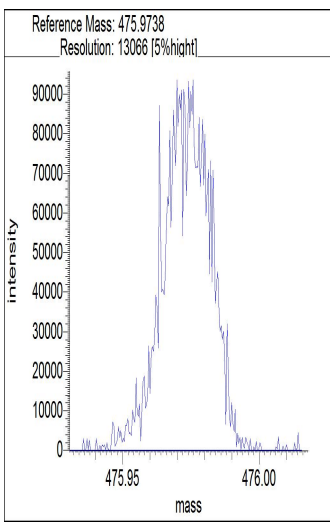
Lock mass 375.9797 [m/z] Resolution: 13172 [5%height]
Cali. mass 413.9770 [m/z] Resolution: 11605 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 12400 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12745 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 11546 [5%height]



Segment 4

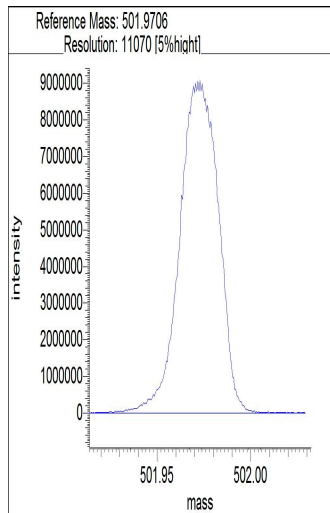
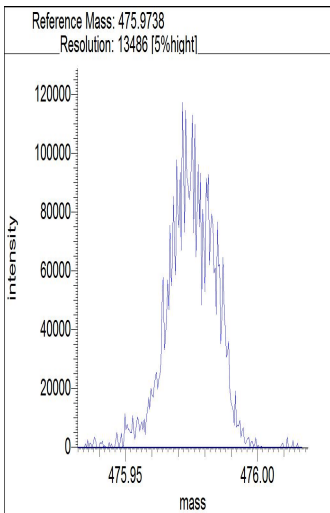
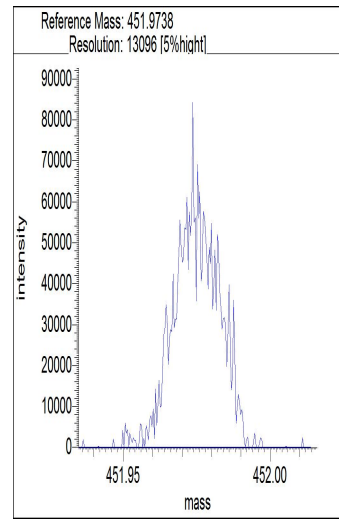
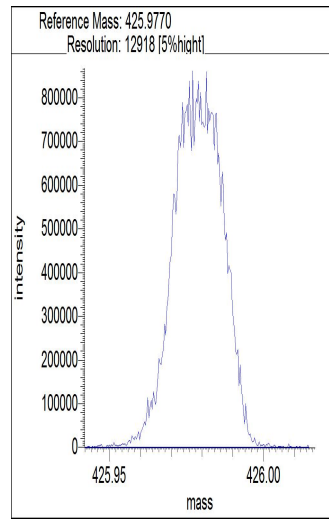
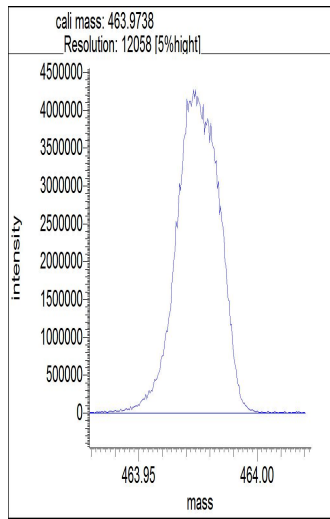
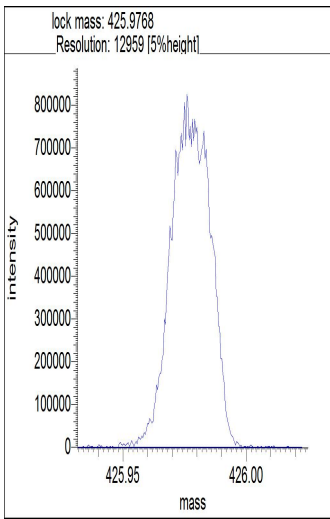
- Lock mass 413.9770 [m/z] Resolution: 12661 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 11409 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 12392 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 11491 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 13066 [5%height]

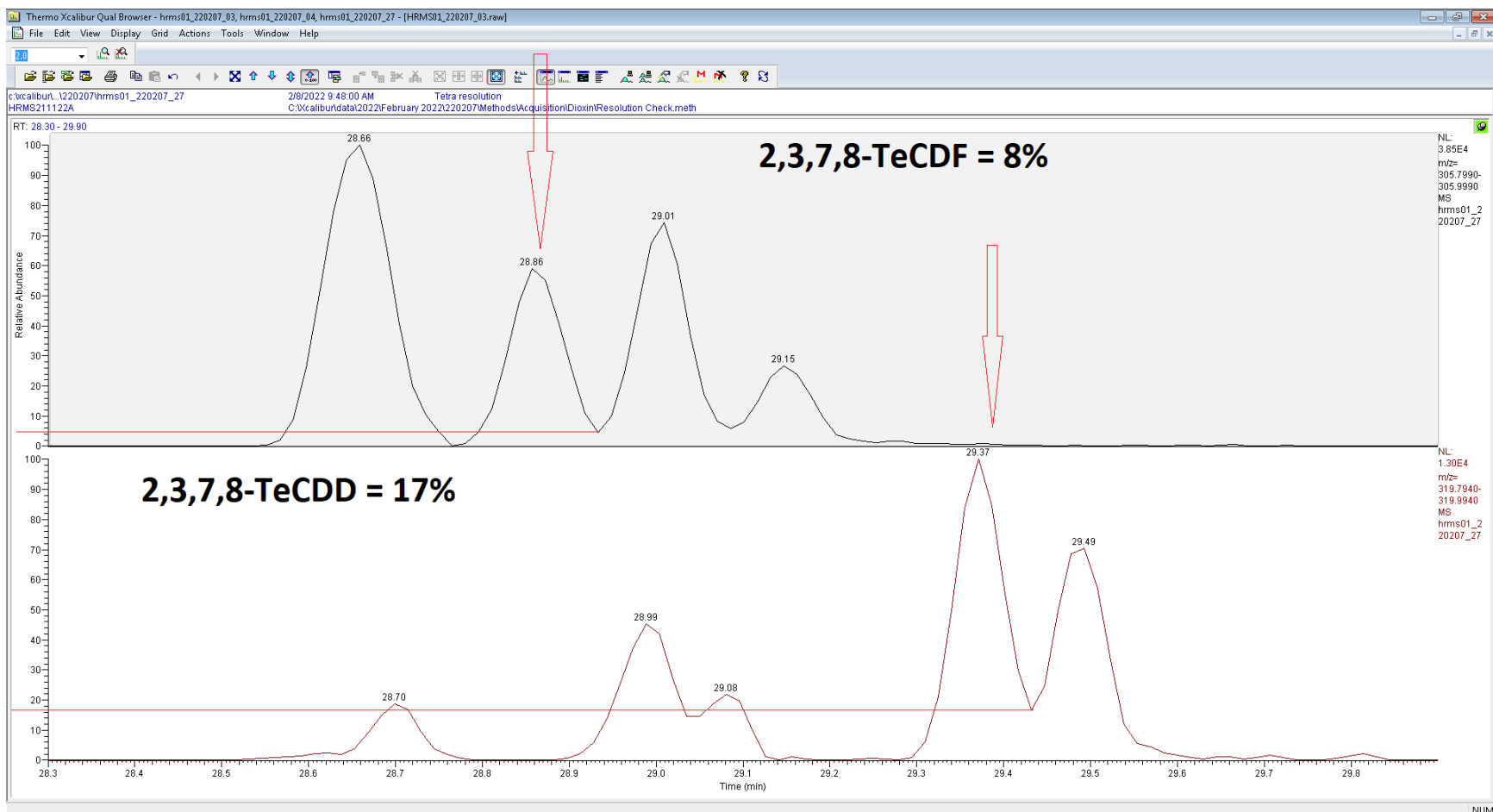




Segment 5

- Lock mass 425.9768 [m/z] Resolution: 12959 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 12058 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 12918 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13096 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 13486 [5%height]
- Ref. mass 501.9706 [m/z] Resolution: 11070 [5%height]





Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 07:27
Number of Entries	72
Comment	HRMS210614B
Vial	2
Sample Name	WG1602294-2
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_25_seq
Data	hrms01_220207_25
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

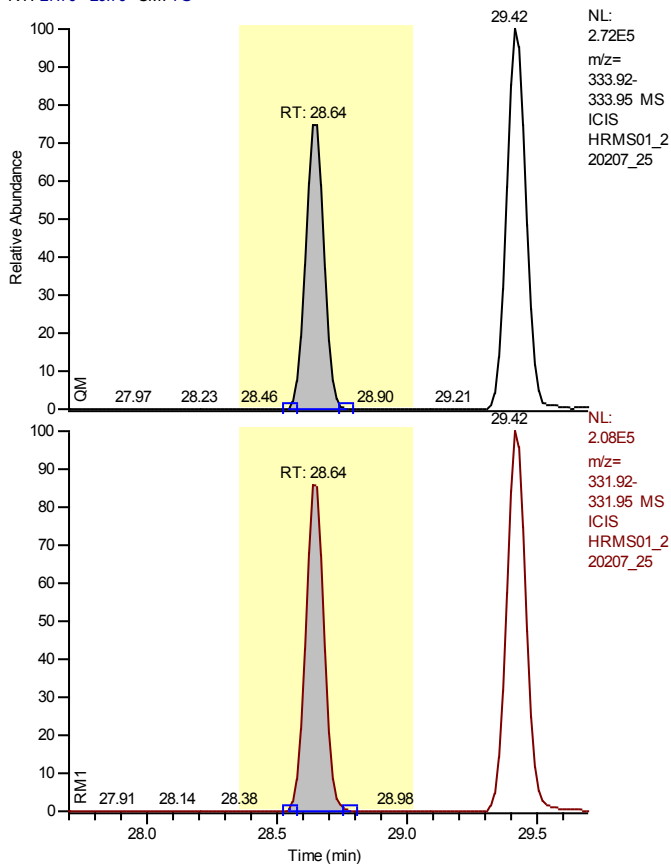
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1003226	880129	0.8773	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1638237	1409011	0.8601	0.6500 - 0.8900	100.00	95.71	96	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	161812	119329	0.7375	0.6500 - 0.8900	10.00	8.95	90	0.8951
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	557138	418747	0.7516	0.6500 - 0.8900	10.00	31.07	311	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	223269	169531	0.7593	0.6500 - 0.8900	10.00	12.51	125	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	172057	129887	0.7549	0.6500 - 0.8900	10.00	9.61	96	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	161812	119329	0.7375	0.6500 - 0.8900	10.00	8.95	90	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1404929	1074563	0.7649	0.6500 - 0.8900	100.00	110.87	111	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	132505	107534	0.8115	0.6500 - 0.8900	10.00	8.78	88	8.7832
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	700098	550317	0.7861	0.6500 - 0.8900	10.00	45.75	458	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	165403	131548	0.7953	0.6500 - 0.8900	10.00	10.87	109	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	134613	103573	0.7694	0.6500 - 0.8900	10.00	8.72	87	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	56847	49176	0.8651	0.6500 - 0.8900	10.00	3.88	39	0.0000
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	210730	158485	0.7521	0.6500 - 0.8900	10.00	13.51	135	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	132505	107534	0.8115	0.6500 - 0.8900	10.00	8.78	88	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1295508	2083723	1.6084	1.3200 - 1.7800	100.00	129.88	130	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	700095	1076327	1.5374	1.3200 - 1.7800	50.00	52.25	105	1.5676
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	2858620	4461028	1.5606	1.3200 - 1.7800	50.00	204.45	409	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	783054	1250417	1.5968	1.3200 - 1.7800	50.00	56.80	114	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	719310	1114207	1.5490	1.3200 - 1.7800	50.00	51.21	102	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	700095	1076327	1.5374	1.3200 - 1.7800	50.00	49.62	99	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	656162	1020077	1.5546	1.3200 - 1.7800	50.00	46.82	94	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1264309	1927347	1.5244	1.3200 - 1.7800	100.00	123.03	123	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	656162	1020077	1.5546	1.3200 - 1.7800	50.00	46.99	94	14.0971
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		852230	1321027	1.5501	1.3200 - 1.7800	100.00	123.47	123	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	424723	672465	1.5833	1.3200 - 1.7800	50.00	50.63	101	50.6250
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	1626542	2576967	1.5843	1.3200 - 1.7800	50.00	193.95	388	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	568540	907371	1.5960	1.3200 - 1.7800	50.00	68.10	136	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	633279	997131	1.5746	1.3200 - 1.7800	50.00	75.23	150	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	424723	672465	1.5833	1.3200 - 1.7800	50.00	50.63	101	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		226485	226485	1.0000	0.8500 - 1.1500	10.00	9.98	100	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1248974	1585588	1.2695	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1901139	979204	0.5151	0.4300 - 0.5900	100.00	88.33	88	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	738846	946875	1.2816	1.0500 - 1.4300	50.00	46.94	94	4.6939
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	3823595	4738136	1.2392	1.0500 - 1.4300	50.00	234.27	469	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	838881	1019939	1.2158	1.0500 - 1.4300	50.00	50.86	102	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	713983	875456	1.2262	1.0500 - 1.4300	50.00	43.49	87	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	738846	946875	1.2816	1.0500 - 1.4300	50.00	46.13	92	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	767651	954084	1.2429	1.0500 - 1.4300	50.00	47.11	94	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	764234	941782	1.2323	1.0500 - 1.4300	50.00	46.68	93	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		2033231	1031496	0.5073	0.4300 - 0.5900	100.00	85.04	85	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	767651	954084	1.2429	1.0500 - 1.4300	50.00	47.32	95	4.7315
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2003993	1057291	0.5276	0.4300 - 0.5900	100.00	87.88	88	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	838881	1019939	1.2158	1.0500 - 1.4300	50.00	49.16	98	4.9157
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1936175	1060273	0.5476	0.4300 - 0.5900	100.00	89.72	90	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	764234	941782	1.2323	1.0500 - 1.4300	50.00	48.70	97	4.8698
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1081058	1384355	1.2806	1.0500 - 1.4300	100.00	98.65	99	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	566289	691487	1.2211	1.0500 - 1.4300	50.00	46.56	93	4.6559
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	2301920	2873541	1.2483	1.0500 - 1.4300	50.00	188.29	377	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	629635	765870	1.2164	1.0500 - 1.4300	50.00	50.77	102	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	525306	667999	1.2716	1.0500 - 1.4300	50.00	43.41	87	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	566289	691487	1.2211	1.0500 - 1.4300	50.00	45.76	92	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	580690	748186	1.2884	1.0500 - 1.4300	50.00	48.35	97	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1081058	1384355	1.2806	1.0500 - 1.4300	100.00	98.65	99	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	566289	691487	1.2211	1.0500 - 1.4300	50.00	46.56	93	4.6559
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	629635	765870	1.2164	1.0500 - 1.4300	50.00	48.99	98	4.8987
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2111215	953716	0.4517	0.3700 - 0.5100	100.00	95.75	96	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	1006447	1023259	1.0167	0.8800 - 1.2000	50.00	49.08	98	0.4908
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1928827	1974427	1.0236	0.8800 - 1.2000	50.00	99.13	198	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	1006447	1023259	1.0167	0.8800 - 1.2000	50.00	51.55	103	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	922380	951169	1.0312	0.8800 - 1.2000	50.00	47.58	95	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1914594	897188	0.4686	0.3700 - 0.5100	100.00	94.79	95	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	922380	951169	1.0312	0.8800 - 1.2000	50.00	50.63	101	0.5063
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1280515	1354798	1.0580	0.8800 - 1.2000	100.00	103.85	104	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	672949	716656	1.0649	0.8800 - 1.2000	50.00	47.58	95	0.4758
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	1406714	1452473	1.0325	0.8800 - 1.2000	50.00	97.89	196	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	733765	735818	1.0028	0.8800 - 1.2000	50.00	50.32	101	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	672949	716656	1.0649	0.8800 - 1.2000	50.00	47.58	95	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2714412	2485207	0.9156	0.7600 - 1.0200	200.00	230.80	115	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1664647	1513731	0.9093	0.7600 - 1.0200	100.00	86.85	87	0.0261
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	1374635	1243299	0.9045	0.7600 - 1.0200	100.00	95.03	95	0.0285
72	overall TEQ	overall TEQ test		12588181	14455370	1.1483	0.0000 - 0.0000	0.00	830.99	---	110.9171

Chromatogram

Entry Parameters

RT: 27.70 - 29.70 SM: 7G

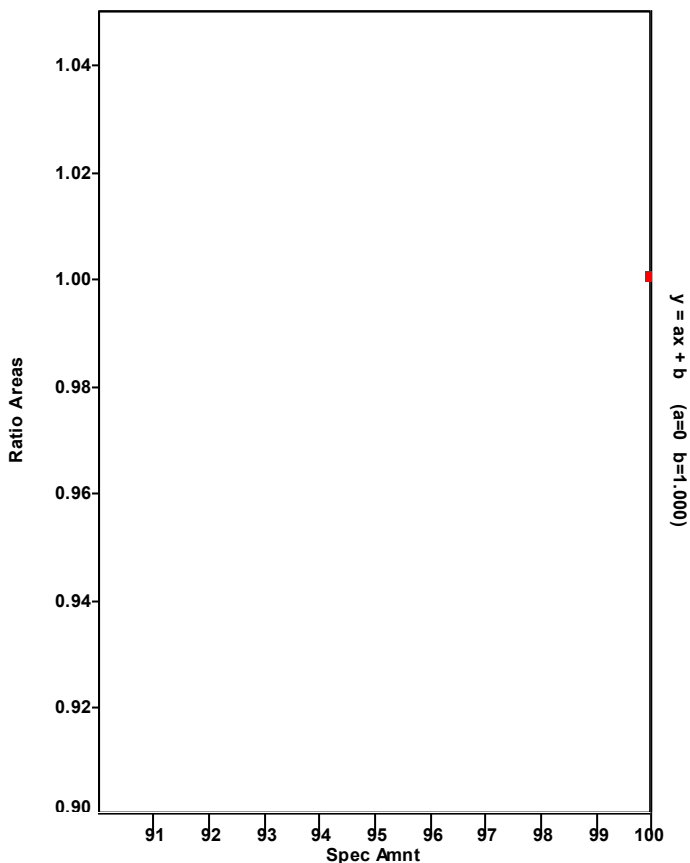


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1003226
RM1 Area	880129
RM1 Ratio (A)	0.8773
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

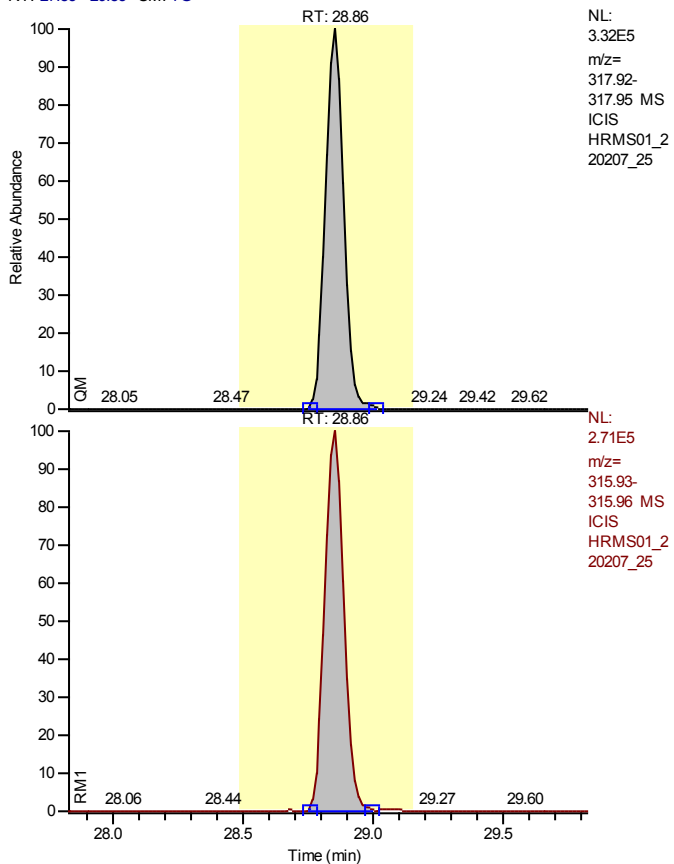
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G

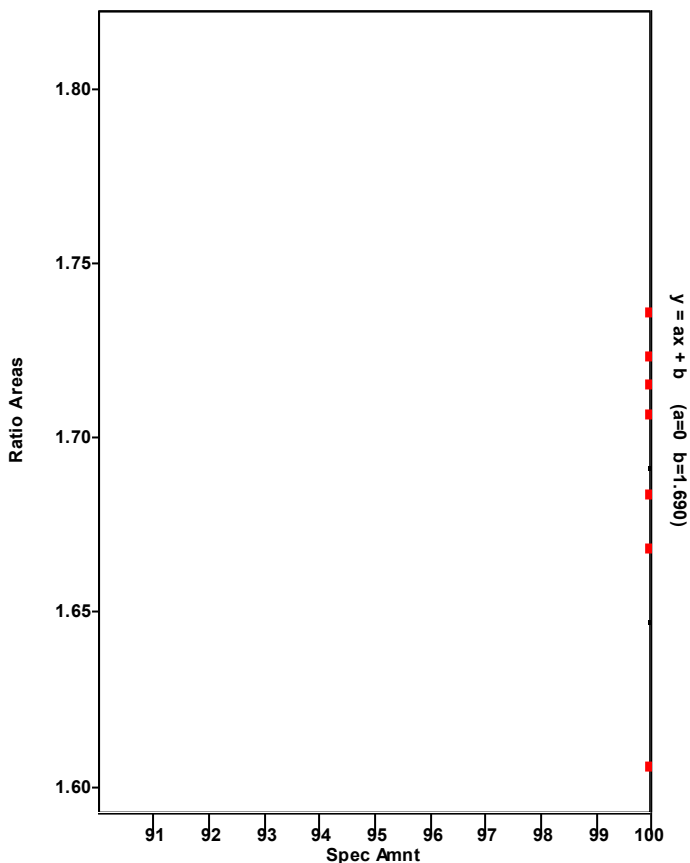


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1638237
RM1 Area	1409011
RM1 Ratio (A)	0.8601
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	95.71
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

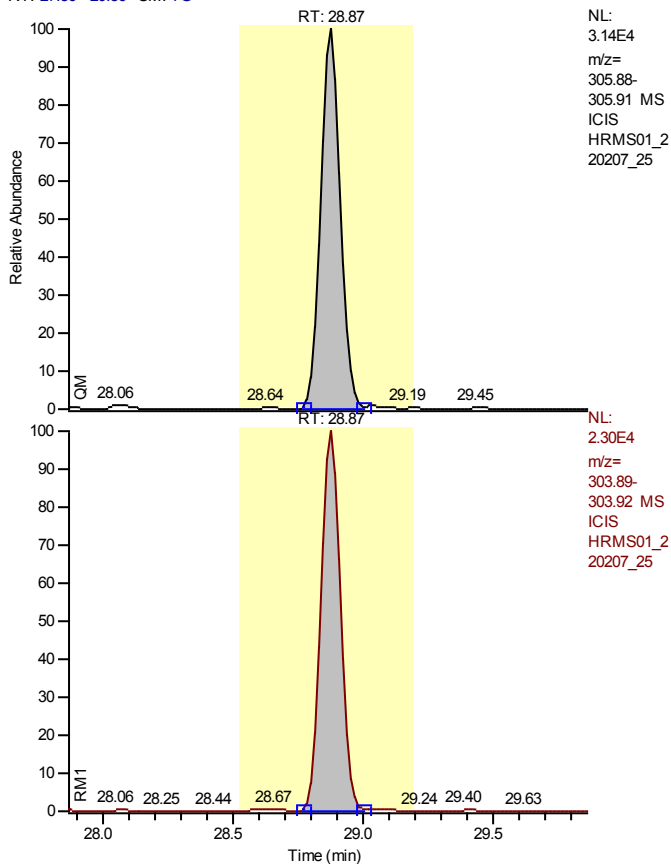
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.86 - 29.86 SM: 7G

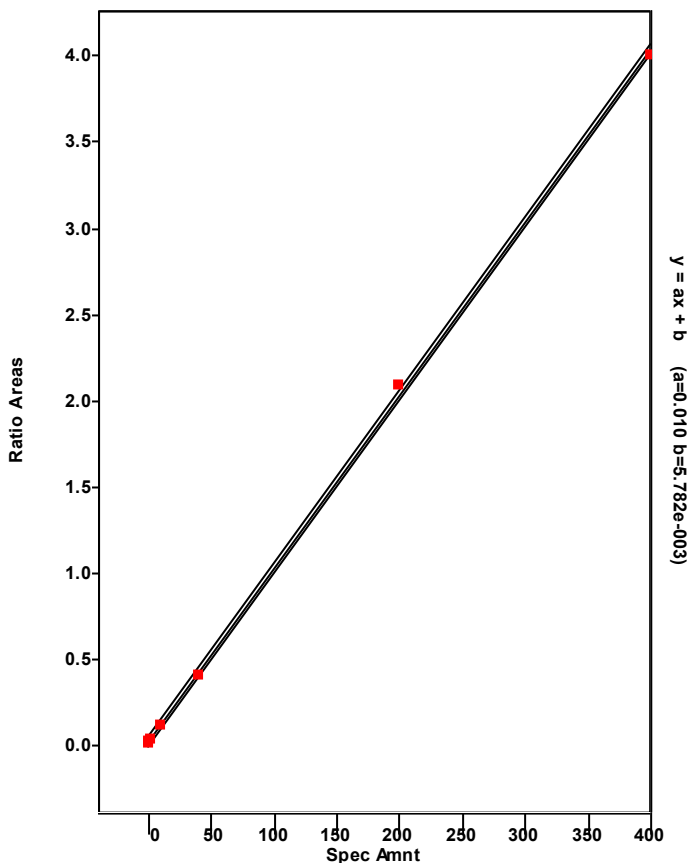


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	161812
RM1 Area	119329
RM1 Ratio (A)	0.7375
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.95
Percent Recovery (A)	90
TEQ (A)	0.8951
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

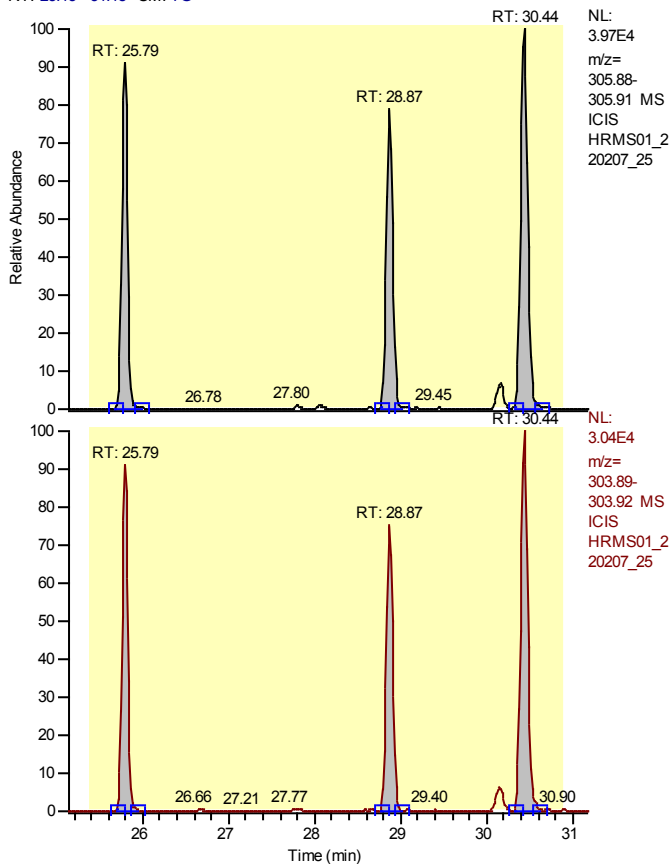
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.13 - 31.18 SM: 7G

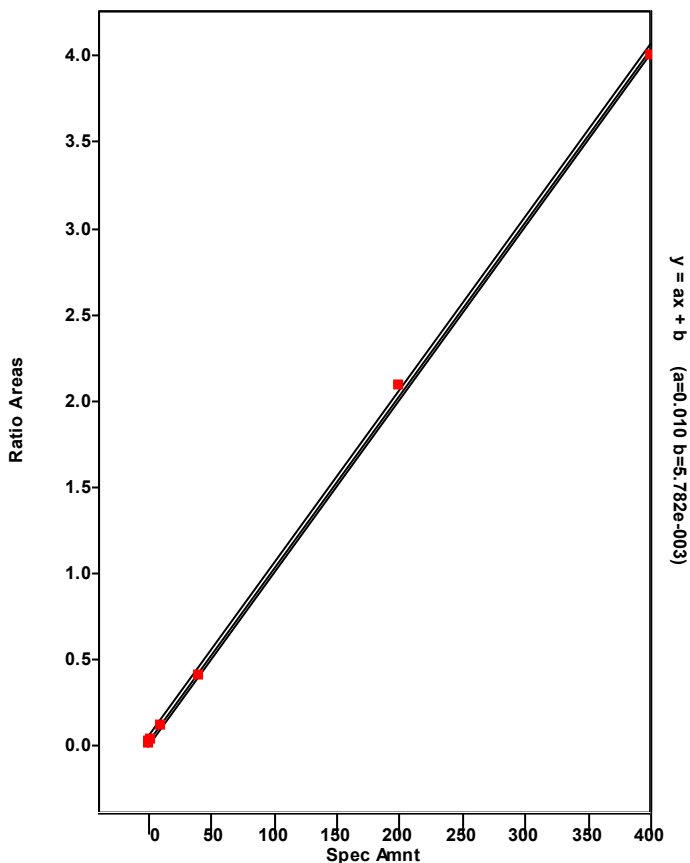


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	557138
RM1 Area	418747
RM1 Ratio (A)	0.7516
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	31.07
Percent Recovery (A)	311
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

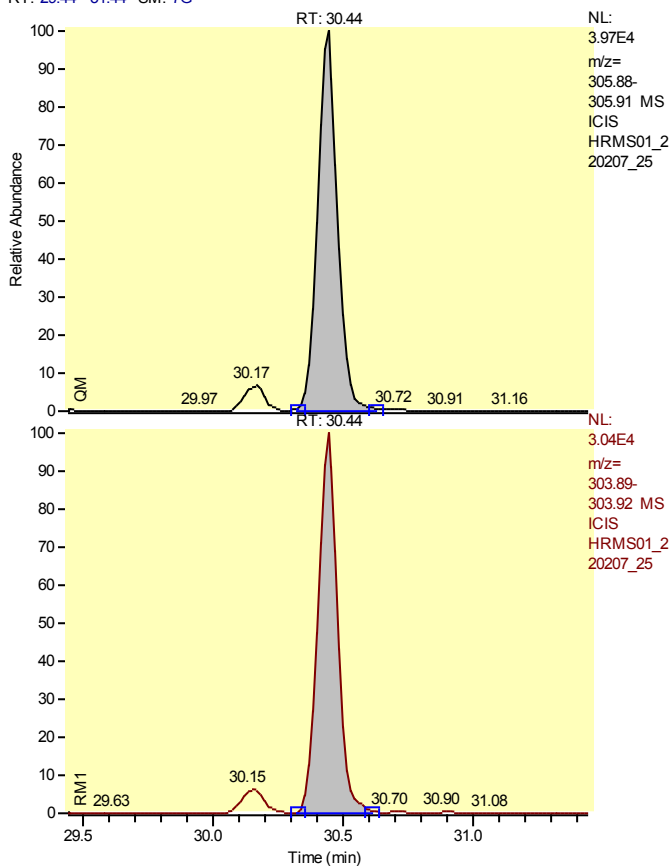
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 29.44 - 31.44 SM: 7G

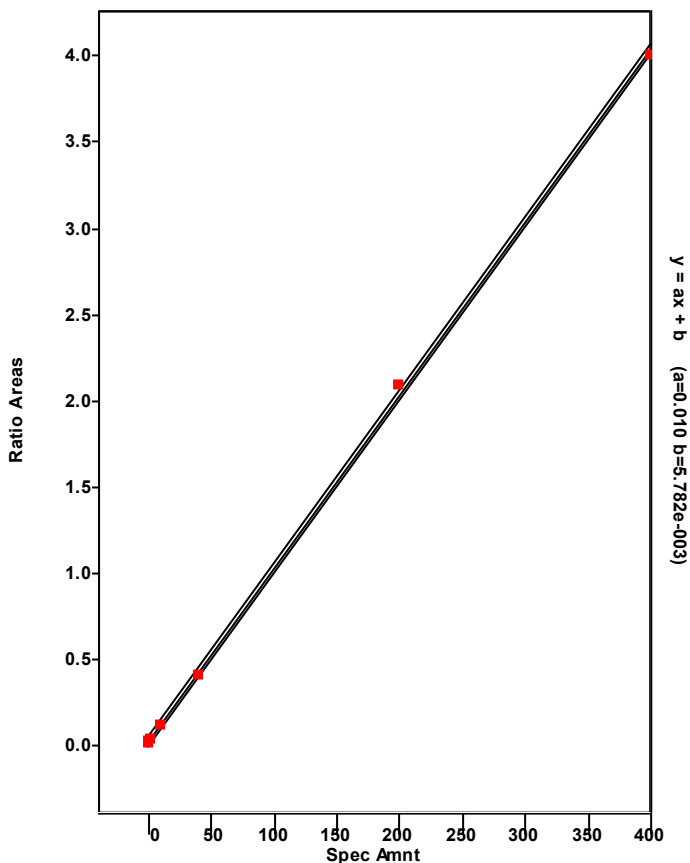


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	223269
RM1 Area	169531
RM1 Ratio (A)	0.7593
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	12.51
Percent Recovery (A)	125
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

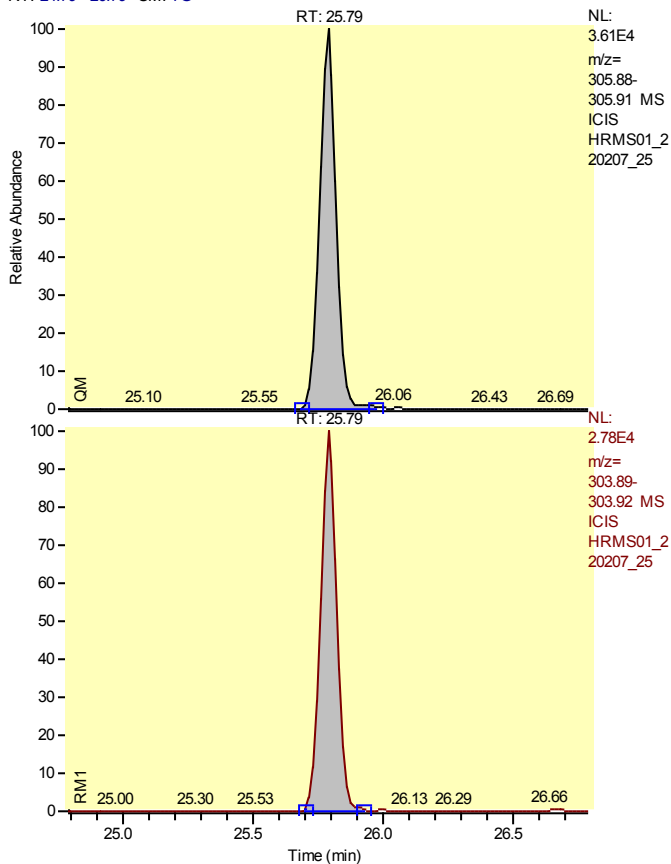
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.79 - 26.79 SM: 7G

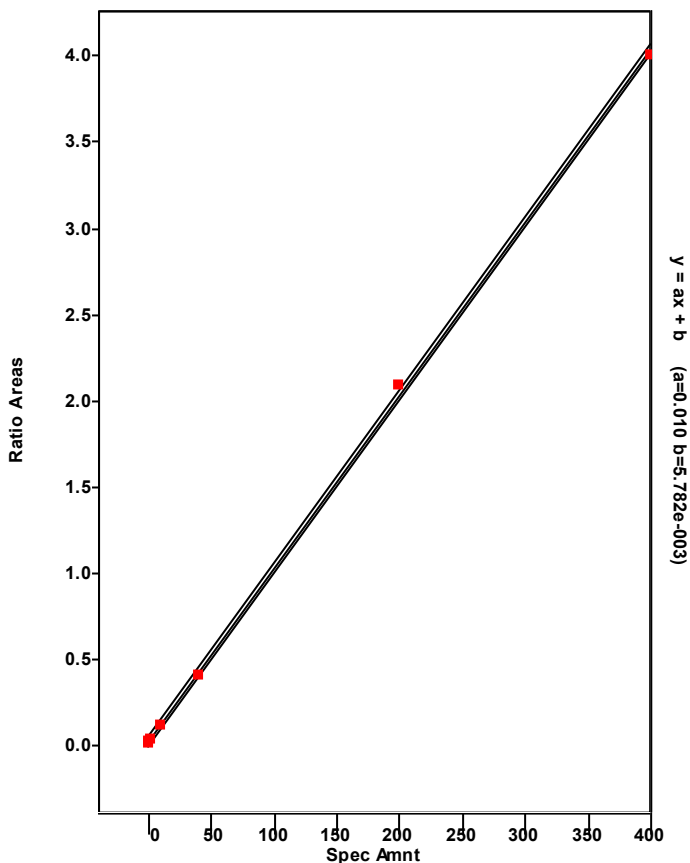


Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	172057
RM1 Area	129887
RM1 Ratio (A)	0.7549
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.61
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

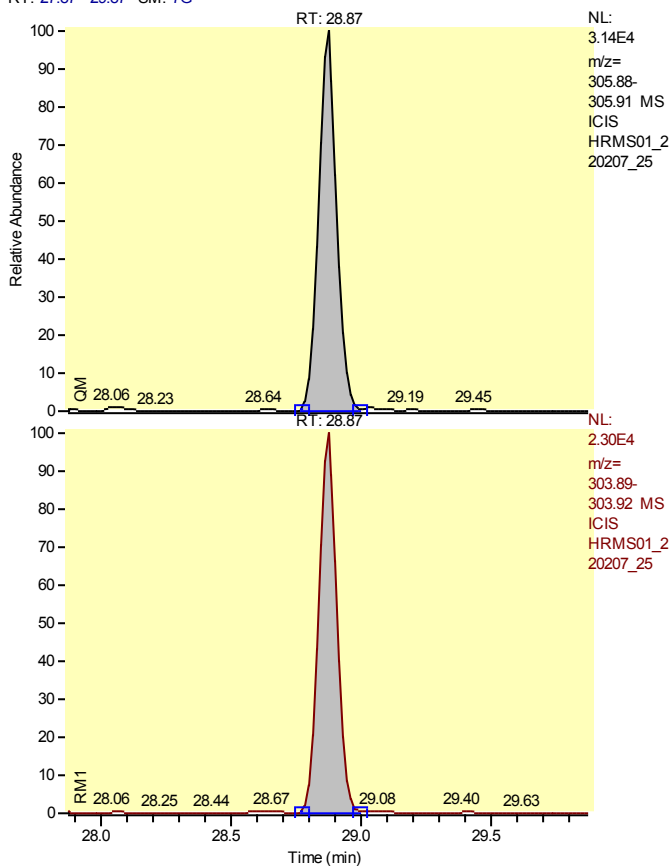
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.87 - 29.87 SM: 7G

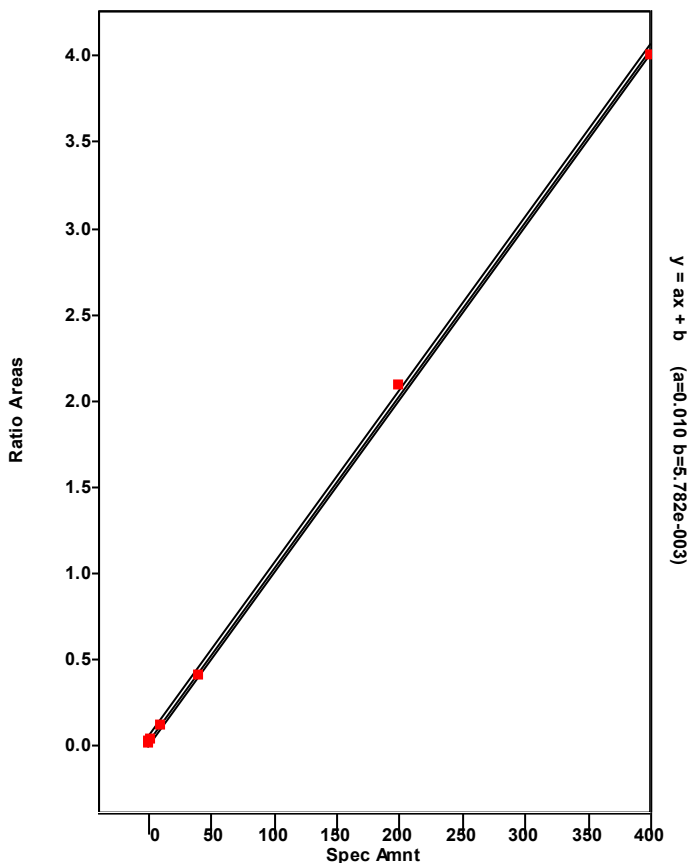


Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	161812
RM1 Area	119329
RM1 Ratio (A)	0.7375
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.95
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

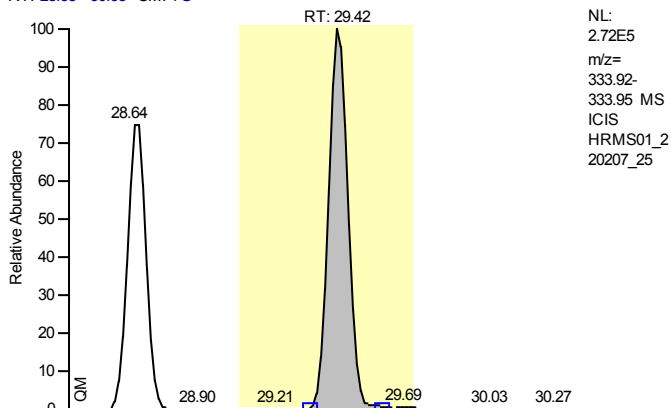
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

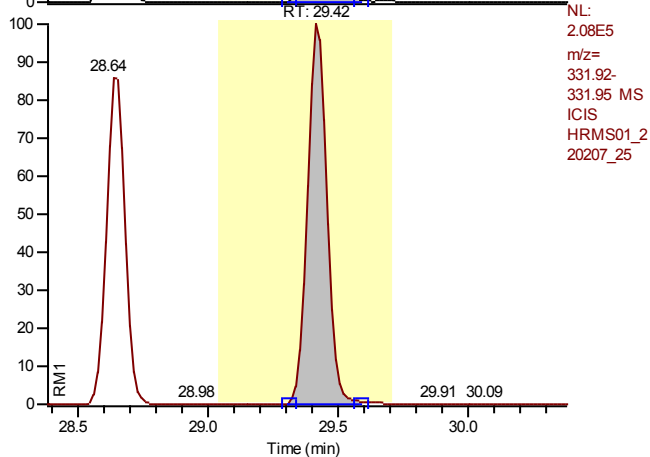
Entry Parameters

RT: 28.38 - 30.38 SM: 7G



NL:
2.72E5
m/z=
333.92-
333.95 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1404929
RM1 Area	1074563
RM1 Ratio (A)	0.7649
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	110.87
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

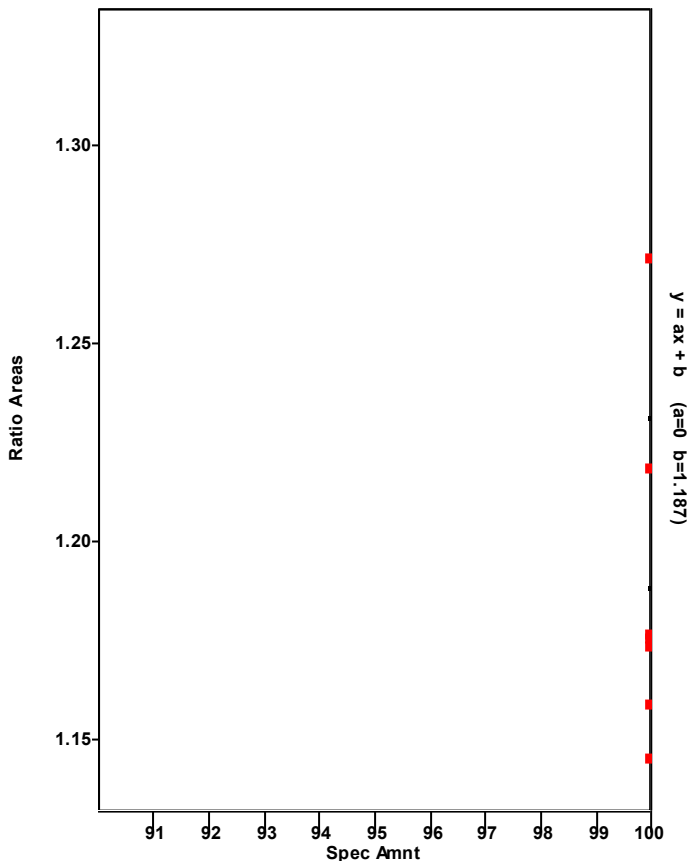


NL:
2.08E5
m/z=
331.92-
331.95 MS
ICIS
HRMS01_2
20207_25

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

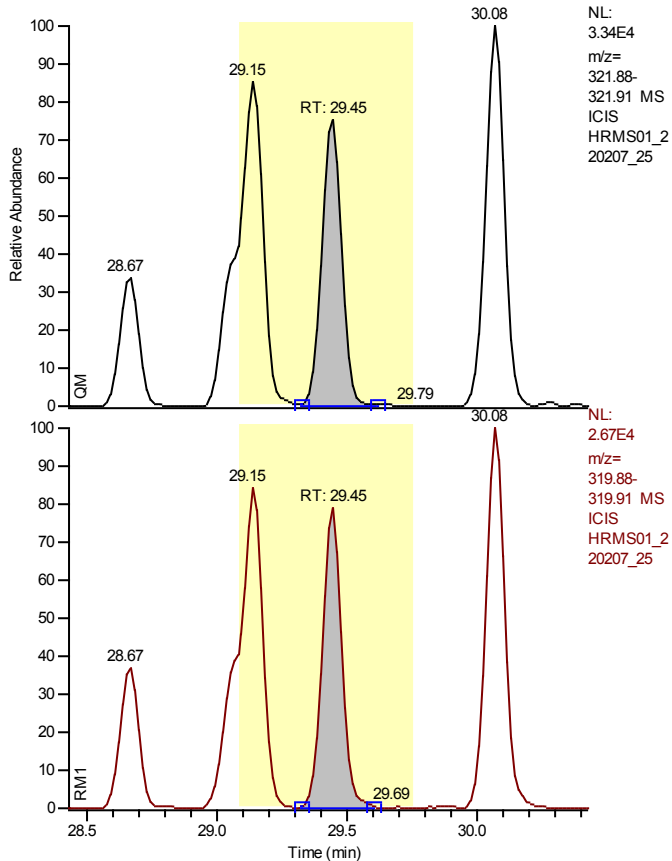
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

Entry Parameters

RT: 28.43 - 30.43 SM: 7G



NL: 3.34E4
 m/z= 321.88-321.91 MS
 ICIS HRMS01_2 20207_25

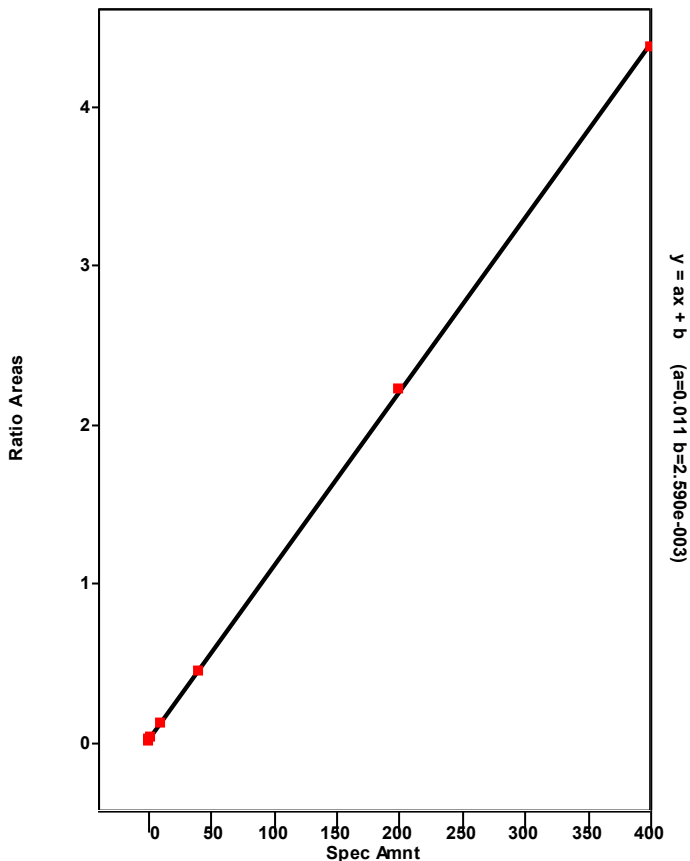
NL: 2.67E4
 m/z= 319.88-319.91 MS
 ICIS HRMS01_2 20207_25

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	132505
RM1 Area	107534
RM1 Ratio (A)	0.8115
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.78
Percent Recovery (A)	88
TEQ (A)	8.7832
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

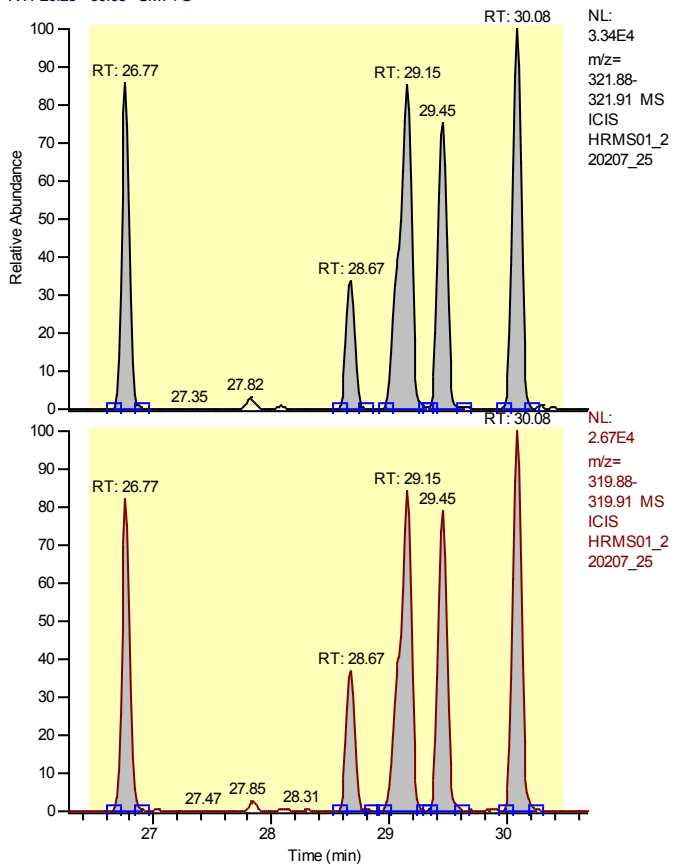
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.28 - 30.68 SM: 7G

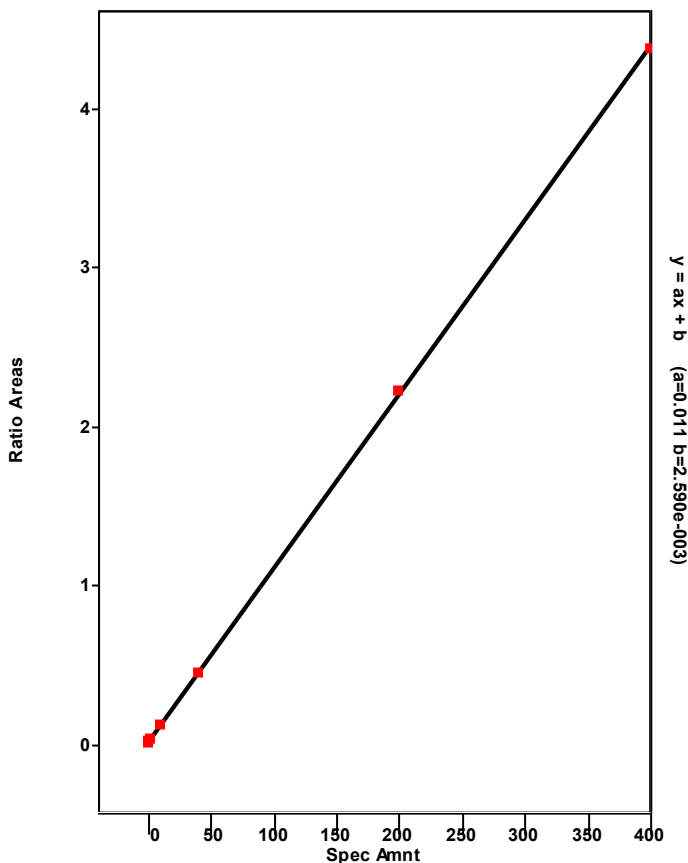


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	700098
RM1 Area	550317
RM1 Ratio (A)	0.7861
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	45.75
Percent Recovery (A)	458
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

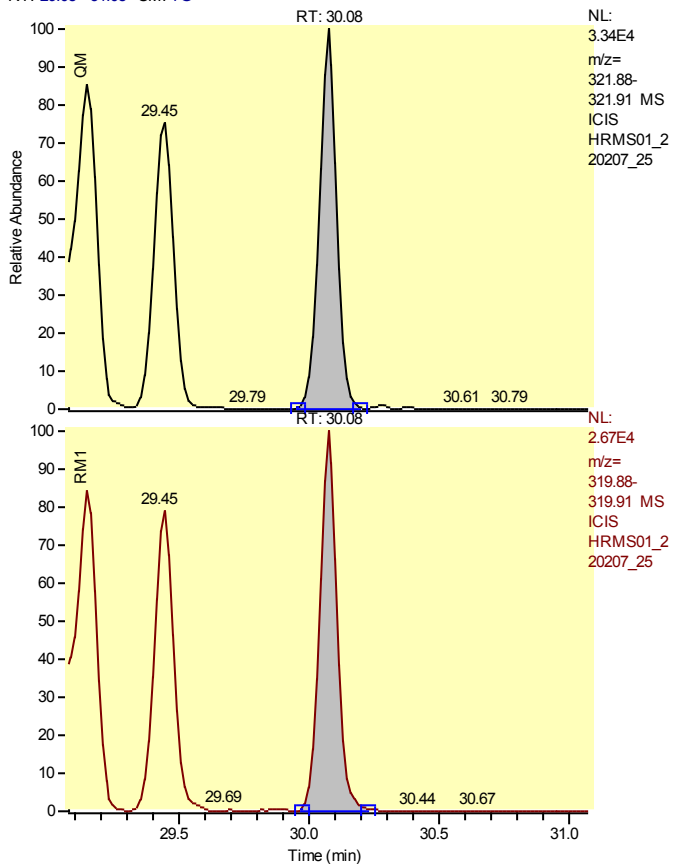
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 29.08 - 31.08 SM: 7G

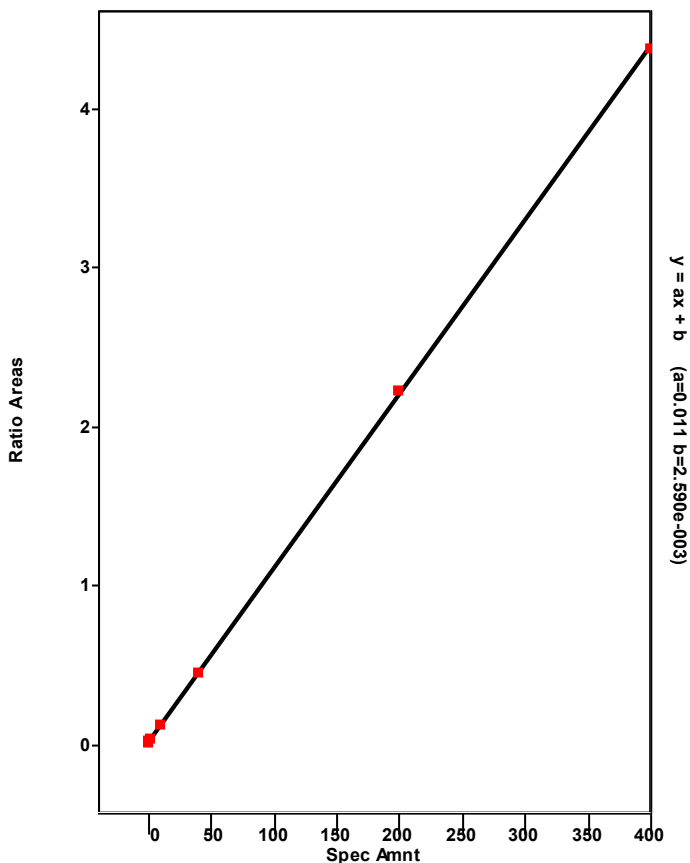


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	165403
RM1 Area	131548
RM1 Ratio (A)	0.7953
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.87
Percent Recovery (A)	109
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

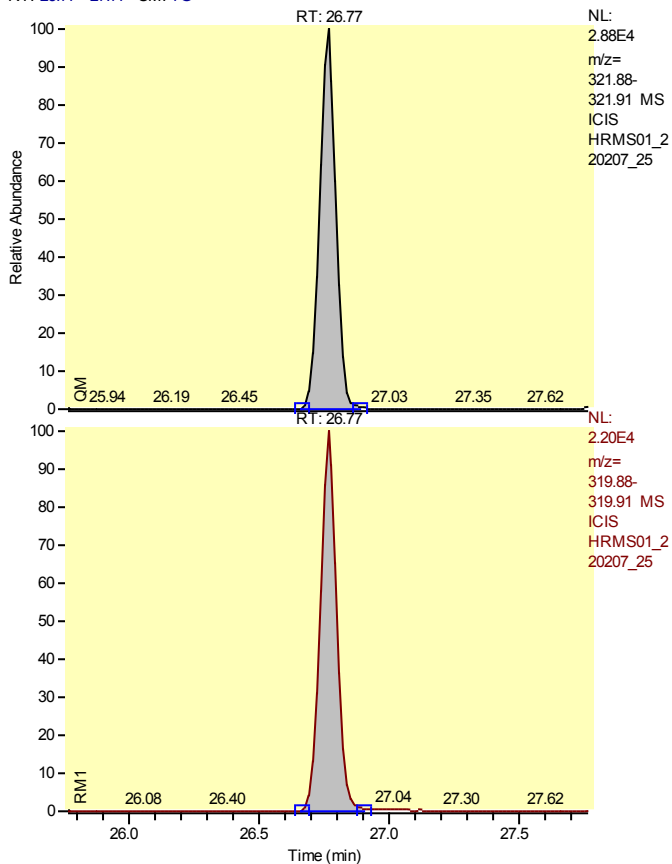
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.77 - 27.77 SM: 7G

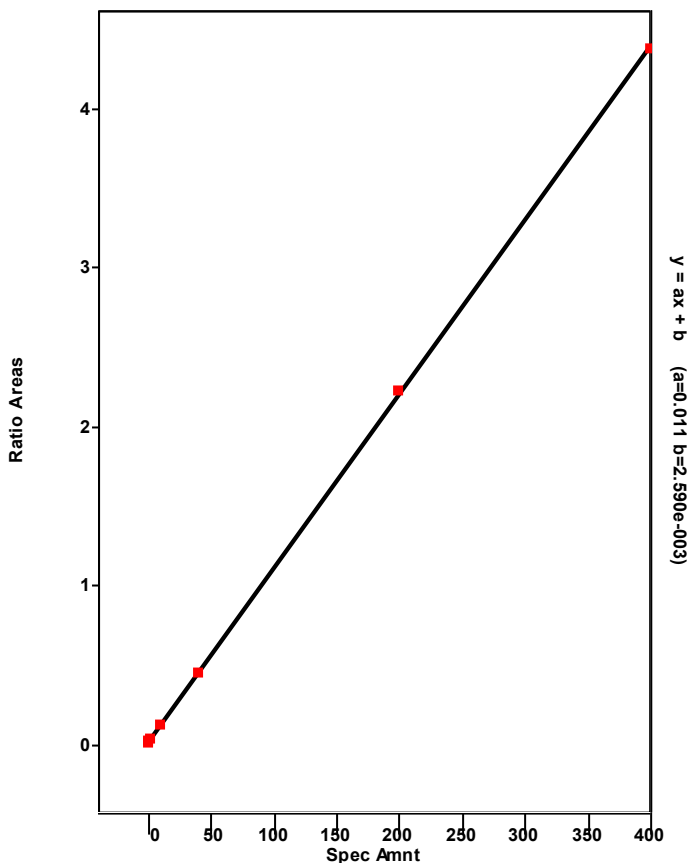


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	134613
RM1 Area	103573
RM1 Ratio (A)	0.7694
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.72
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

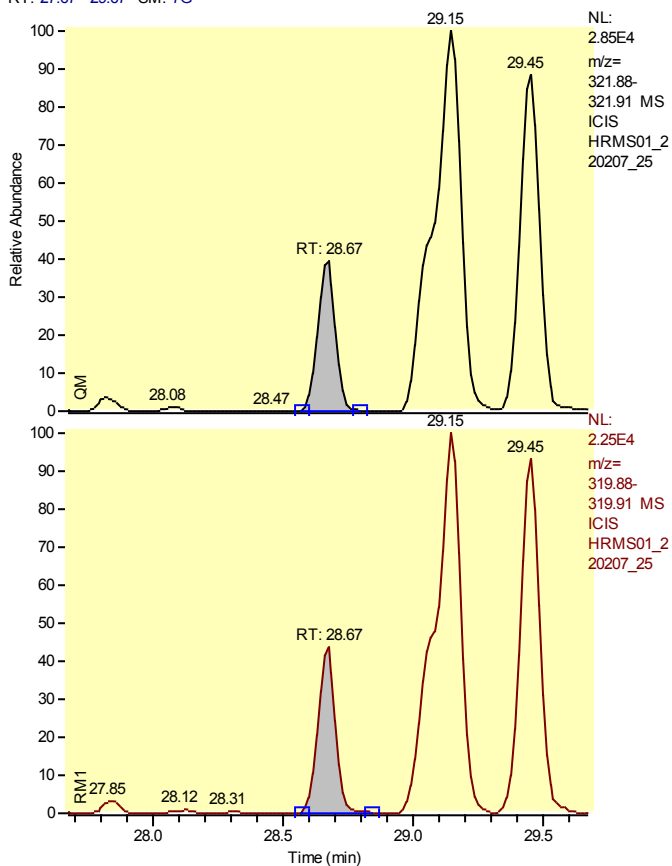
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 27.67 - 29.67 SM: 7G

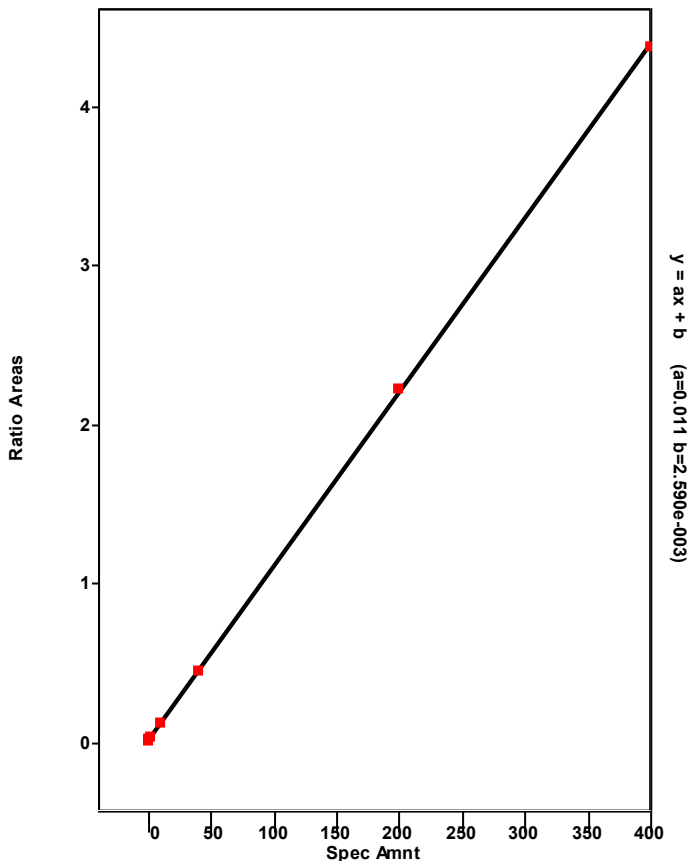


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	56847
RM1 Area	49176
RM1 Ratio (A)	0.8651
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	3.88
Percent Recovery (A)	39
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

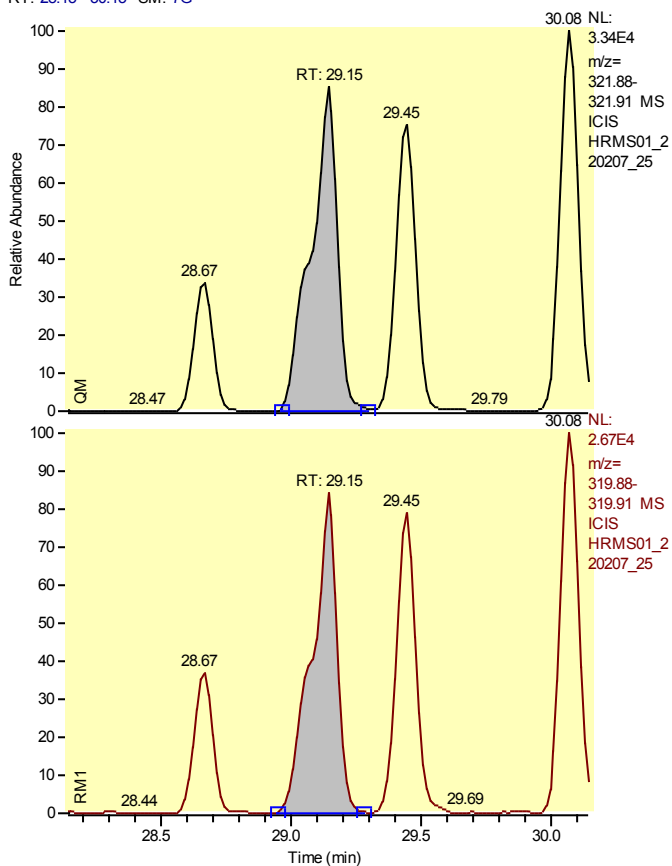
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 28.15 - 30.15 SM: 7G

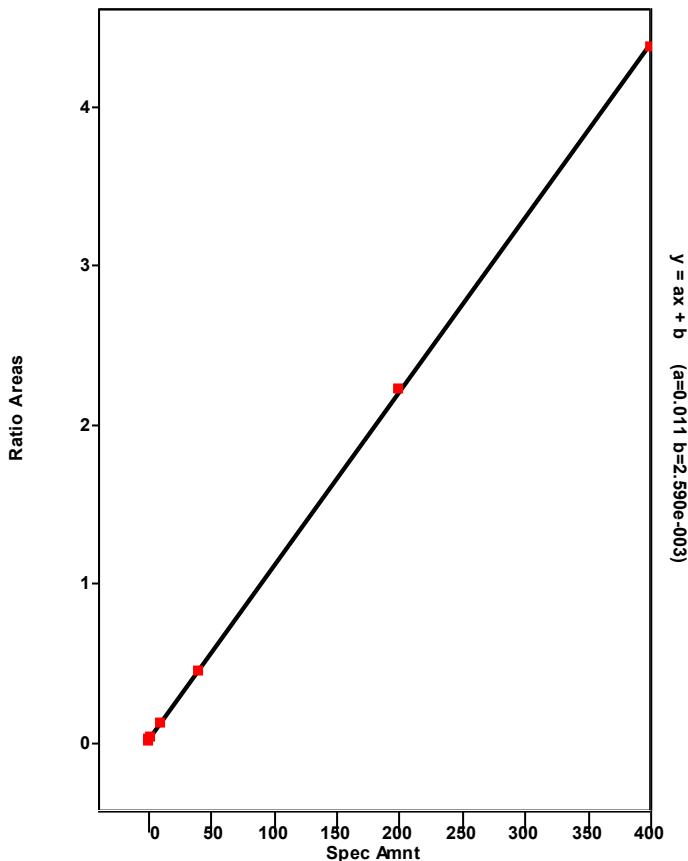


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	210730
RM1 Area	158485
RM1 Ratio (A)	0.7521
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	13.51
Percent Recovery (A)	135
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

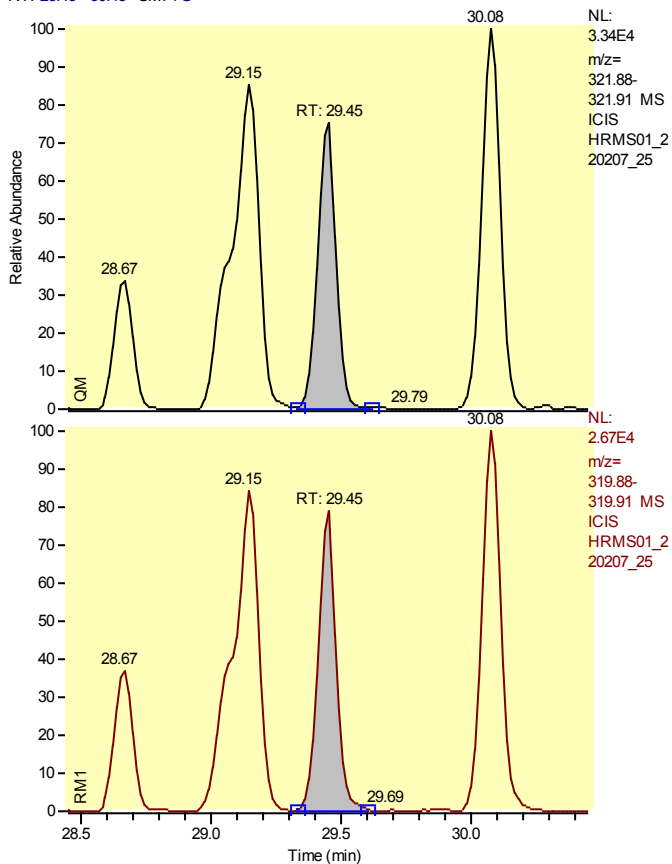
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 28.45 - 30.45 SM: 7G

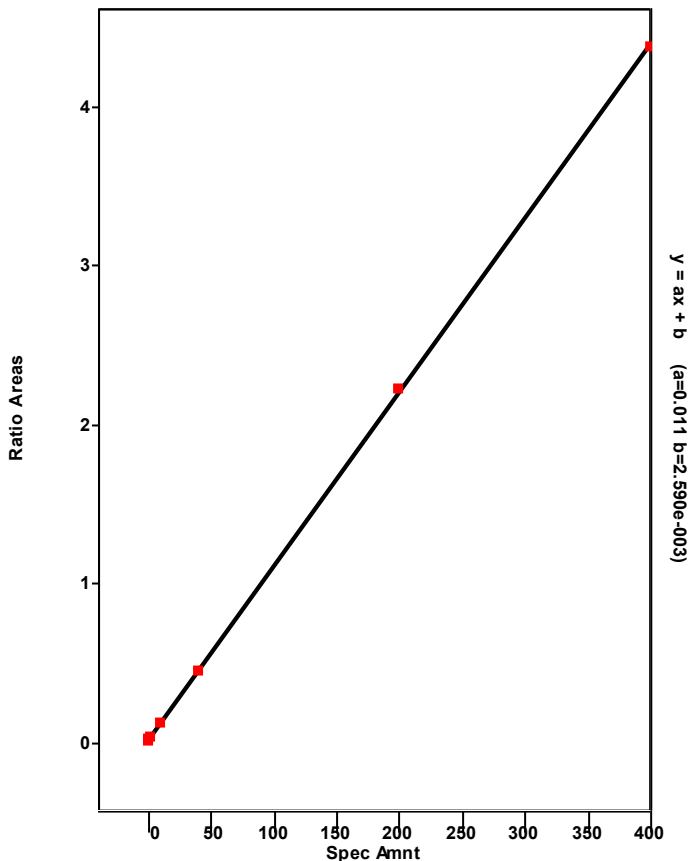


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	132505
RM1 Area	107534
RM1 Ratio (A)	0.8115
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.78
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

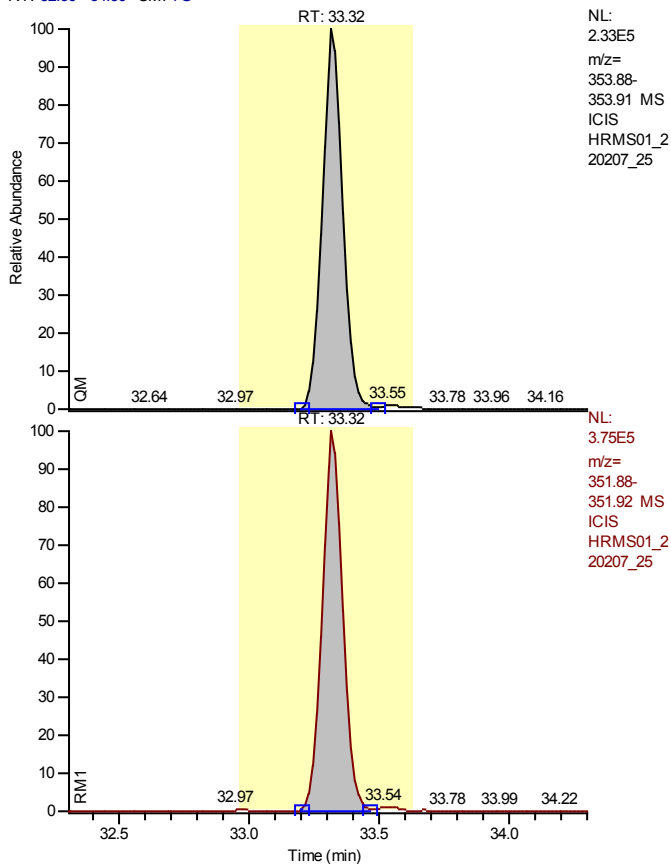
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



NL:
2.33E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20207_25

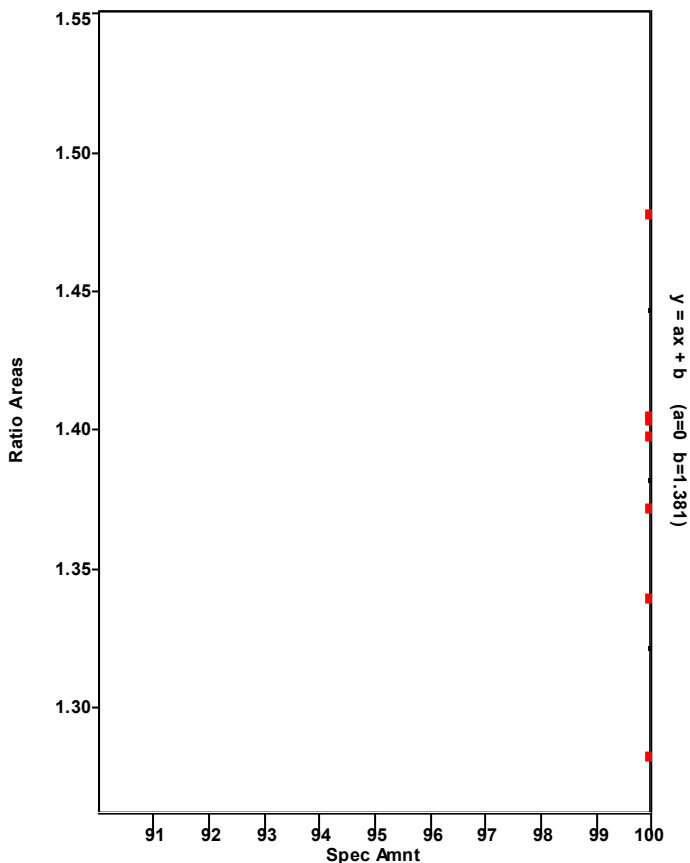
NL:
3.75E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1295508
RM1 Area	2083723
RM1 Ratio (A)	1.6084
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	129.88
Percent Recovery (A)	130
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

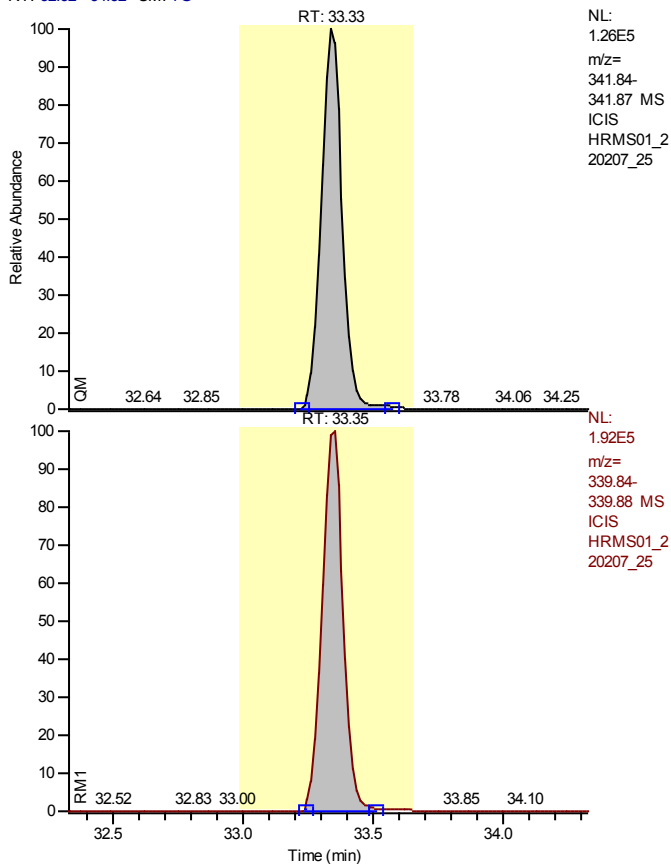
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.32- 34.32 SM: 7G



NL:
1.26E5
m/z=
341.84-
341.87 MS
ICIS
HRMS01_2
20207_25

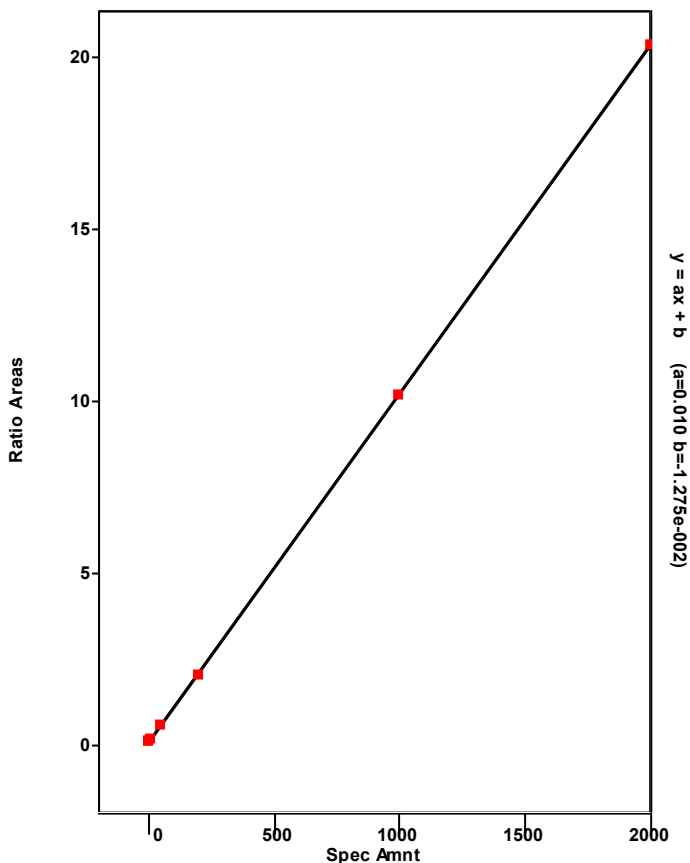
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	700095
RM1 Area	1076327
RM1 Ratio (A)	1.5374
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.25
Percent Recovery (A)	105
TEQ (A)	1.5676
Label2	

NL:
1.92E5
m/z=
339.84-
339.88 MS
ICIS
HRMS01_2
20207_25

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

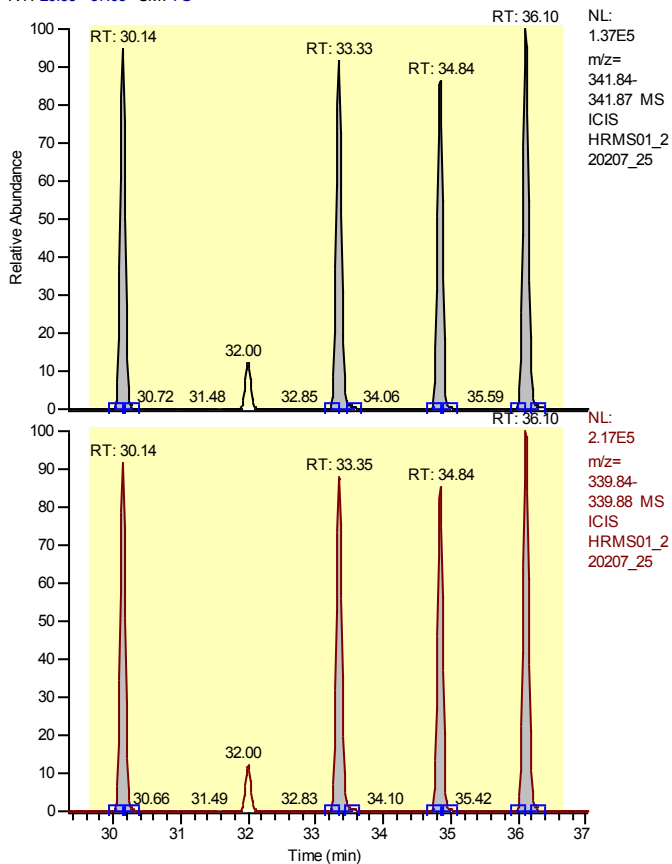
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.33 - 37.03 SM: 7G

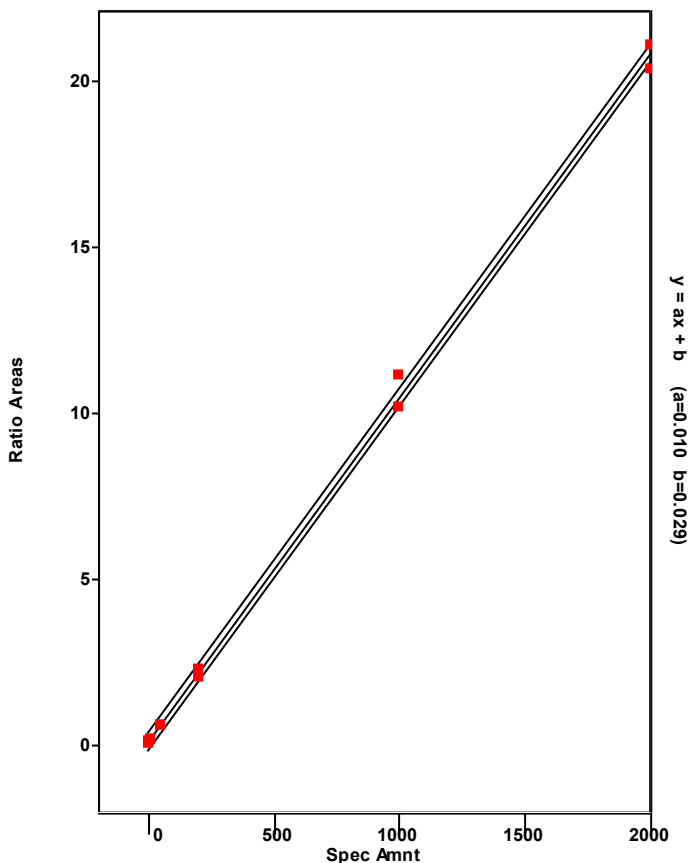


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	2858620
RM1 Area	4461028
RM1 Ratio (A)	1.5606
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	204.45
Percent Recovery (A)	409
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

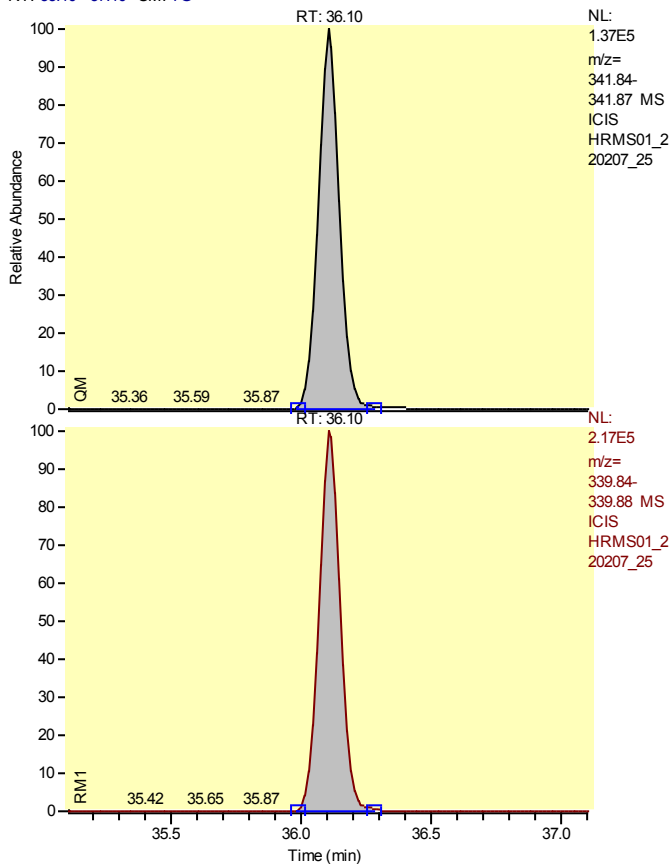
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 35.10 - 37.10 SM: 7G

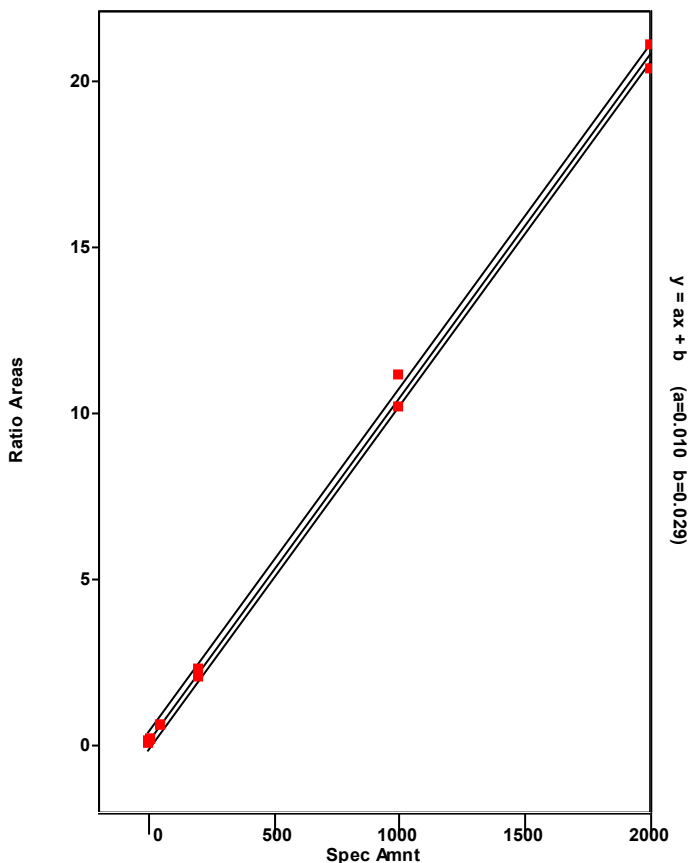


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	783054
RM1 Area	1250417
RM1 Ratio (A)	1.5968
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	56.80
Percent Recovery (A)	114
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

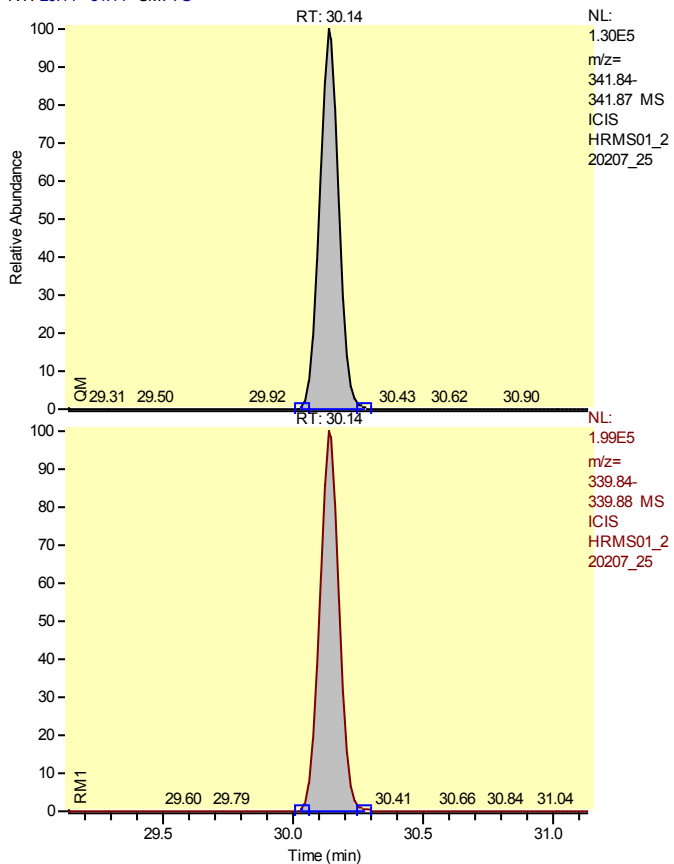
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 29.14 - 31.14 SM: 7G

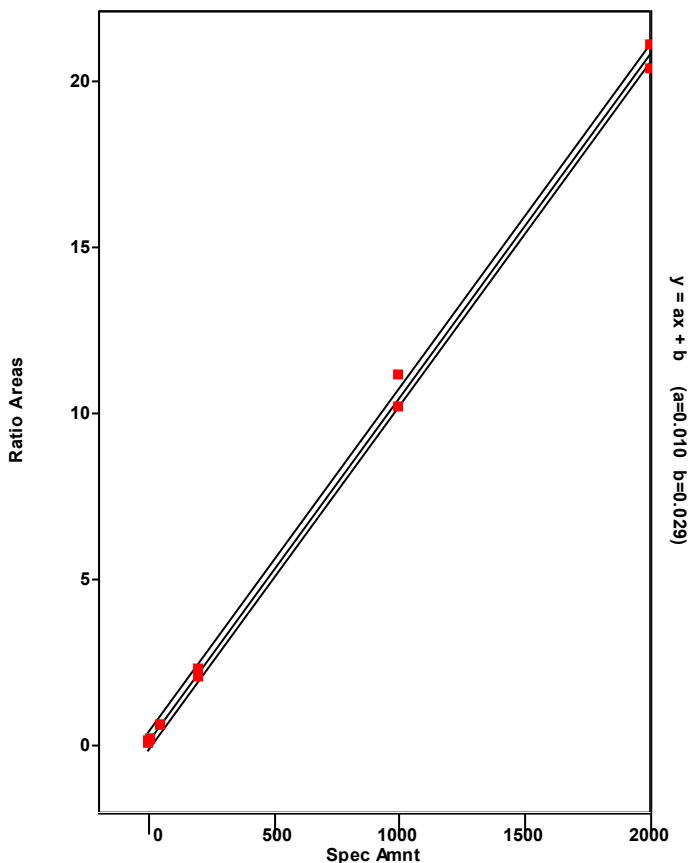


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	719310
RM1 Area	1114207
RM1 Ratio (A)	1.5490
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	51.21
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

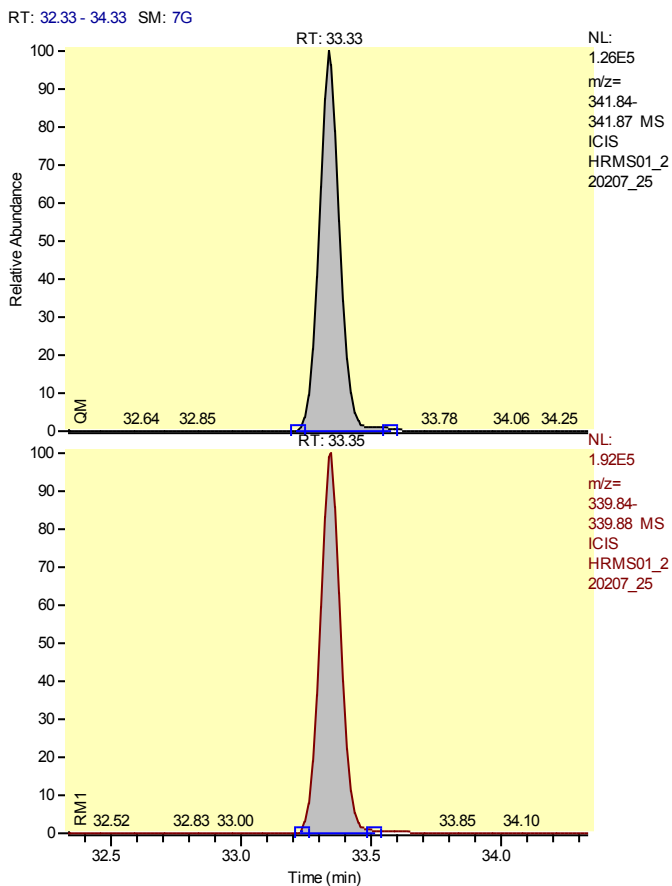
Calibration Points of Total Pentachlorodibenzofuran__2

Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

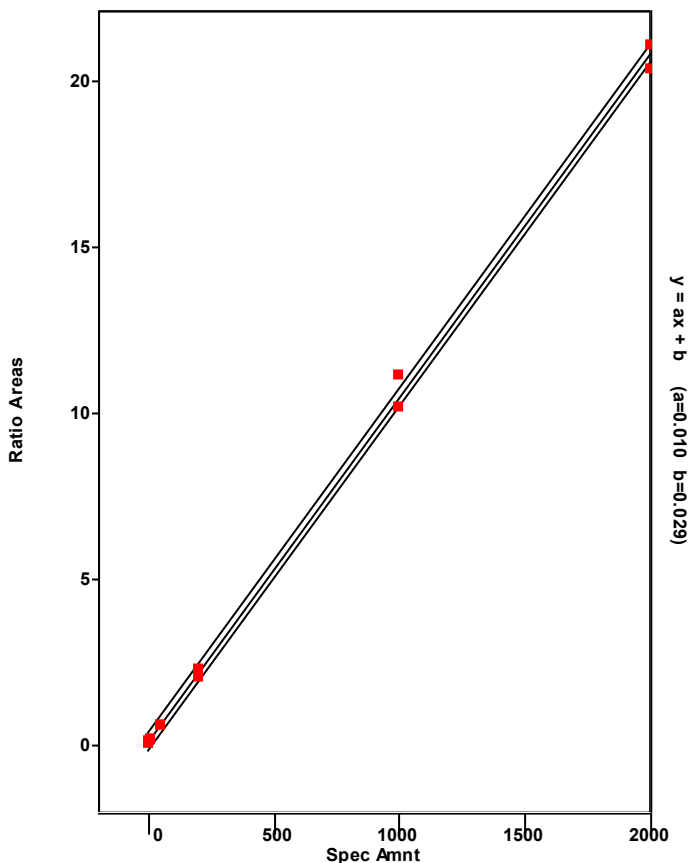


Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	700095
RM1 Area	1076327
RM1 Ratio (A)	1.5374
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	49.62
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

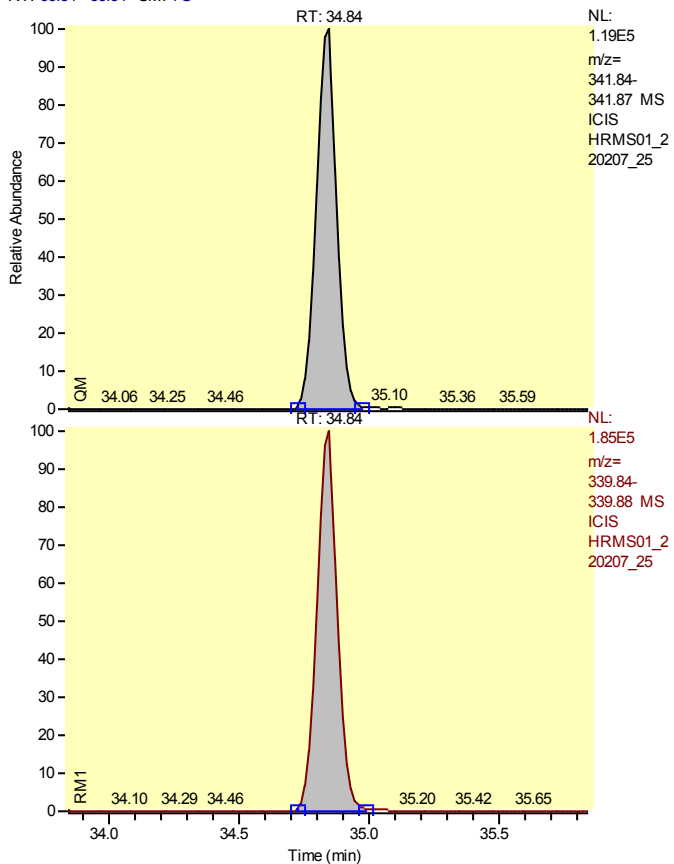
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.84 - 35.84 SM: 7G

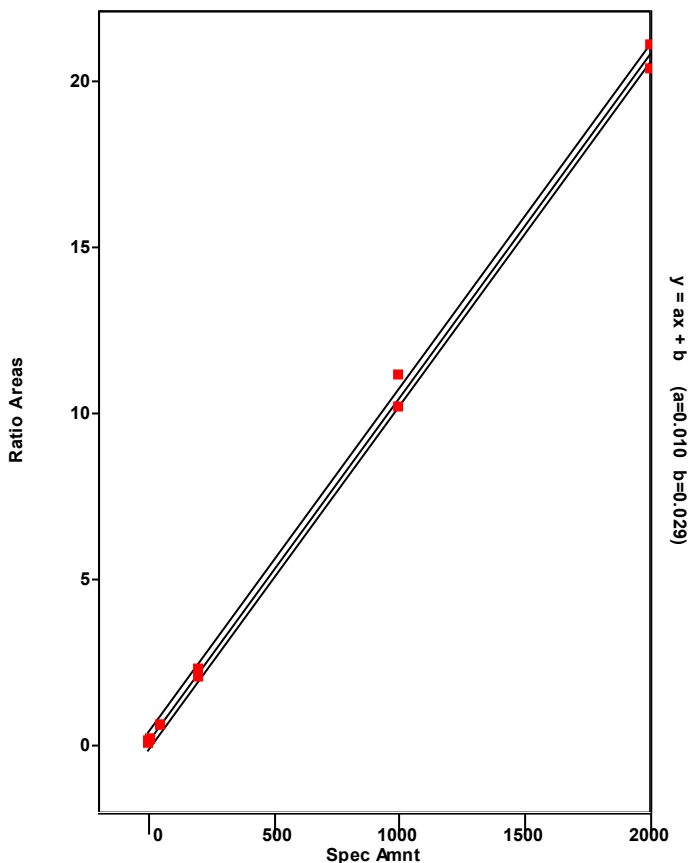


Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	656162
RM1 Area	1020077
RM1 Ratio (A)	1.5546
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	46.82
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

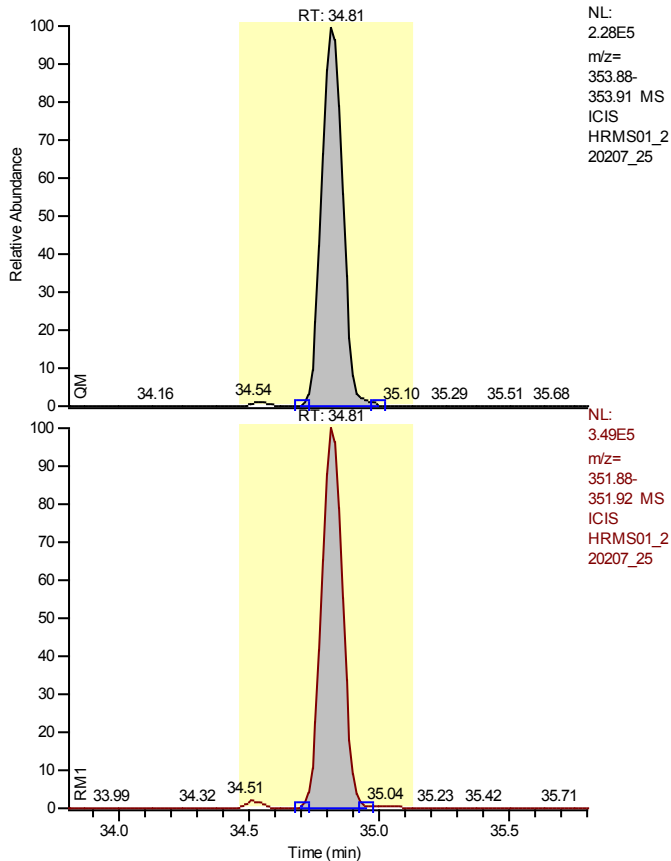
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.80 - 35.80 SM: 7G



NL:
2.28E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20207_25

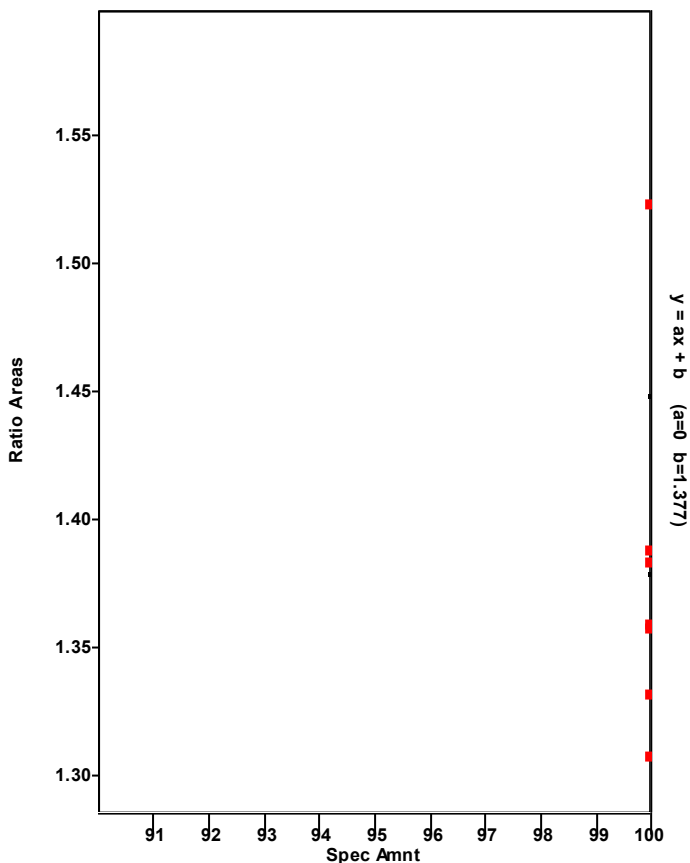
NL:
3.49E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1264309
RM1 Area	1927347
RM1 Ratio (A)	1.5244
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	123.03
Percent Recovery (A)	123
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

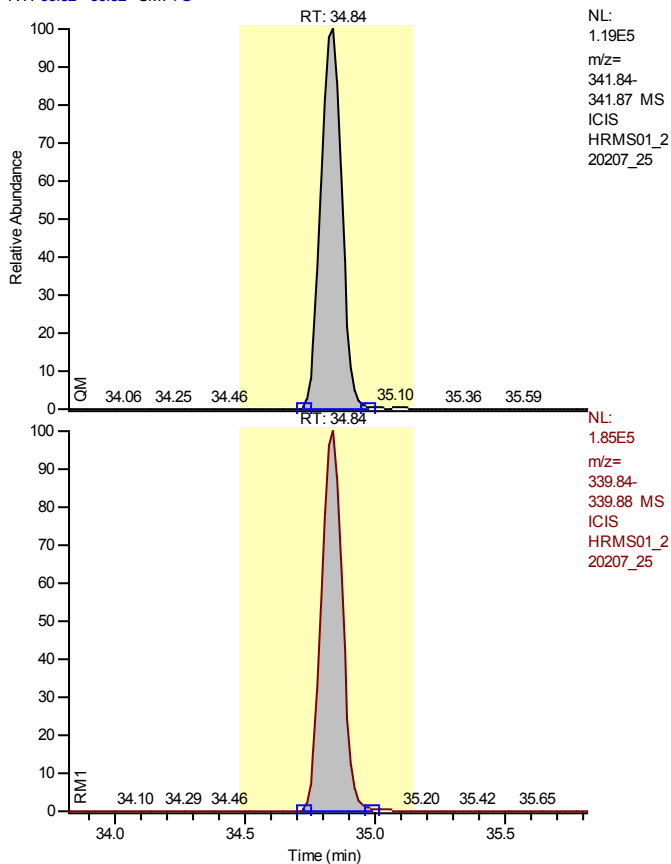
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.82- 35.82 SM: 7G

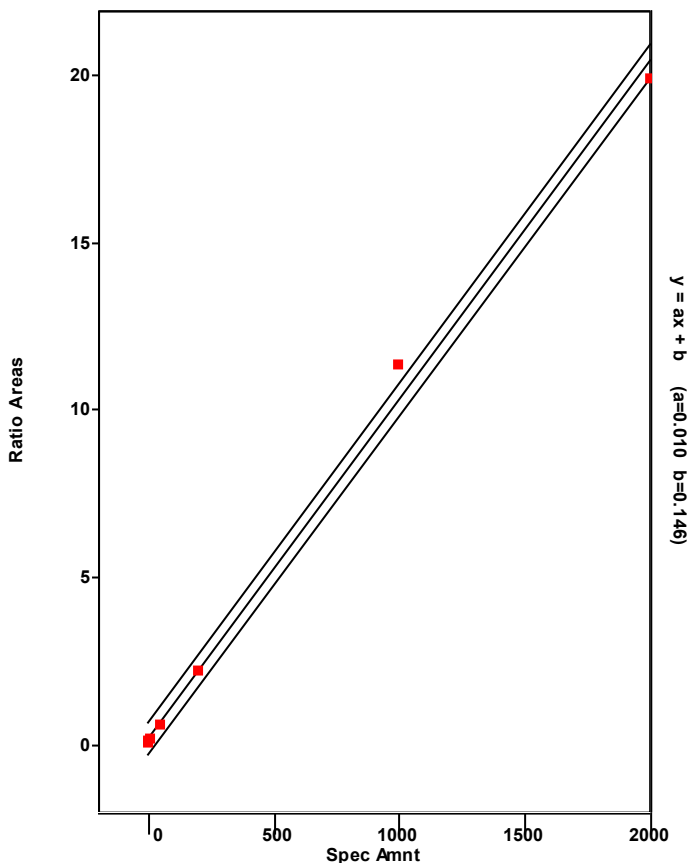


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	656162
RM1 Area	1020077
RM1 Ratio (A)	1.5546
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	46.99
Percent Recovery (A)	94
TEQ (A)	14.0971
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

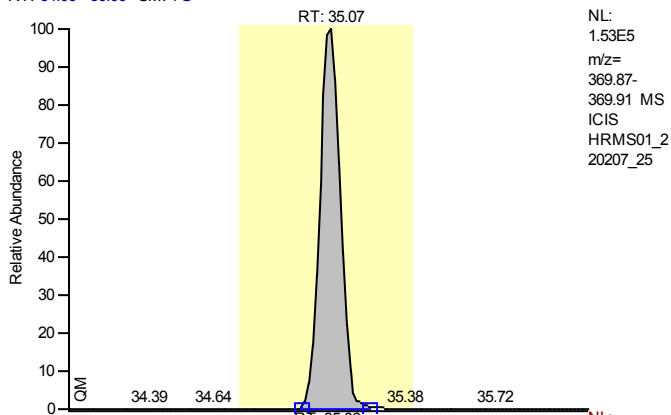
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



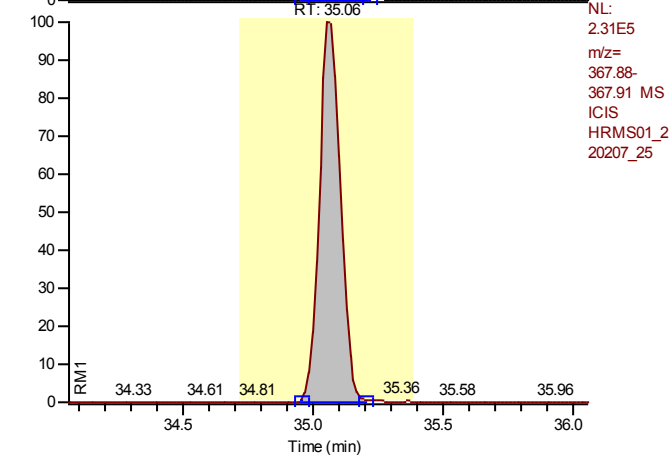
Chromatogram

Entry Parameters

RT: 34.06 - 36.06 SM: 7G



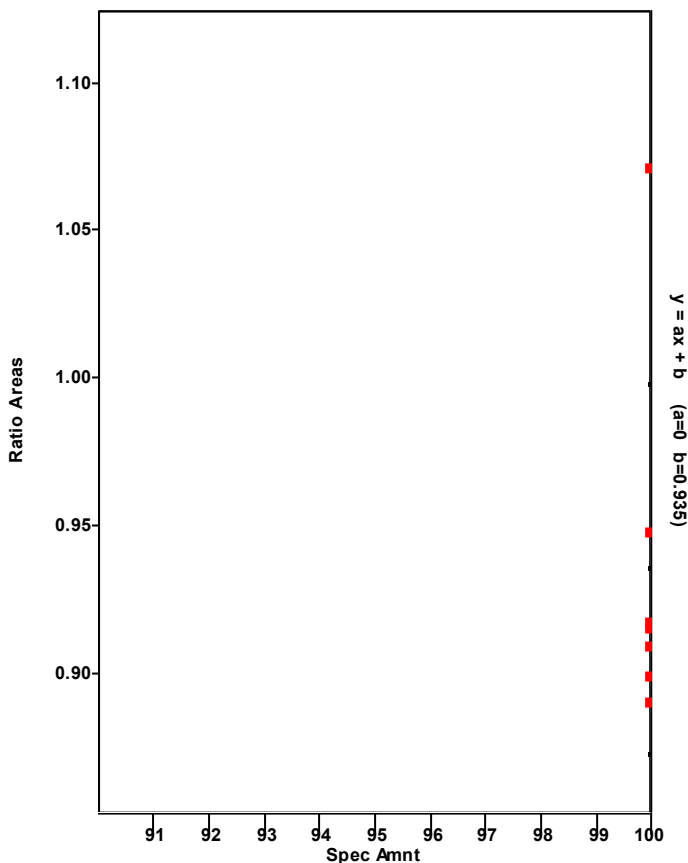
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	852230
RM1 Area	1321027
RM1 Ratio (A)	1.5501
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	123.47
Percent Recovery (A)	123
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

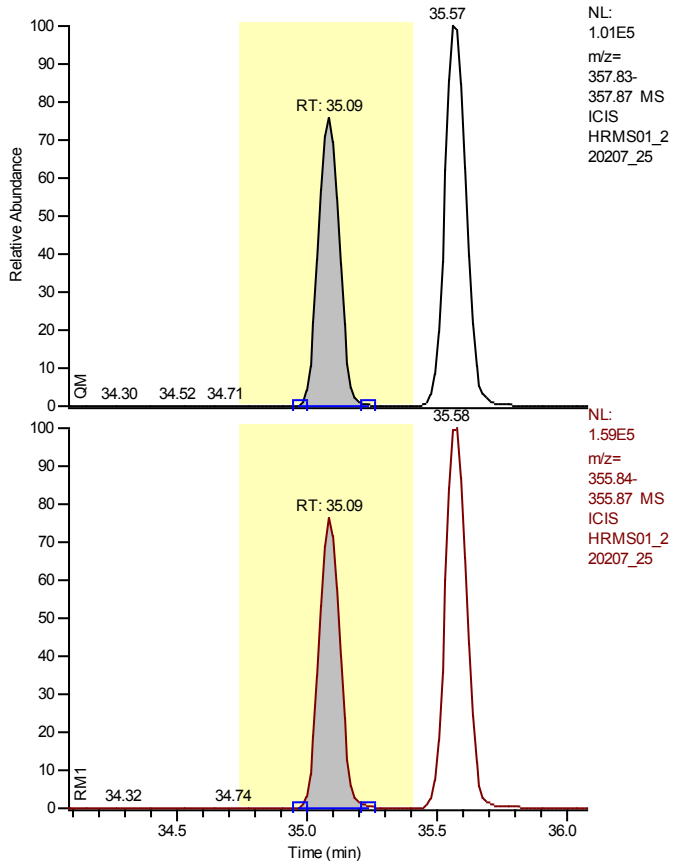
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.08 - 36.08 SM: 7G

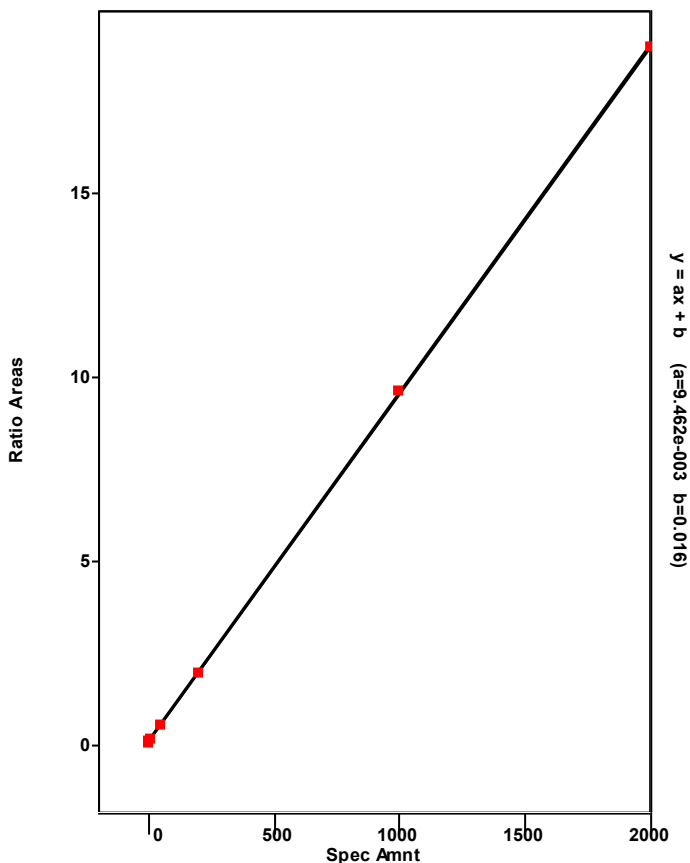


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	424723
RM1 Area	672465
RM1 Ratio (A)	1.5833
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.63
Percent Recovery (A)	101
TEQ (A)	50.6250
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

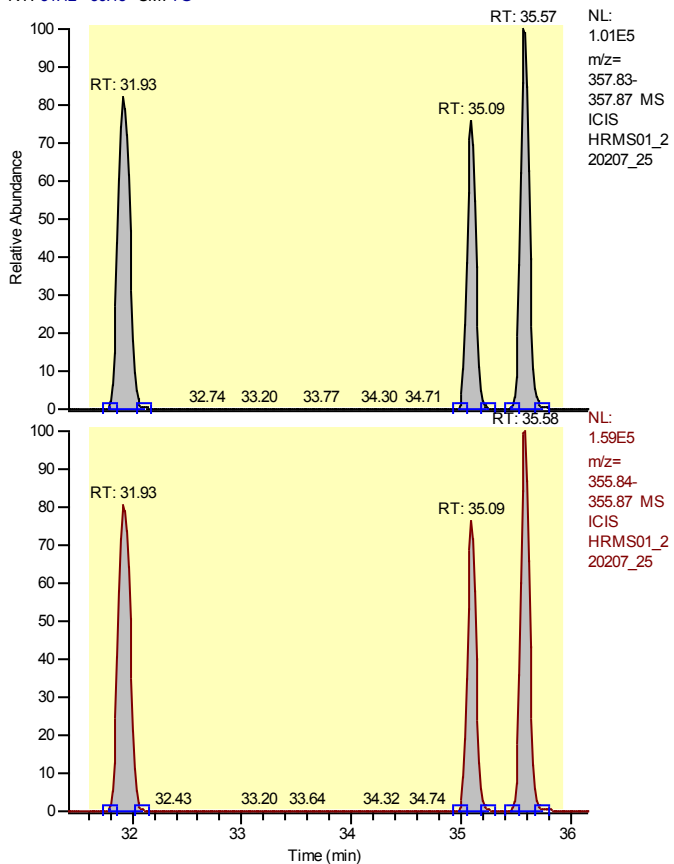
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 31.42- 36.15 SM: 7G

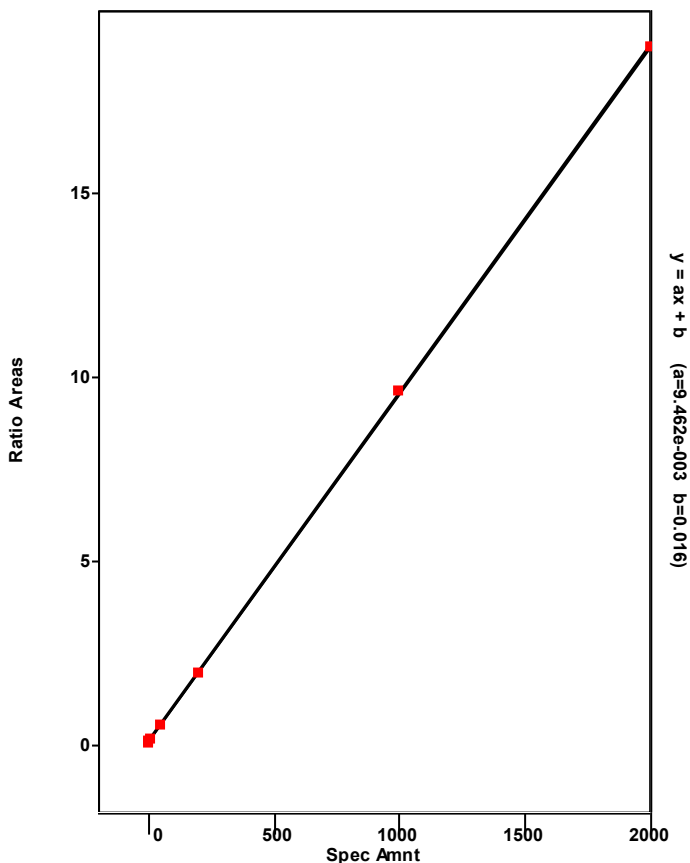


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	1626542
RM1 Area	2576967
RM1 Ratio (A)	1.5843
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	193.95
Percent Recovery (A)	388
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

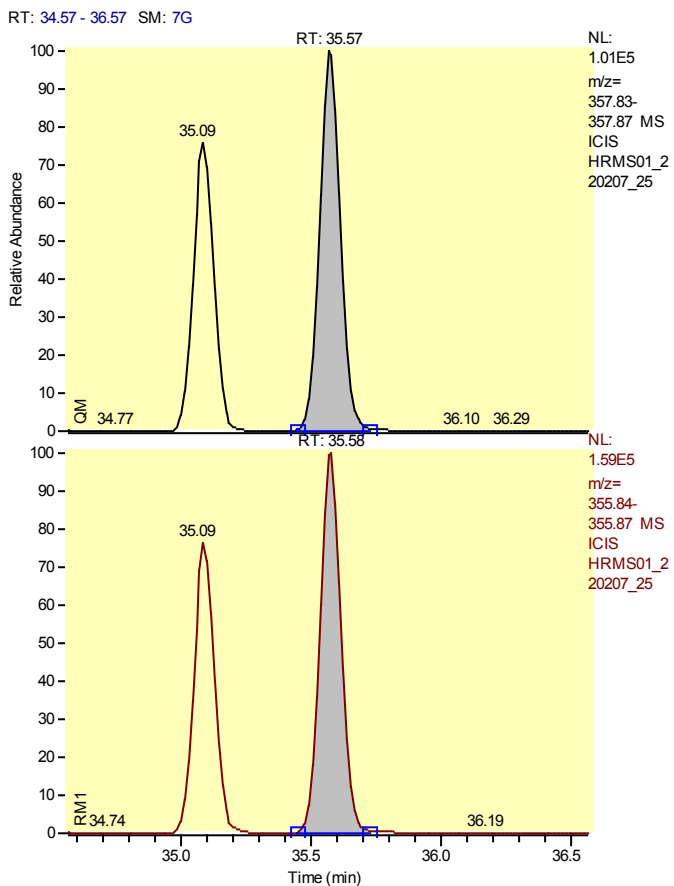
Calibration Points of Total Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

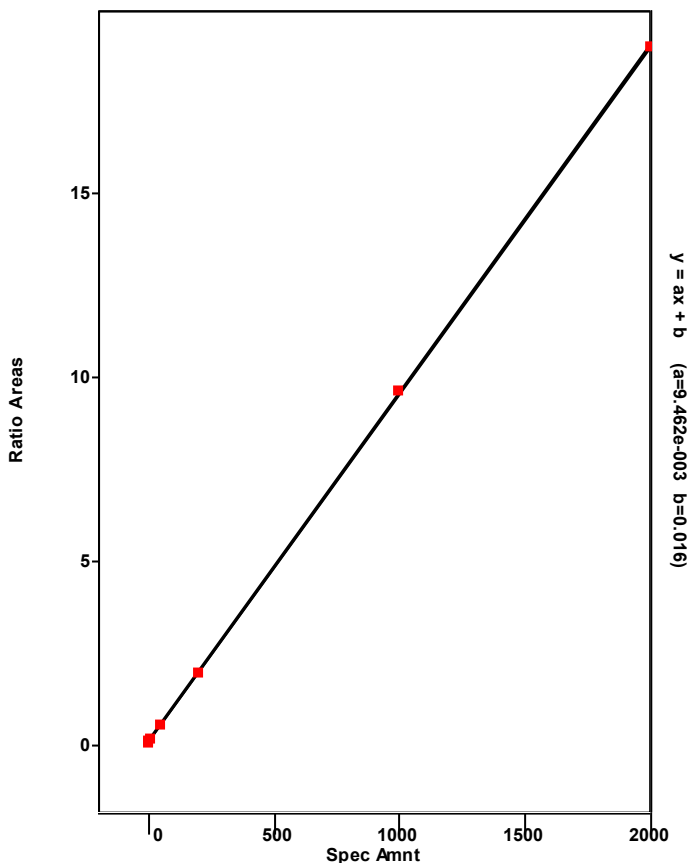


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	568540
RM1 Area	907371
RM1 Ratio (A)	1.5960
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	68.10
Percent Recovery (A)	136
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

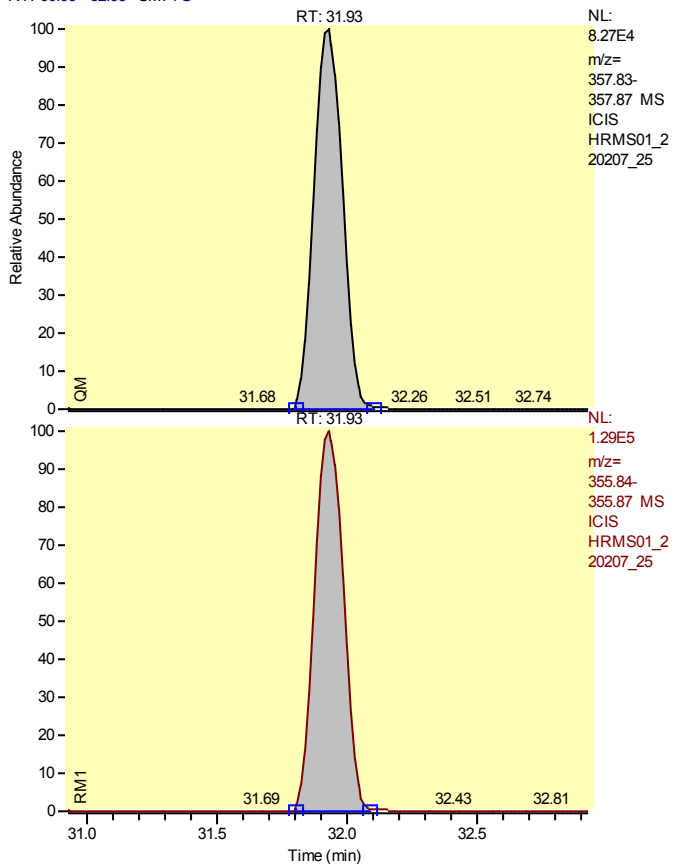
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.93 - 32.93 SM: 7G

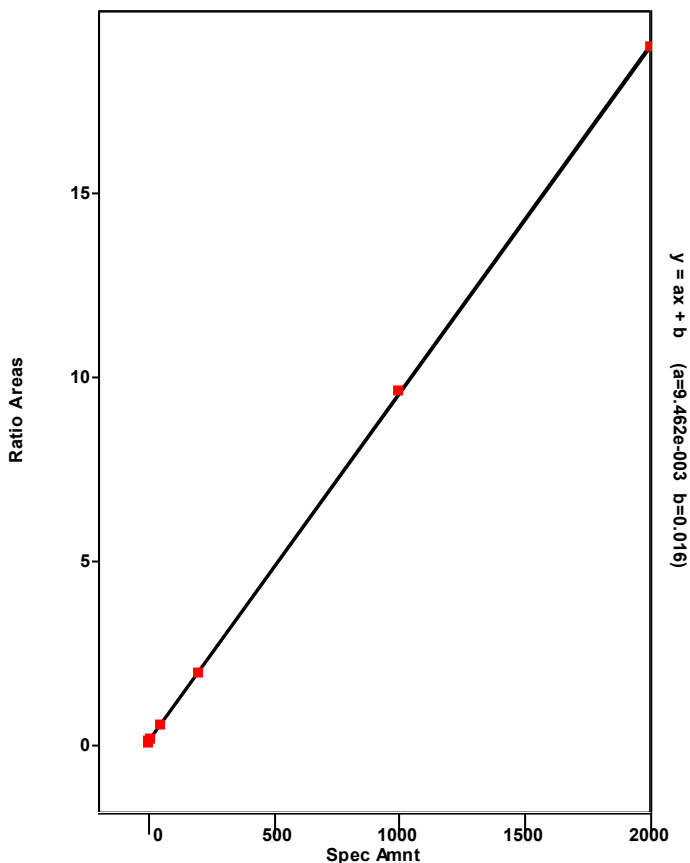


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	633279
RM1 Area	997131
RM1 Ratio (A)	1.5746
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	75.23
Percent Recovery (A)	150
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

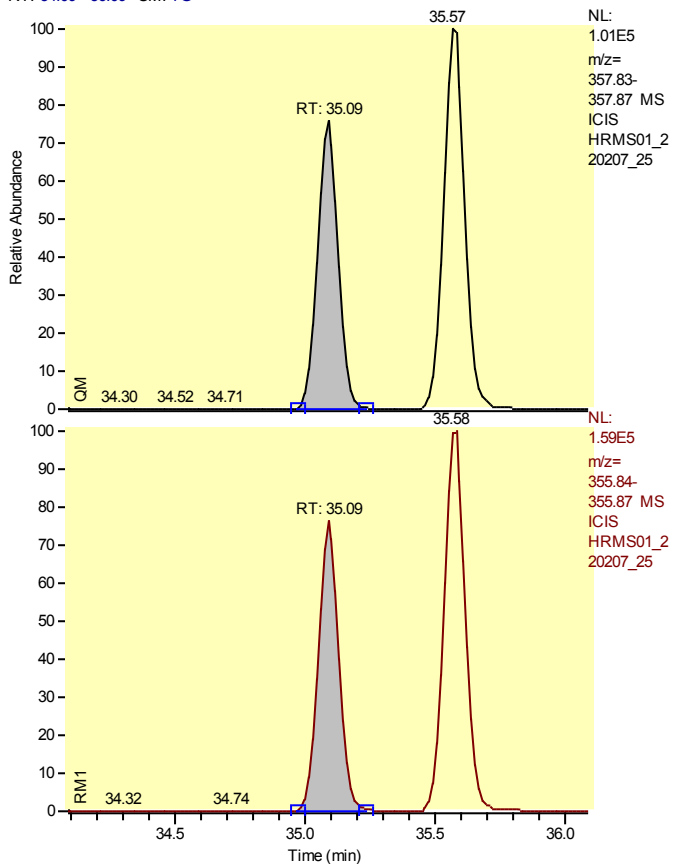
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 34.09 - 36.09 SM: 7G

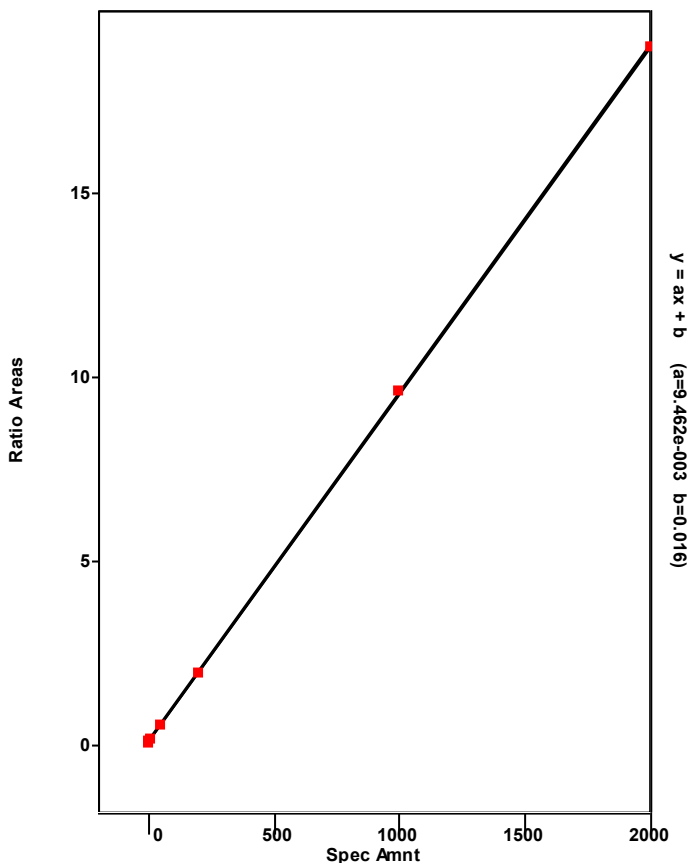


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	424723
RM1 Area	672465
RM1 Ratio (A)	1.5833
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.63
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

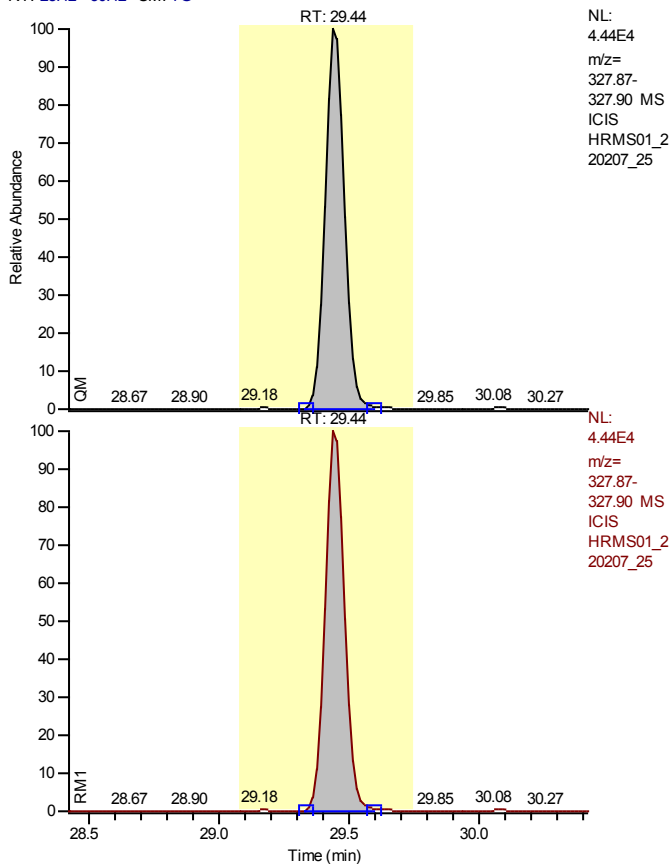
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.42 - 30.42 SM: 7G



NL:
 4.44E4
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20207_25

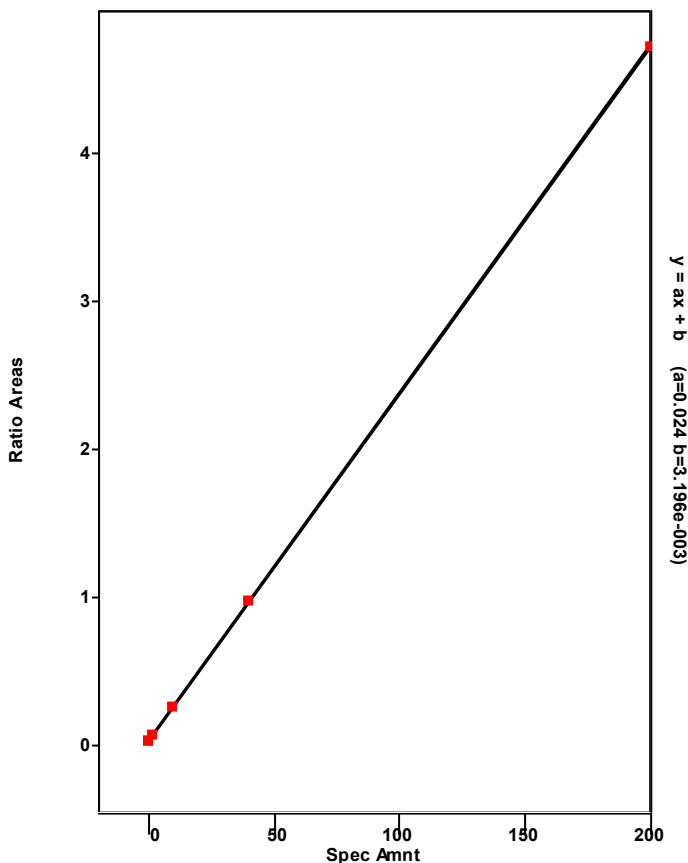
NL:
 4.44E4
 m/z=
 327.87-
 327.90 MS
 ICIS
 HRMS01_2
 20207_25

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	226485
RM1 Area	226485
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.98
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

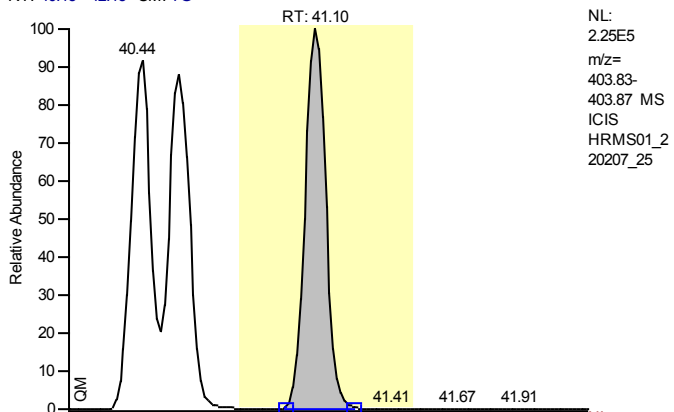
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

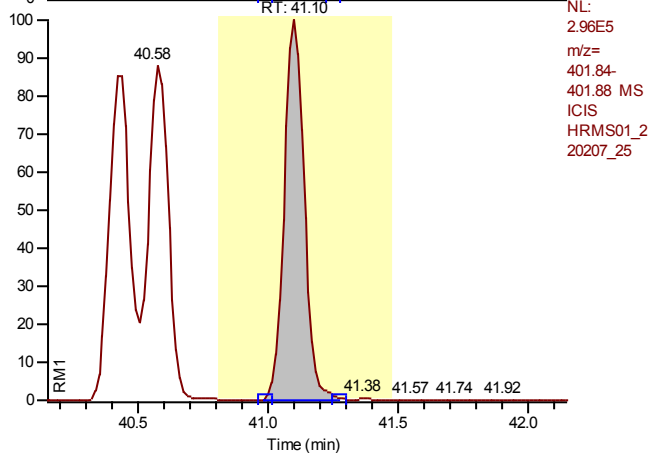
Entry Parameters

RT: 40.15- 42.15 SM: 7G



NL:
 2.25E5
 m/z=
 403.83-
 403.87 MS
 ICIS
 HRMS01_2
 20207_25

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1248974
RM1 Area	1585588
RM1 Ratio (A)	1.2695
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

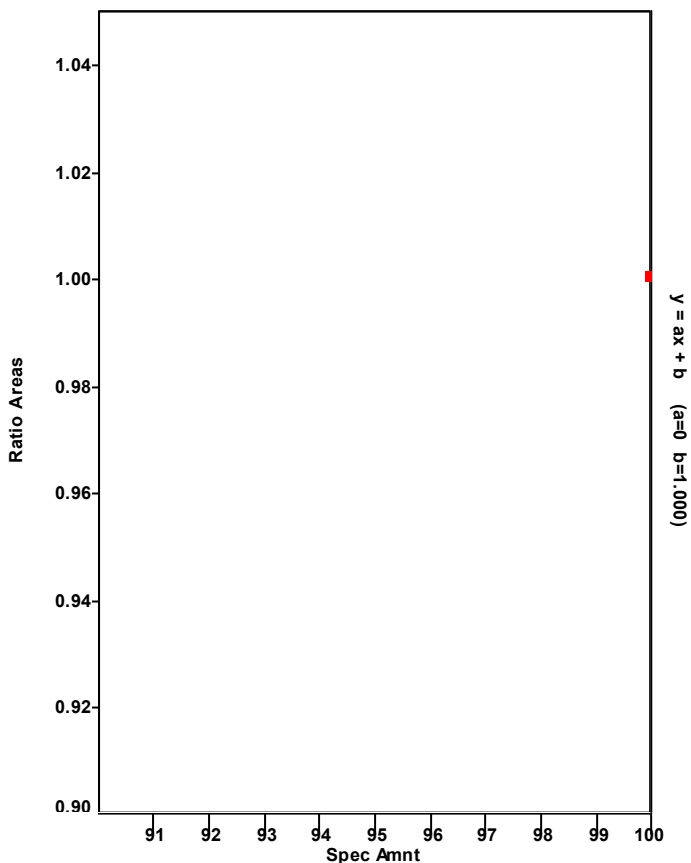


NL:
 2.96E5
 m/z=
 401.84-
 401.88 MS
 ICIS
 HRMS01_2
 20207_25

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

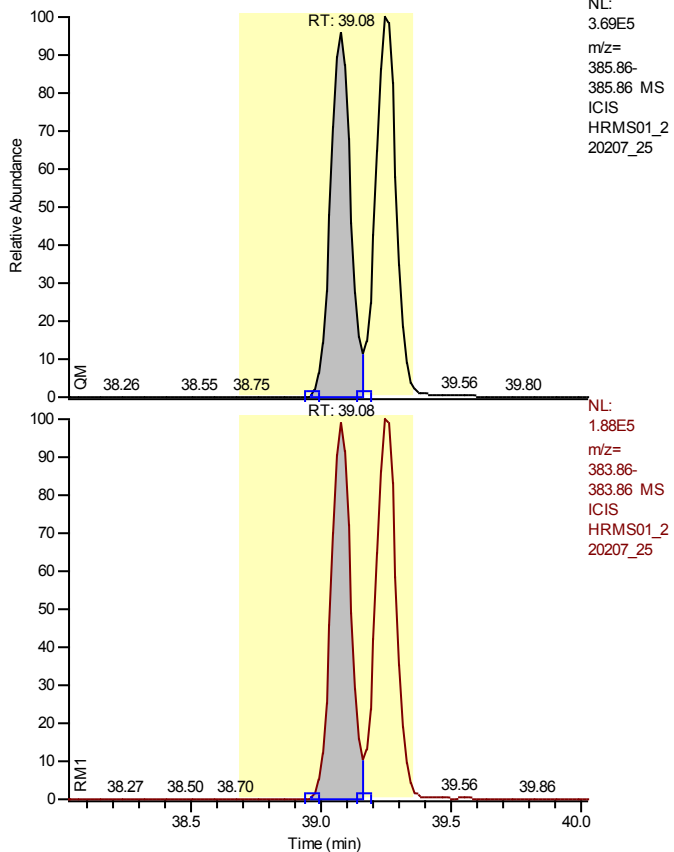
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.03 - 40.03 SM: 7G



NL:
 3.69E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_25

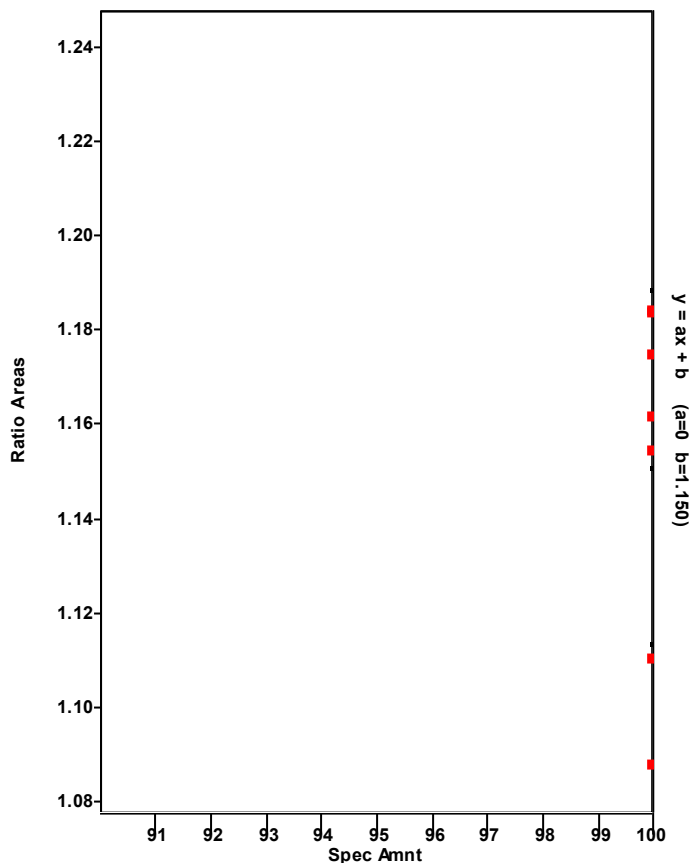
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1901139
RM1 Area	979204
RM1 Ratio (A)	0.5151
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	88.33
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

NL:
 1.88E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20207_25

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

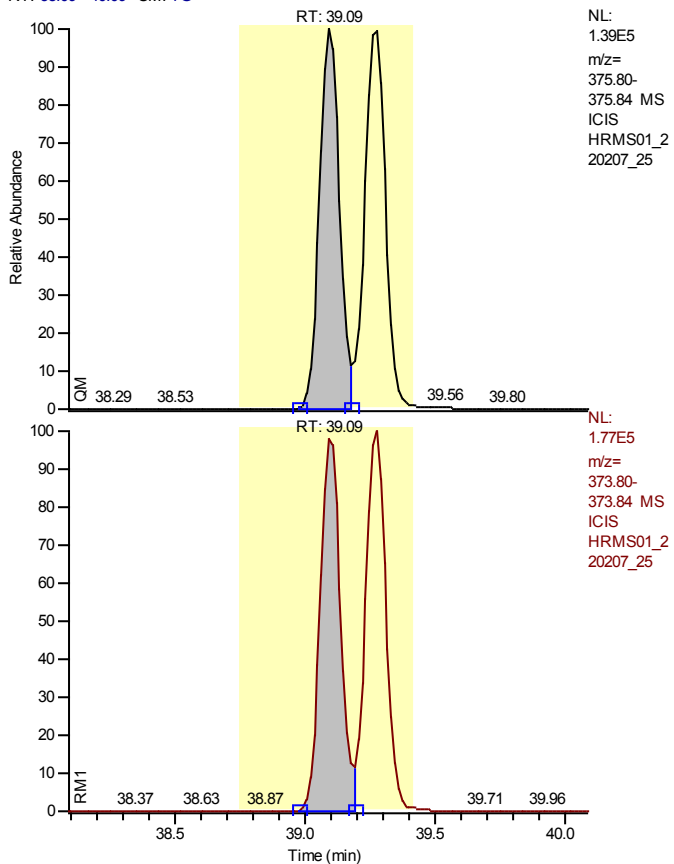
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G



NL:
 1.39E5
 m/z=
 375.80-
 375.84 MS
 ICIS
 HRMS01_2
 20207_25

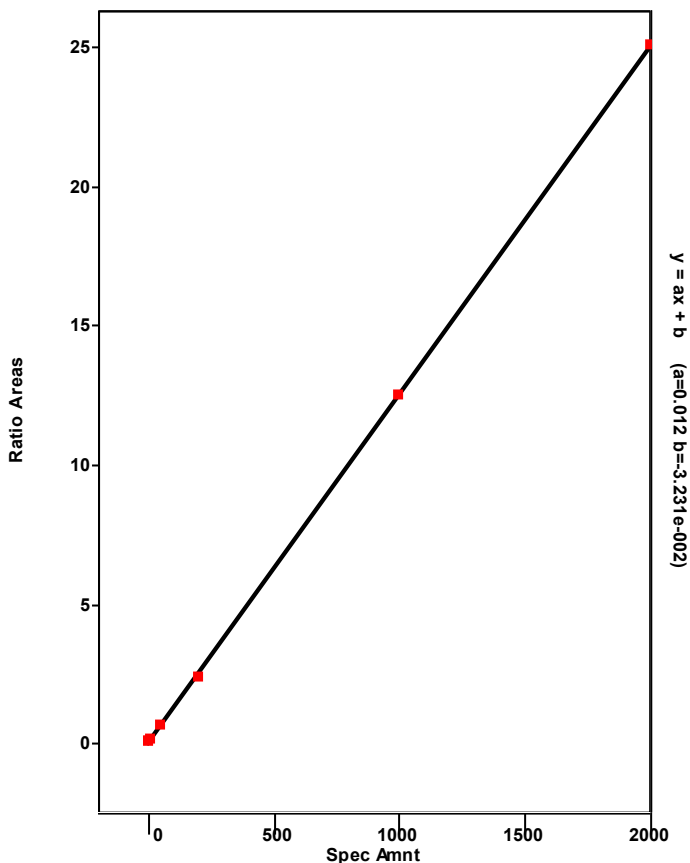
NL:
 1.77E5
 m/z=
 373.80-
 373.84 MS
 ICIS
 HRMS01_2
 20207_25

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	738846
RM1 Area	946875
RM1 Ratio (A)	1.2816
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.94
Percent Recovery (A)	94
TEQ (A)	4.6939
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

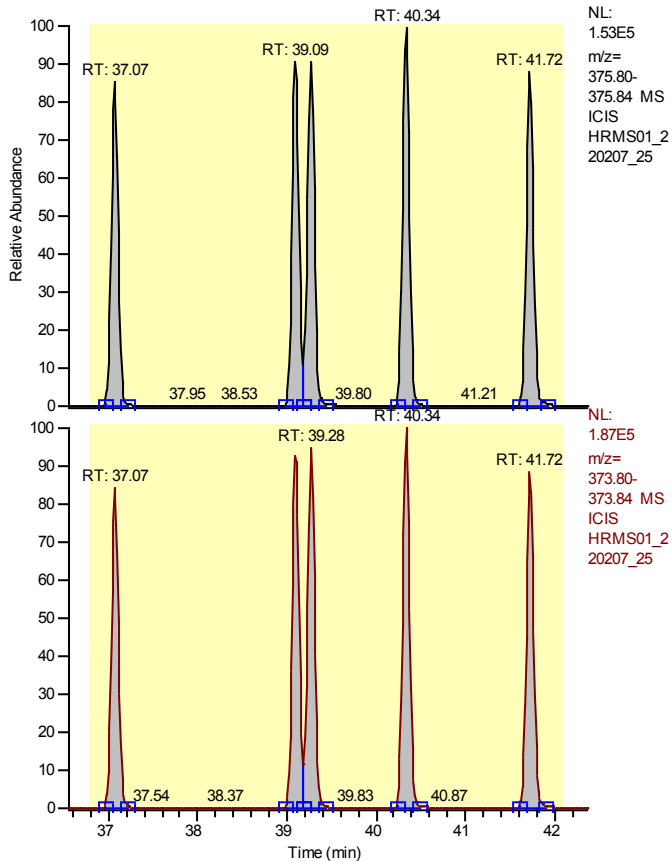
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 36.55 - 42.38 SM: 7G

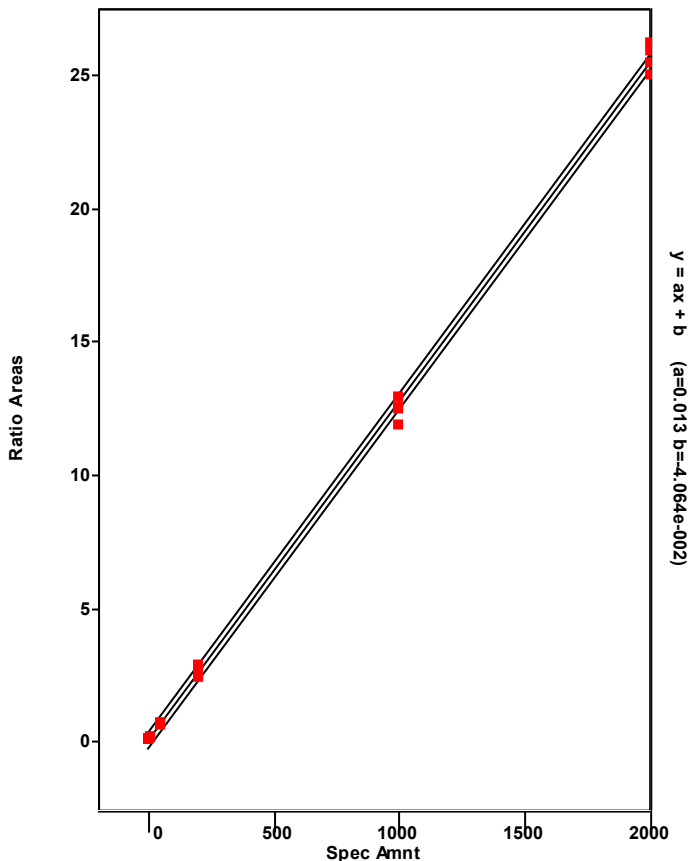


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	3823595
RM1 Area	4738136
RM1 Ratio (A)	1.2392
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	234.27
Percent Recovery (A)	469
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

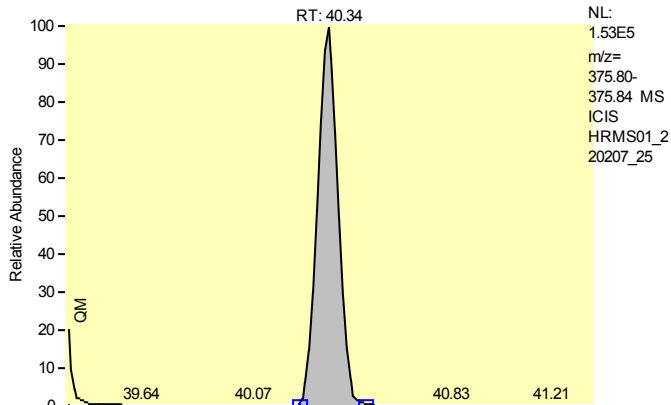
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

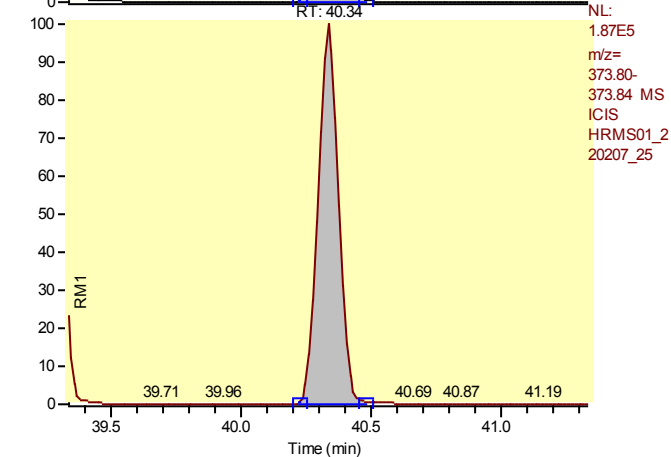
Entry Parameters

RT: 39.34 - 41.34 SM: 7G



NL:
1.53E5
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	838881
RM1 Area	1019939
RM1 Ratio (A)	1.2158
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.86
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

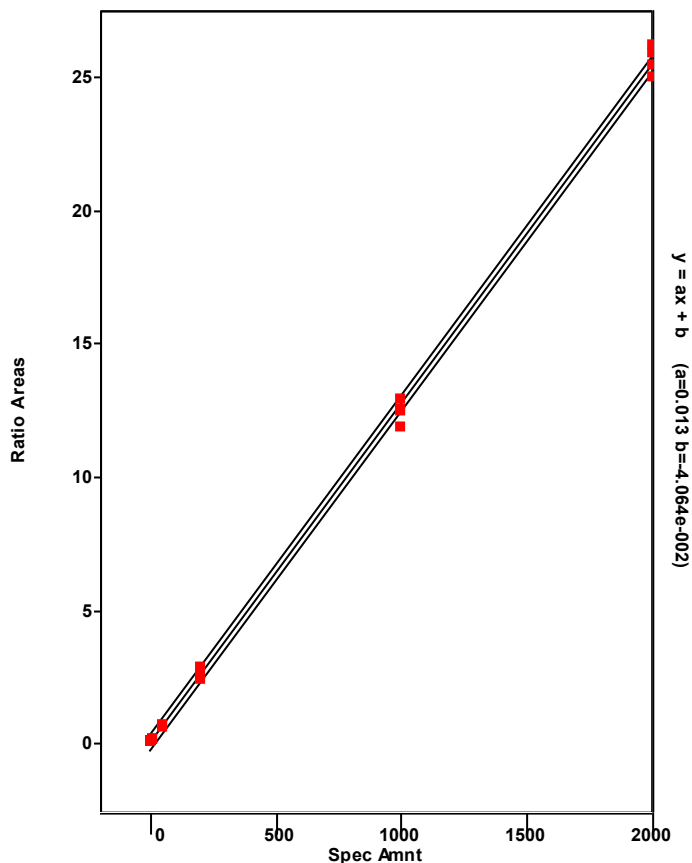


NL:
1.87E5
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20207_25

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

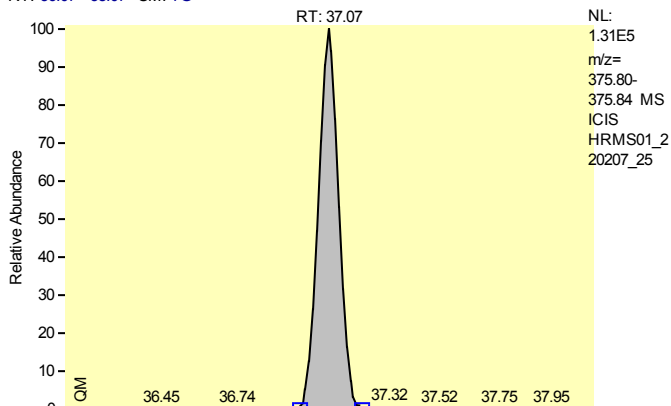
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



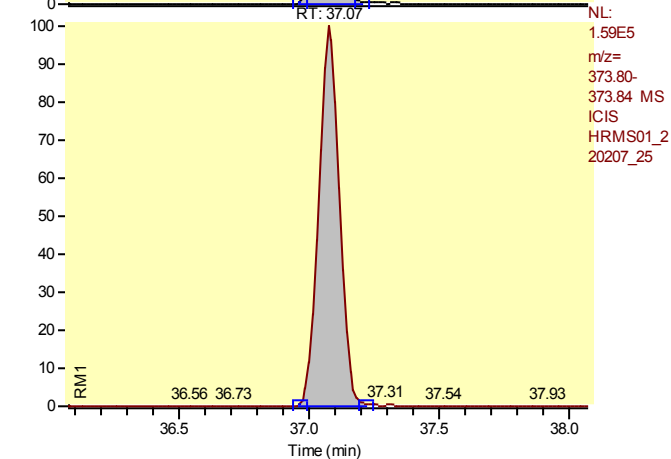
Chromatogram

Entry Parameters

RT: 36.07 - 38.07 SM: 7G



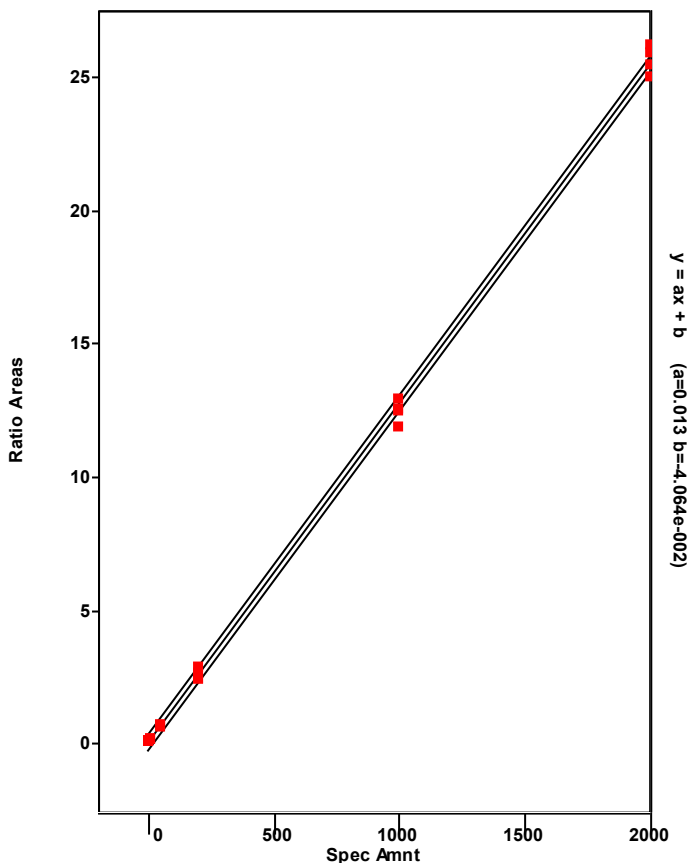
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	713983
RM1 Area	875456
RM1 Ratio (A)	1.2262
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	43.49
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

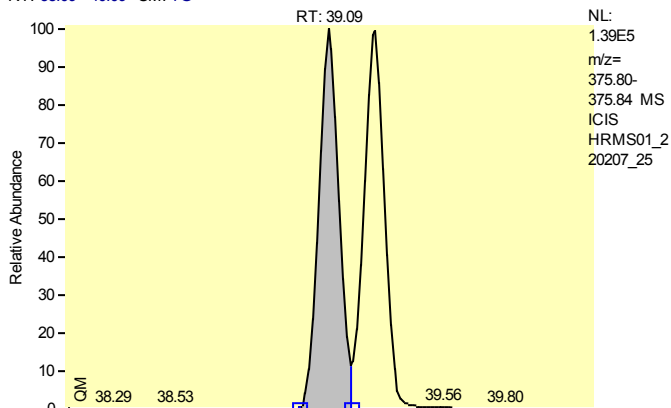
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



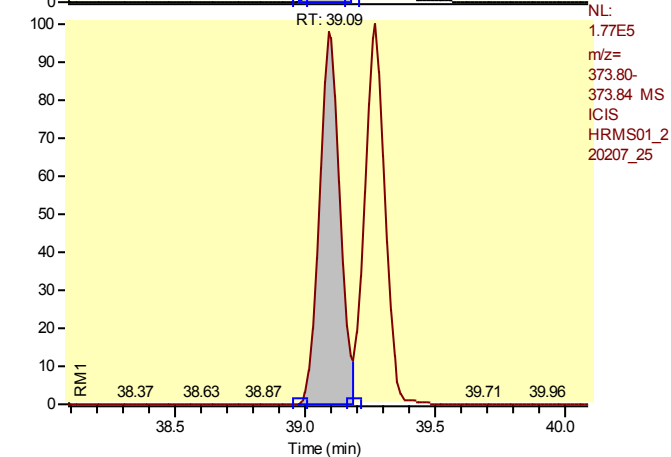
Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G



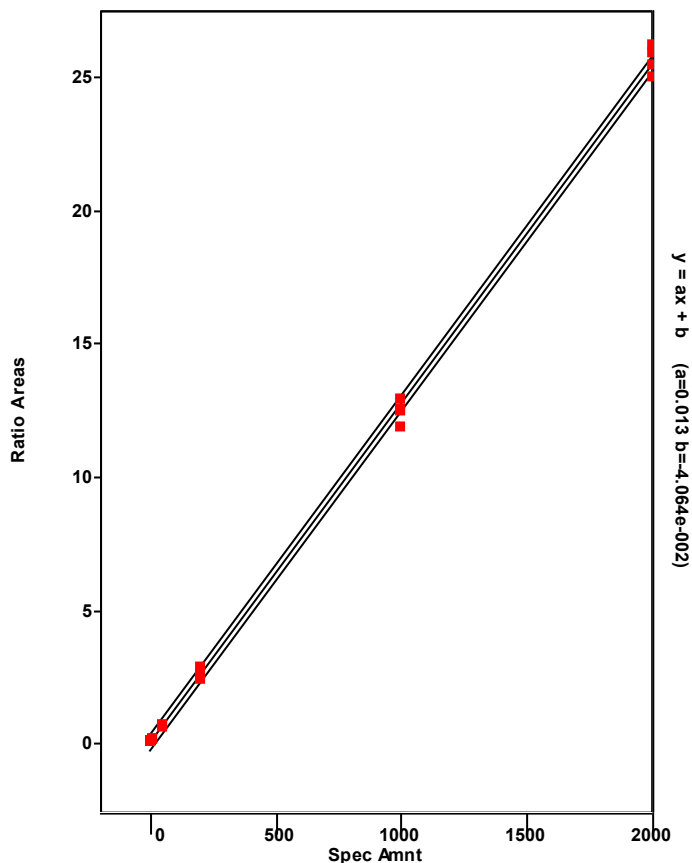
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	738846
RM1 Area	946875
RM1 Ratio (A)	1.2816
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.13
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

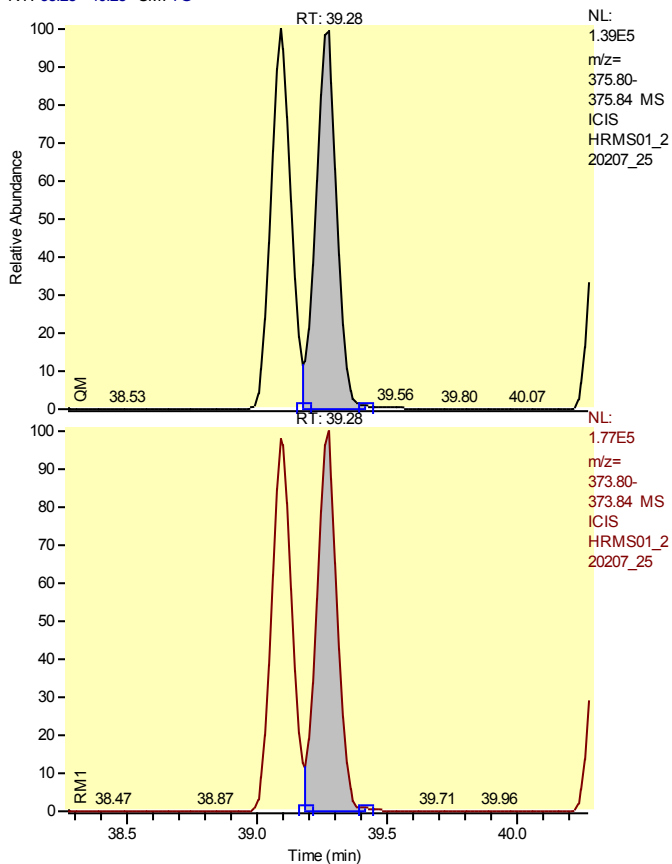
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.28 - 40.28 SM: 7G

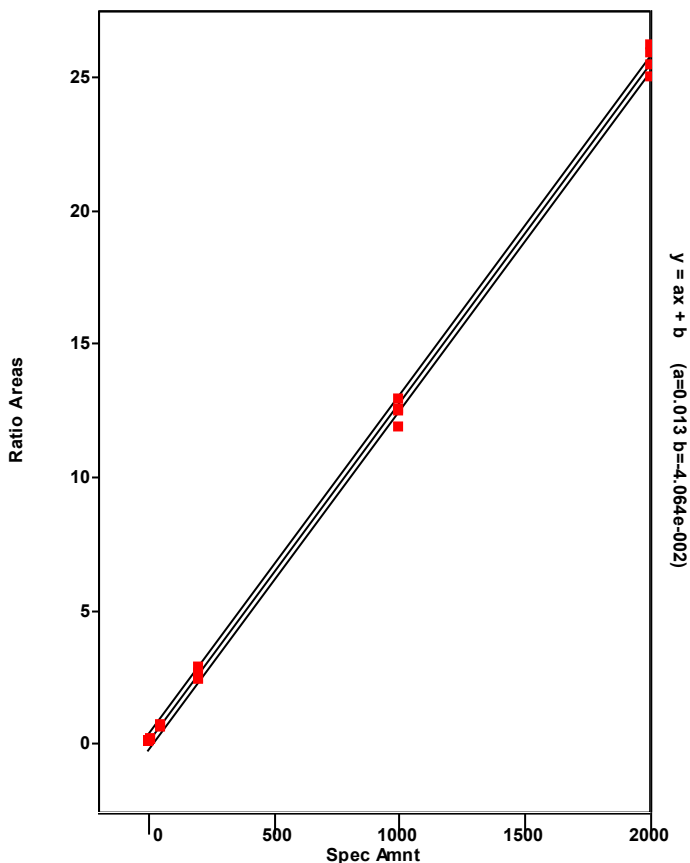


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	767651
RM1 Area	954084
RM1 Ratio (A)	1.2429
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.11
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

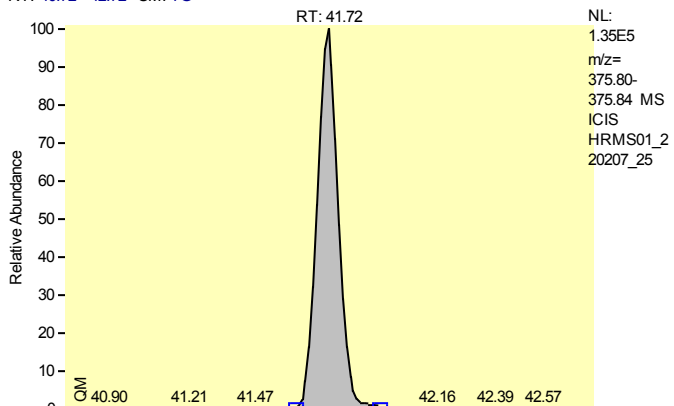
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



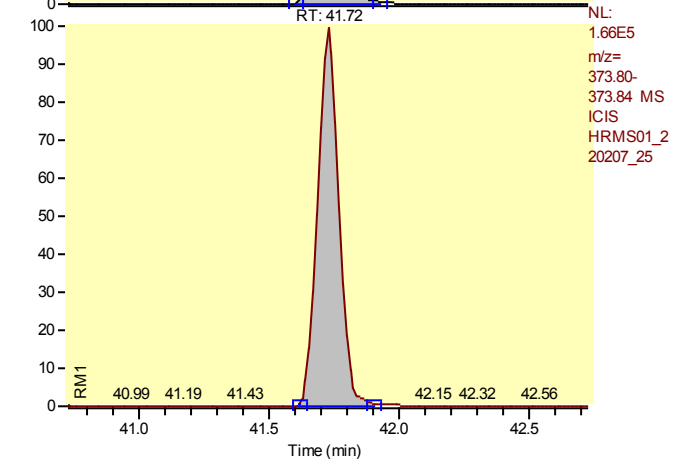
Chromatogram

Entry Parameters

RT: 40.72 - 42.72 SM: 7G



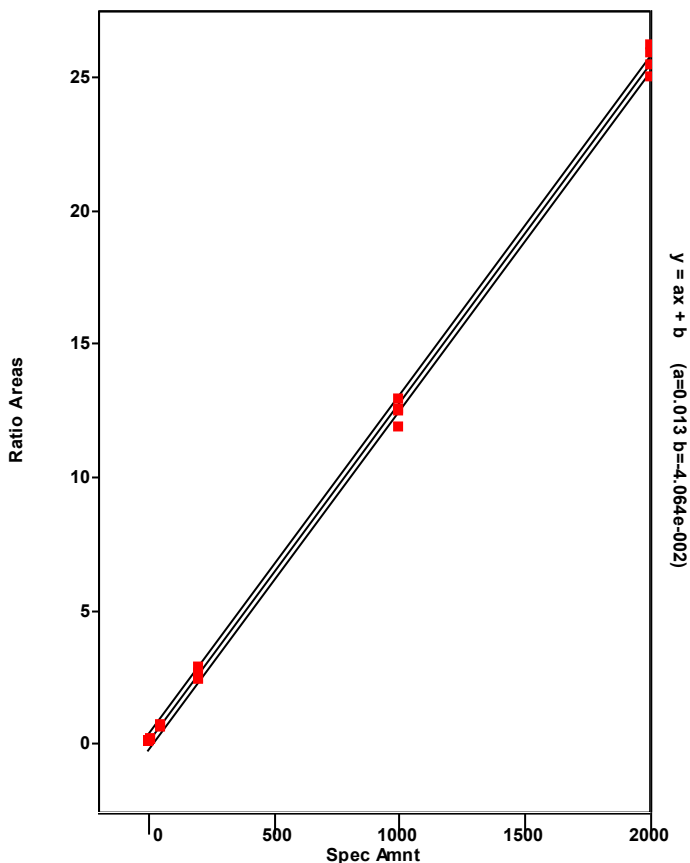
Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	764234
RM1 Area	941782
RM1 Ratio (A)	1.2323
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.68
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

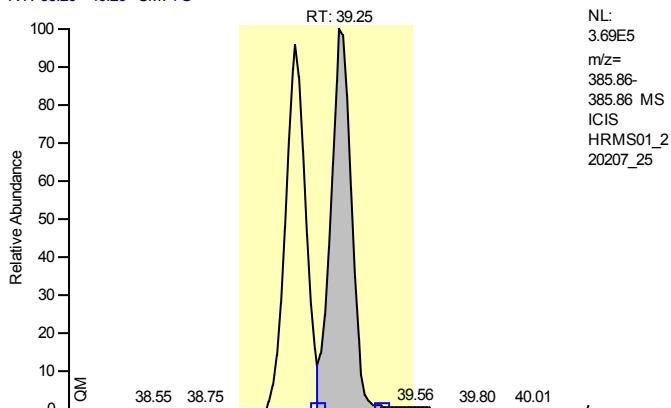
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



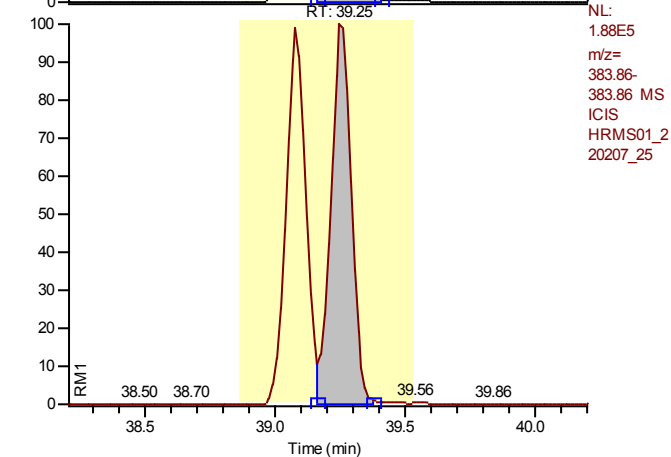
Chromatogram

Entry Parameters

RT: 38.20 - 40.20 SM: 7G



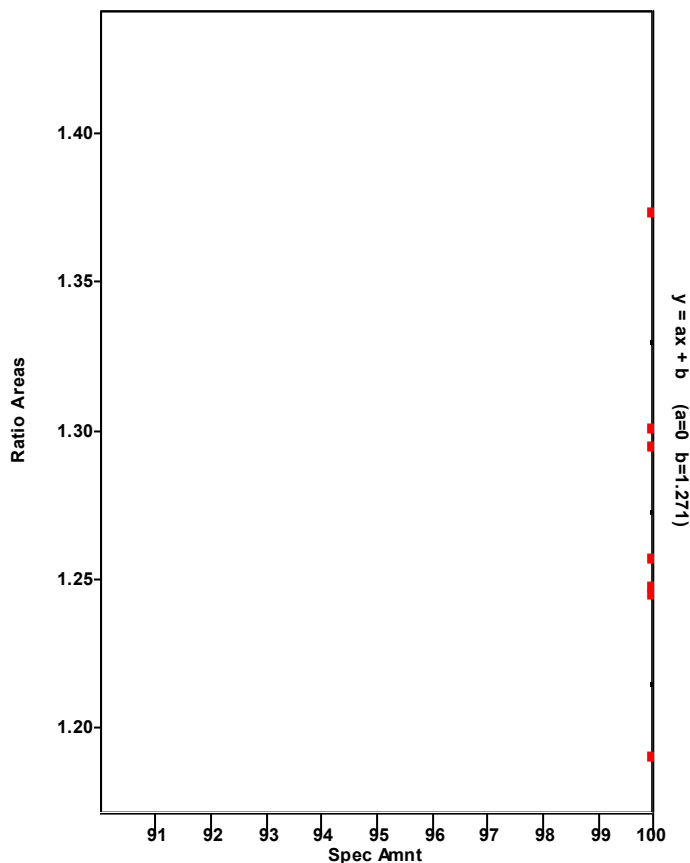
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	2033231
RM1 Area	1031496
RM1 Ratio (A)	0.5073
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	85.04
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

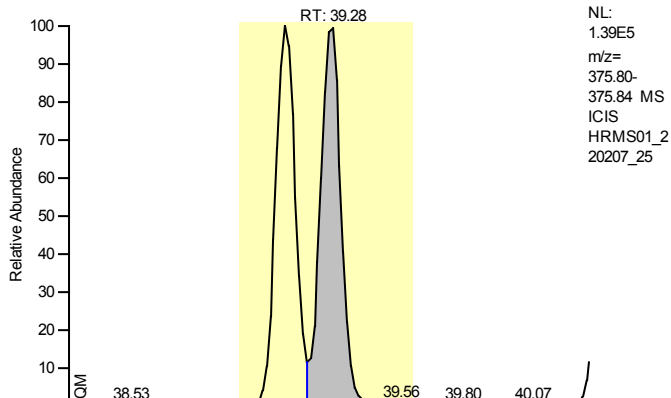
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

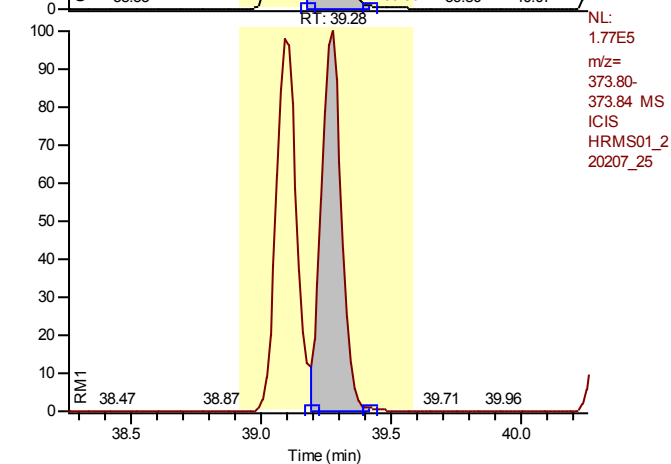
Entry Parameters

RT: 38.26 - 40.26 SM: 7G



NL:
1.39E5
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	767651
RM1 Area	954084
RM1 Ratio (A)	1.2429
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.32
Percent Recovery (A)	95
TEQ (A)	4.7315
Label2	

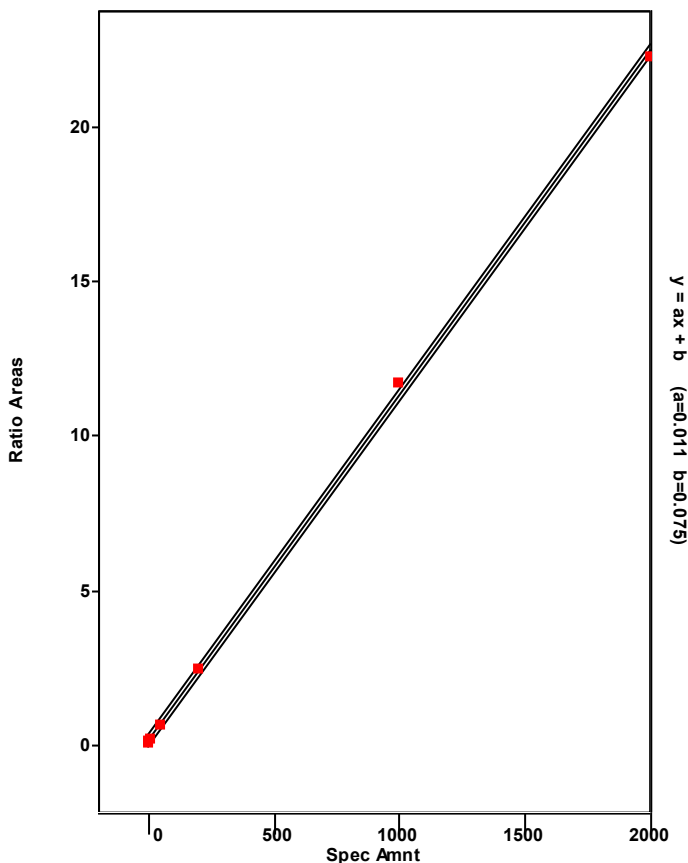


NL:
1.77E5
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20207_25

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

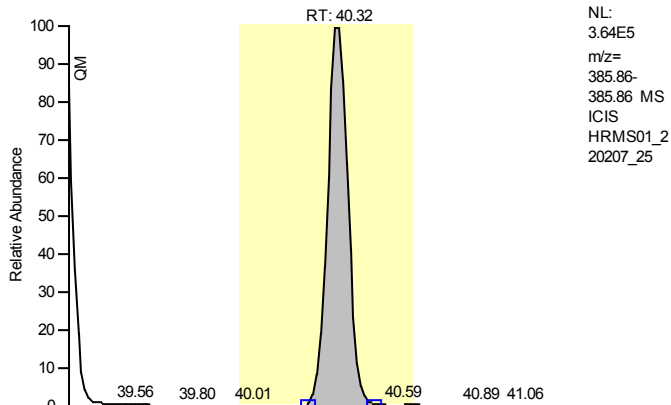
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



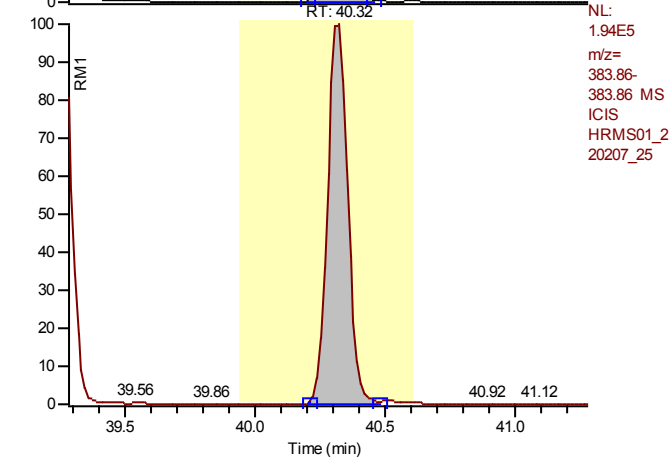
Chromatogram

Entry Parameters

RT: 39.28 - 41.28 SM: 7G



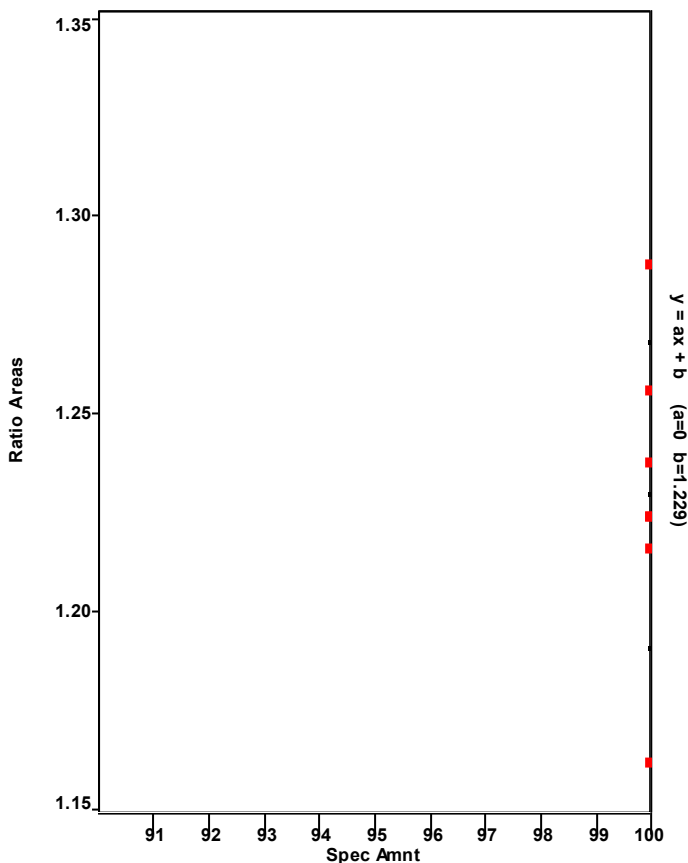
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2003993
RM1 Area	1057291
RM1 Ratio (A)	0.5276
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	87.88
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

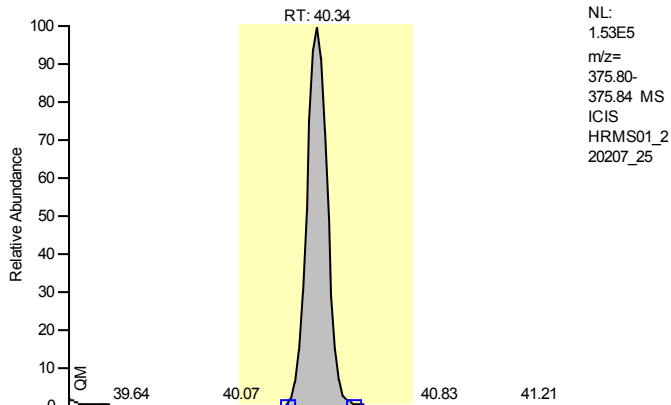
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



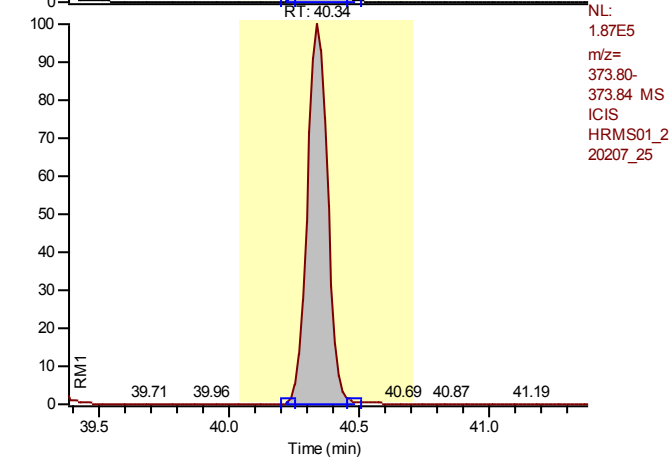
Chromatogram

Entry Parameters

RT: 39.38 - 41.38 SM: 7G



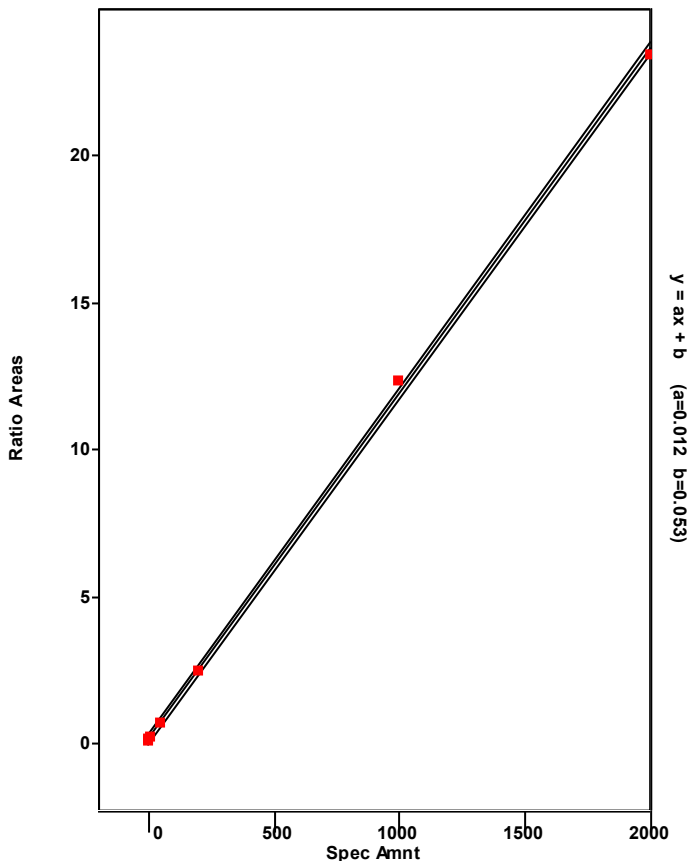
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	838881
RM1 Area	1019939
RM1 Ratio (A)	1.2158
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	49.16
Percent Recovery (A)	98
TEQ (A)	4.9157
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

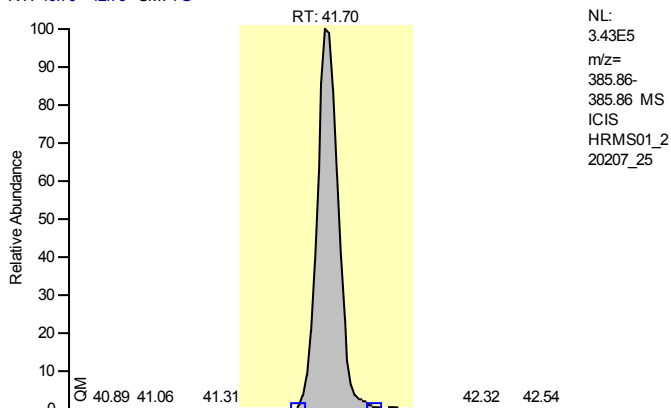
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



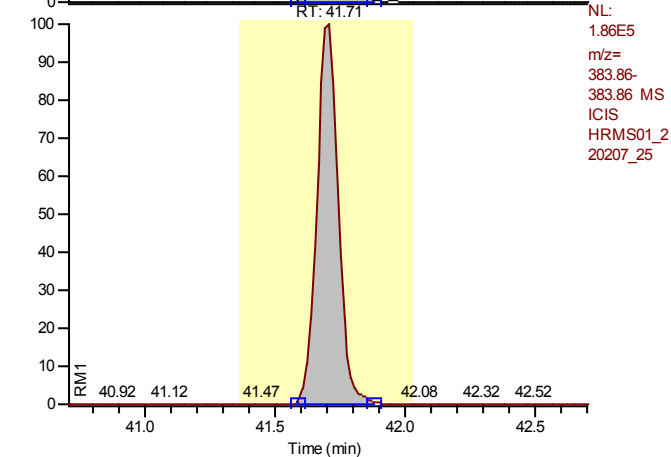
Chromatogram

Entry Parameters

RT: 40.70 - 42.70 SM: 7G



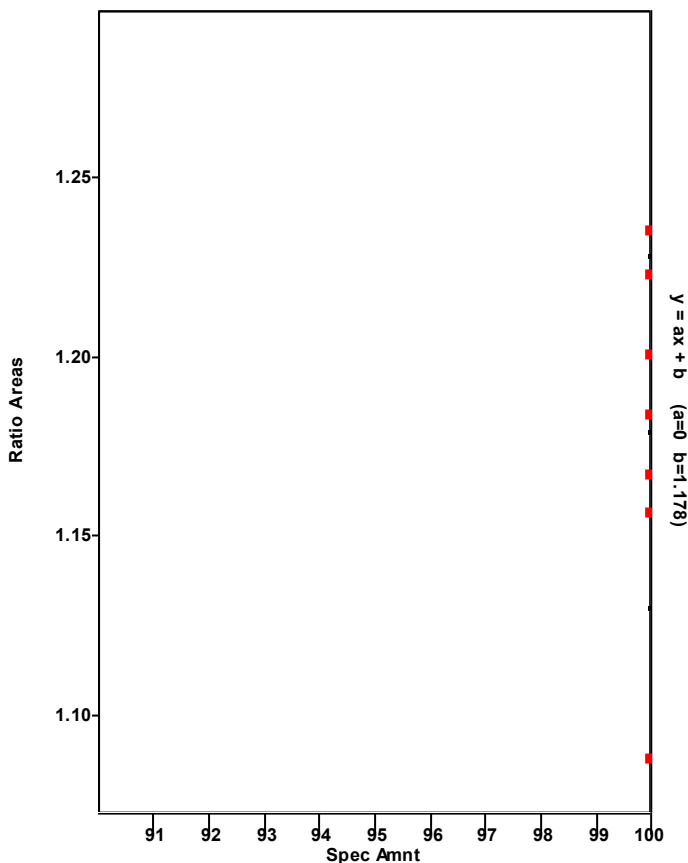
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1936175
RM1 Area	1060273
RM1 Ratio (A)	0.5476
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	89.72
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

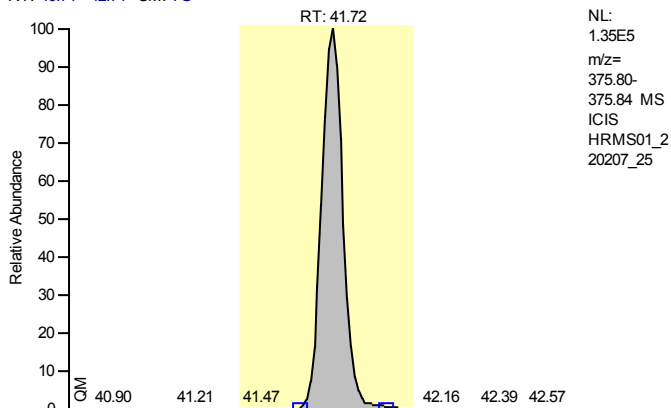
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



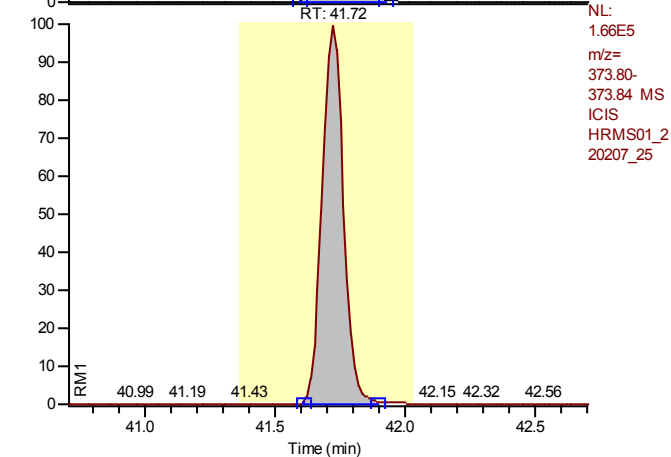
Chromatogram

Entry Parameters

RT: 40.71 - 42.71 SM: 7G



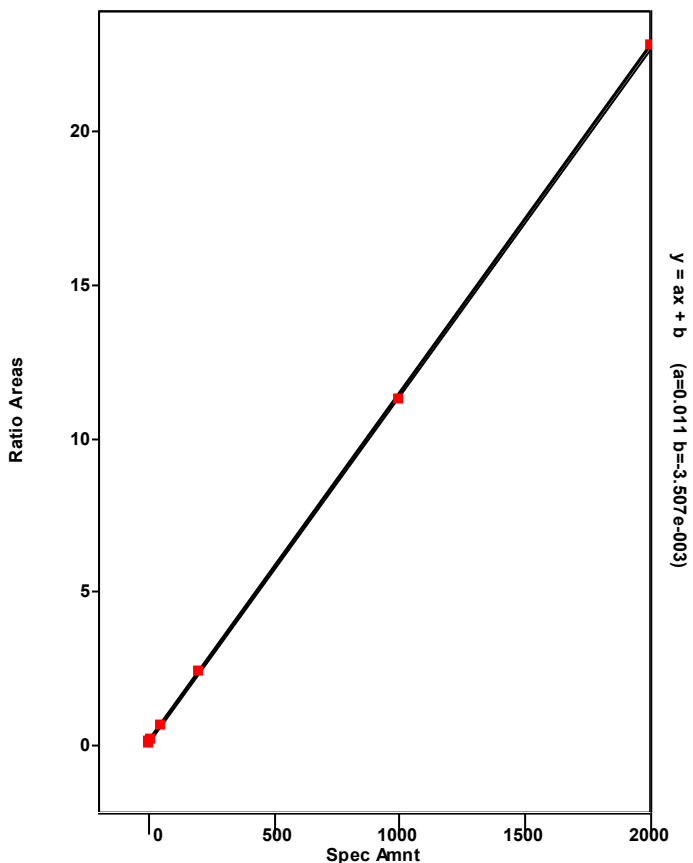
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	764234
RM1 Area	941782
RM1 Ratio (A)	1.2323
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.70
Percent Recovery (A)	97
TEQ (A)	4.8698
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

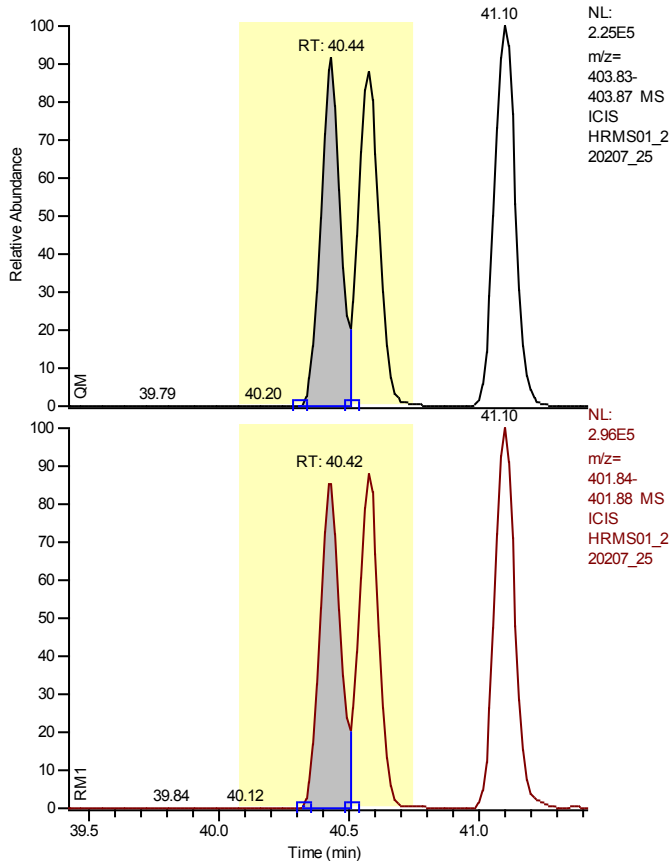
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

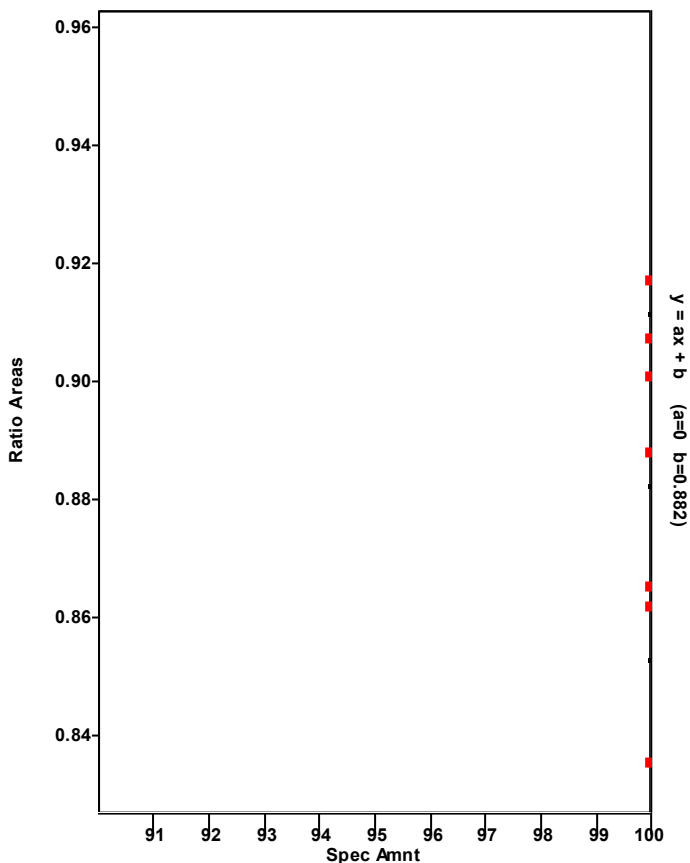
RT: 39.42 - 41.42 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1081058
RM1 Area	1384355
RM1 Ratio (A)	1.2806
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	98.65
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

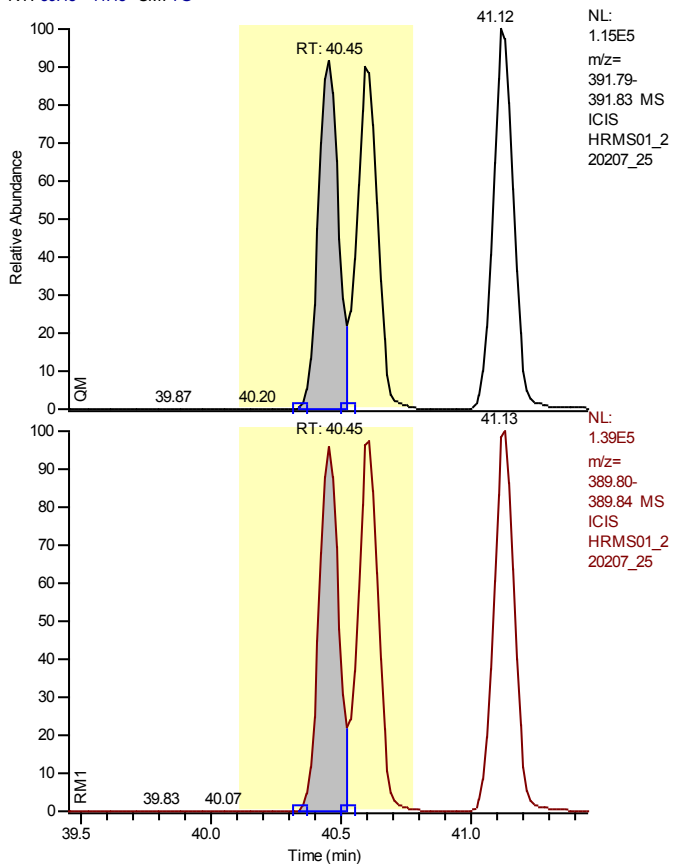
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.45 - 41.45 SM: 7G

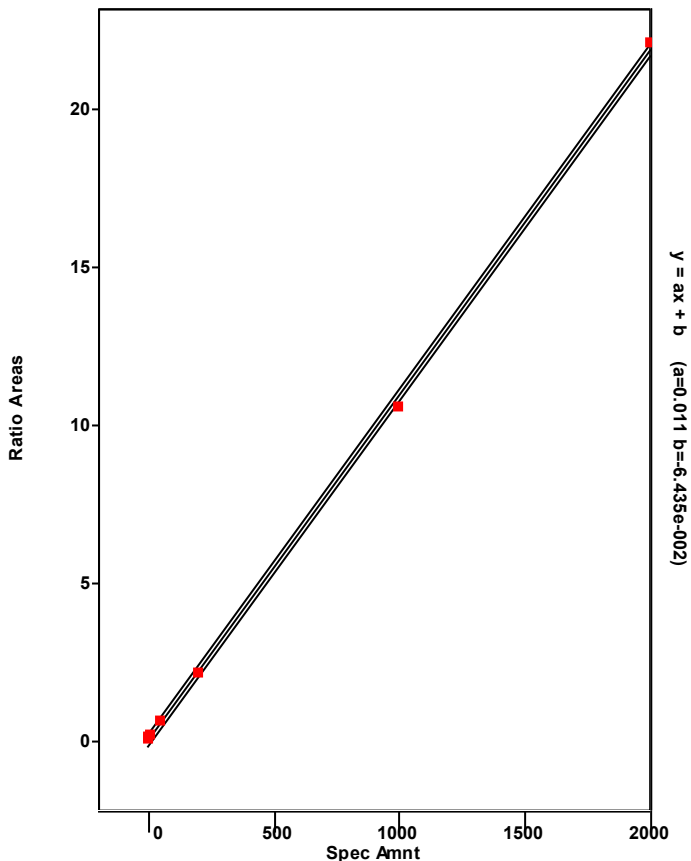


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	566289
RM1 Area	691487
RM1 Ratio (A)	1.2211
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.56
Percent Recovery (A)	93
TEQ (A)	4.6559
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

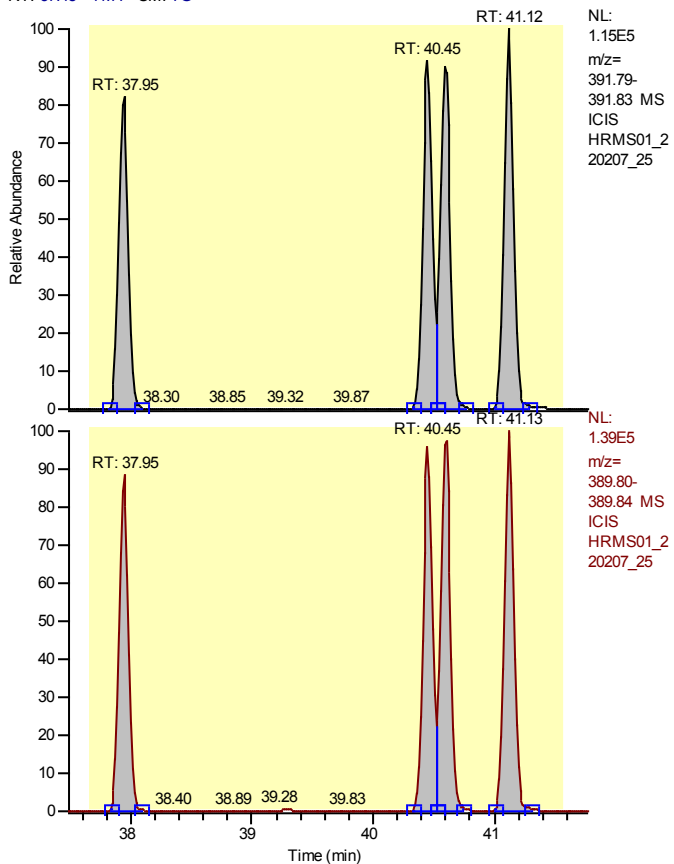
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 37.48 - 41.77 SM: 7G



NL: 1.15E5
 m/z= 391.79-391.83 MS
 ICIS HRMS01_2 20207_25

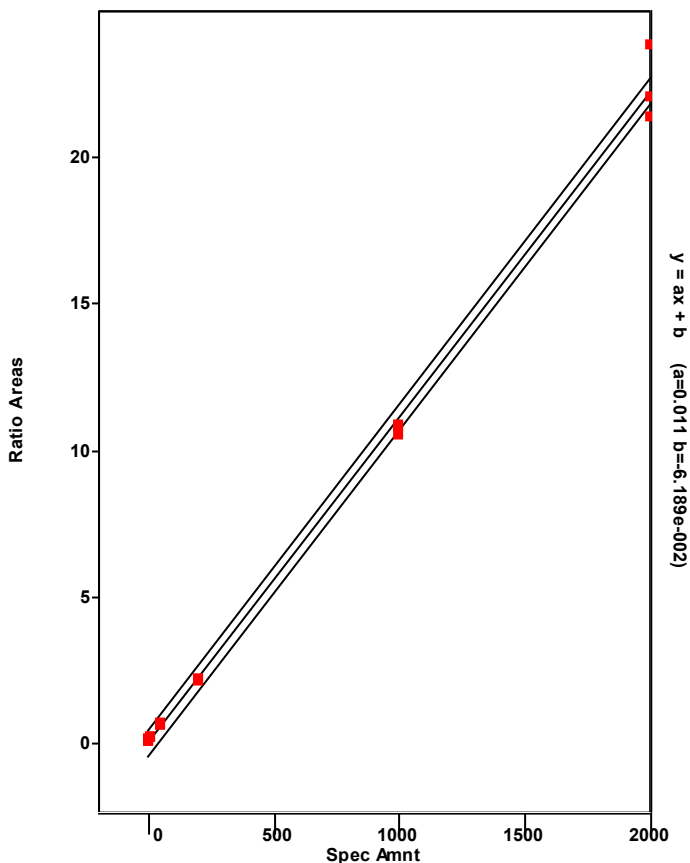
NL: 1.39E5
 m/z= 389.80-389.84 MS
 ICIS HRMS01_2 20207_25

Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	2301920
RM1 Area	2873541
RM1 Ratio (A)	1.2483
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	188.29
Percent Recovery (A)	377
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

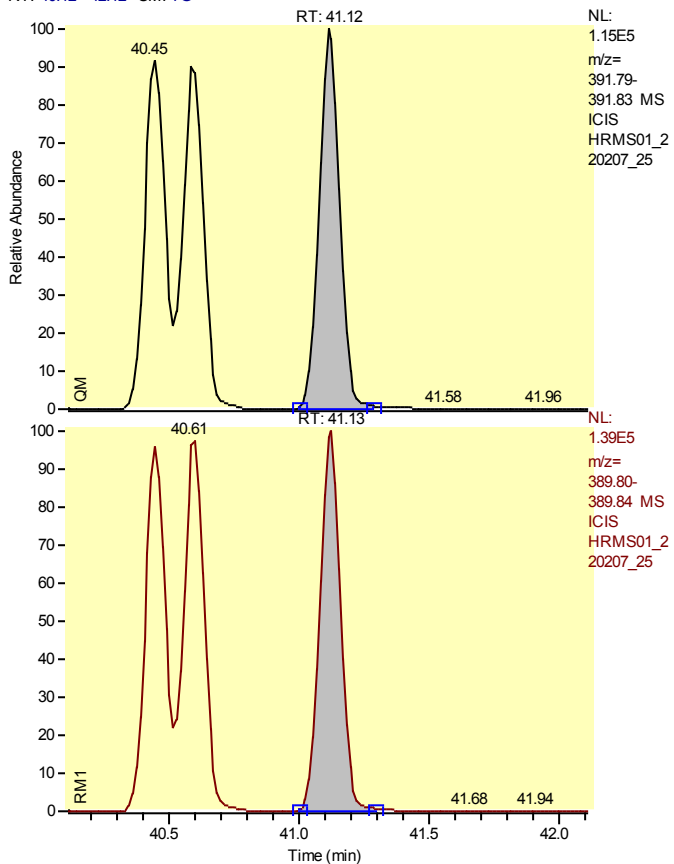
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 40.12- 42.12 SM: 7G



NL:
1.15E5
m/z=
391.79-
391.83 MS
ICIS
HRMS01_2
20207_25

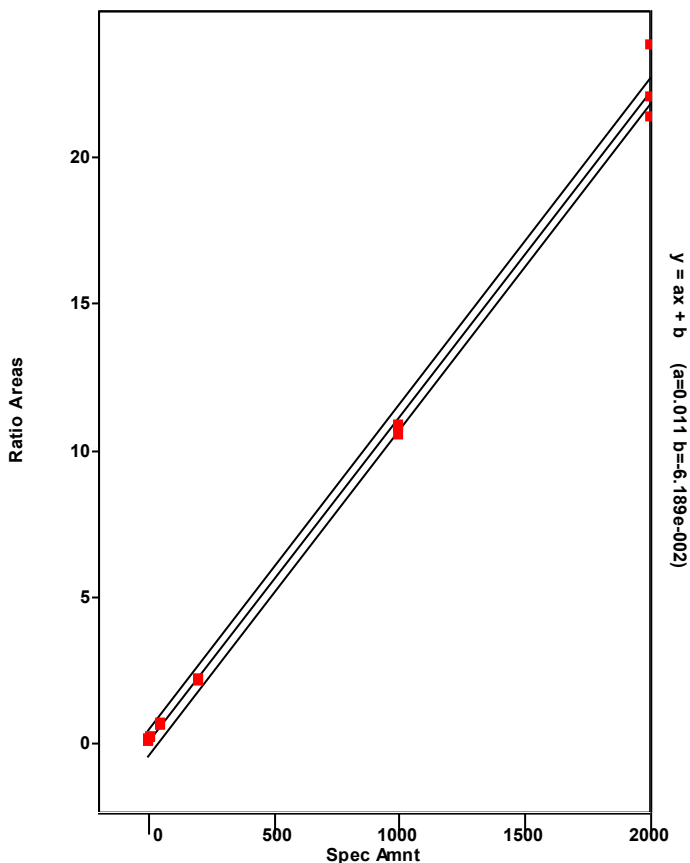
NL:
1.39E5
m/z=
389.80-
389.84 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	629635
RM1 Area	765870
RM1 Ratio (A)	1.2164
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.77
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

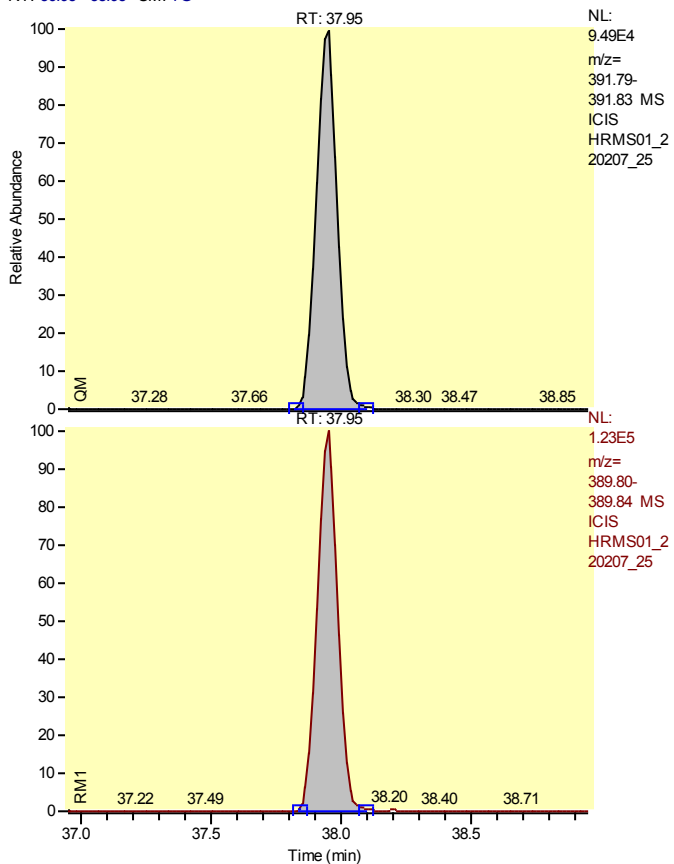
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 36.95 - 38.95 SM: 7G

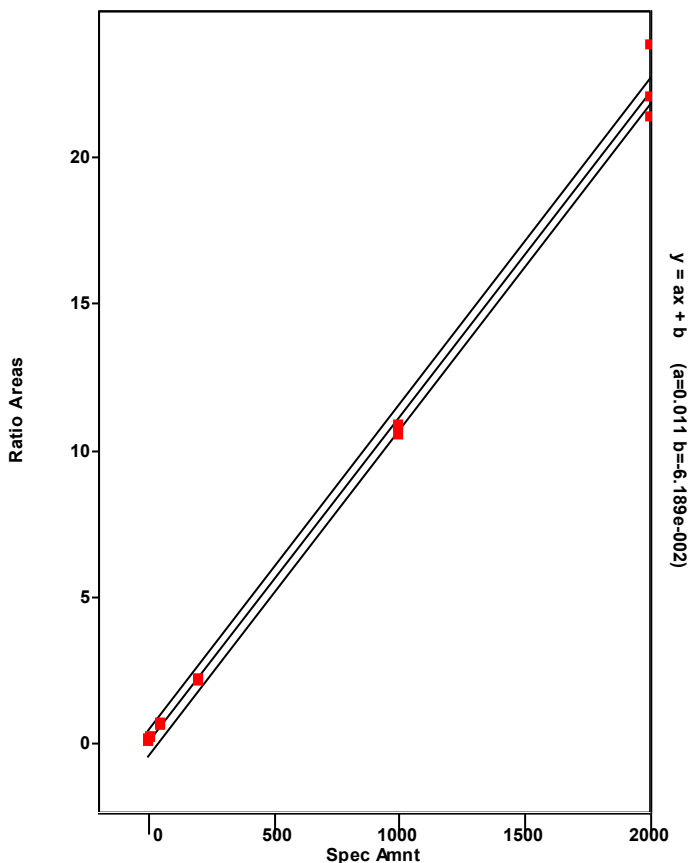


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	525306
RM1 Area	667999
RM1 Ratio (A)	1.2716
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	43.41
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

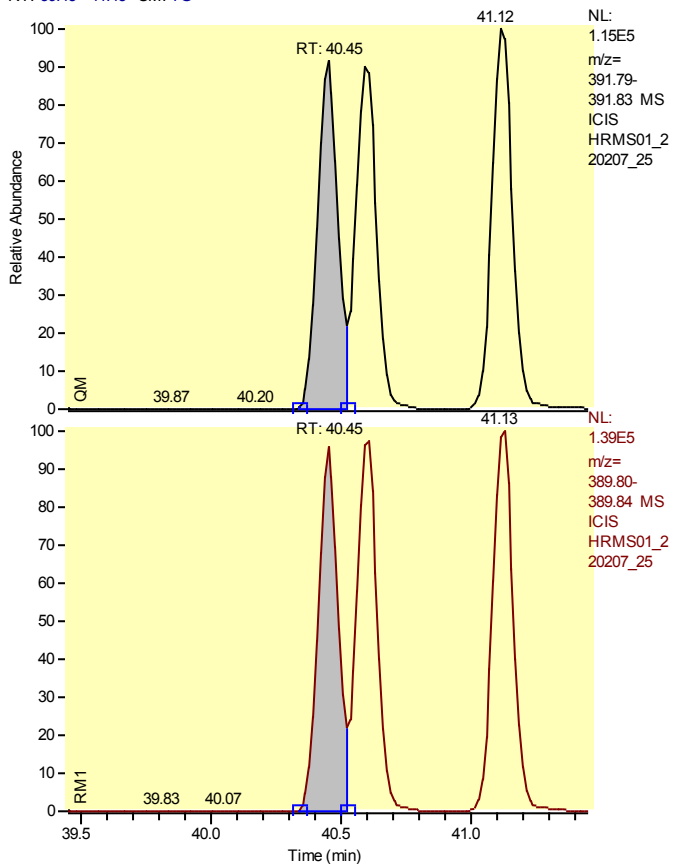
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.45 - 41.45 SM: 7G

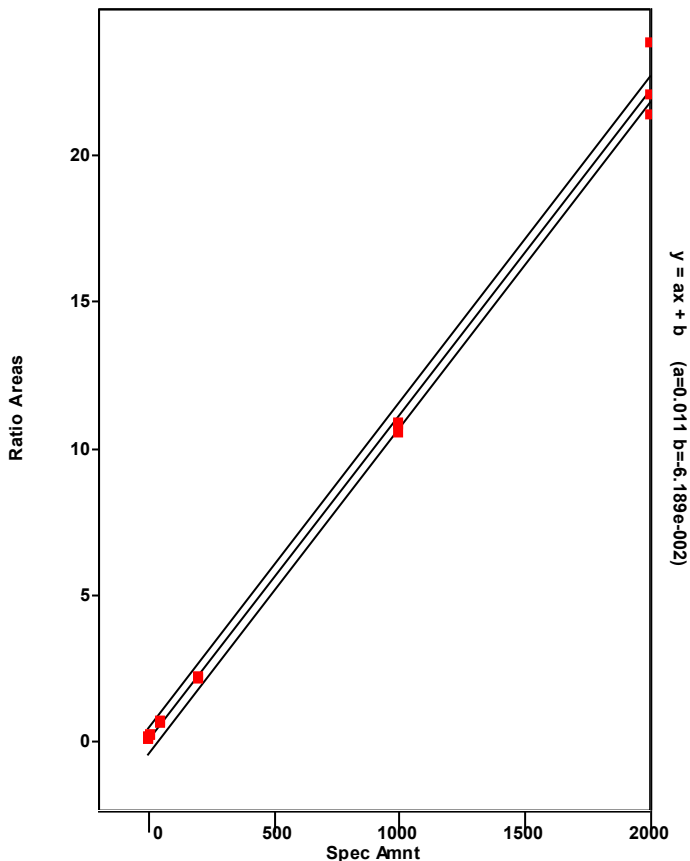


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	566289
RM1 Area	691487
RM1 Ratio (A)	1.2211
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.76
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

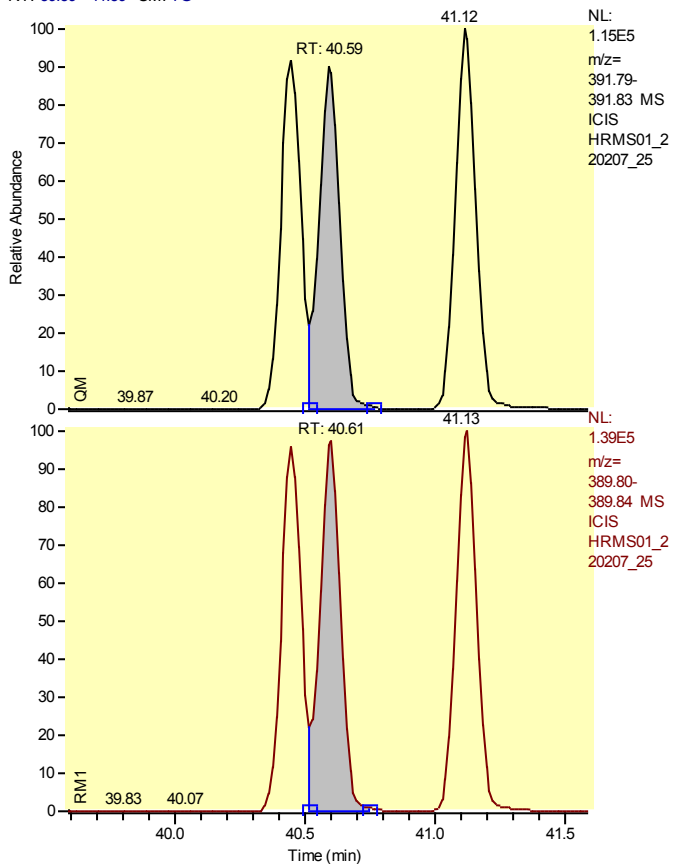
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 39.59 - 41.59 SM: 7G

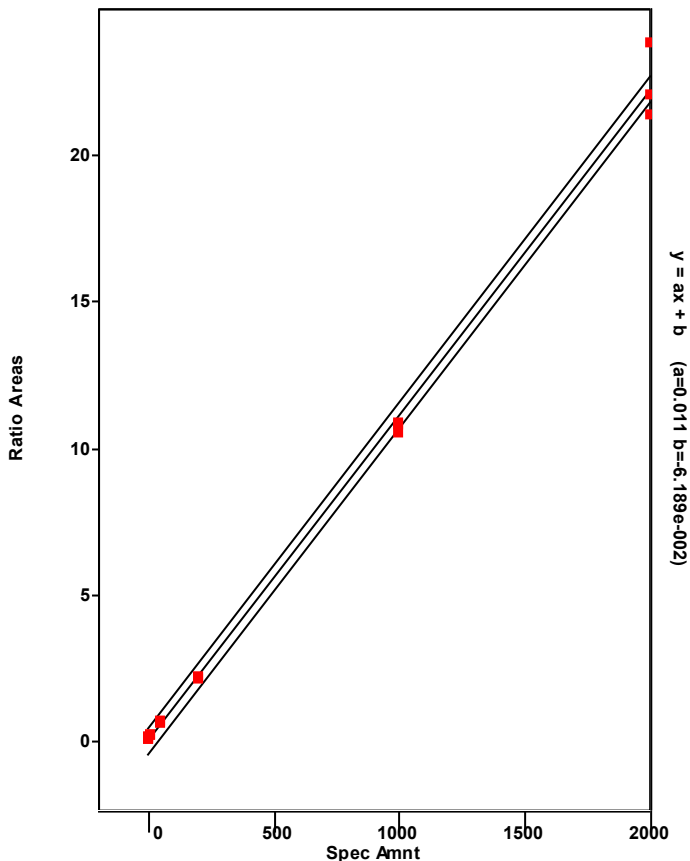


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	580690
RM1 Area	748186
RM1 Ratio (A)	1.2884
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.35
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

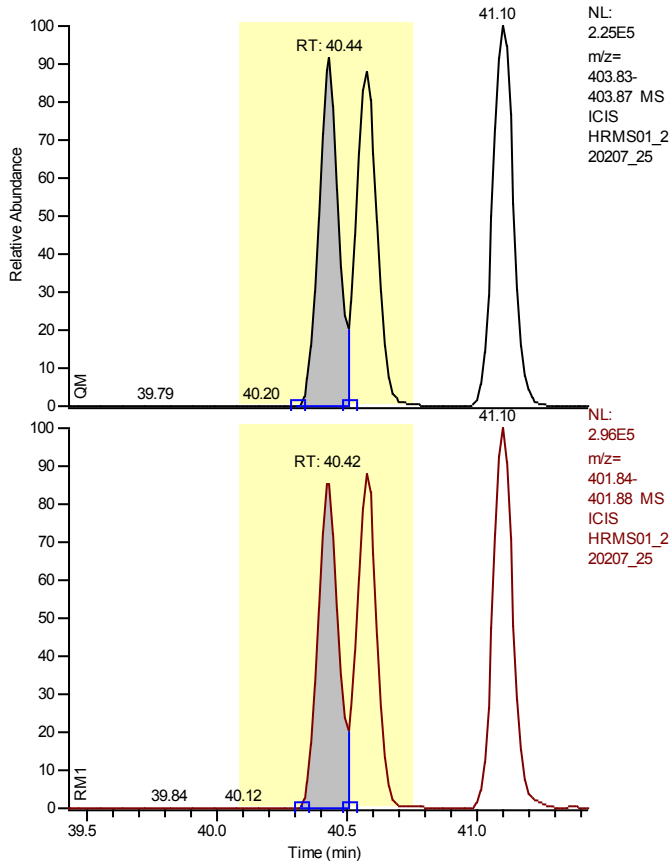
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

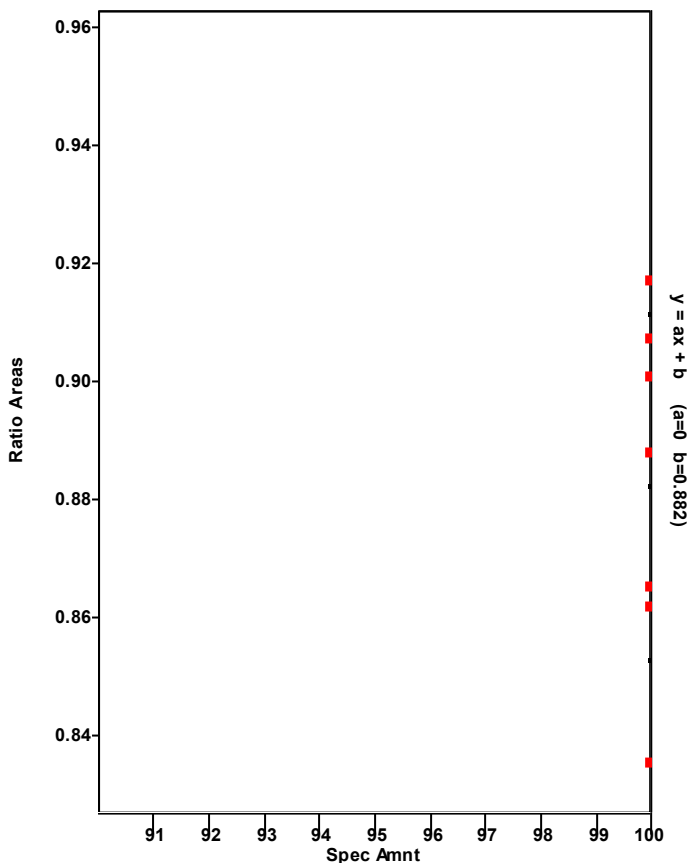
RT: 39.43 - 41.43 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1081058
RM1 Area	1384355
RM1 Ratio (A)	1.2806
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	98.65
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

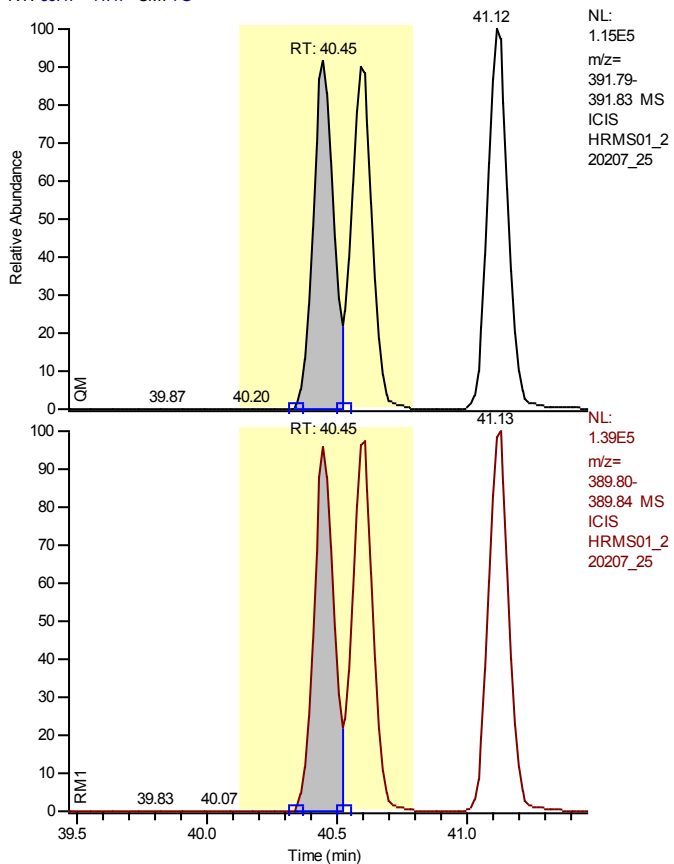
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.47 - 41.47 SM: 7G

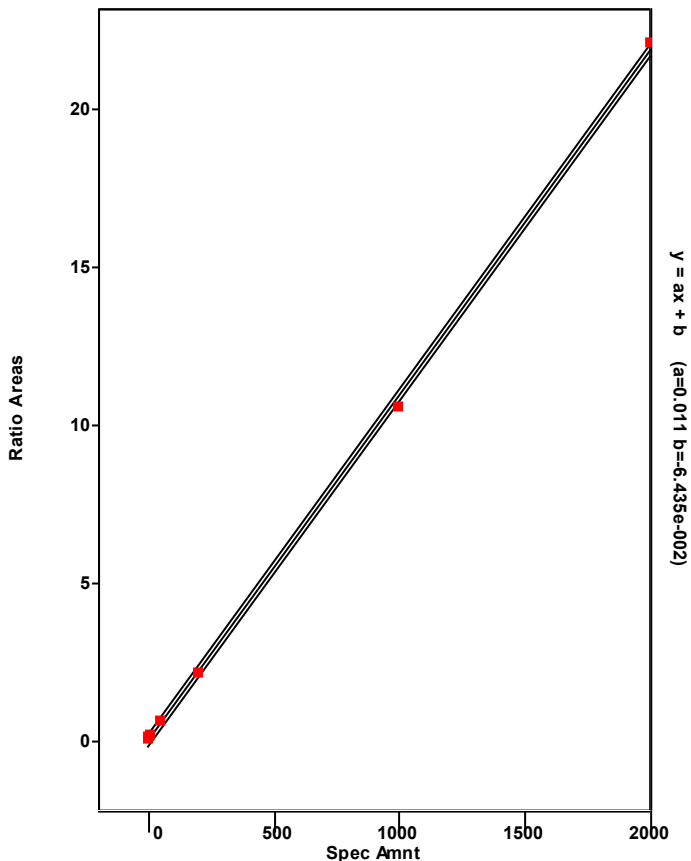


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	566289
RM1 Area	691487
RM1 Ratio (A)	1.2211
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.56
Percent Recovery (A)	93
TEQ (A)	4.6559
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

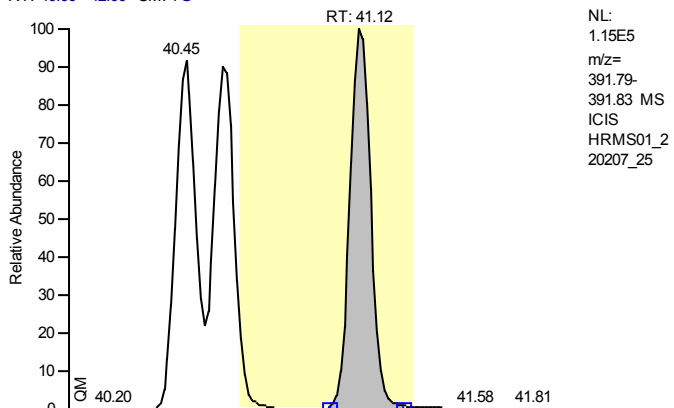
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

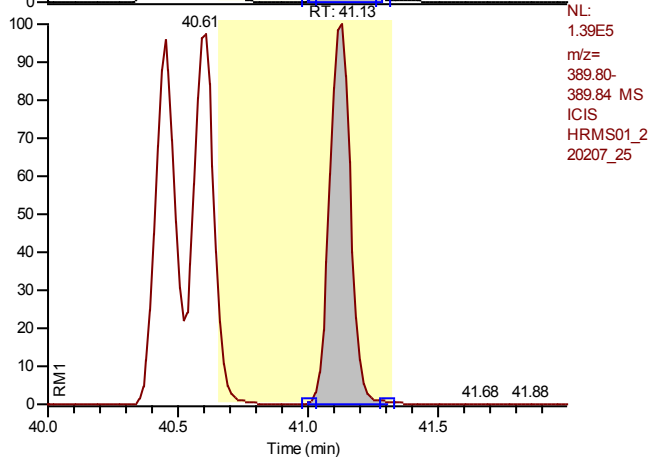
Entry Parameters

RT: 40.00 - 42.00 SM: 7G



NL:
 1.15E5
 m/z=
 391.79-
 391.83 MS
 ICIS
 HRMS01_2
 20207_25

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	629635
RM1 Area	765870
RM1 Ratio (A)	1.2164
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.99
Percent Recovery (A)	98
TEQ (A)	4.8987
Label2	

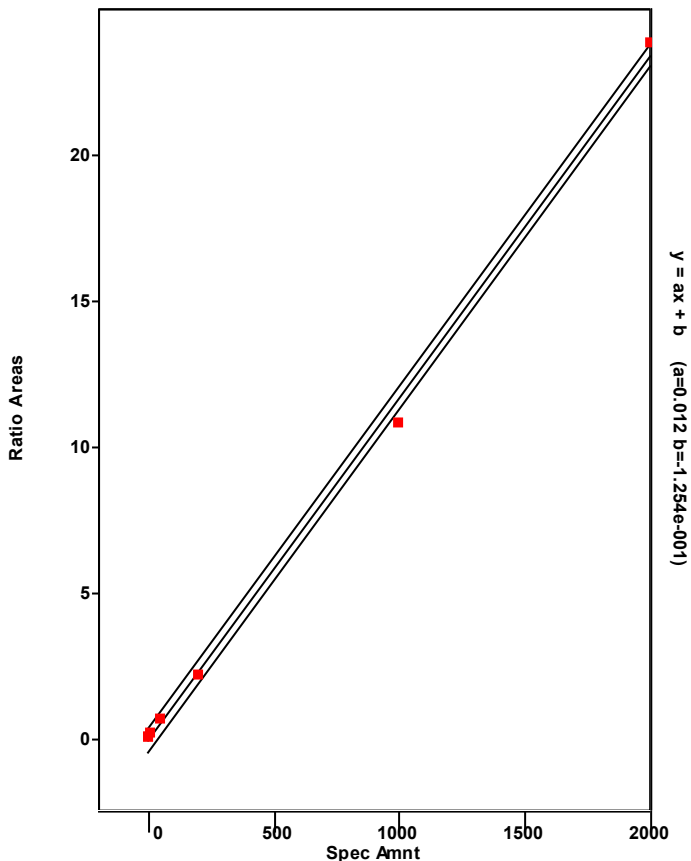


NL:
 1.39E5
 m/z=
 389.80-
 389.84 MS
 ICIS
 HRMS01_2
 20207_25

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

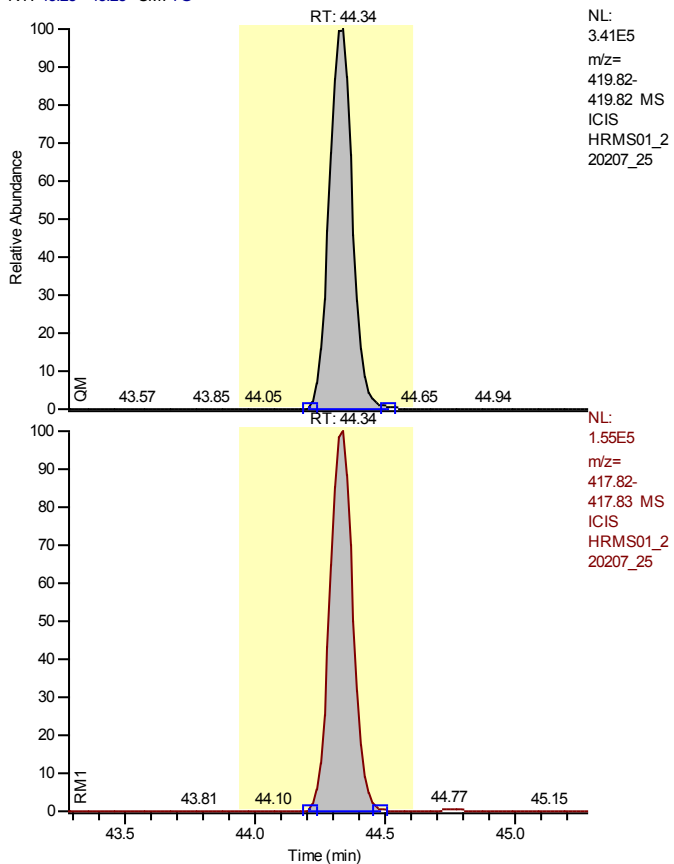
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

Entry Parameters

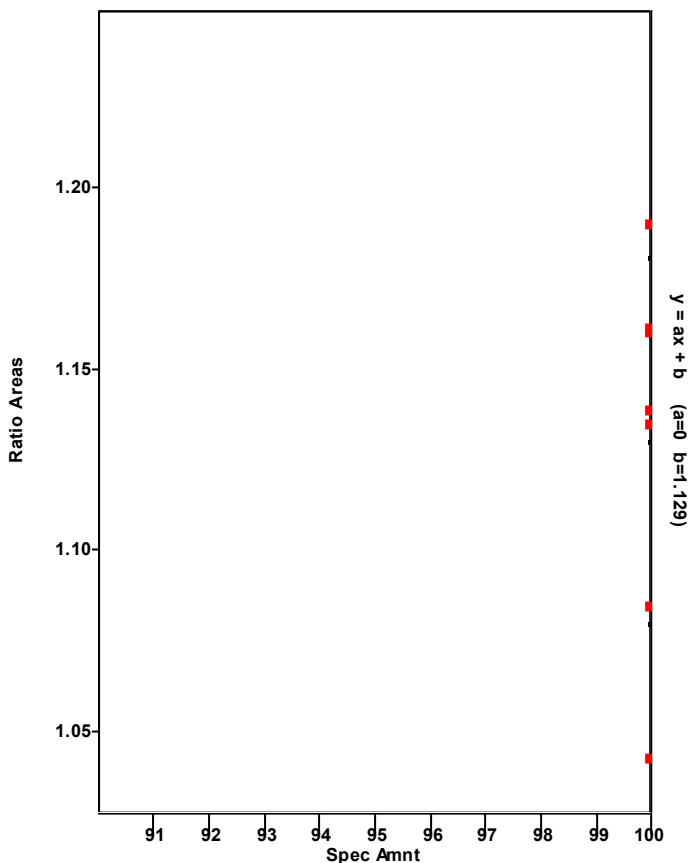
RT: 43.28 - 45.28 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2111215
RM1 Area	953716
RM1 Ratio (A)	0.4517
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	95.75
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

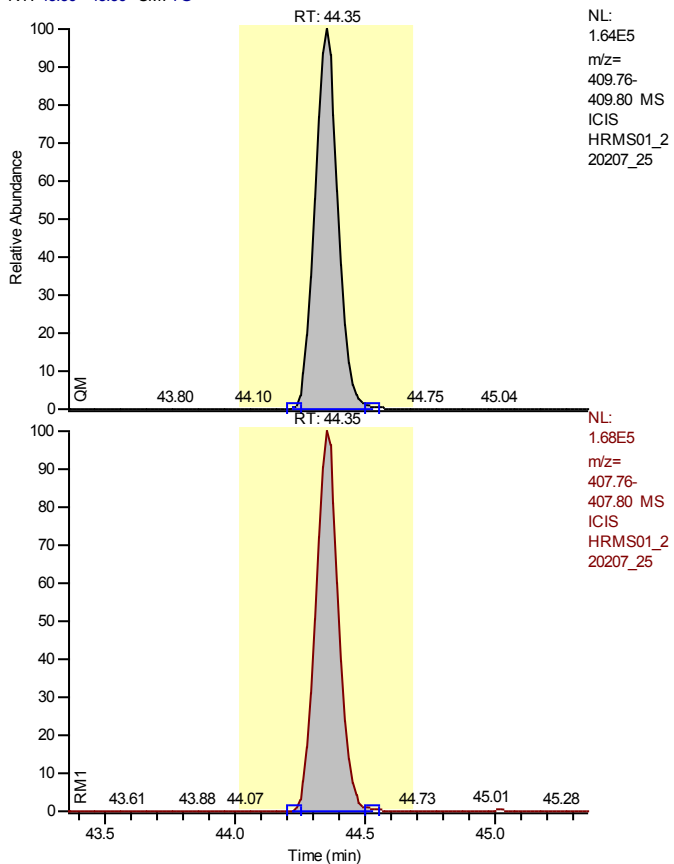
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.36 - 45.36 SM: 7G

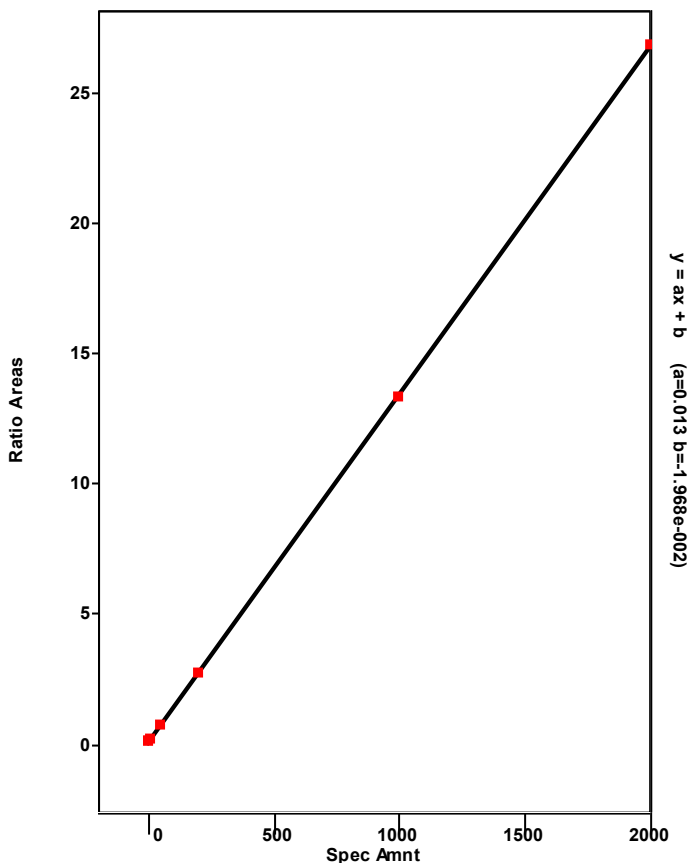


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	1006447
RM1 Area	1023259
RM1 Ratio (A)	1.0167
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.08
Percent Recovery (A)	98
TEQ (A)	0.4908
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

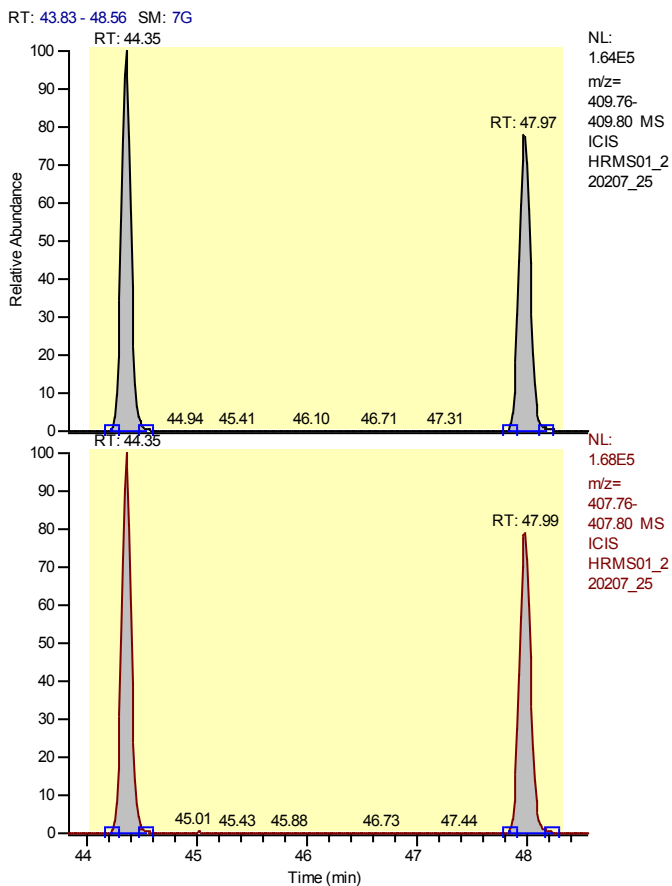
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

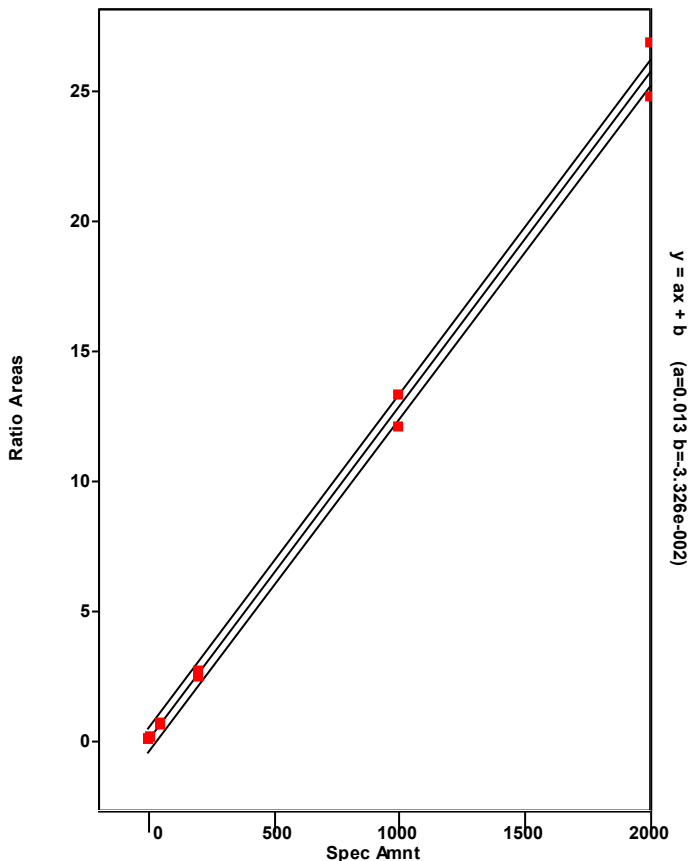


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1928827
RM1 Area	1974427
RM1 Ratio (A)	1.0236
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	99.13
Percent Recovery (A)	198
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

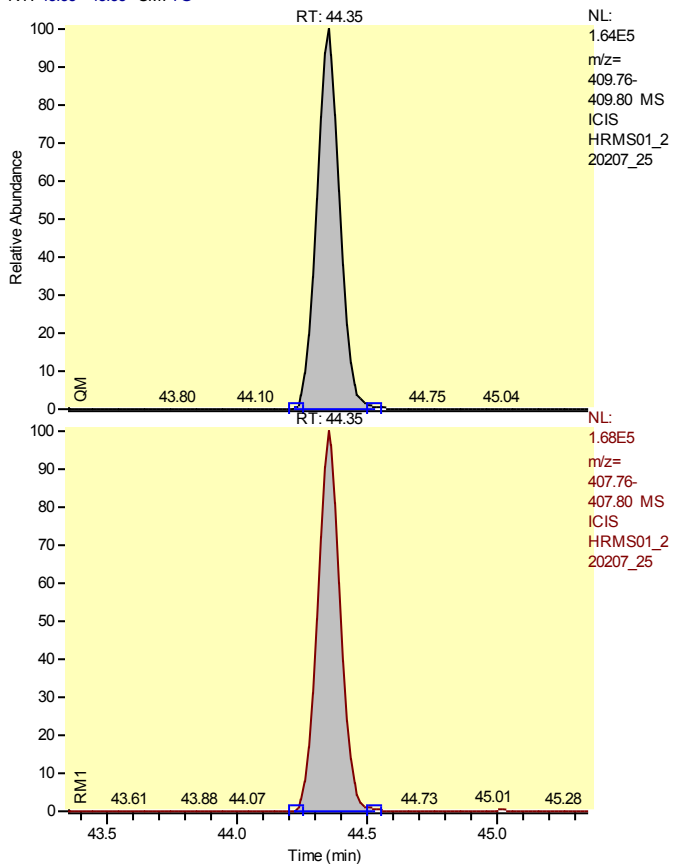
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.35 - 45.35 SM: 7G

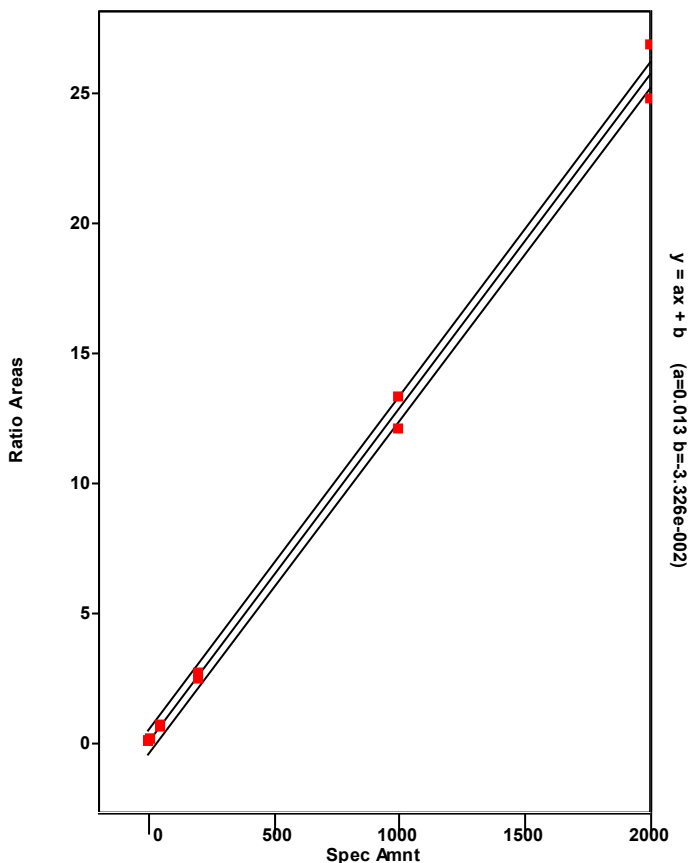


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1006447
RM1 Area	1023259
RM1 Ratio (A)	1.0167
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.55
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

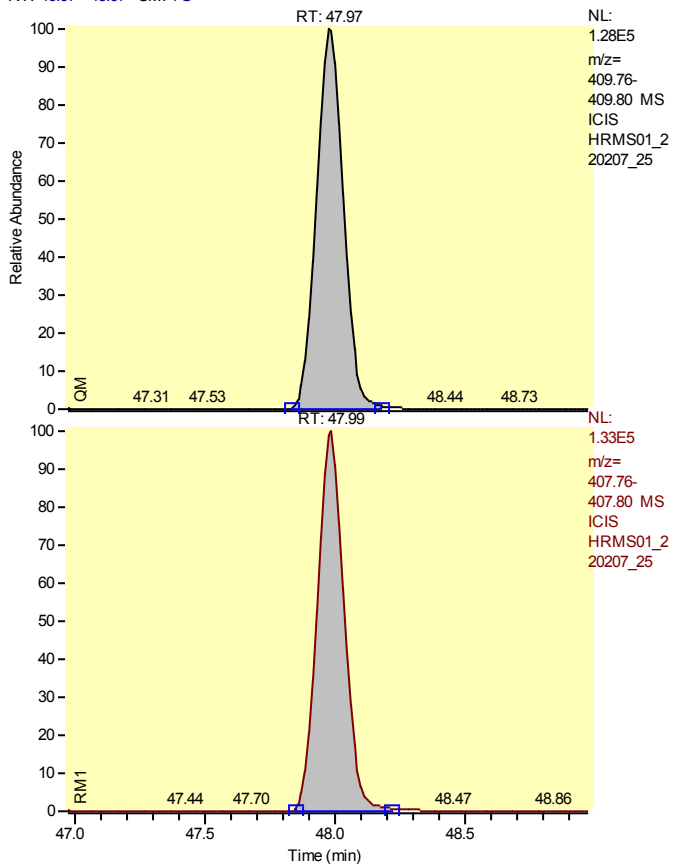
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.97 - 48.97 SM: 7G

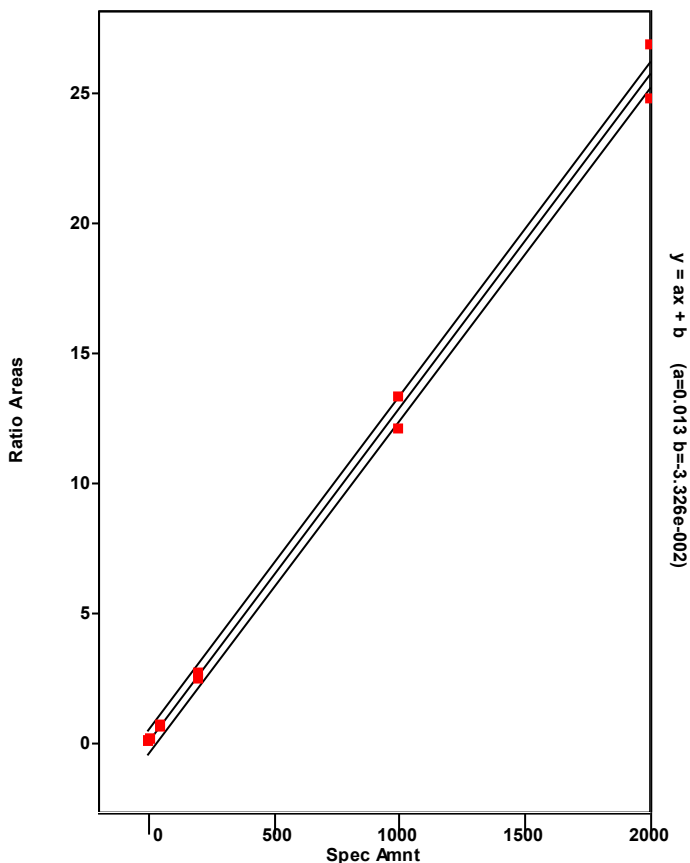


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	922380
RM1 Area	951169
RM1 Ratio (A)	1.0312
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.58
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

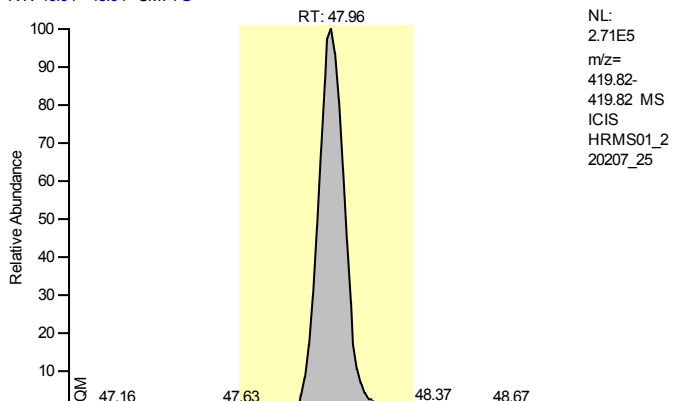
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



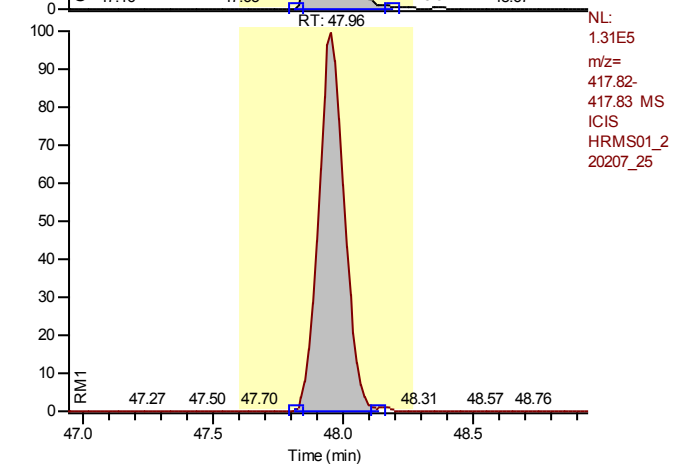
Chromatogram

Entry Parameters

RT: 46.94 - 48.94 SM: 7G

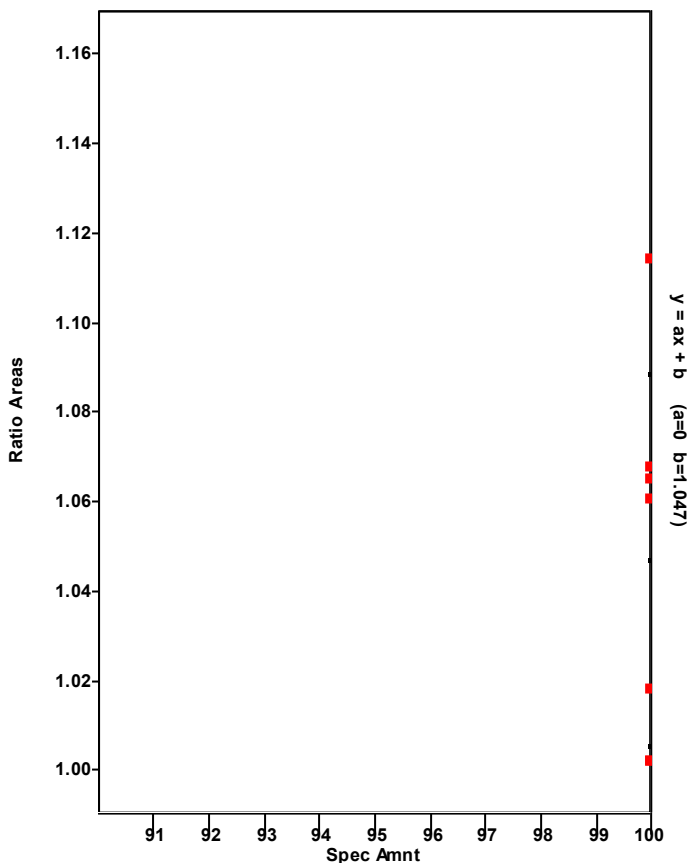


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1914594
RM1 Area	897188
RM1 Ratio (A)	0.4686
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	94.79
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

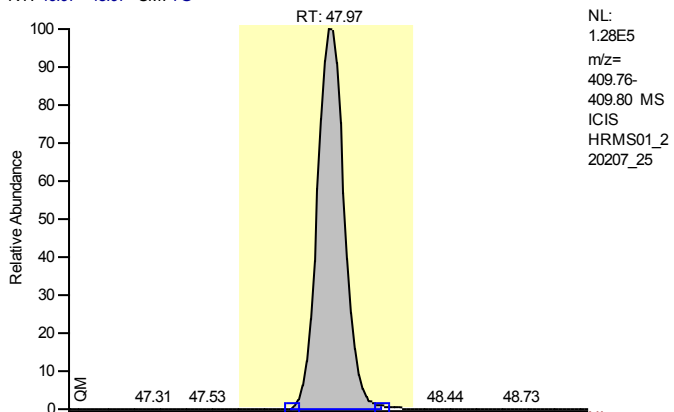
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



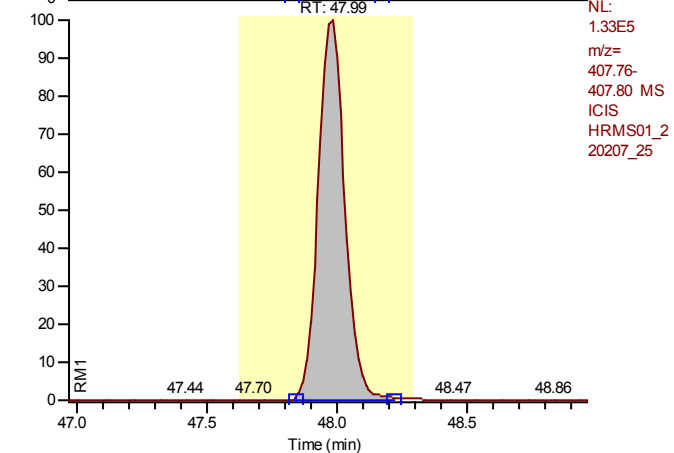
Chromatogram

Entry Parameters

RT: 46.97 - 48.97 SM: 7G



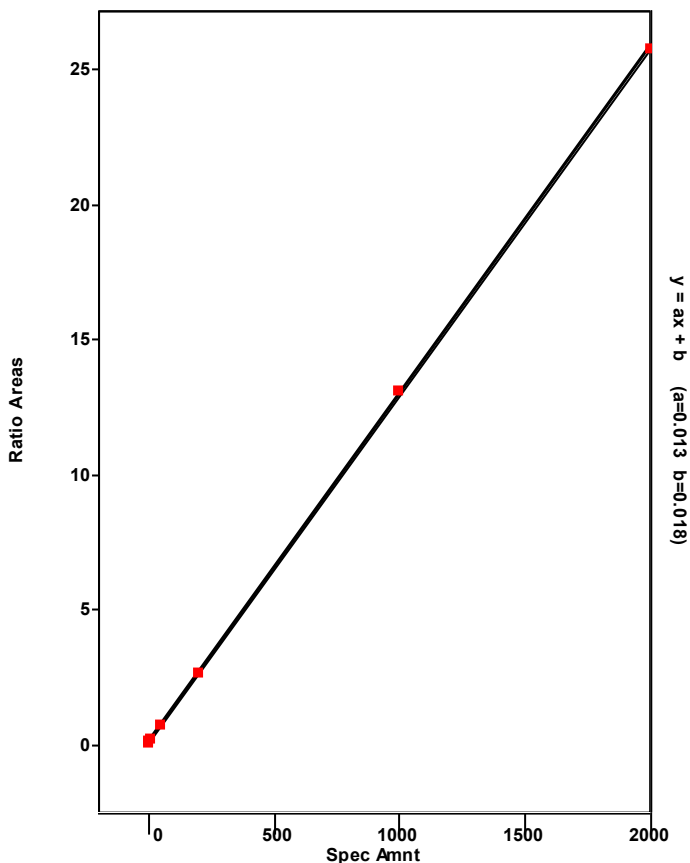
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	922380
RM1 Area	951169
RM1 Ratio (A)	1.0312
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.63
Percent Recovery (A)	101
TEQ (A)	0.5063
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

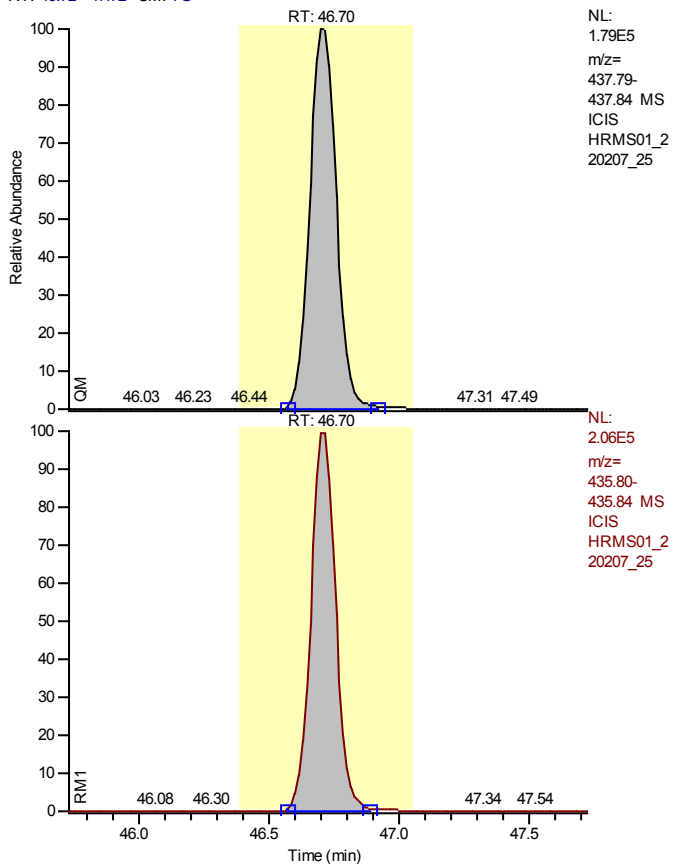
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.72 - 47.72 SM: 7G



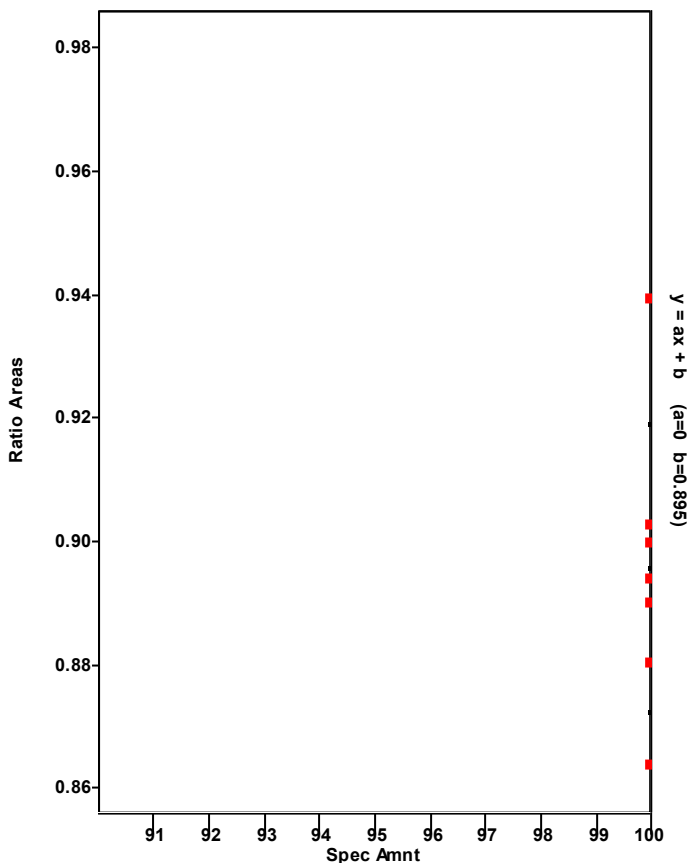
NL:
1.79E5
m/z=
437.79-
437.84 MS
ICIS
HRMS01_2
20207_25

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1280515
RM1 Area	1354798
RM1 Ratio (A)	1.0580
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	103.85
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	

NL:
2.06E5
m/z=
435.80-
435.84 MS
ICIS
HRMS01_2
20207_25

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

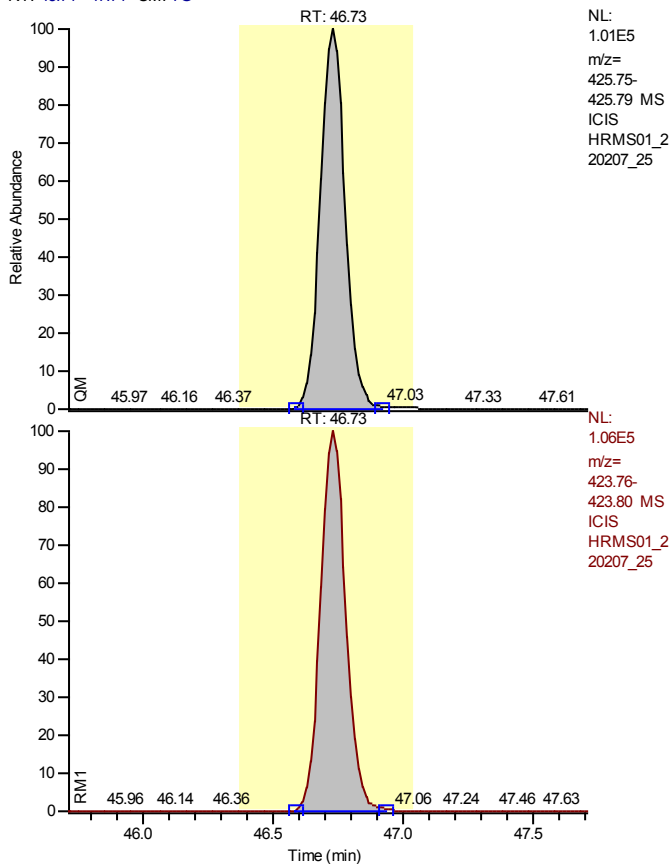
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.71 - 47.71 SM: 7G

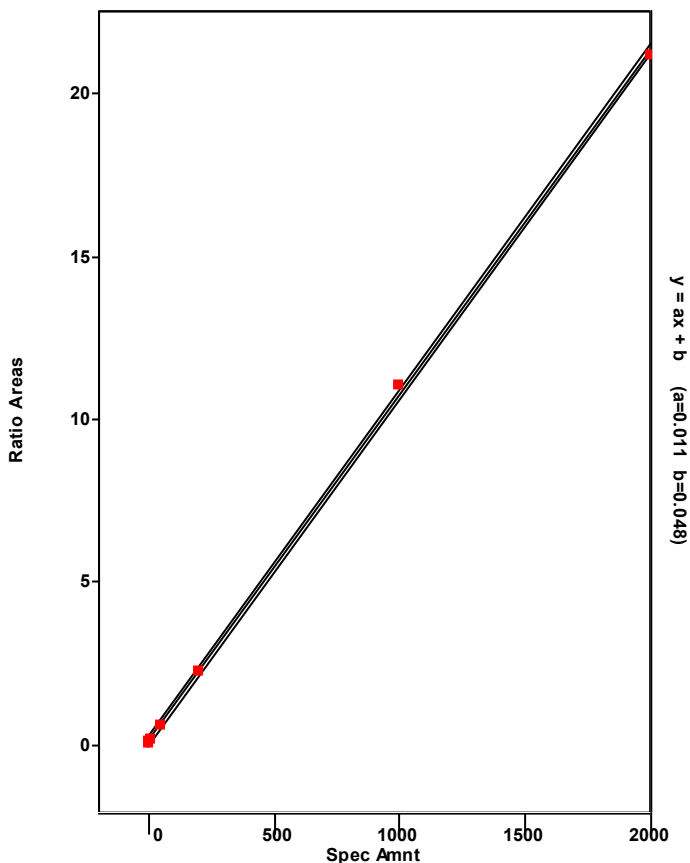


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	672949
RM1 Area	716656
RM1 Ratio (A)	1.0649
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.58
Percent Recovery (A)	95
TEQ (A)	0.4758
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

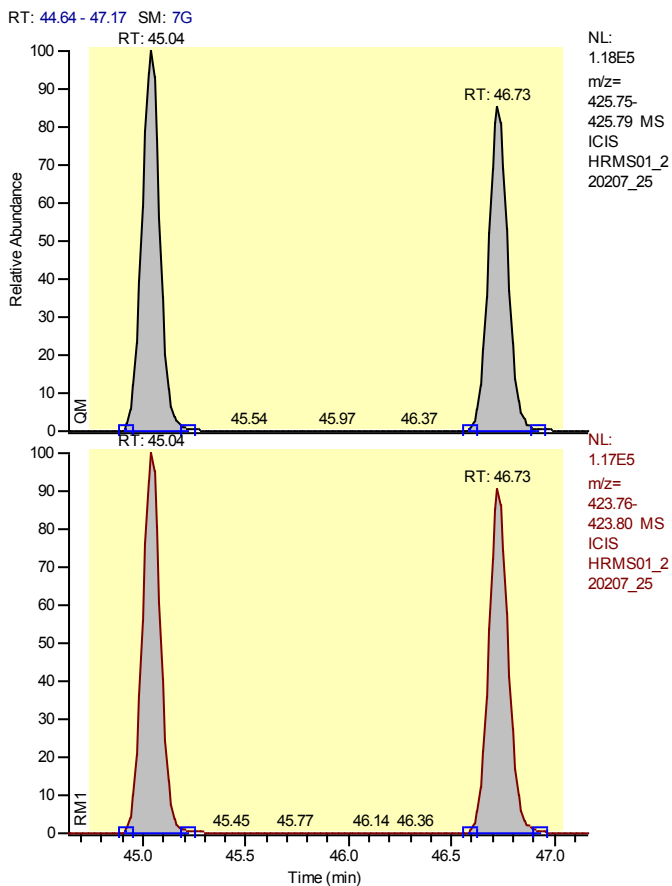
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

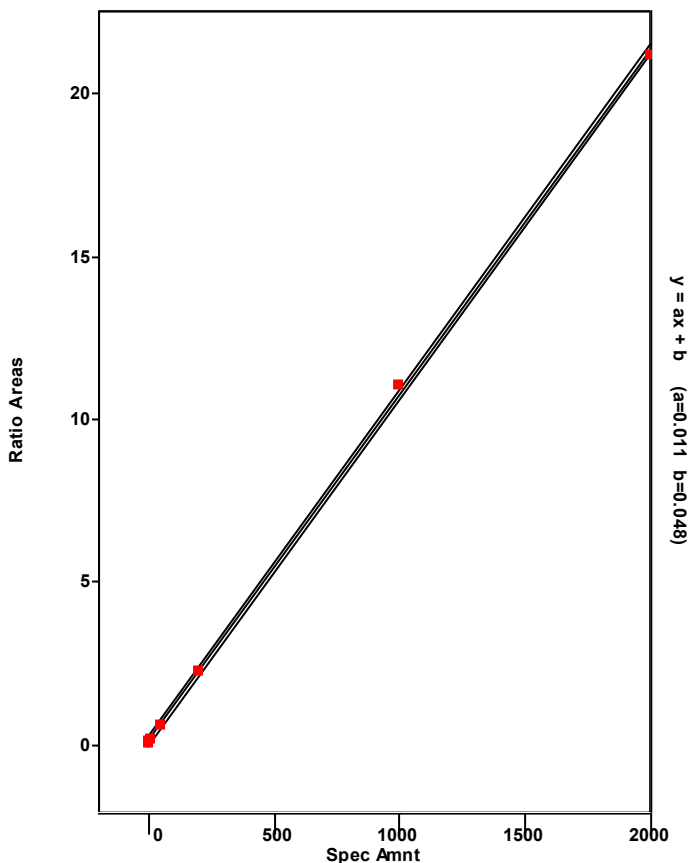


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	1406714
RM1 Area	1452473
RM1 Ratio (A)	1.0325
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	97.89
Percent Recovery (A)	196
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

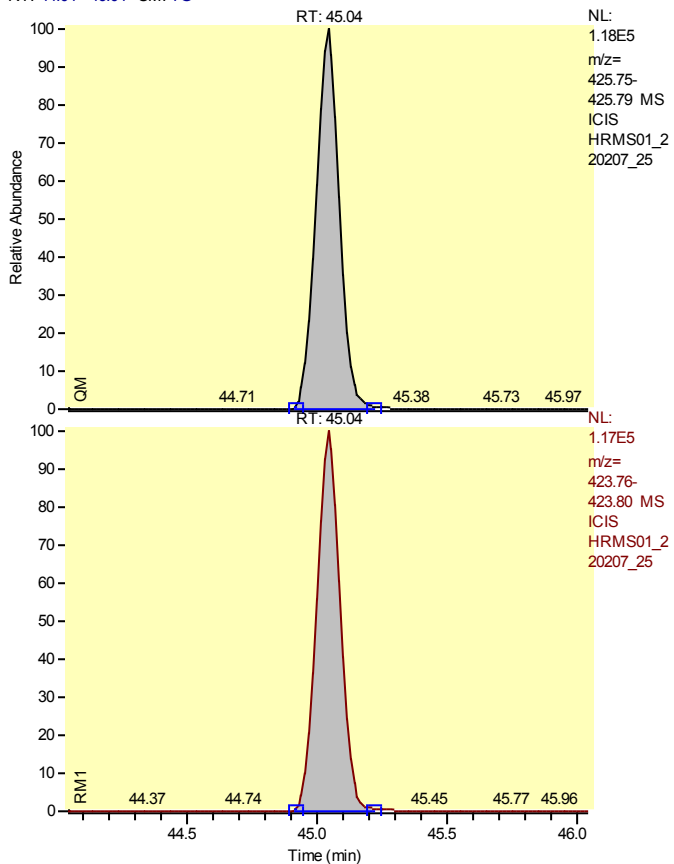
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.04 - 46.04 SM: 7G

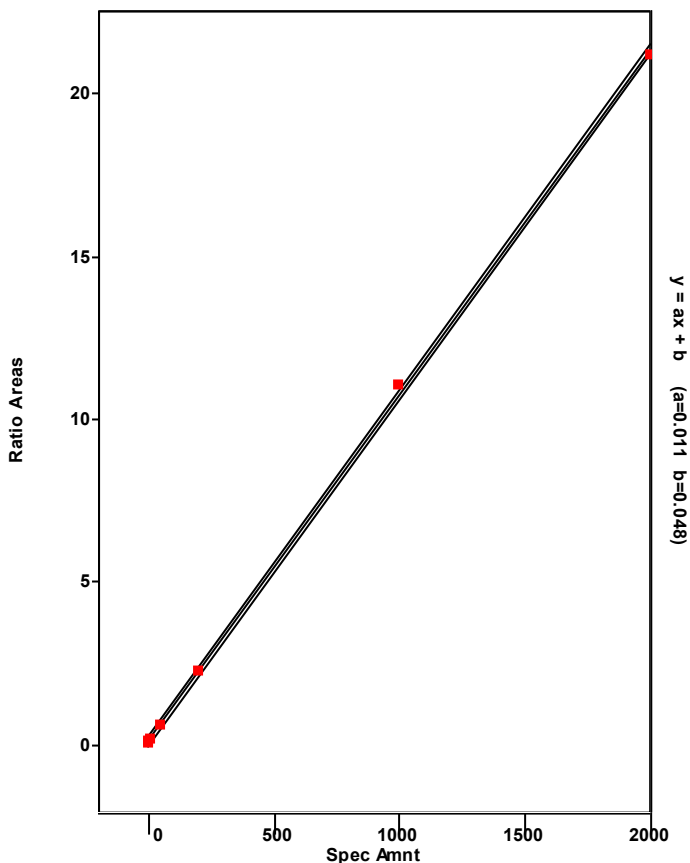


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	733765
RM1 Area	735818
RM1 Ratio (A)	1.0028
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.32
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

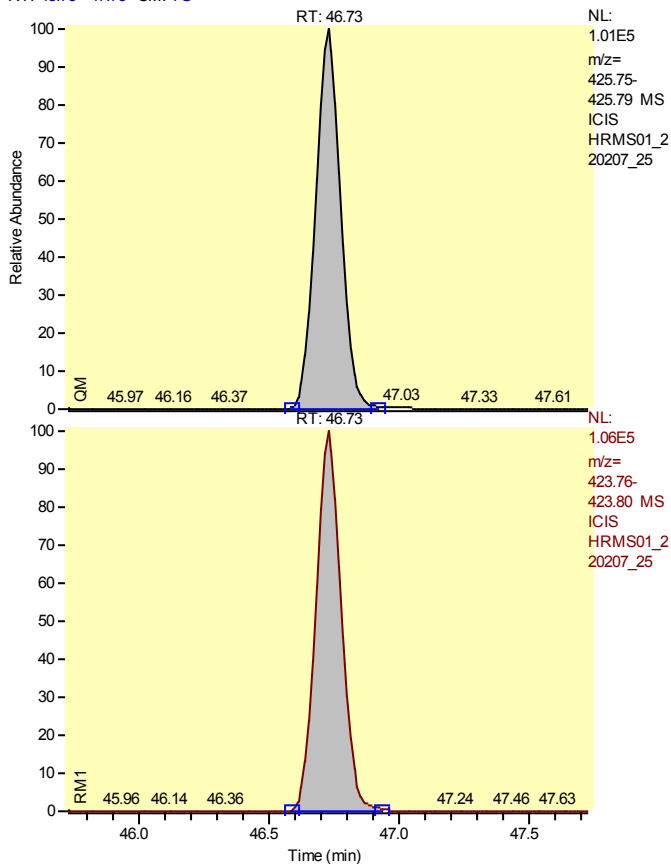
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.73 - 47.73 SM: 7G

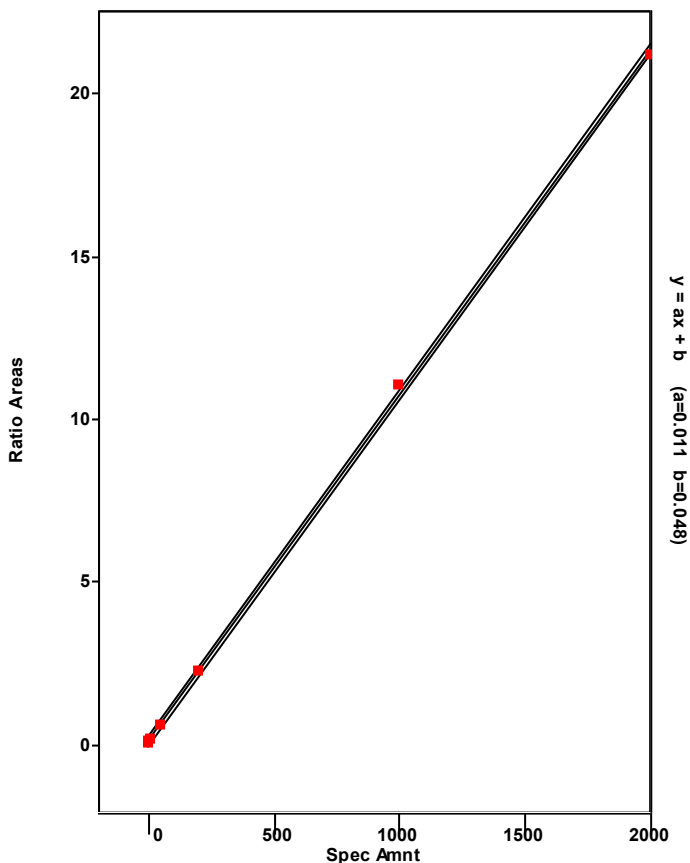


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	672949
RM1 Area	716656
RM1 Ratio (A)	1.0649
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.58
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

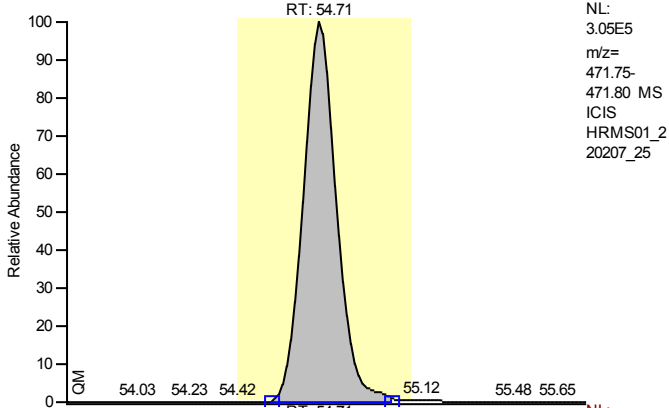
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



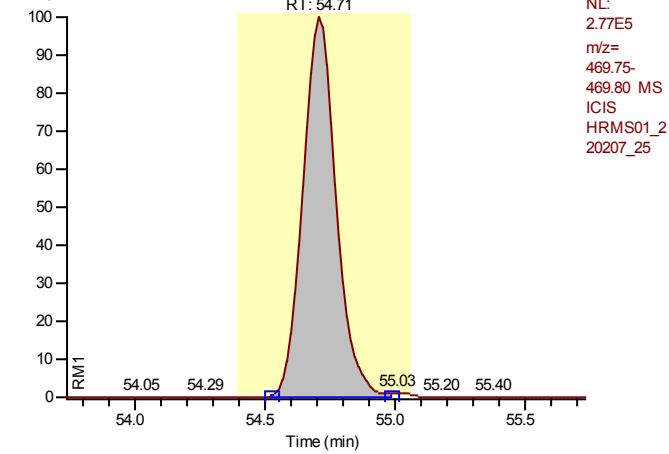
Chromatogram

Entry Parameters

RT: 53.73 - 55.73 SM: 7G



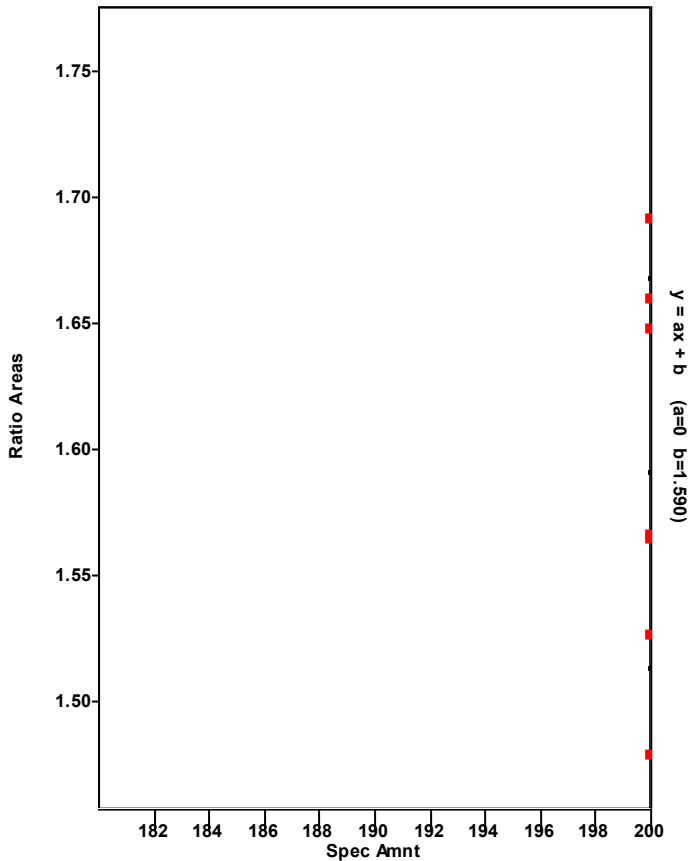
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2714412
RM1 Area	2485207
RM1 Ratio (A)	0.9156
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	230.80
Percent Recovery (A)	115
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

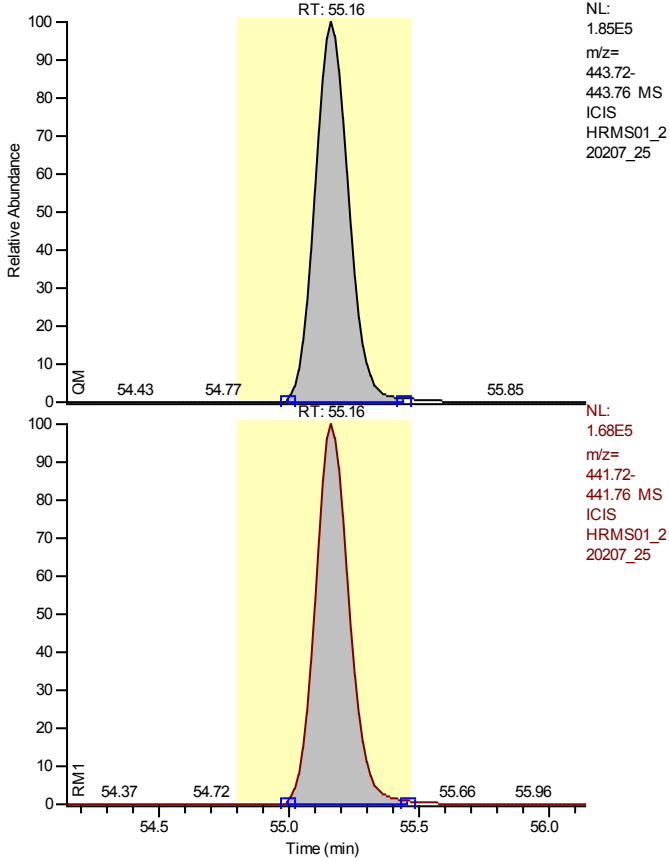
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.14 - 56.14 SM: 7G

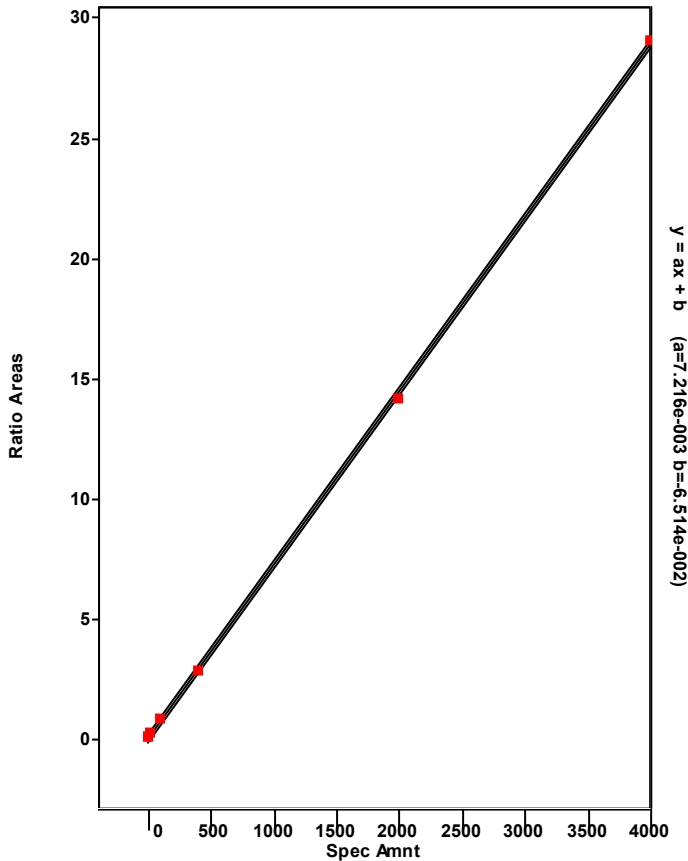


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1664647
RM1 Area	1513731
RM1 Ratio (A)	0.9093
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	86.85
Percent Recovery (A)	87
TEQ (A)	0.0261
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

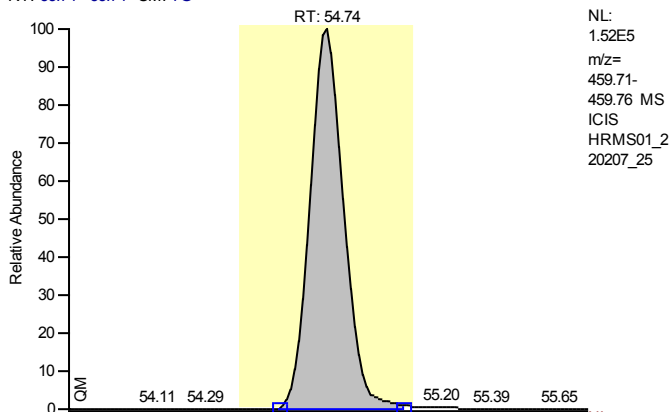
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



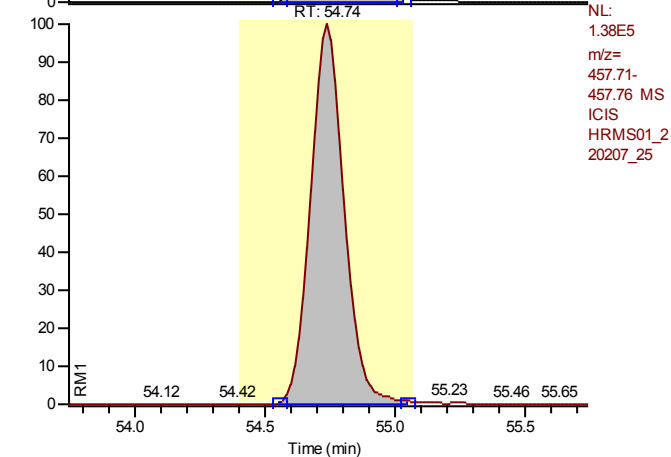
Chromatogram

Entry Parameters

RT: 53.74 - 55.74 SM: 7G



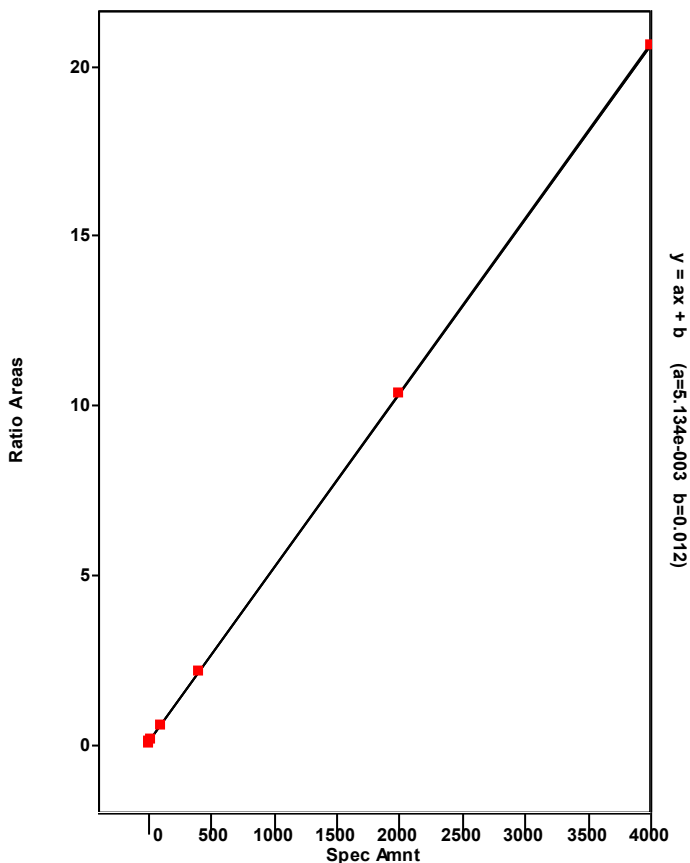
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	1374635
RM1 Area	1243299
RM1 Ratio (A)	0.9045
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	95.03
Percent Recovery (A)	95
TEQ (A)	0.0285
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

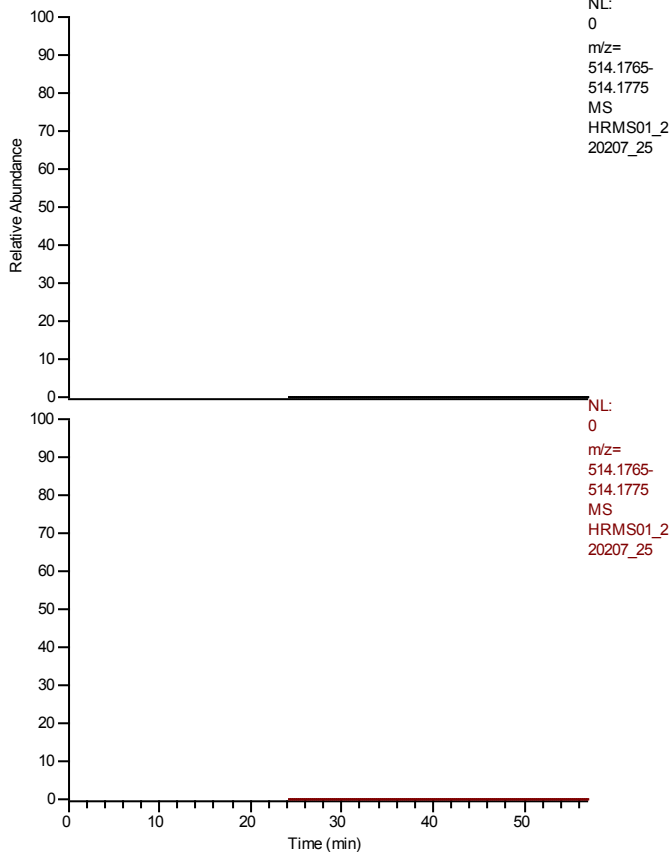
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

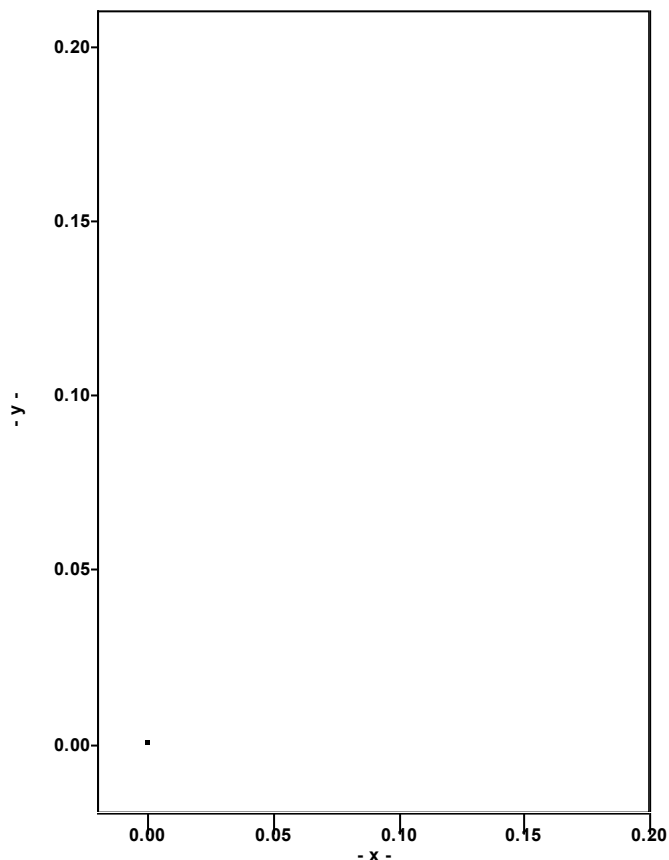
RT: 0.00 - 57.00 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	12588181
RM1 Area	14455370
RM1 Ratio (A)	1.1483
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	830.99
Percent Recovery (A)	---
TEQ (A)	110.9171
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/09 09:41
Number of Entries	72
Comment	HRMS210614B
Vial	2
Sample Name	WG1602294-3
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_41_seq
Data	hrms01_220207_41
Response	220204_1613b_gca
Quan Method File	epa1613b_gc1_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

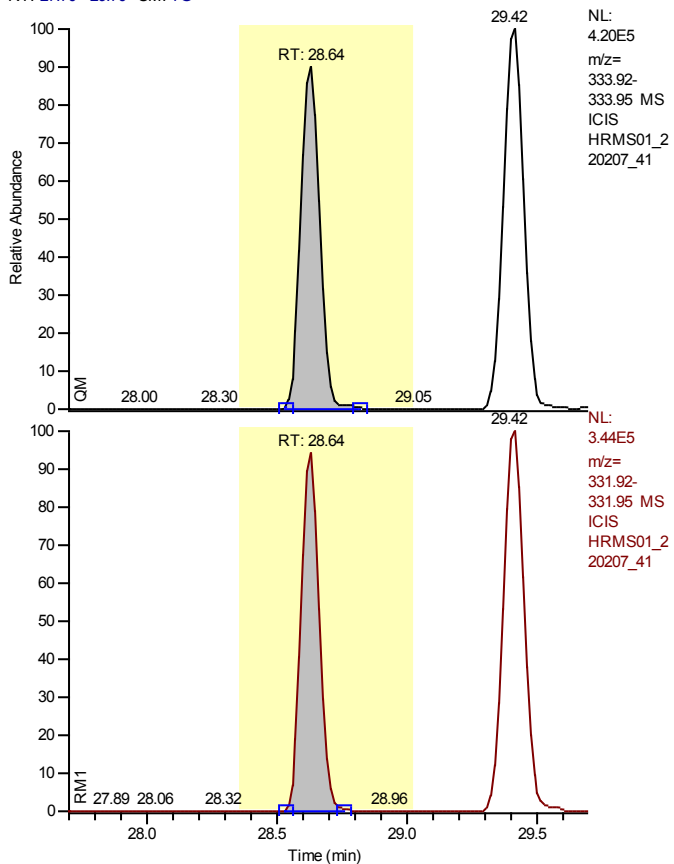
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1971779	1598537	0.8107	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		3393992	2553329	0.7523	0.6500 - 0.8900	100.00	98.54	99	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	350359	266360	0.7603	0.6500 - 0.8900	10.00	10.06	101	1.0061
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	1060725	803940	0.7579	0.6500 - 0.8900	10.00	30.42	304	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	382845	286862	0.7493	0.6500 - 0.8900	10.00	10.93	109	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	350359	266360	0.7603	0.6500 - 0.8900	10.00	10.06	101	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	327521	250718	0.7655	0.6500 - 0.8900	10.00	9.43	94	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		2296814	1918555	0.8353	0.6500 - 0.8900	100.00	99.43	99	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	257392	198700	0.7720	0.6500 - 0.8900	10.00	9.82	98	9.8163
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	1207391	932785	0.7726	0.6500 - 0.8900	10.00	46.06	461	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	240056	182507	0.7603	0.6500 - 0.8900	10.00	9.09	91	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	110916	88845	0.8010	0.6500 - 0.8900	10.00	4.30	43	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	377082	291605	0.7733	0.6500 - 0.8900	10.00	14.39	144	0.0000
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	257392	198700	0.7720	0.6500 - 0.8900	10.00	9.82	98	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	221945	171127	0.7710	0.6500 - 0.8900	10.00	8.46	85	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1786337	2755061	1.5423	1.3200 - 1.7800	100.00	92.08	92	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	932575	1468484	1.5747	1.3200 - 1.7800	50.00	52.55	105	1.5766
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	3965138	6238564	1.5734	1.3200 - 1.7800	50.00	212.07	424	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	1051335	1643953	1.5637	1.3200 - 1.7800	50.00	56.02	112	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	932575	1468484	1.5747	1.3200 - 1.7800	50.00	49.90	100	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	982445	1548259	1.5759	1.3200 - 1.7800	50.00	52.60	105	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	998784	1577868	1.5798	1.3200 - 1.7800	50.00	53.55	107	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1741308	2661499	1.5284	1.3200 - 1.7800	100.00	89.53	90	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	982445	1548259	1.5759	1.3200 - 1.7800	50.00	51.43	103	15.4284
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		1219042	1824755	1.4969	1.3200 - 1.7800	100.00	91.22	91	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	591965	932636	1.5755	1.3200 - 1.7800	50.00	50.23	100	50.2268
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	2225949	3513795	1.5786	1.3200 - 1.7800	50.00	189.09	378	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	714093	1148693	1.6086	1.3200 - 1.7800	50.00	61.37	123	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	919891	1432467	1.5572	1.3200 - 1.7800	50.00	77.50	155	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	591965	932636	1.5755	1.3200 - 1.7800	50.00	50.23	100	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		425849	425849	1.0000	0.8500 - 1.1500	10.00	9.90	99	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1713086	2149221	1.2546	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		2902966	1573530	0.5420	0.4300 - 0.5900	100.00	100.75	101	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	1195575	1515461	1.2676	1.0500 - 1.4300	50.00	48.57	97	4.8573
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	5910473	7424217	1.2561	1.0500 - 1.4300	50.00	234.77	470	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	1231844	1521803	1.2354	1.0500 - 1.4300	50.00	48.48	97	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	1181651	1476265	1.2493	1.0500 - 1.4300	50.00	46.80	94	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	1195575	1515461	1.2676	1.0500 - 1.4300	50.00	47.73	95	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	1215914	1553599	1.2777	1.0500 - 1.4300	50.00	48.76	98	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	1085488	1357089	1.2502	1.0500 - 1.4300	50.00	43.00	86	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		3029402	1633603	0.5392	0.4300 - 0.5900	100.00	94.96	95	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	1215914	1553599	1.2777	1.0500 - 1.4300	50.00	50.02	100	5.0022
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2913498	1539540	0.5284	0.4300 - 0.5900	100.00	93.82	94	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	1231844	1521803	1.2354	1.0500 - 1.4300	50.00	50.06	100	5.0062
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		2793413	1533663	0.5490	0.4300 - 0.5900	100.00	95.08	95	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	1085488	1357089	1.2502	1.0500 - 1.4300	50.00	48.28	97	4.8282
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		1506558	1886751	1.2524	1.0500 - 1.4300	100.00	99.65	100	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	804997	1011355	1.2563	1.0500 - 1.4300	50.00	48.85	98	4.8851
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	3287840	4140098	1.2592	1.0500 - 1.4300	50.00	196.35	393	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	851846	1053252	1.2364	1.0500 - 1.4300	50.00	50.36	101	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	823708	1069972	1.2990	1.0500 - 1.4300	50.00	50.06	100	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	804997	1011355	1.2563	1.0500 - 1.4300	50.00	48.01	96	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	807289	1005520	1.2456	1.0500 - 1.4300	50.00	47.92	96	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1506558	1886751	1.2524	1.0500 - 1.4300	100.00	99.65	100	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	804997	1011355	1.2563	1.0500 - 1.4300	50.00	48.85	98	4.8851
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	851846	1053252	1.2364	1.0500 - 1.4300	50.00	48.59	97	4.8589
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		2884980	1302846	0.4516	0.3700 - 0.5100	100.00	96.02	96	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	1359985	1404912	1.0330	0.8800 - 1.2000	50.00	48.94	98	0.4894
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	2503386	2633416	1.0519	0.8800 - 1.2000	50.00	95.48	191	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	1359985	1404912	1.0330	0.8800 - 1.2000	50.00	51.39	103	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	1143401	1228504	1.0744	0.8800 - 1.2000	50.00	44.09	88	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		2499027	1133393	0.4535	0.3700 - 0.5100	100.00	89.87	90	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	1143401	1228504	1.0744	0.8800 - 1.2000	50.00	49.61	99	0.4961
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1623110	1772503	1.0920	0.8800 - 1.2000	100.00	98.20	98	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	910340	965539	1.0606	0.8800 - 1.2000	50.00	49.85	100	0.4985
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	1864436	1954114	1.0481	0.8800 - 1.2000	50.00	101.47	203	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	954096	988575	1.0361	0.8800 - 1.2000	50.00	51.62	103	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	910340	965539	1.0606	0.8800 - 1.2000	50.00	49.85	100	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		3171430	2914061	0.9188	0.7600 - 1.0200	200.00	198.24	99	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1984195	1830765	0.9227	0.7600 - 1.0200	100.00	89.07	89	0.0267
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	1646356	1476547	0.8969	0.7600 - 1.0200	100.00	96.86	97	0.0291
72	overall TEQ	overall TEQ test		17349675	20344620	1.1726	0.0000 - 0.0000	0.00	851.64	---	113.9169

Chromatogram

Entry Parameters

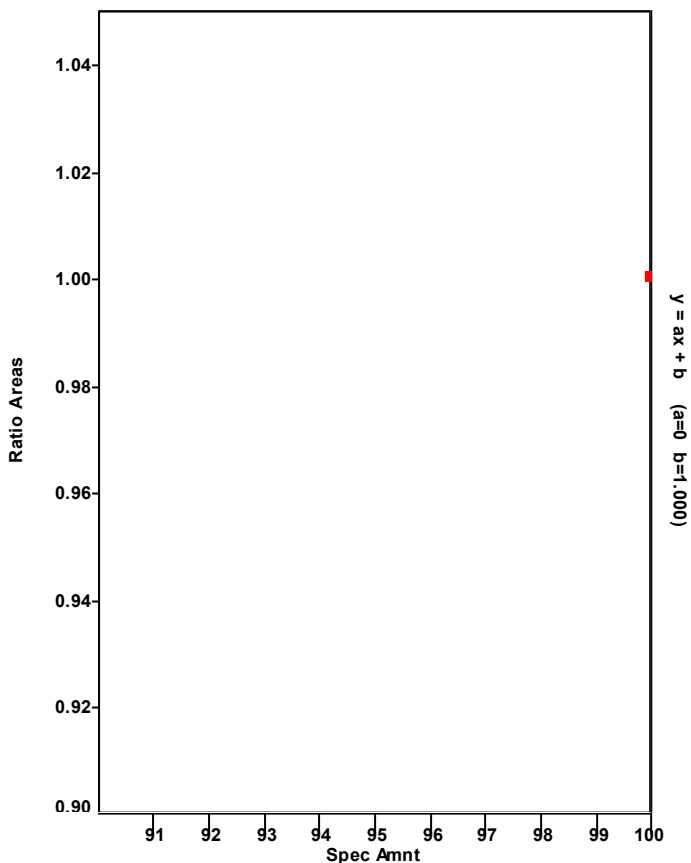
RT: 27.70 - 29.70 SM: 7G



Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1971779
RM1 Area	1598537
RM1 Ratio (A)	0.8107
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

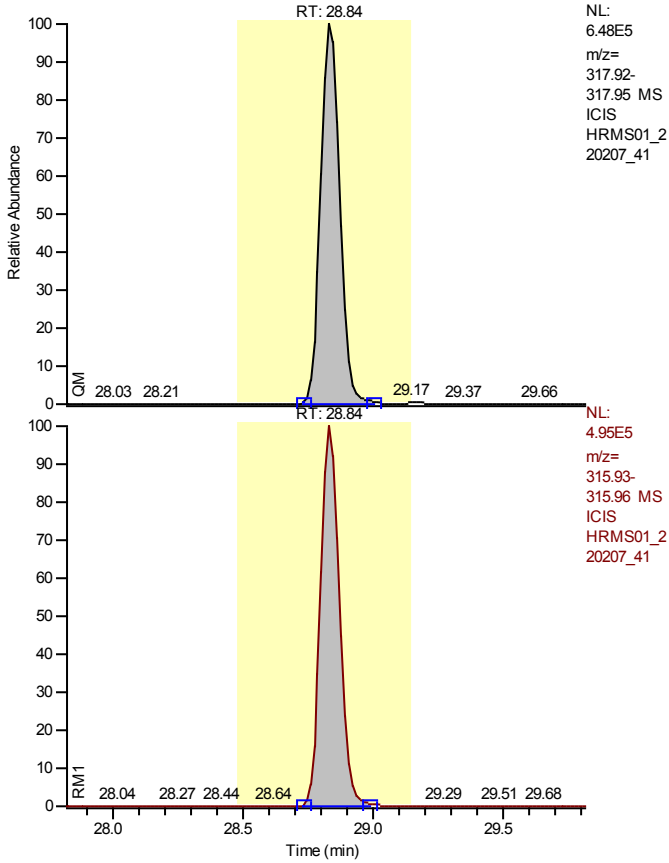
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

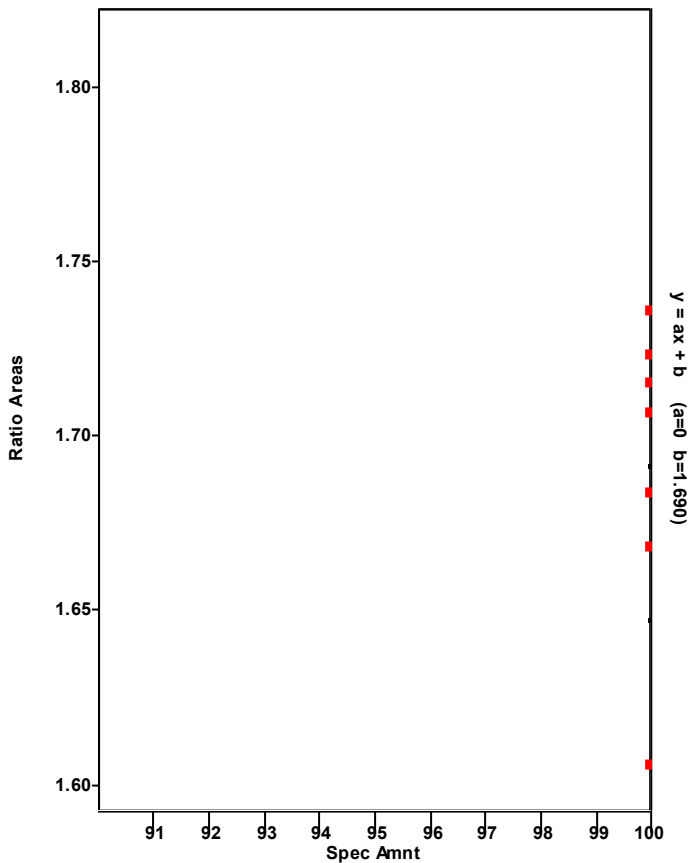
RT: 27.82 - 29.82 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	3393992
RM1 Area	2553329
RM1 Ratio (A)	0.7523
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	98.54
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

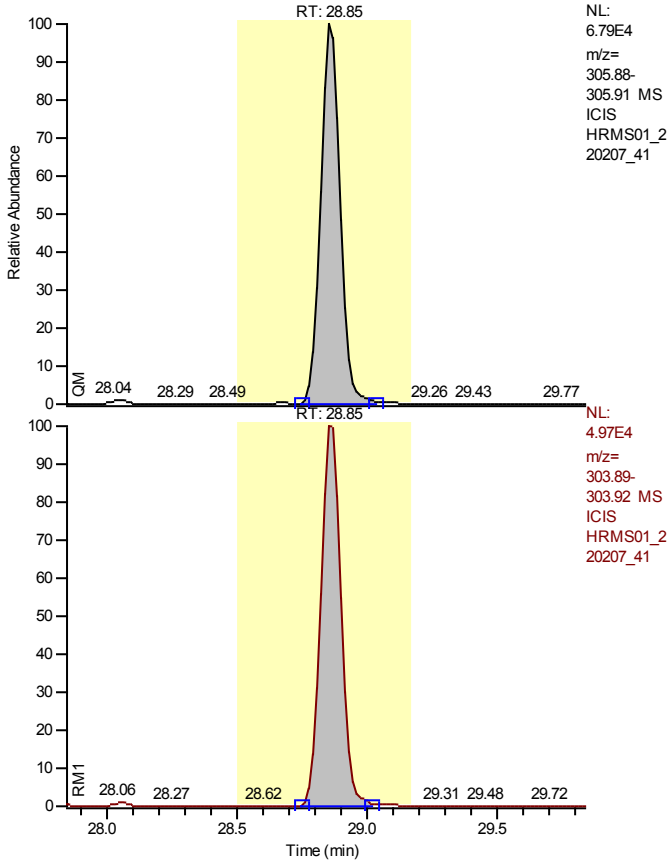
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

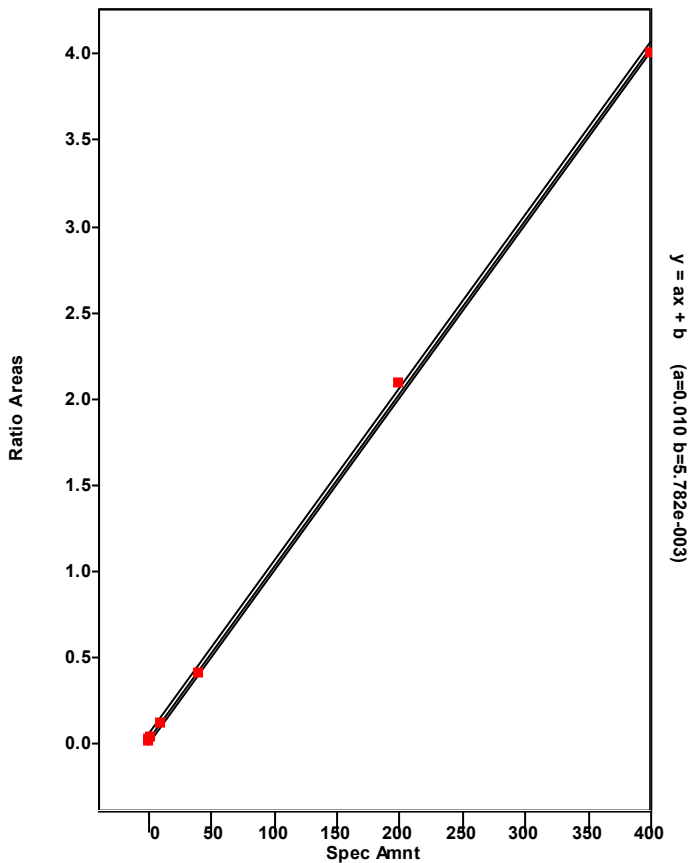
RT: 27.84 - 29.84 SM: 7G



Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	350359
RM1 Area	266360
RM1 Ratio (A)	0.7603
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.06
Percent Recovery (A)	101
TEQ (A)	1.0061
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

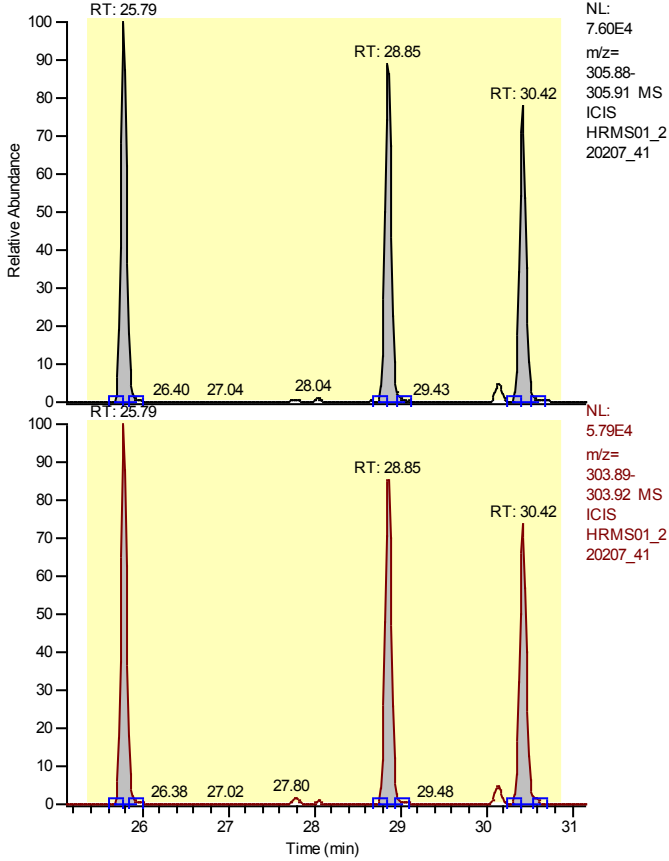
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.11 - 31.16 SM: 7G



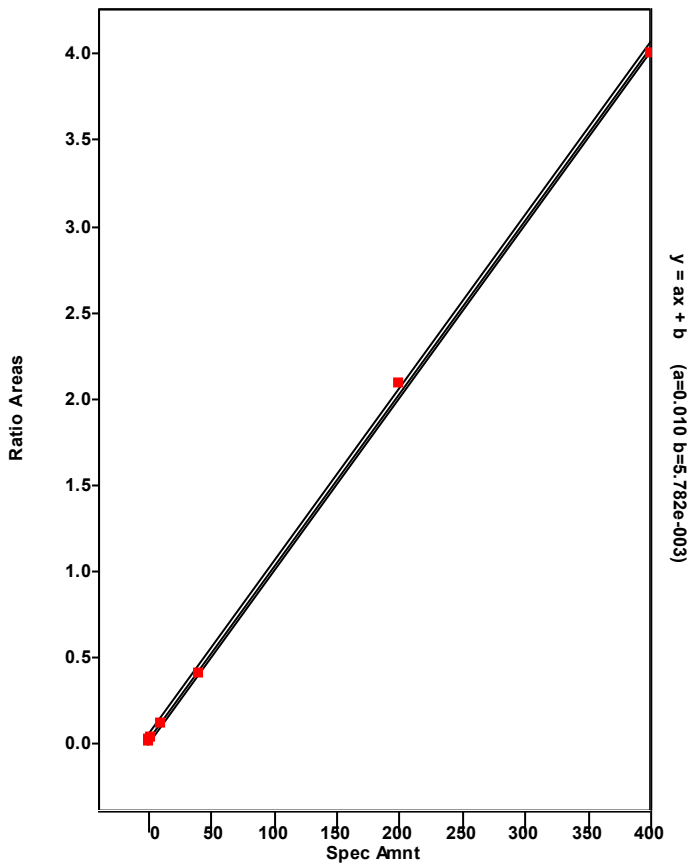
NL: 7.60E4
 m/z= 305.88-305.91 MS
 ICIS HRMS01_2 20207_41

NL: 5.79E4
 m/z= 303.89-303.92 MS
 ICIS HRMS01_2 20207_41

Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	1060725
RM1 Area	803940
RM1 Ratio (A)	0.7579
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	30.42
Percent Recovery (A)	304
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran

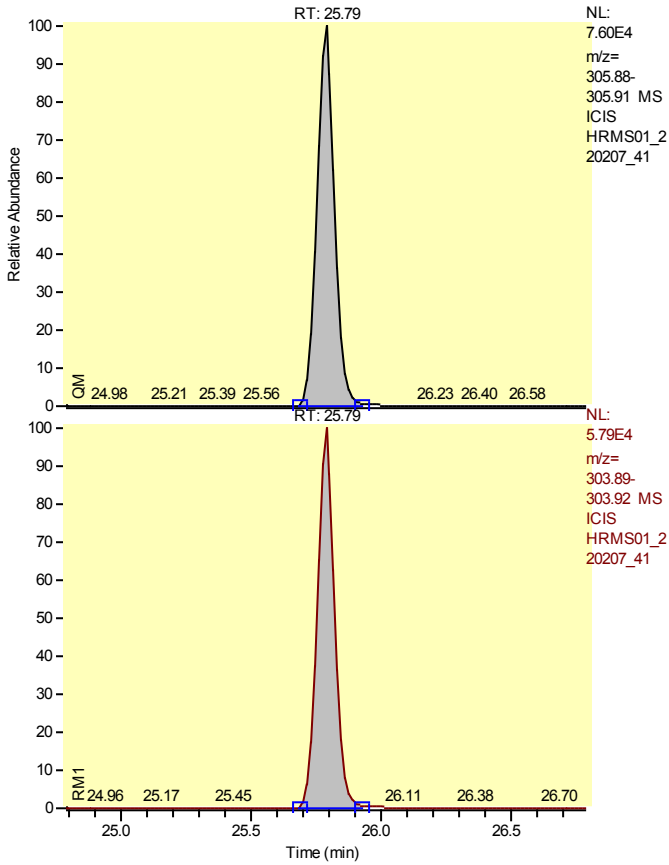
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.79 - 26.79 SM: 7G



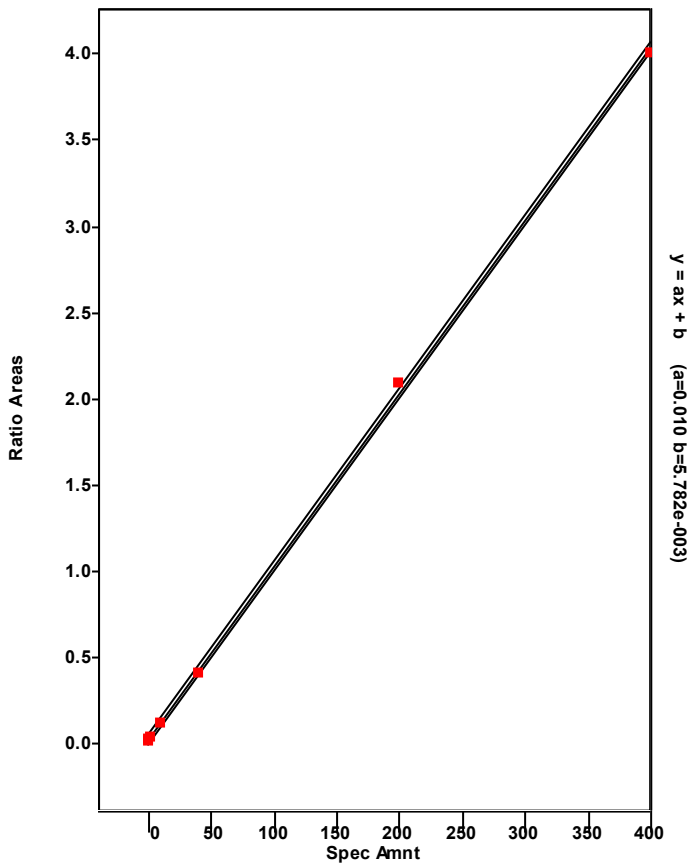
NL: 7.60E4
 m/z= 305.88-305.91 MS
 ICIS HRMS01_2 20207_41

NL: 5.79E4
 m/z= 303.89-303.92 MS
 ICIS HRMS01_2 20207_41

Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	382845
RM1 Area	286862
RM1 Ratio (A)	0.7493
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.93
Percent Recovery (A)	109
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__1

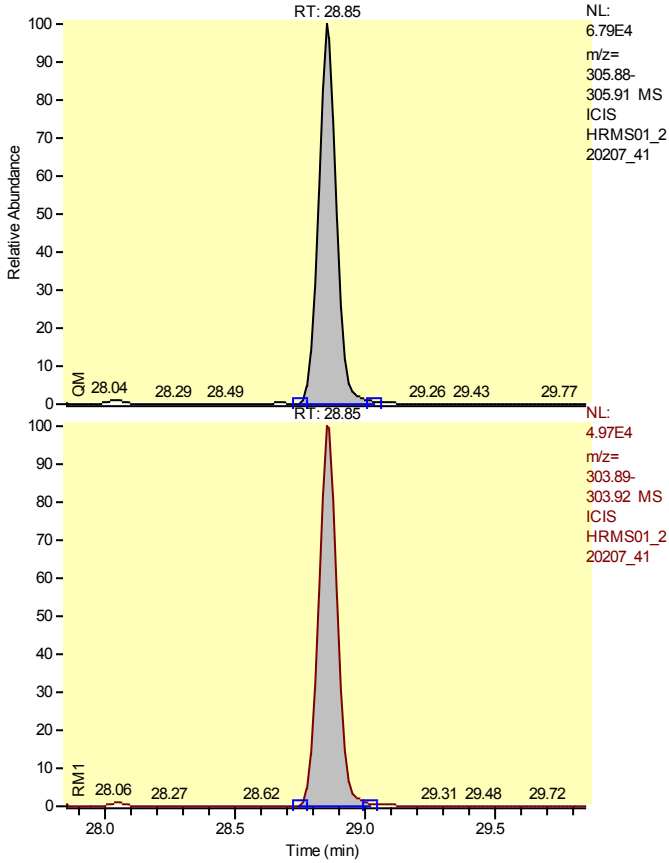
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

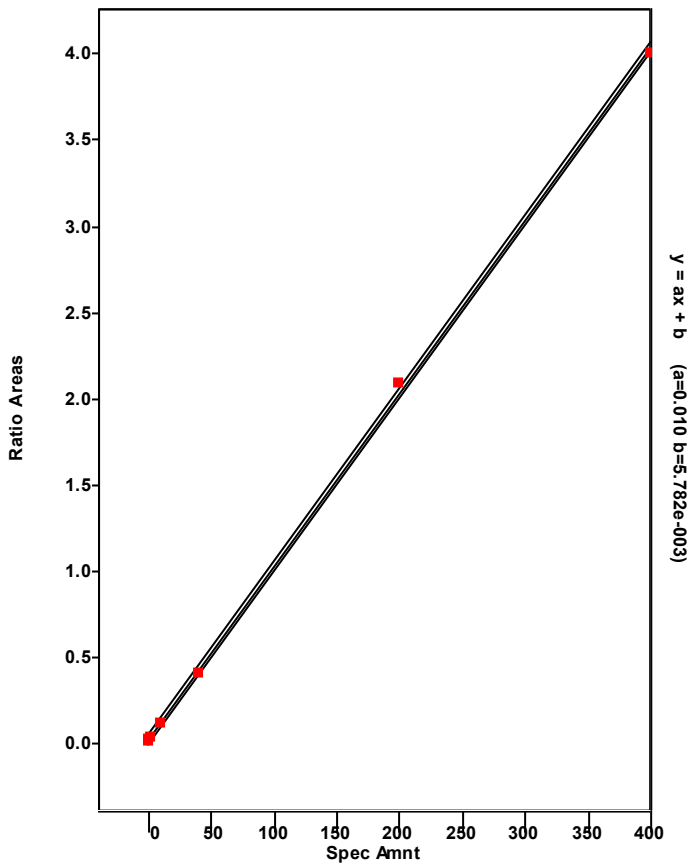
RT: 27.85 - 29.85 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	350359
RM1 Area	266360
RM1 Ratio (A)	0.7603
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.06
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__2

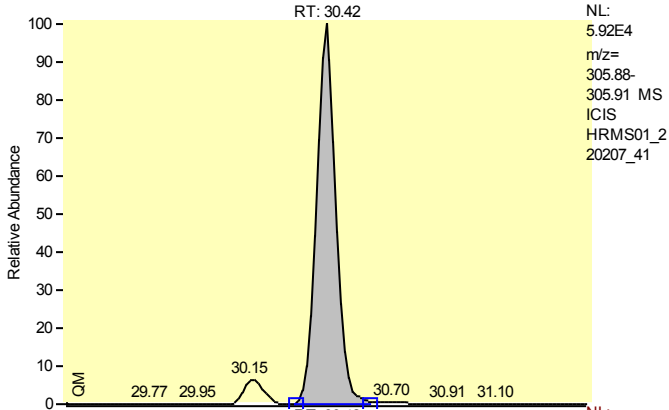
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

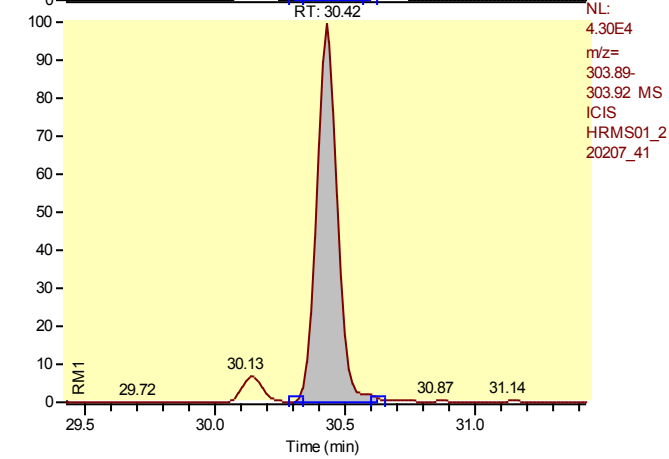
Entry Parameters

RT: 29.42 - 31.42 SM: 7G



NL:
5.92E4
m/z=
305.88-
305.91 MS
ICIS
HRMS01_2
20207_41

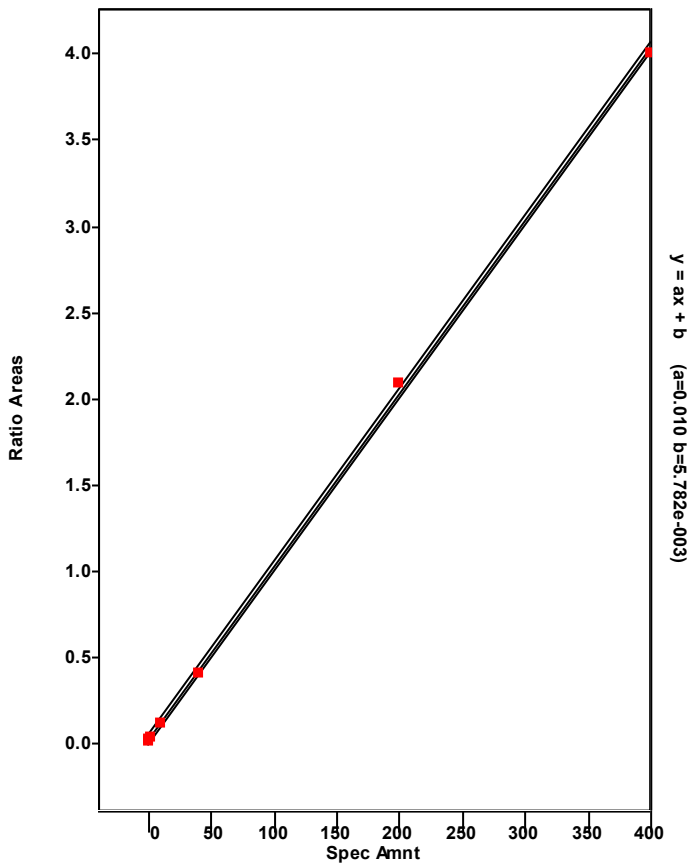
Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	327521
RM1 Area	250718
RM1 Ratio (A)	0.7655
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.43
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	



NL:
4.30E4
m/z=
303.89-
303.92 MS
ICIS
HRMS01_2
20207_41

Calibration Points of Total Tetrachlorodibenzofuran__3

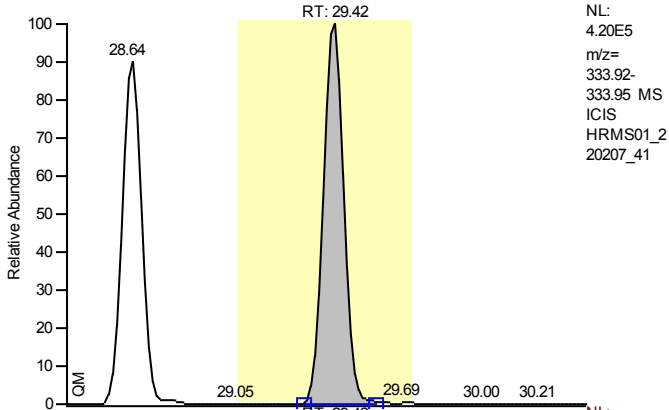
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

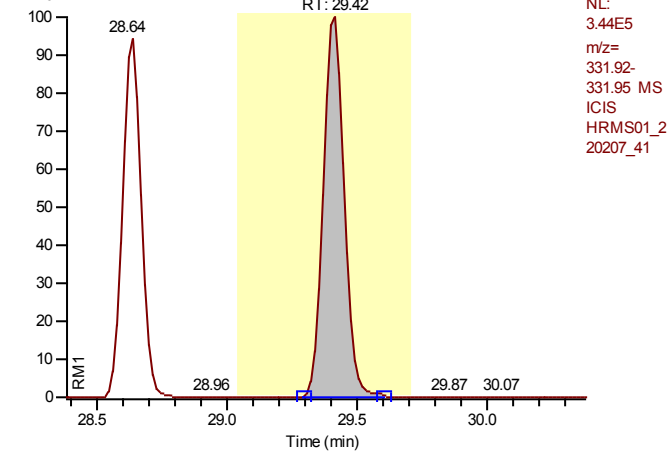
Entry Parameters

RT: 28.38 - 30.38 SM: 7G



NL:
4.20E5
m/z=
333.92-
333.95 MS
ICIS
HRMS01_2
20207_41

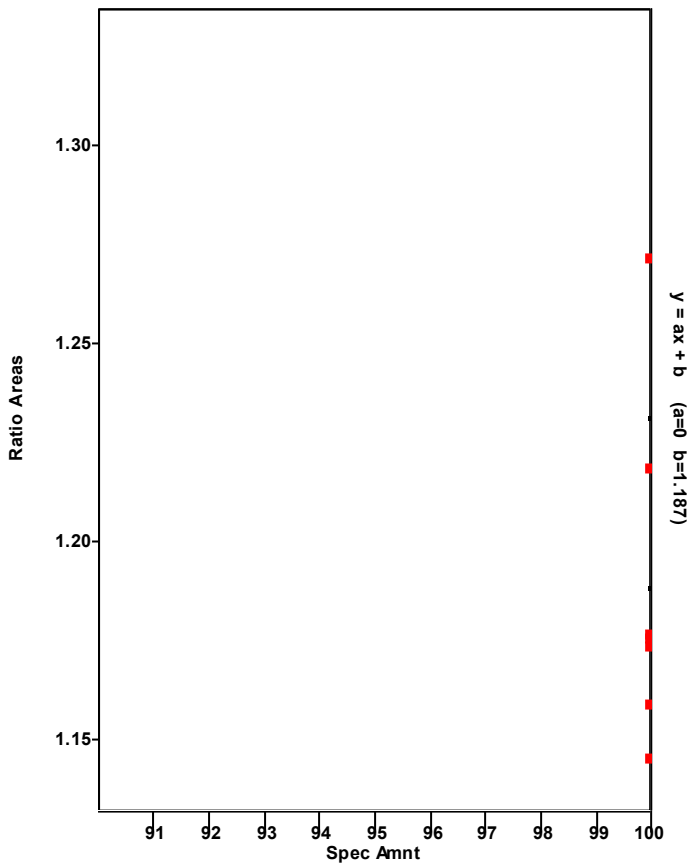
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	2296814
RM1 Area	1918555
RM1 Ratio (A)	0.8353
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	99.43
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



NL:
3.44E5
m/z=
331.92-
331.95 MS
ICIS
HRMS01_2
20207_41

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

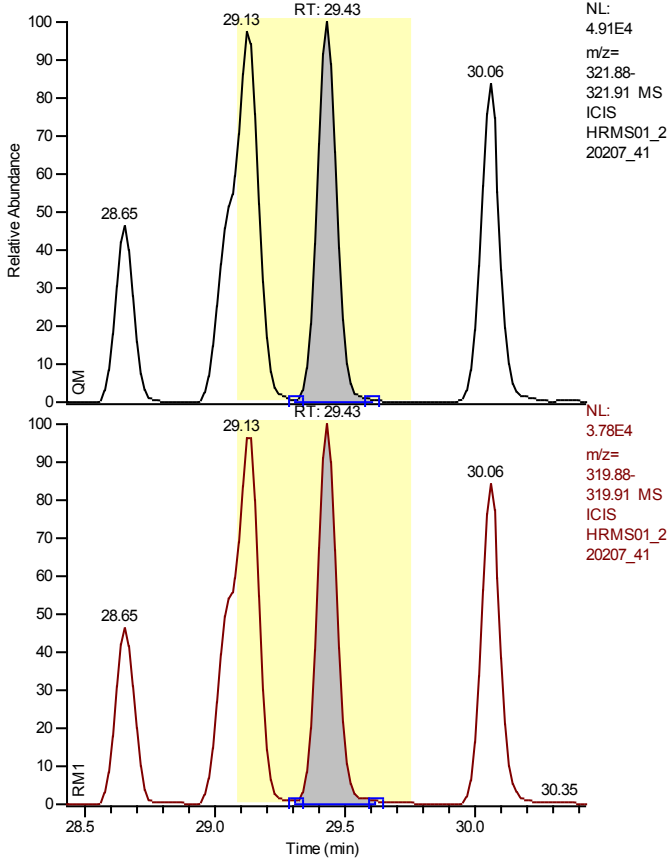
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

Entry Parameters

RT: 28.43 - 30.43 SM: 7G



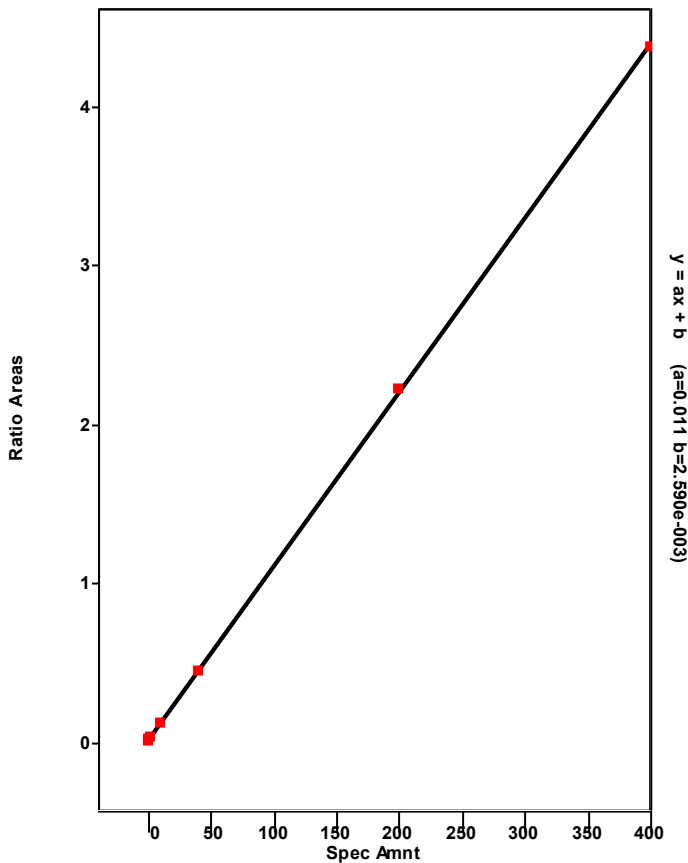
NL:
4.91E4
m/z=
321.88-
321.91 MS
ICIS
HRMS01_2
20207_41

NL:
3.78E4
m/z=
319.88-
319.91 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	257392
RM1 Area	198700
RM1 Ratio (A)	0.7720
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.82
Percent Recovery (A)	98
TEQ (A)	9.8163
Label2	

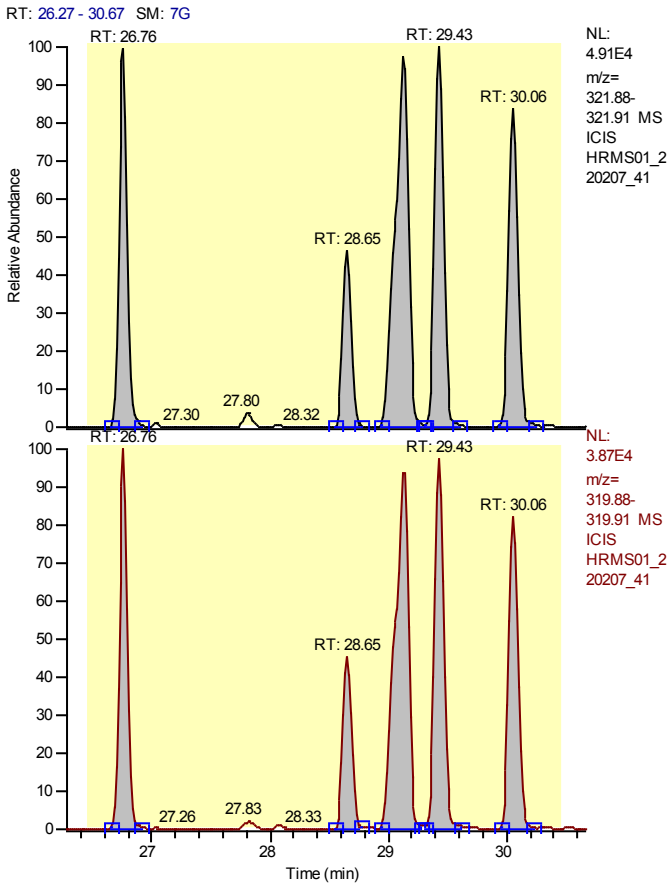
Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

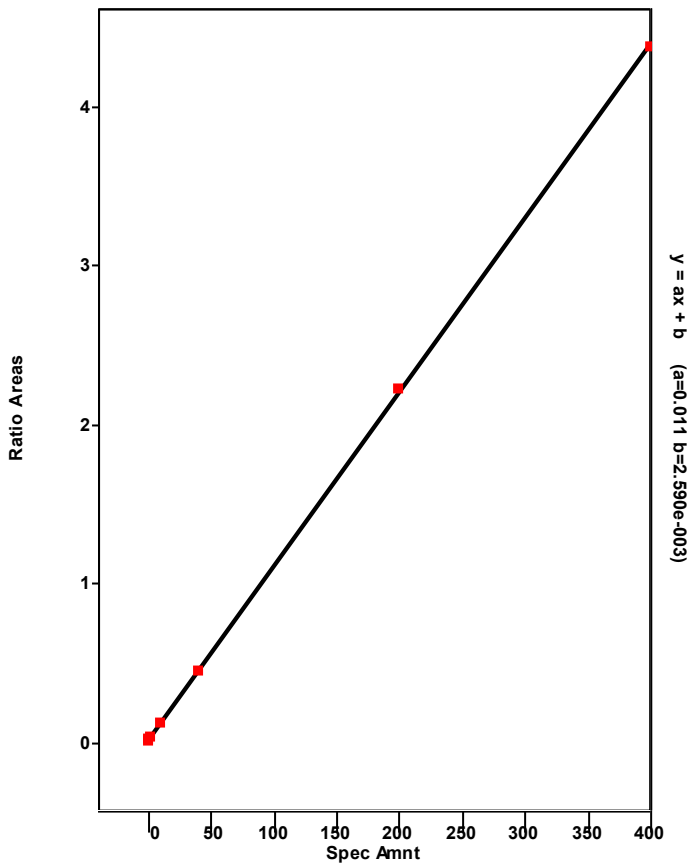
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	1207391
RM1 Area	932785
RM1 Ratio (A)	0.7726
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	46.06
Percent Recovery (A)	461
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

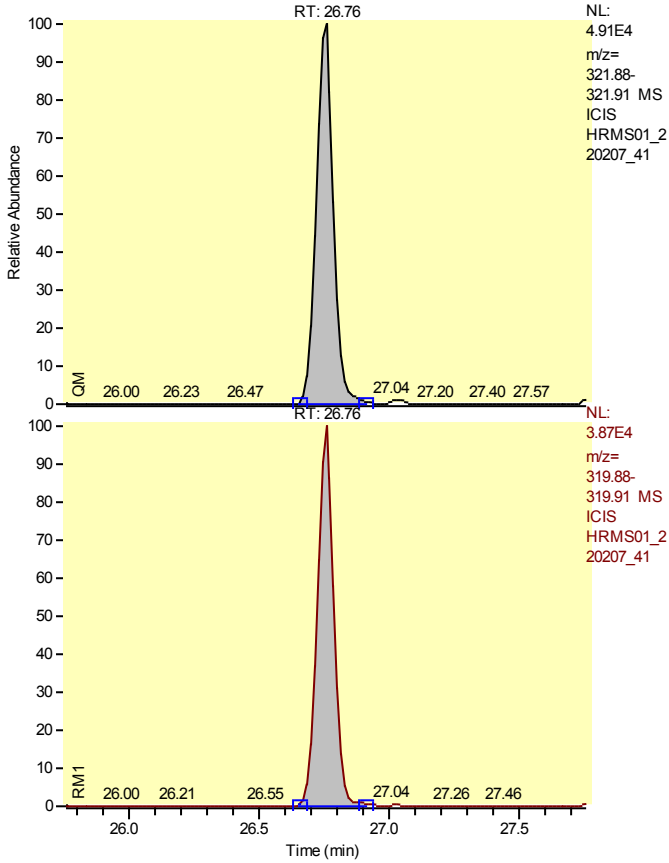
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

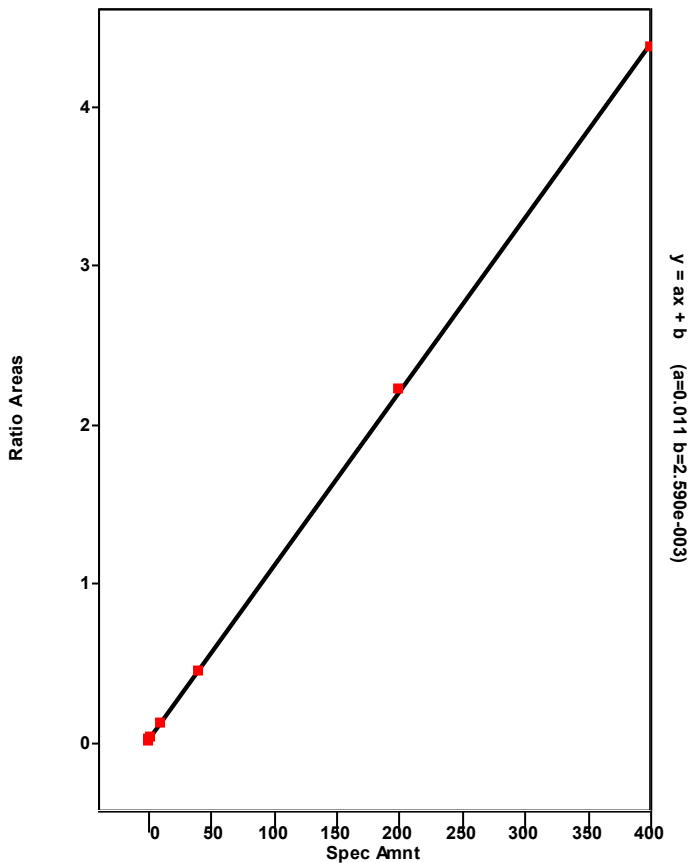
RT: 25.76 - 27.76 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	240056
RM1 Area	182507
RM1 Ratio (A)	0.7603
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.09
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

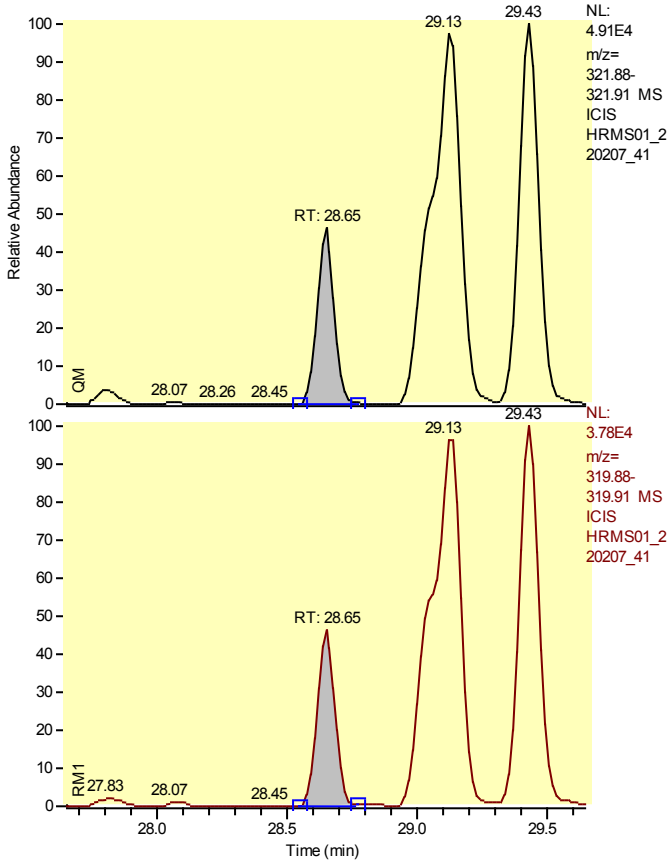
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

RT: 27.65 - 29.65 SM: 7G

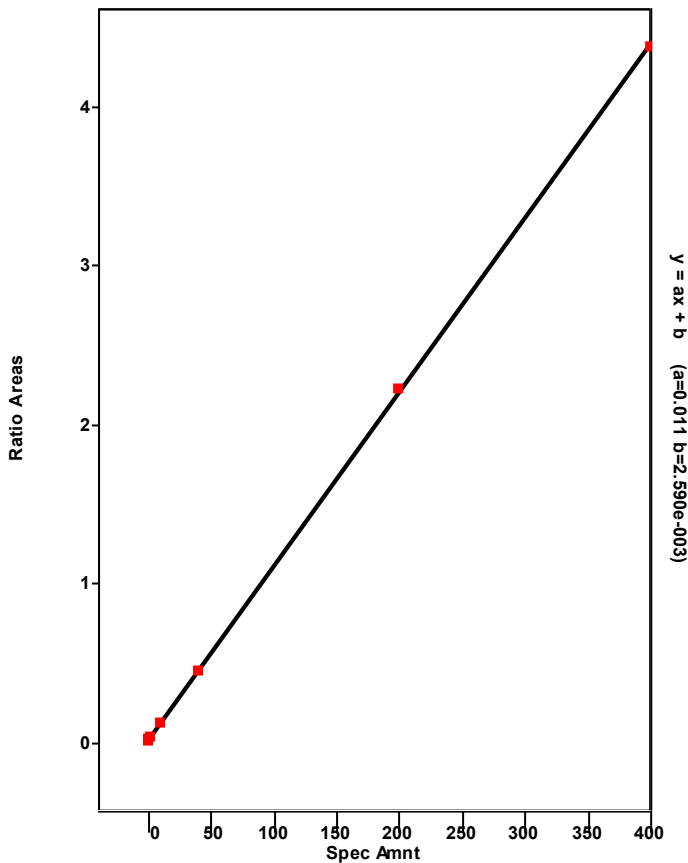


Entry Parameters

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	110916
RM1 Area	88845
RM1 Ratio (A)	0.8010
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	4.30
Percent Recovery (A)	43
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

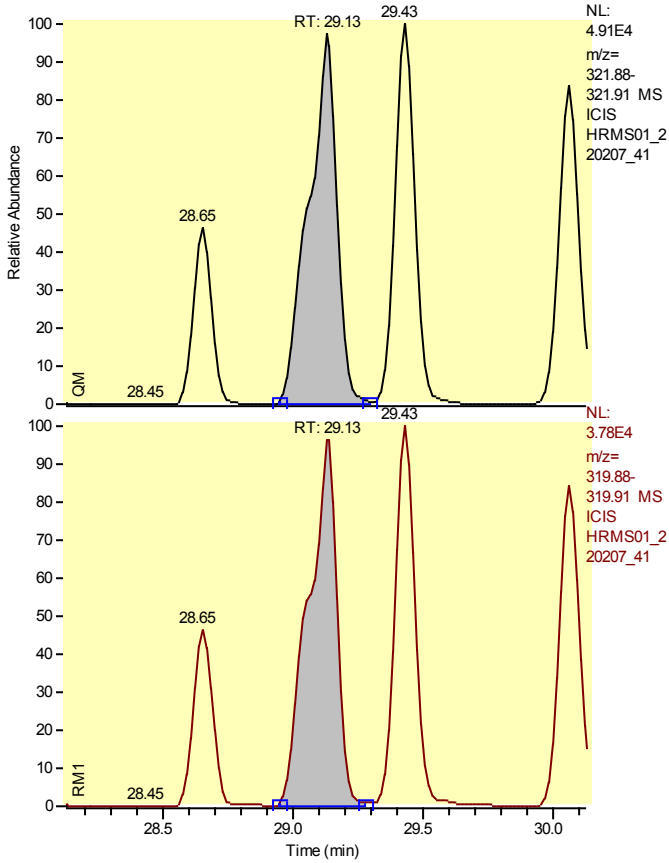
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

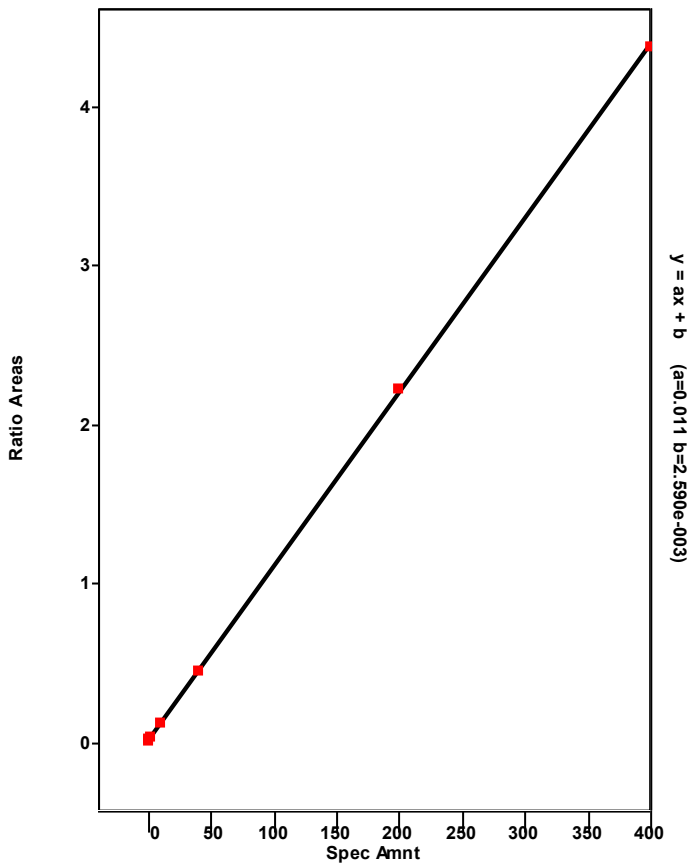
RT: 28.13 - 30.13 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	377082
RM1 Area	291605
RM1 Ratio (A)	0.7733
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	14.39
Percent Recovery (A)	144
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

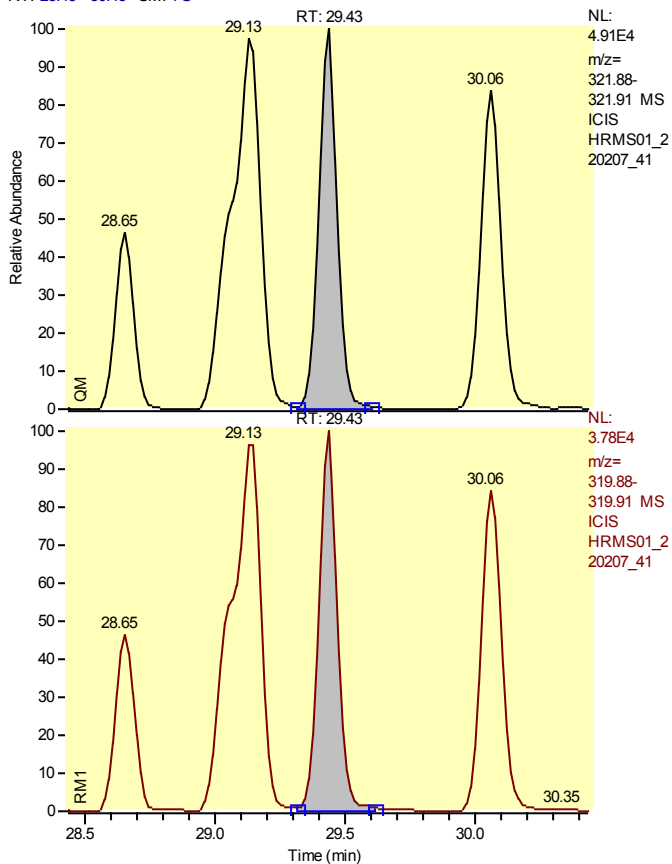
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

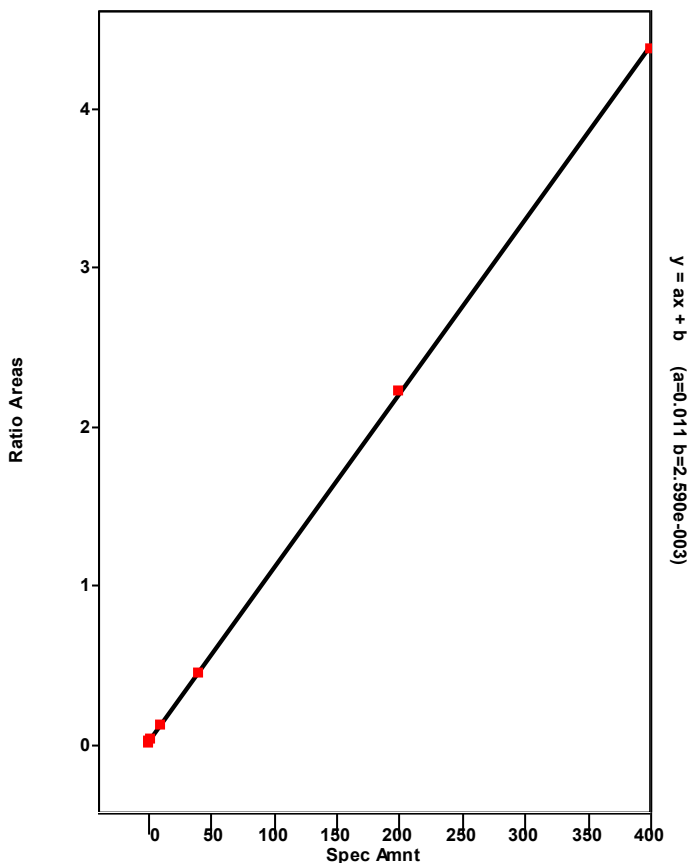
RT: 28.43 - 30.43 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	257392
RM1 Area	198700
RM1 Ratio (A)	0.7720
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.82
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

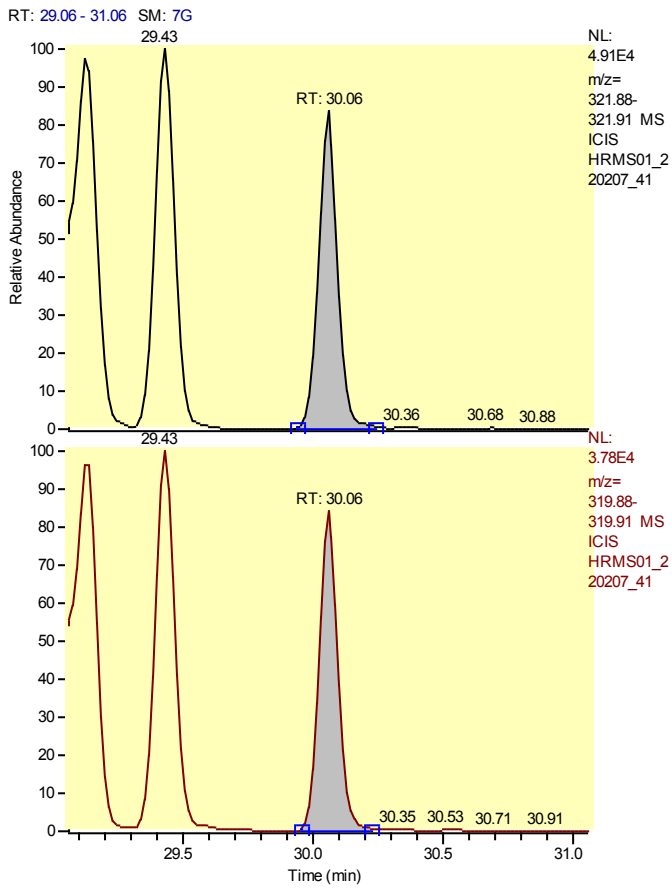
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

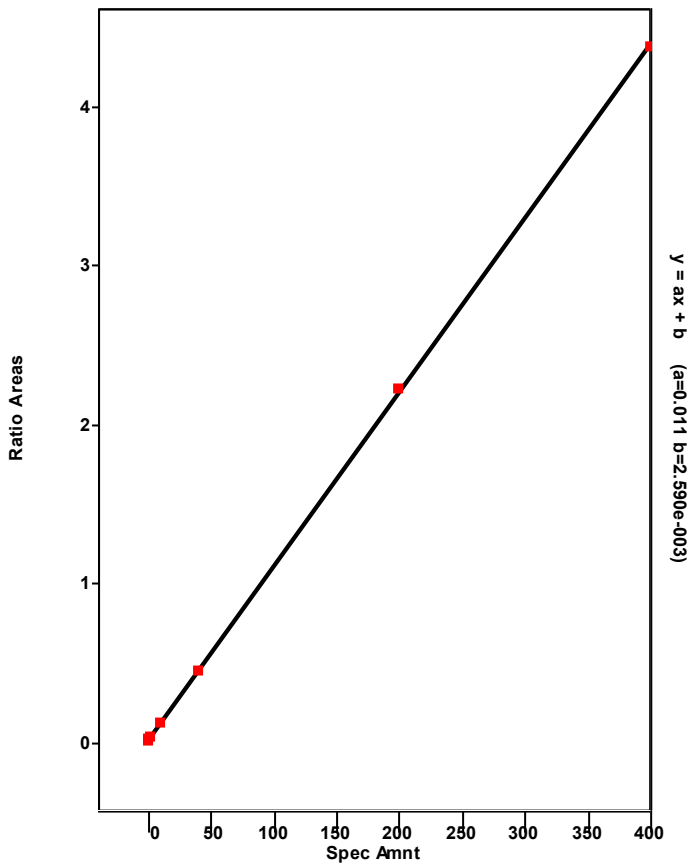
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	221945
RM1 Area	171127
RM1 Ratio (A)	0.7710
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.46
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

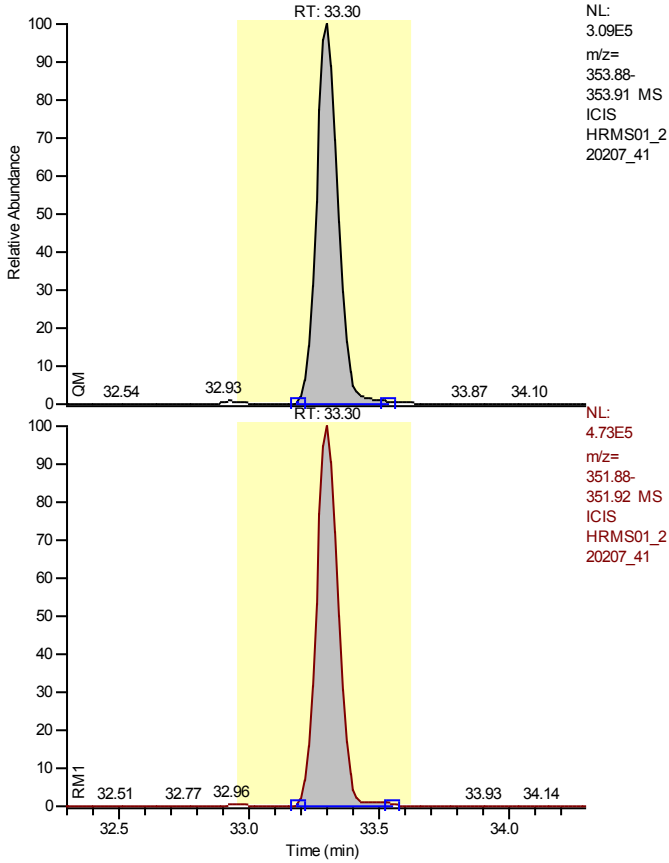
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



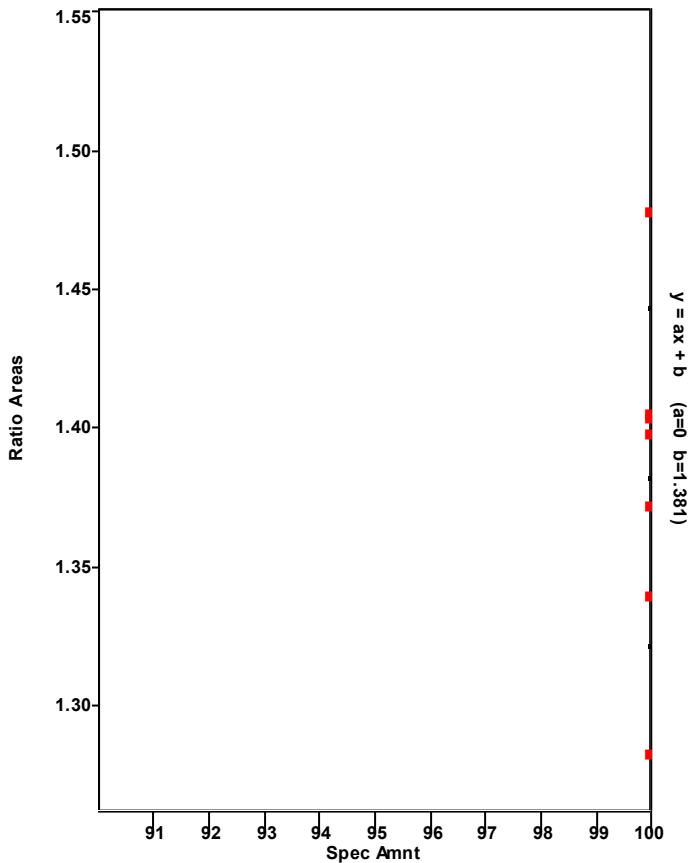
NL:
3.09E5
m/z=
353.88-
353.91 MS
ICIS
HRMS01_2
20207_41

NL:
4.73E5
m/z=
351.88-
351.92 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1786337
RM1 Area	2755061
RM1 Ratio (A)	1.5423
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	92.08
Percent Recovery (A)	92
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

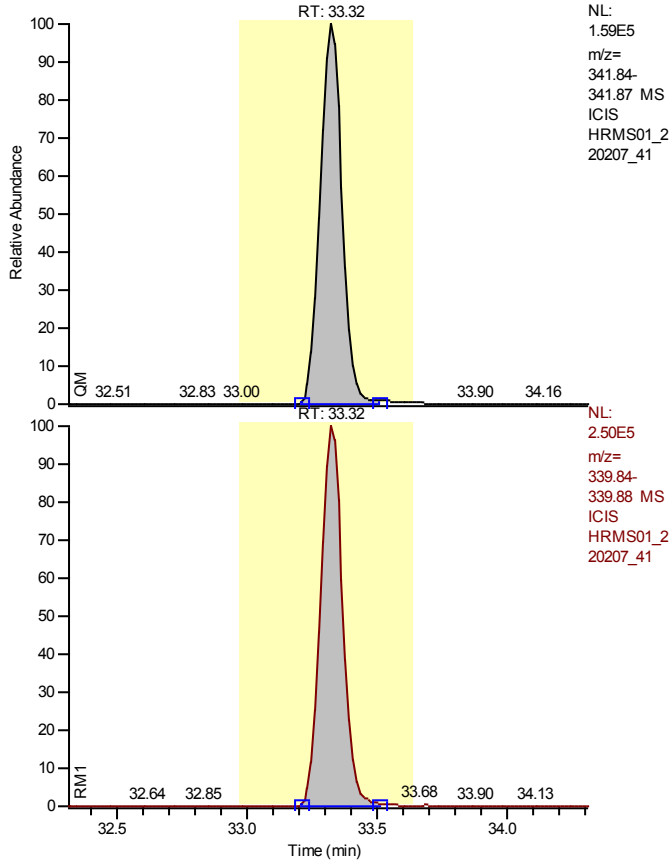
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

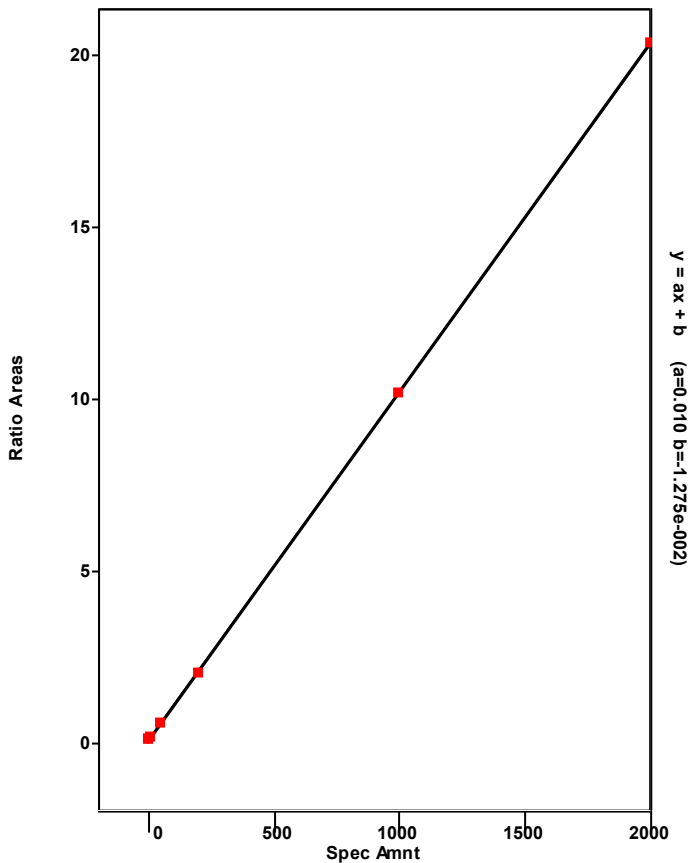
RT: 32.31 - 34.31 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	932575
RM1 Area	1468484
RM1 Ratio (A)	1.5747
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.55
Percent Recovery (A)	105
TEQ (A)	1.5766
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

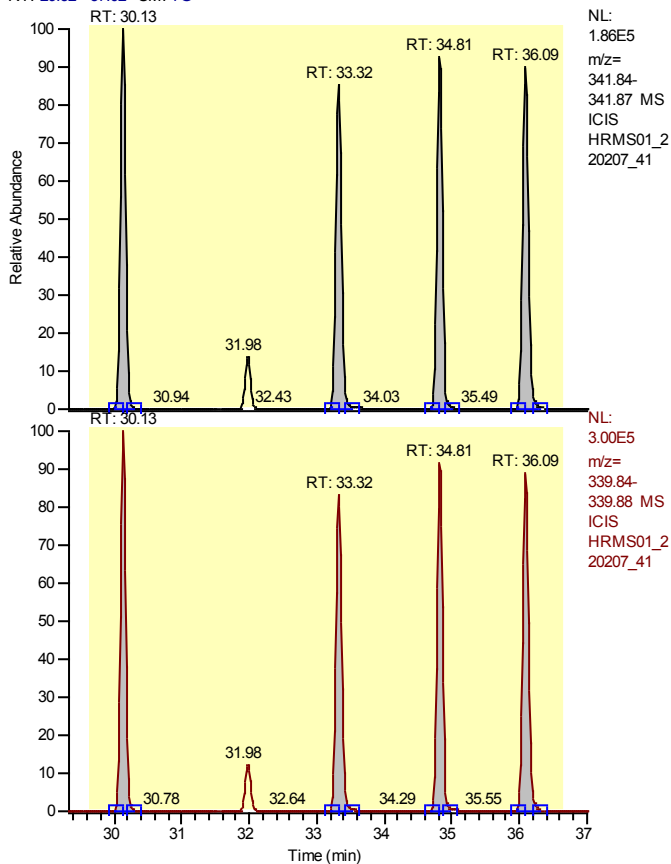
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

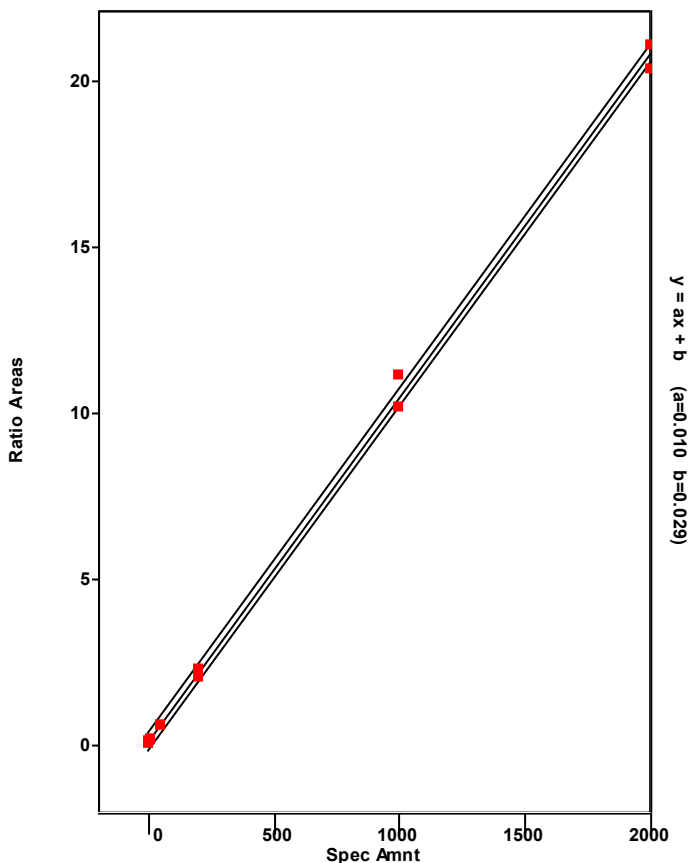
RT: 29.32 - 37.02 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	3965138
RM1 Area	6238564
RM1 Ratio (A)	1.5734
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	212.07
Percent Recovery (A)	424
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran

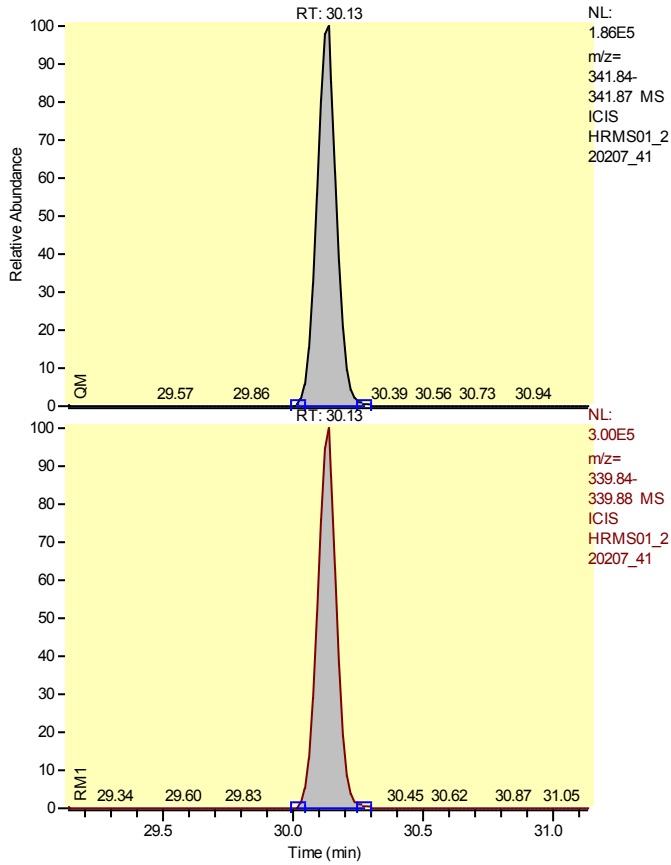
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

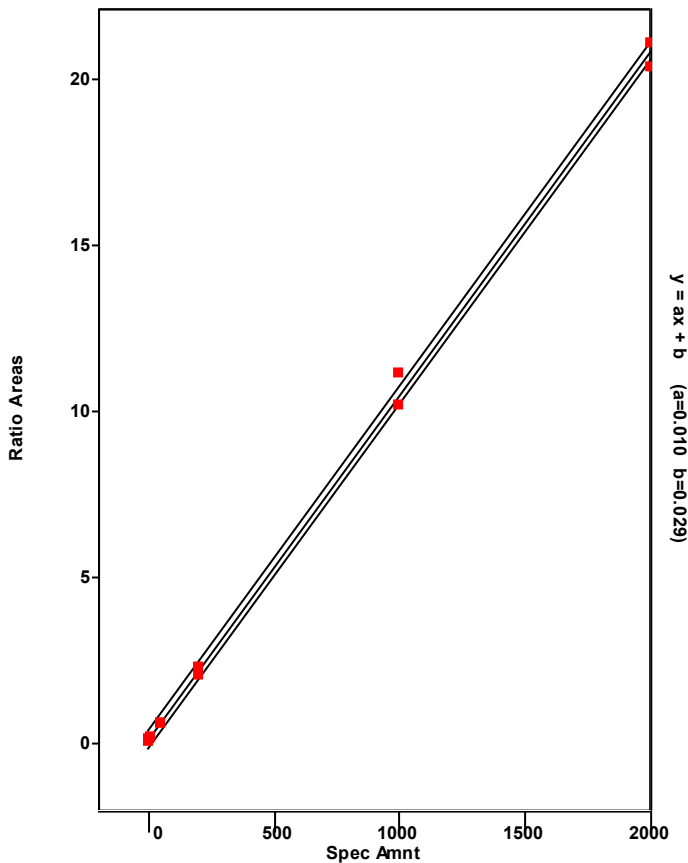
RT: 29.13 - 31.13 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	1051335
RM1 Area	1643953
RM1 Ratio (A)	1.5637
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	56.02
Percent Recovery (A)	112
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

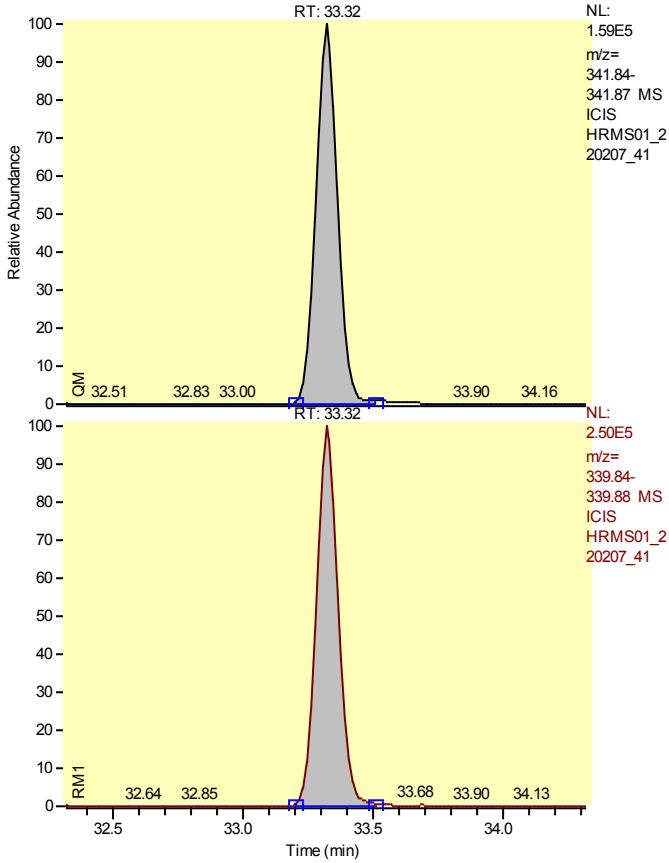
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

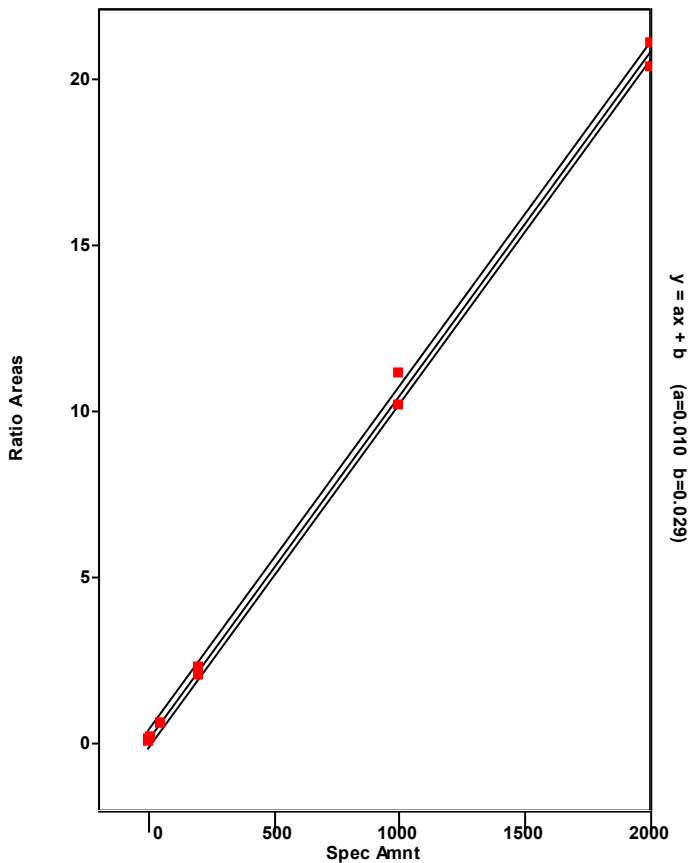
RT: 32.32- 34.32 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	932575
RM1 Area	1468484
RM1 Ratio (A)	1.5747
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	49.90
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__2

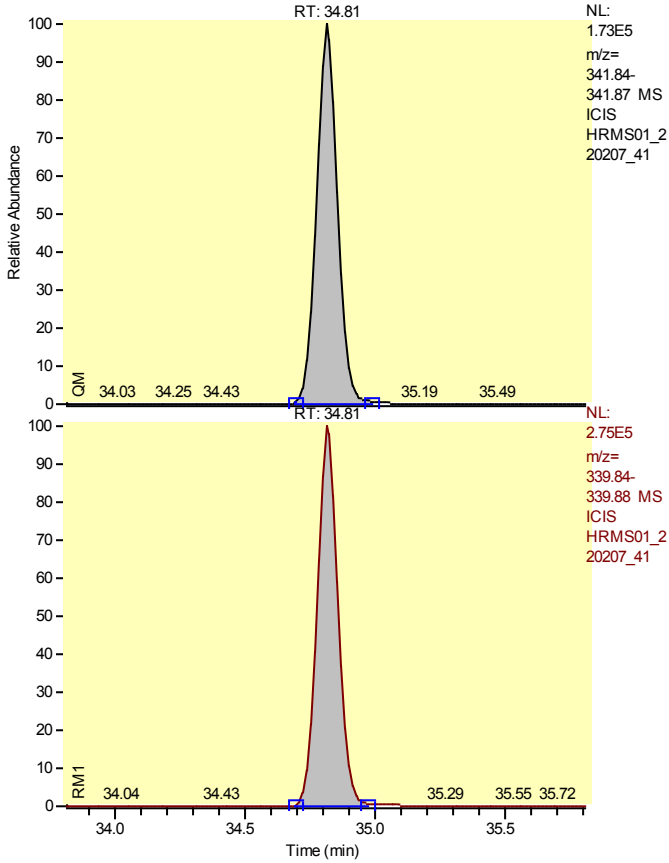
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

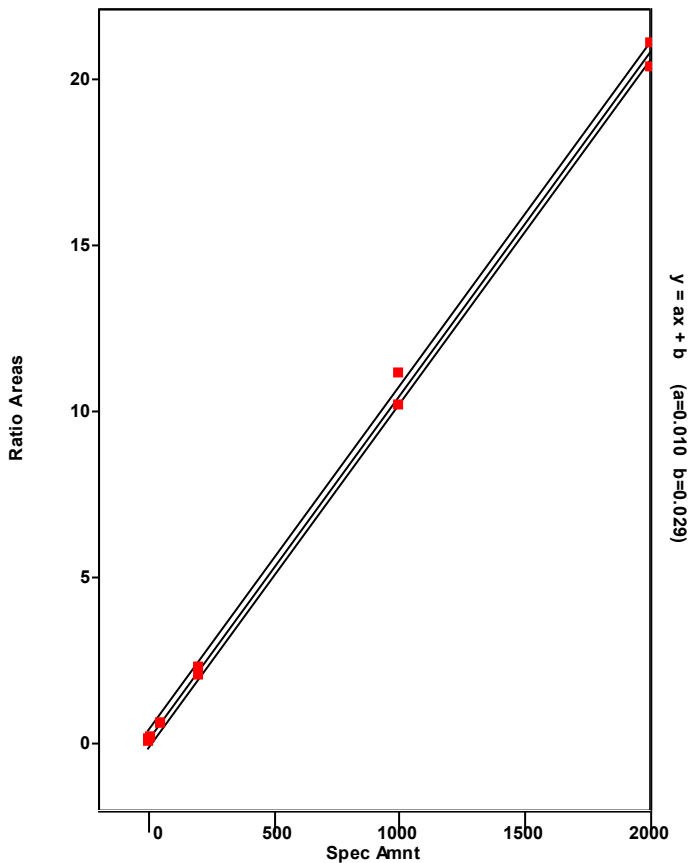
RT: 33.81 - 35.81 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	982445
RM1 Area	1548259
RM1 Ratio (A)	1.5759
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	52.60
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__3

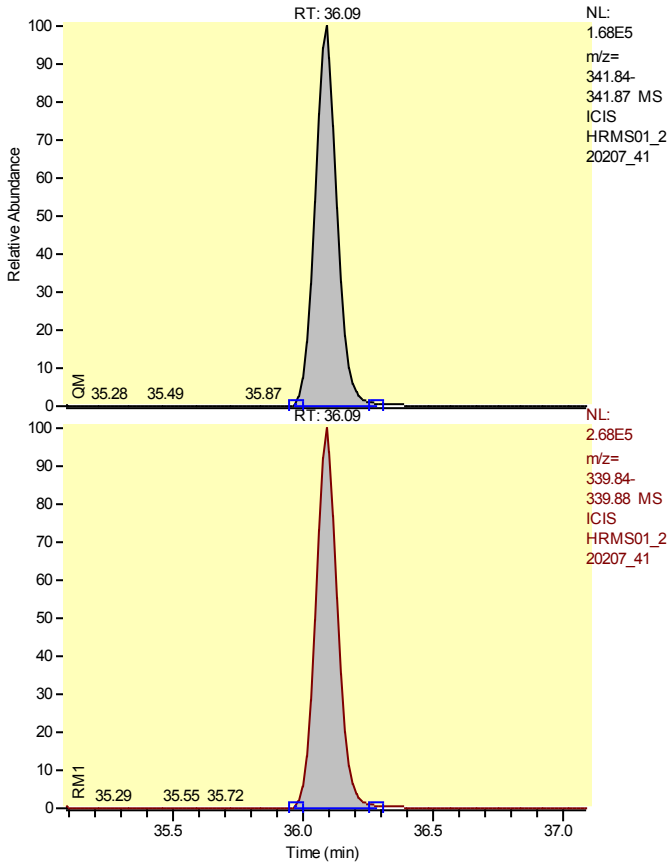
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

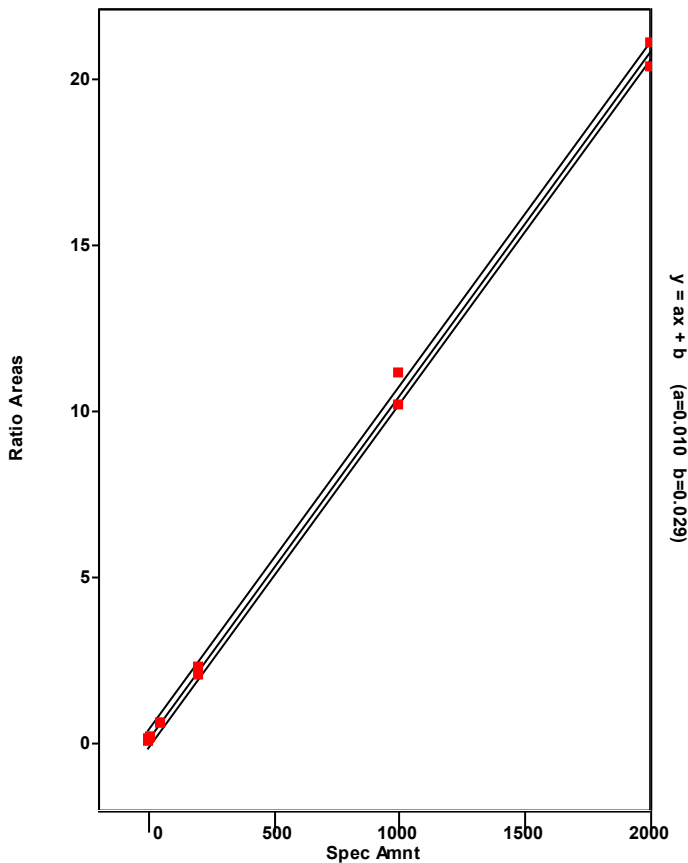
RT: 35.09 - 37.09 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	998784
RM1 Area	1577868
RM1 Ratio (A)	1.5798
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	53.55
Percent Recovery (A)	107
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__4

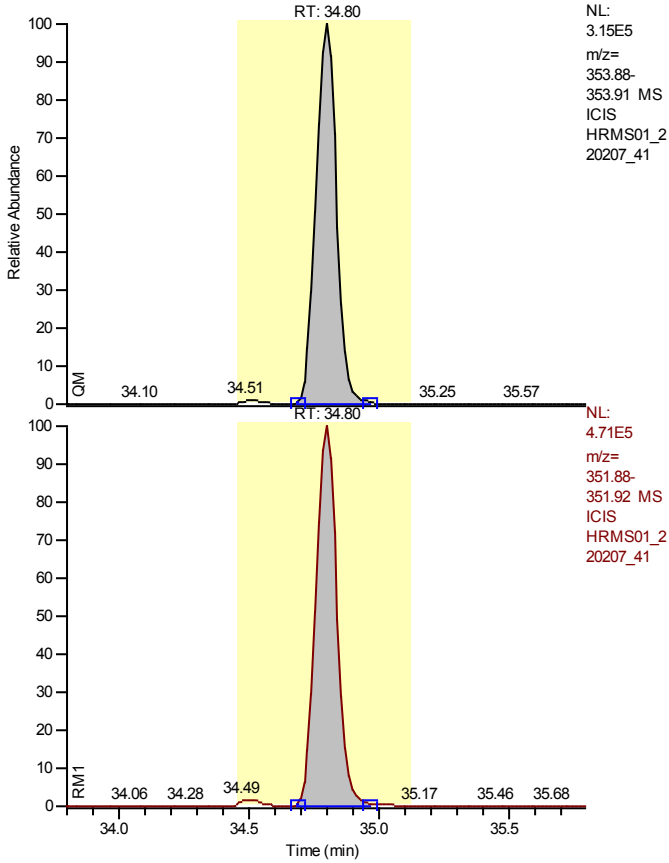
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

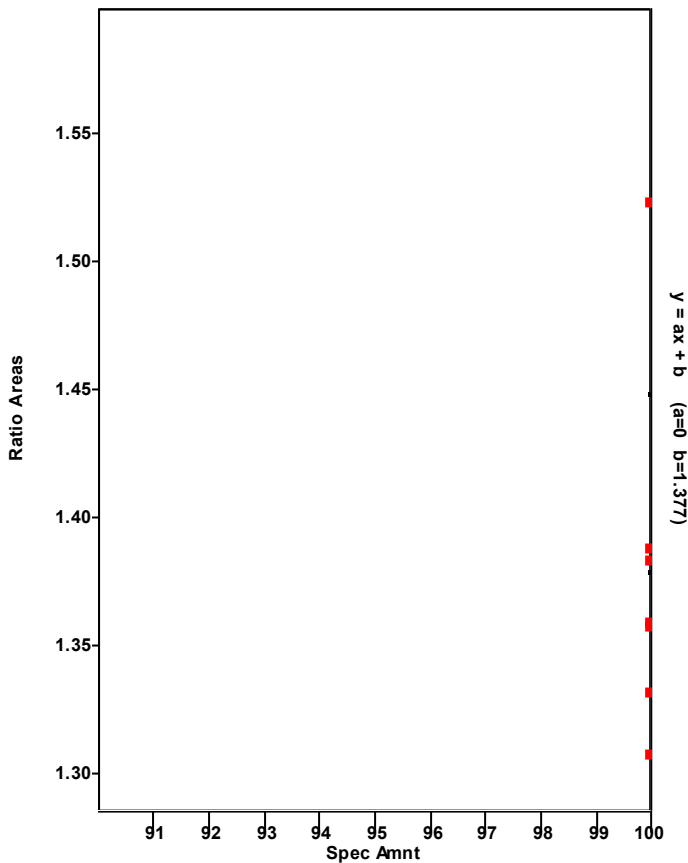
RT: 33.79 - 35.79 SM: 7G



Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1741308
RM1 Area	2661499
RM1 Ratio (A)	1.5284
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	89.53
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

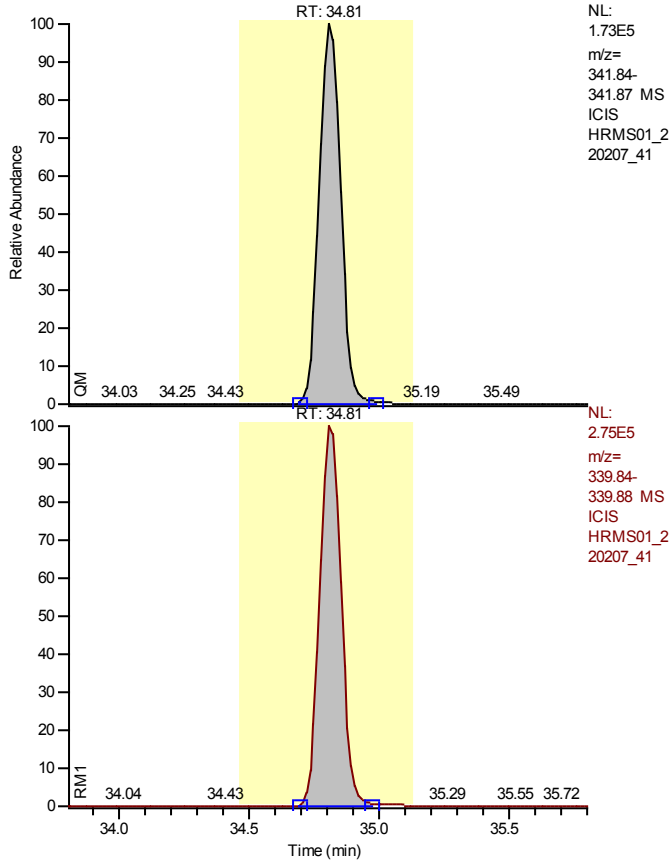
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

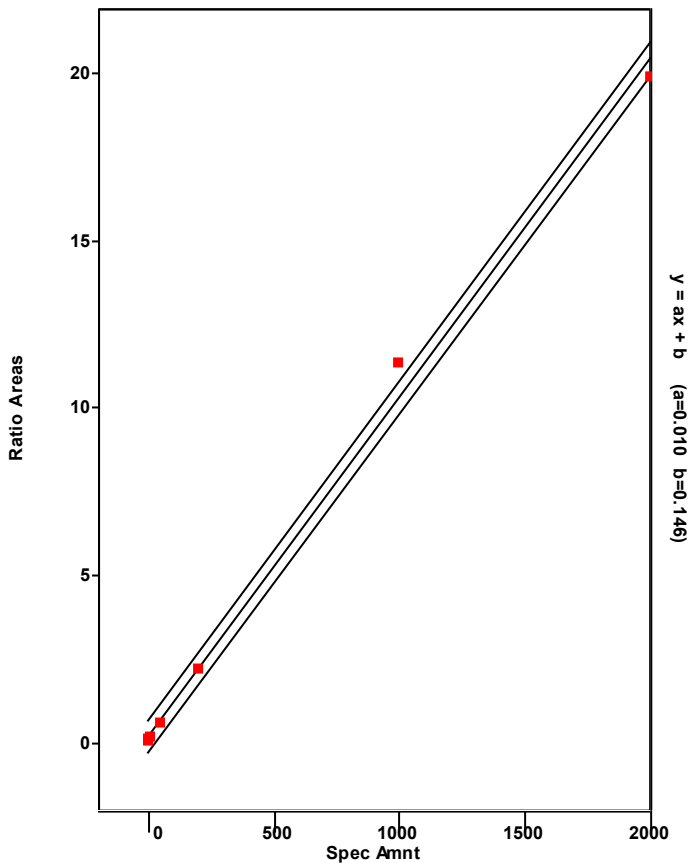
RT: 33.81 - 35.81 SM: 7G



Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	982445
RM1 Area	1548259
RM1 Ratio (A)	1.5759
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	51.43
Percent Recovery (A)	103
TEQ (A)	15.4284
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

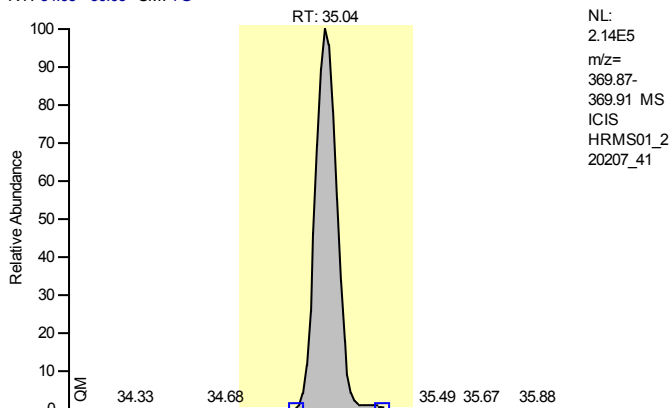
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



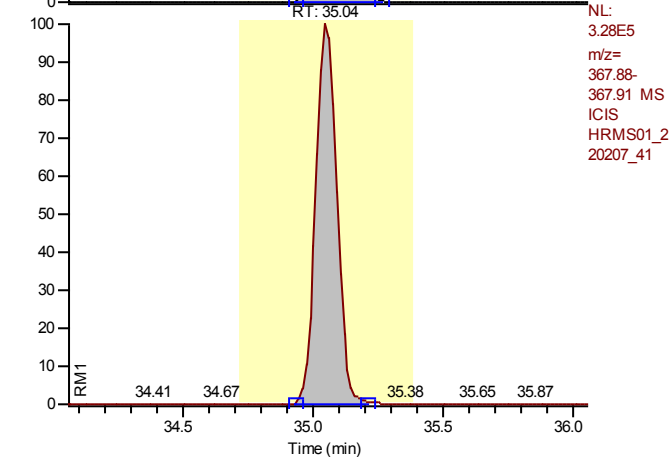
Chromatogram

Entry Parameters

RT: 34.05 - 36.05 SM: 7G

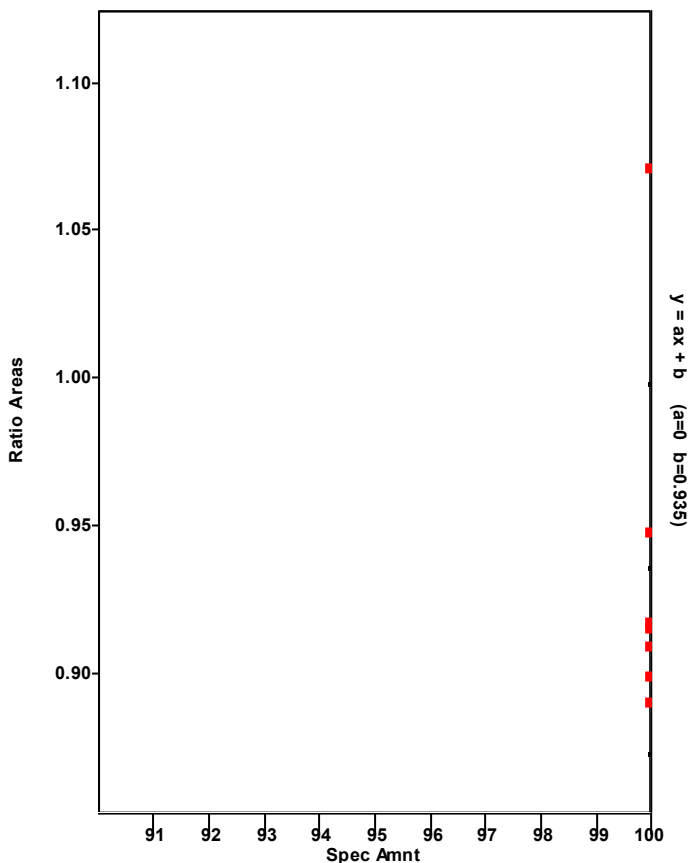


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	1219042
RM1 Area	1824755
RM1 Ratio (A)	1.4969
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	91.22
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

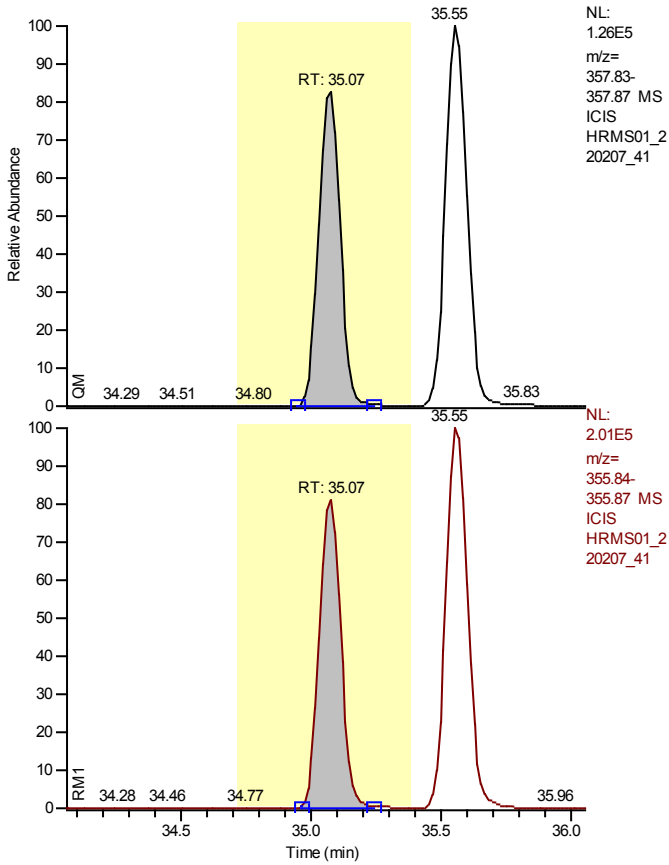
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

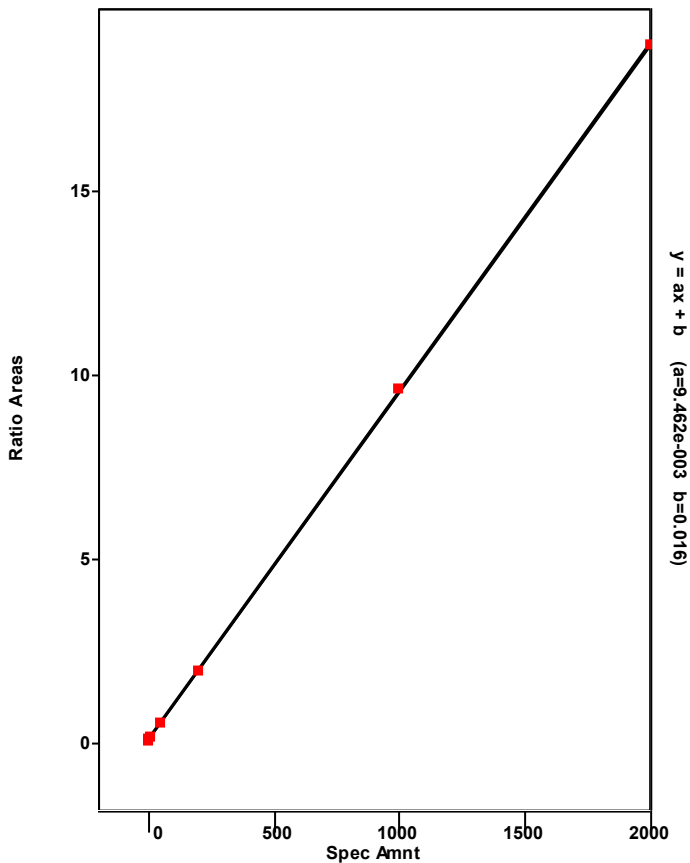
RT: 34.05 - 36.05 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	591965
RM1 Area	932636
RM1 Ratio (A)	1.5755
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.23
Percent Recovery (A)	100
TEQ (A)	50.2268
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

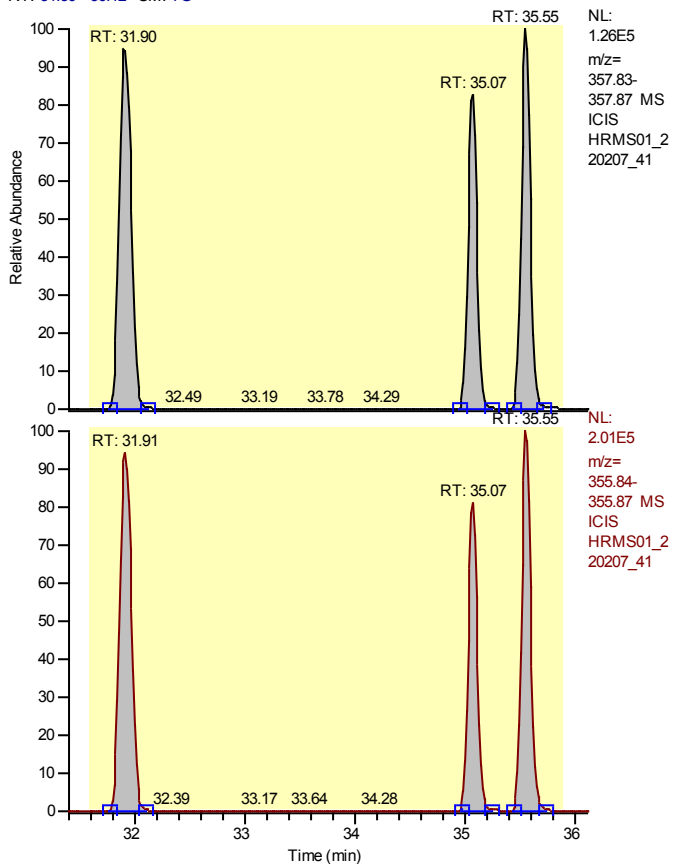
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

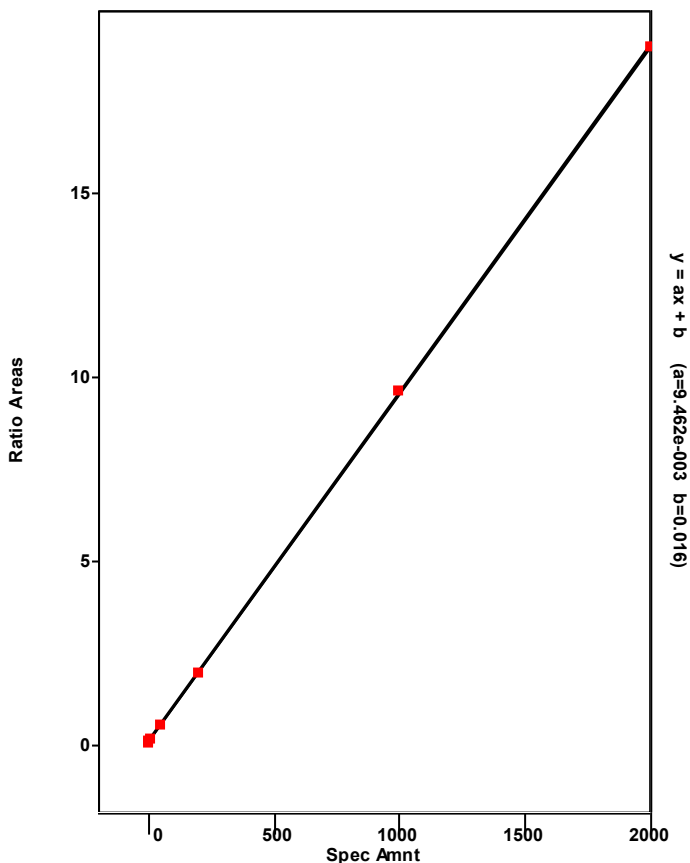
RT: 31.39 - 36.12 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	2225949
RM1 Area	3513795
RM1 Ratio (A)	1.5786
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	189.09
Percent Recovery (A)	378
TEQ (A)	0.0000
Label2	

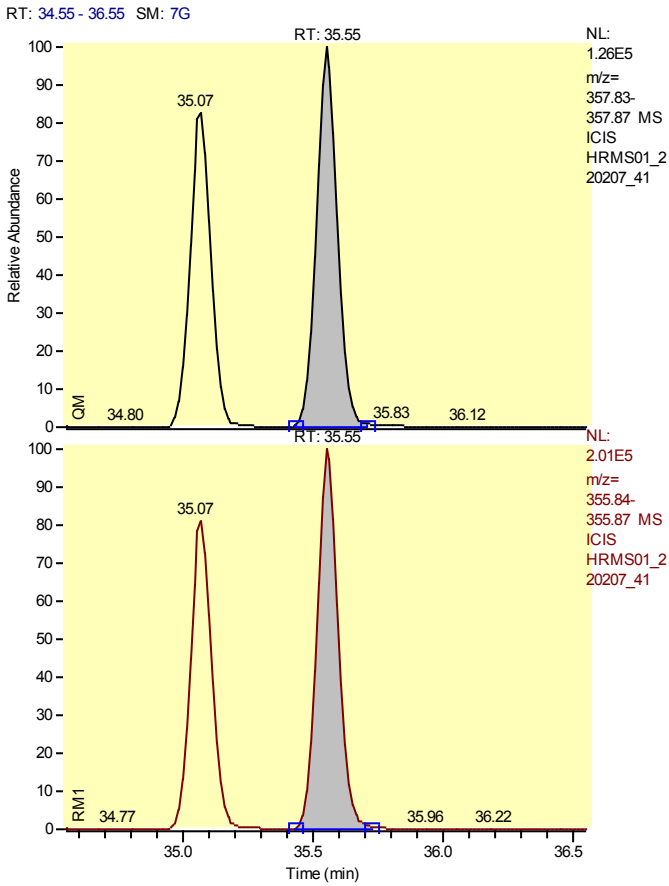
Calibration Points of Total Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

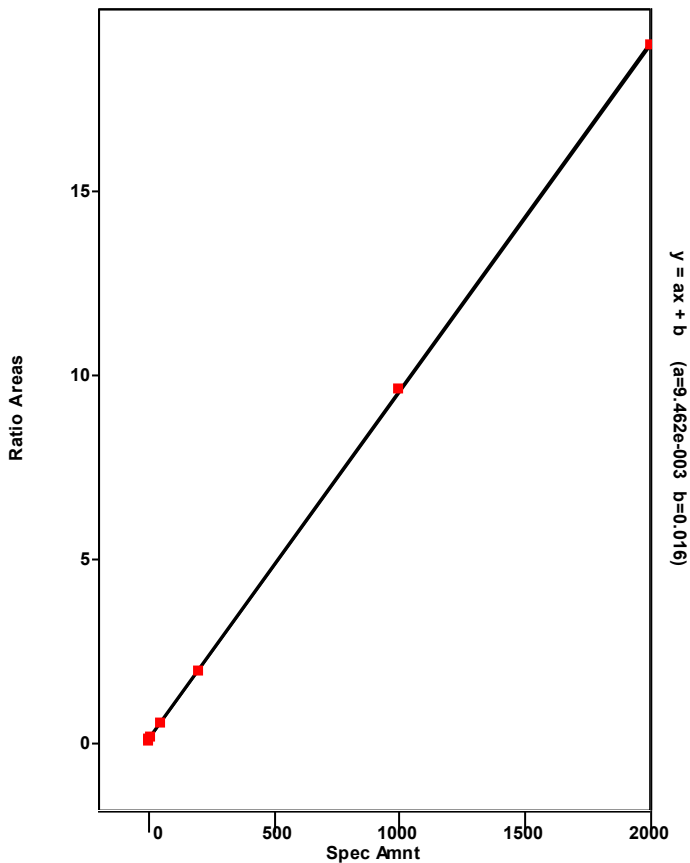
Entry Parameters



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	714093
RM1 Area	1148693
RM1 Ratio (A)	1.6086
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	61.37
Percent Recovery (A)	123
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

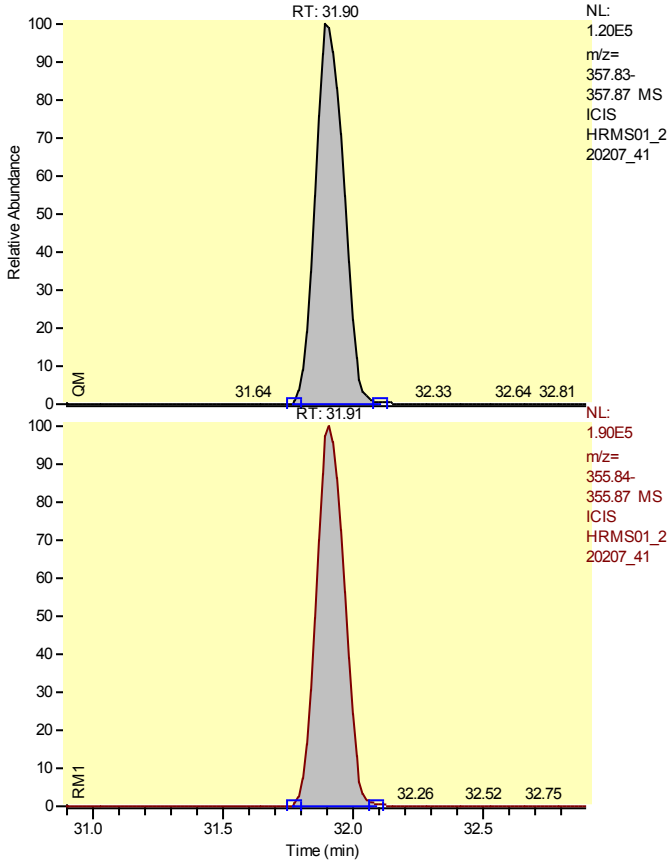
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

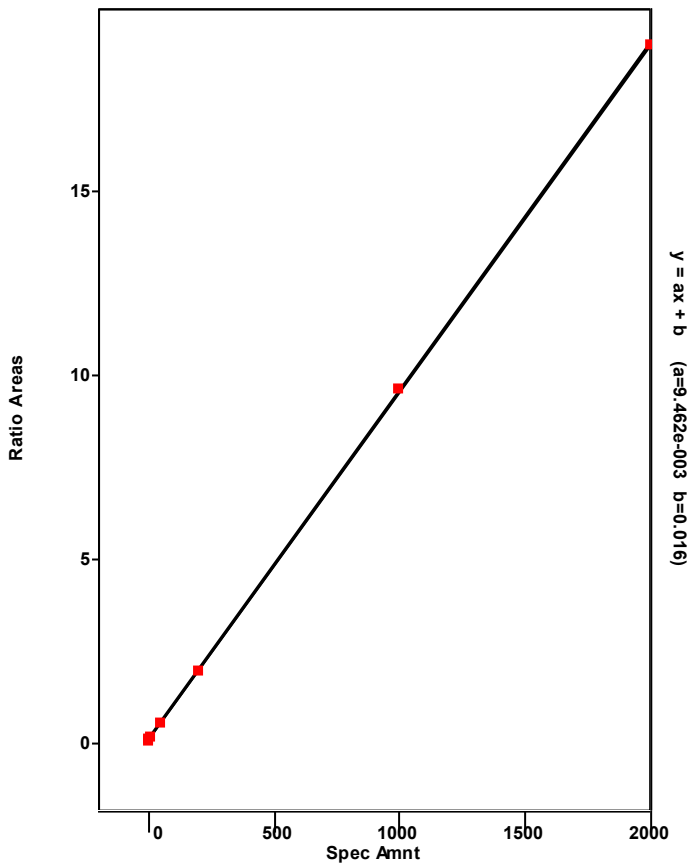
RT: 30.90 - 32.90 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	919891
RM1 Area	1432467
RM1 Ratio (A)	1.5572
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	77.50
Percent Recovery (A)	155
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

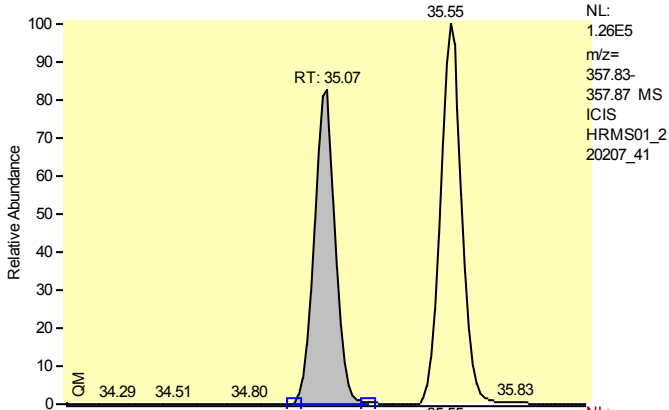
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



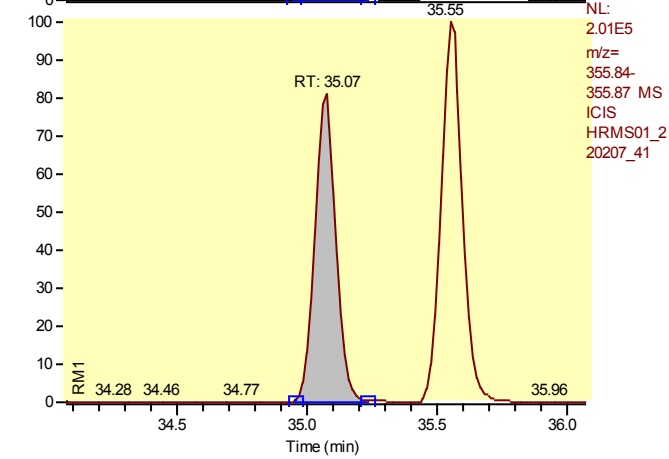
Chromatogram

Entry Parameters

RT: 34.07 - 36.07 SM: 7G

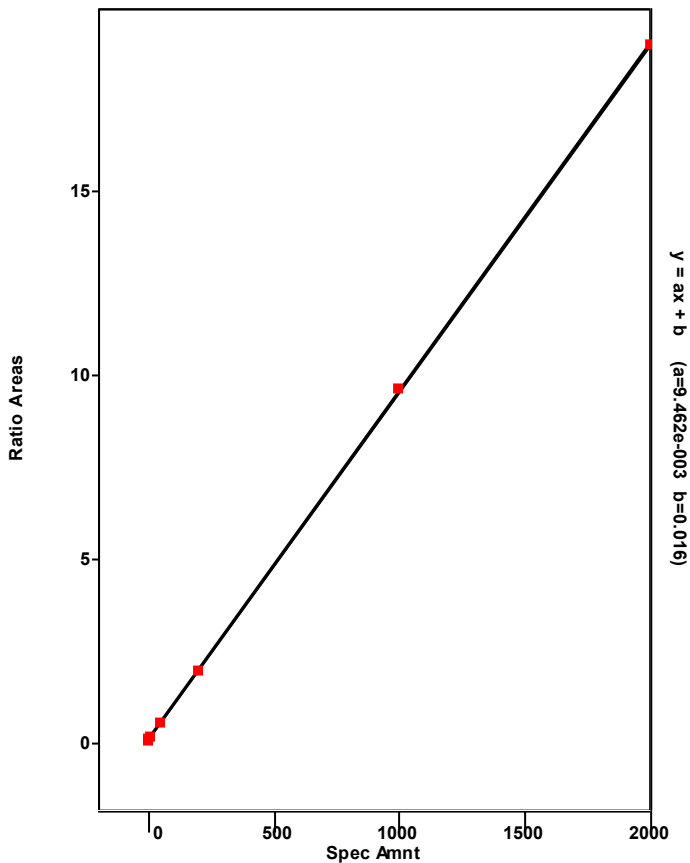


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	591965
RM1 Area	932636
RM1 Ratio (A)	1.5755
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.23
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

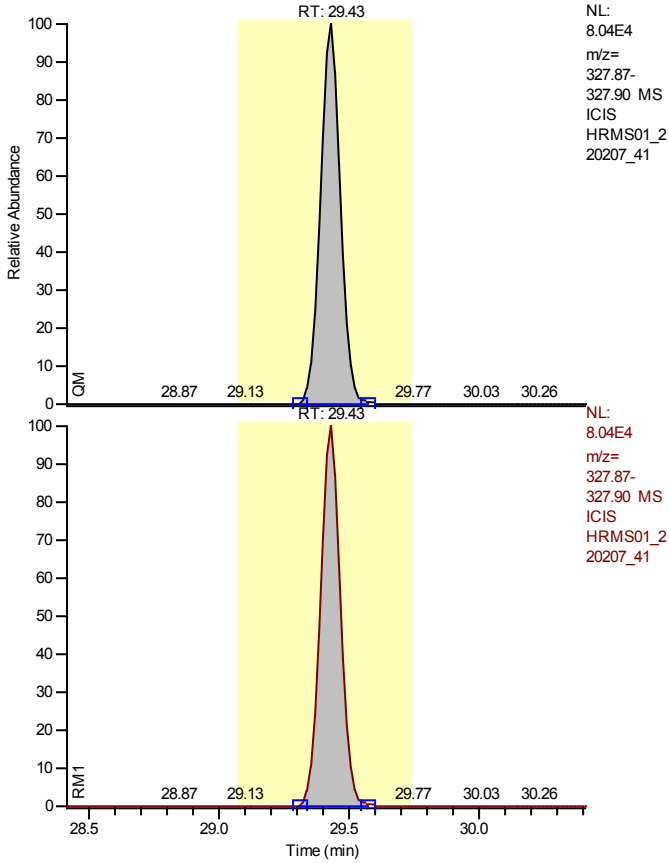
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.41 - 30.41 SM: 7G



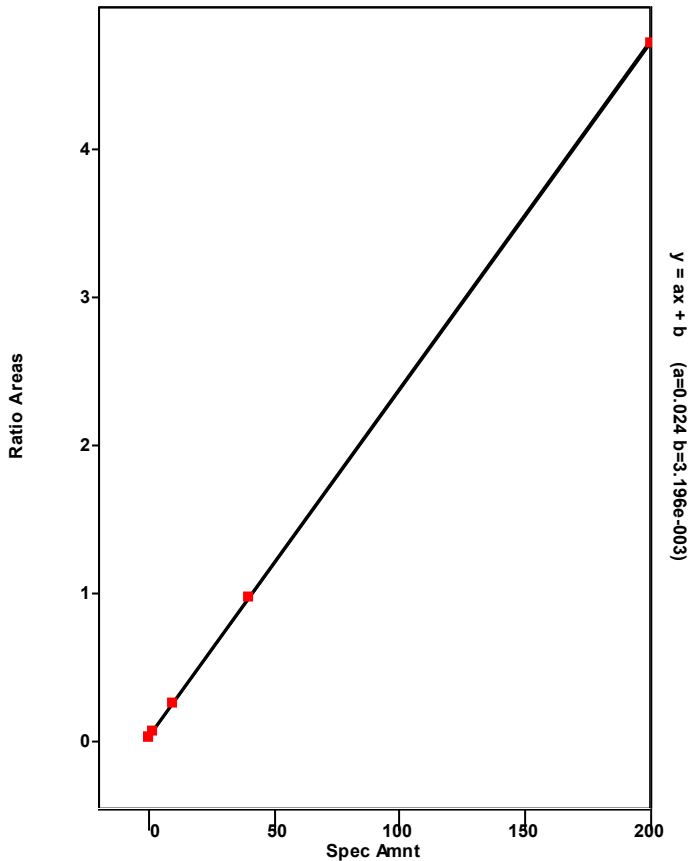
NL:
8.04E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20207_41

NL:
8.04E4
m/z=
327.87-
327.90 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	425849
RM1 Area	425849
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.90
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

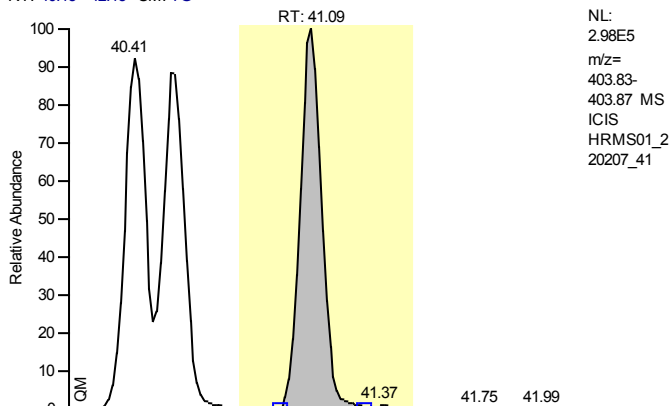
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

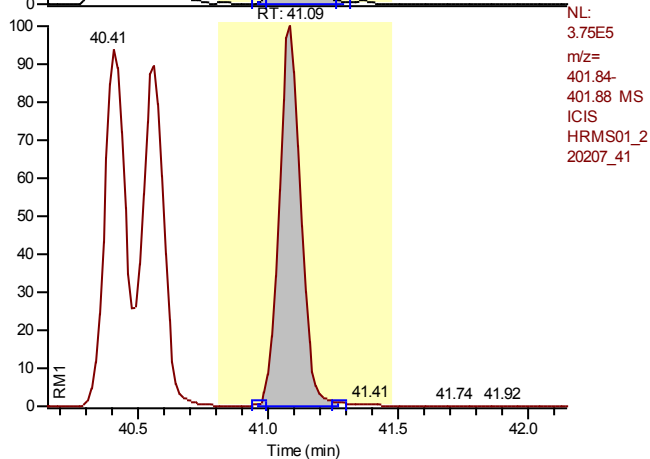
Entry Parameters

RT: 40.15-42.15 SM: 7G



NL:
2.98E5
m/z=
403.83-
403.87 MS
ICIS
HRMS01_2
20207_41

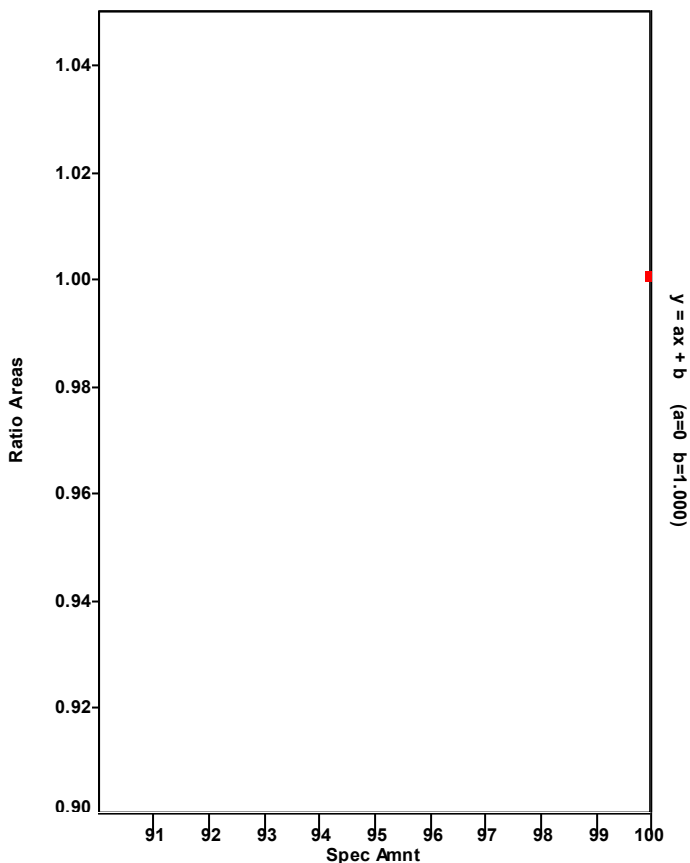
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1713086
RM1 Area	2149221
RM1 Ratio (A)	1.2546
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
3.75E5
m/z=
401.84-
401.88 MS
ICIS
HRMS01_2
20207_41

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

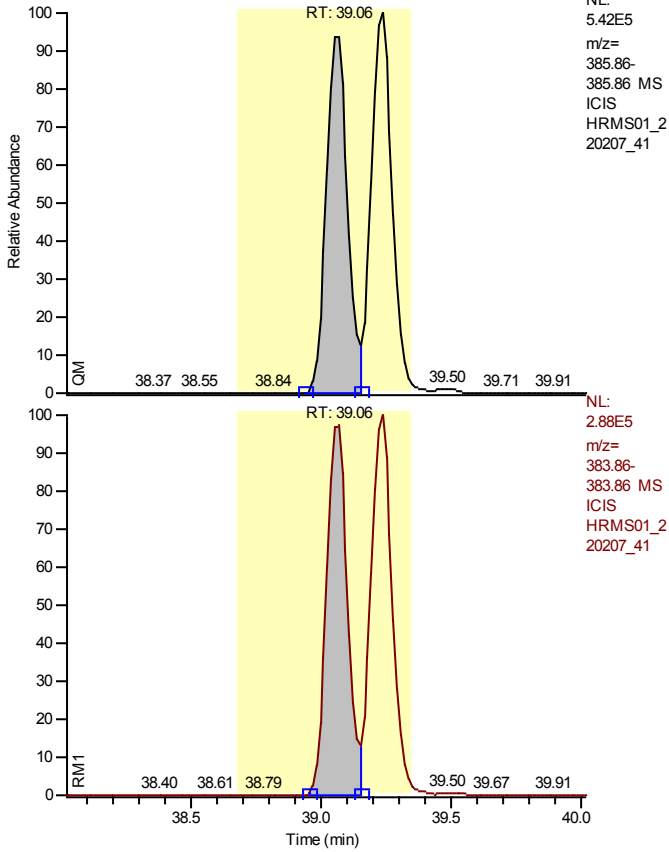
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.02 - 40.02 SM: 7G



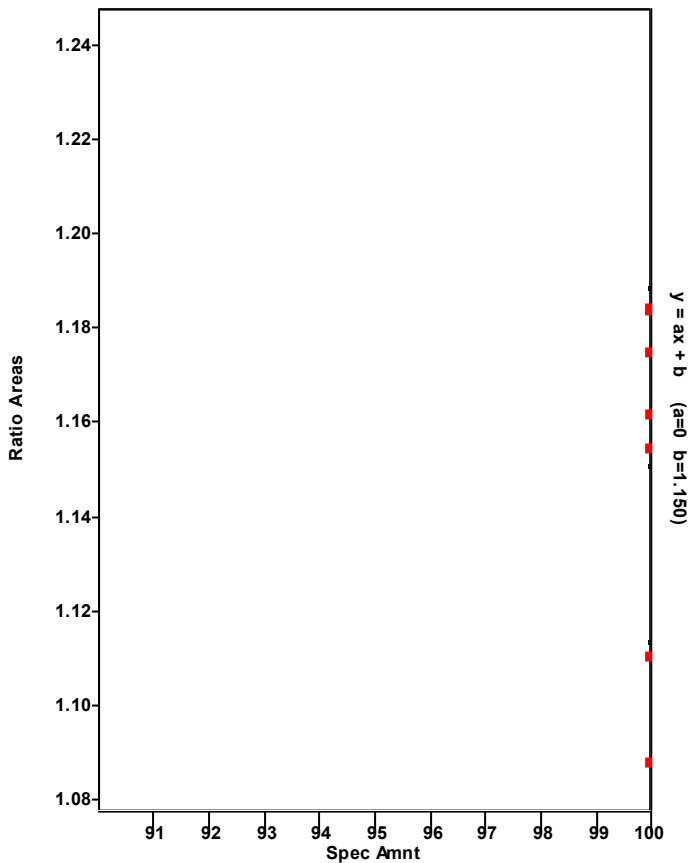
NL:
5.42E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	2902966
RM1 Area	1573530
RM1 Ratio (A)	0.5420
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	100.75
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

NL:
2.88E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20207_41

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

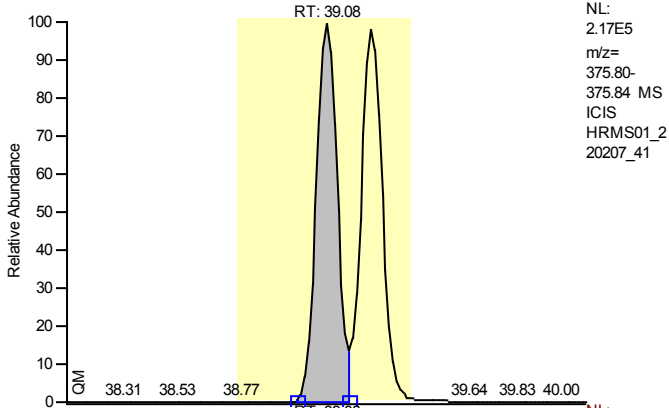
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



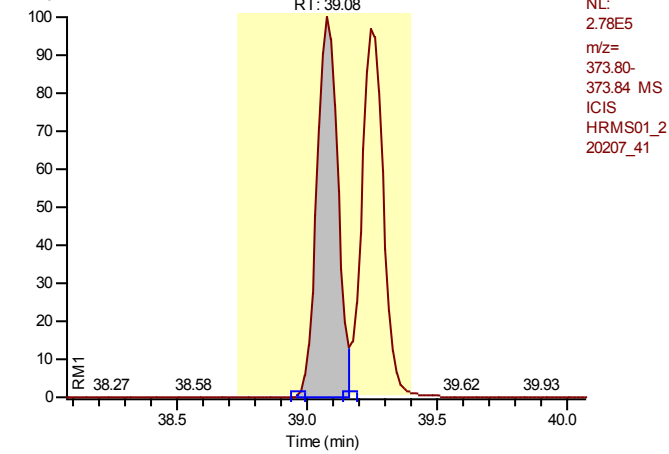
Chromatogram

Entry Parameters

RT: 38.07 - 40.07 SM: 7G

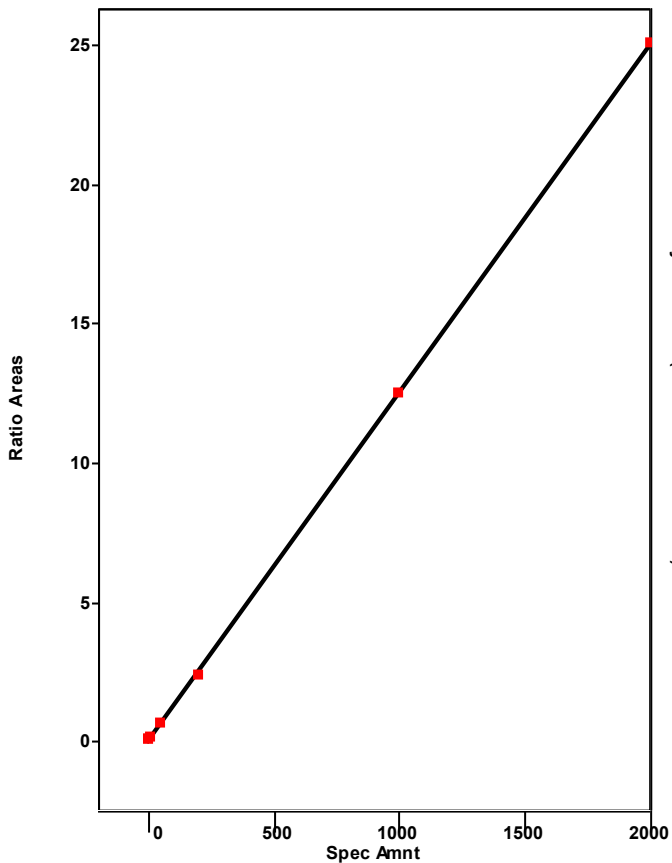


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	1195575
RM1 Area	1515461
RM1 Ratio (A)	1.2676
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.57
Percent Recovery (A)	97
TEQ (A)	4.8573
Label2	



Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

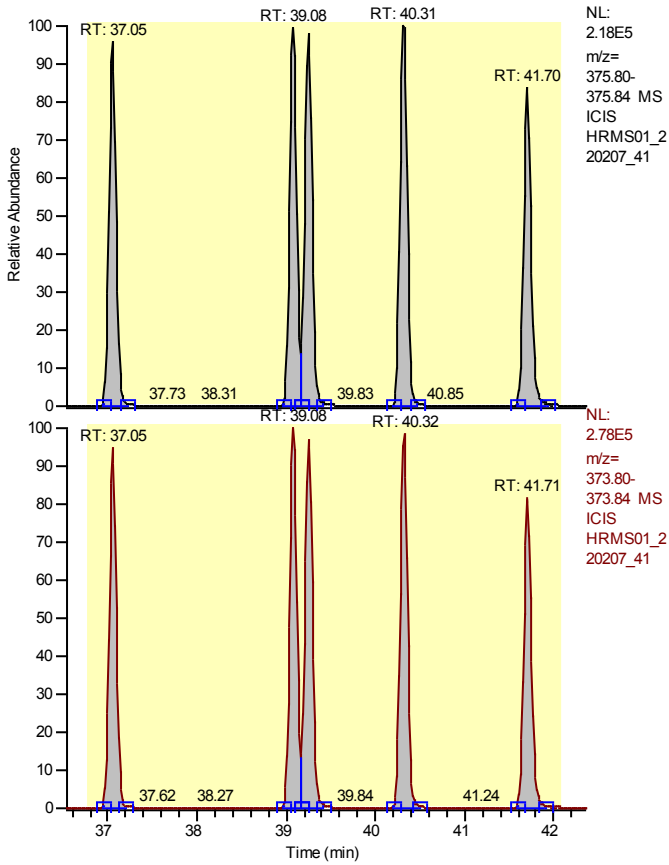
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

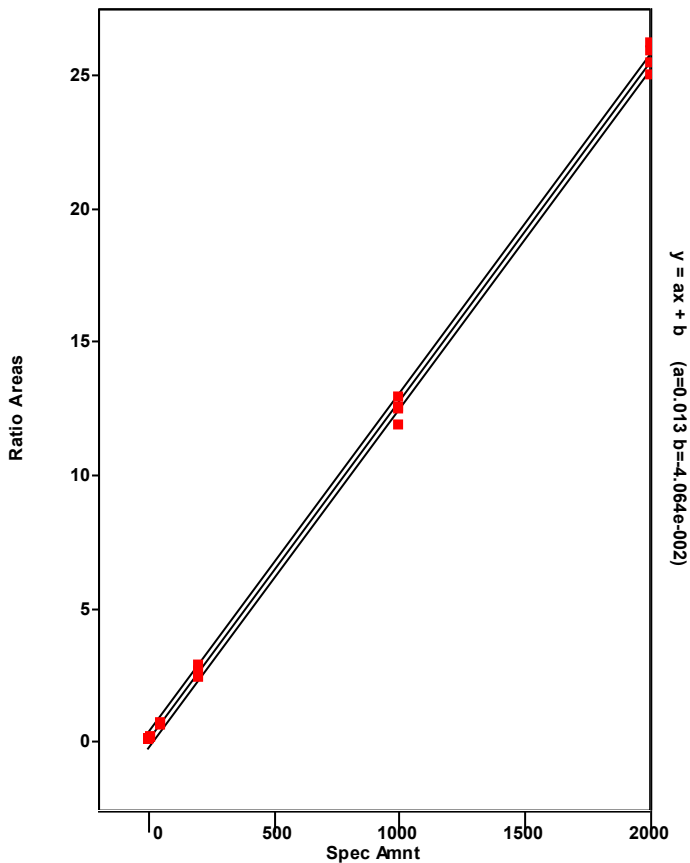
RT: 36.53 - 42.36 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	5910473
RM1 Area	7424217
RM1 Ratio (A)	1.2561
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	234.77
Percent Recovery (A)	470
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran

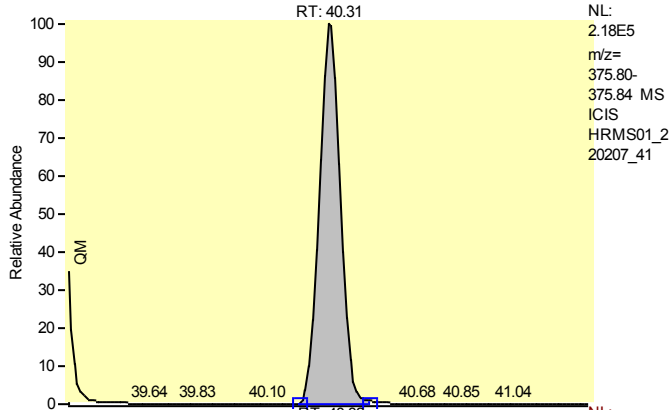
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



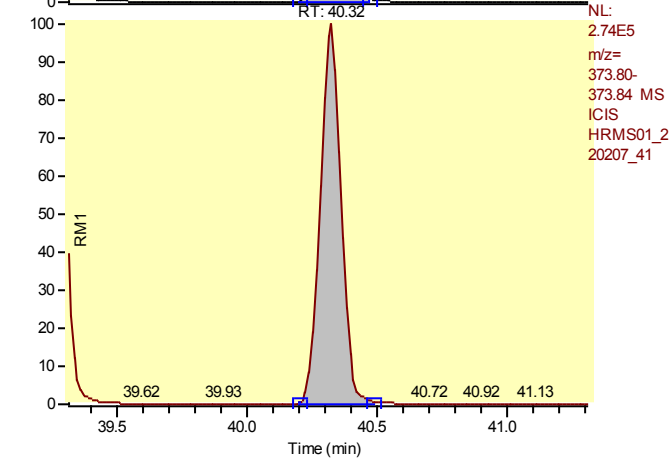
Chromatogram

Entry Parameters

RT: 39.31 - 41.31 SM: 7G

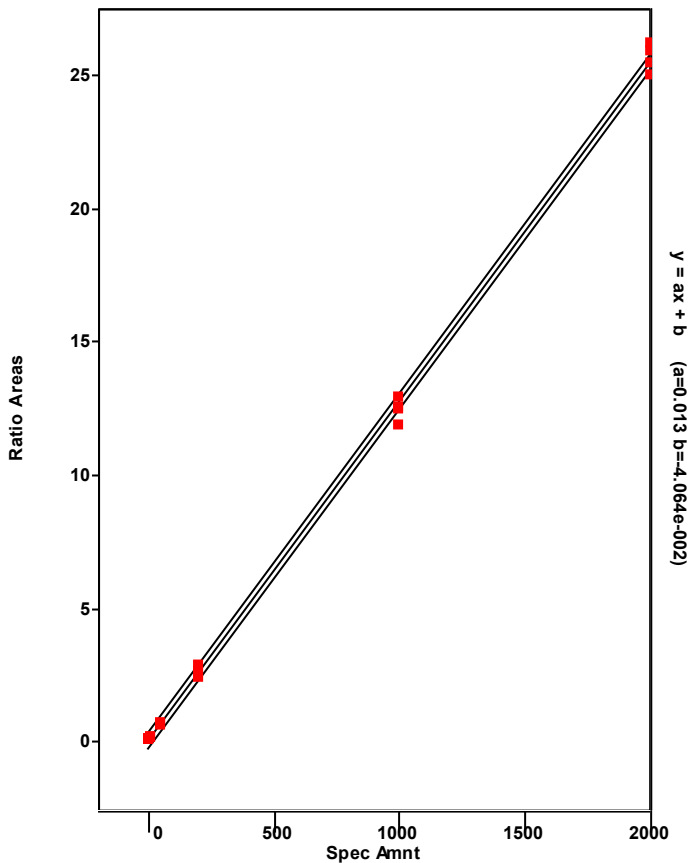


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1231844
RM1 Area	1521803
RM1 Ratio (A)	1.2354
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.48
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__1

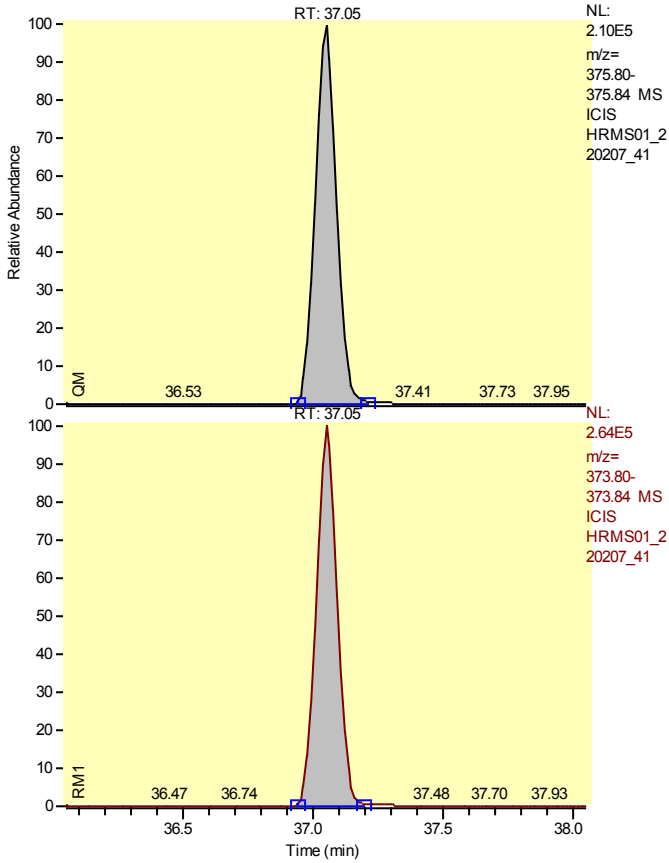
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

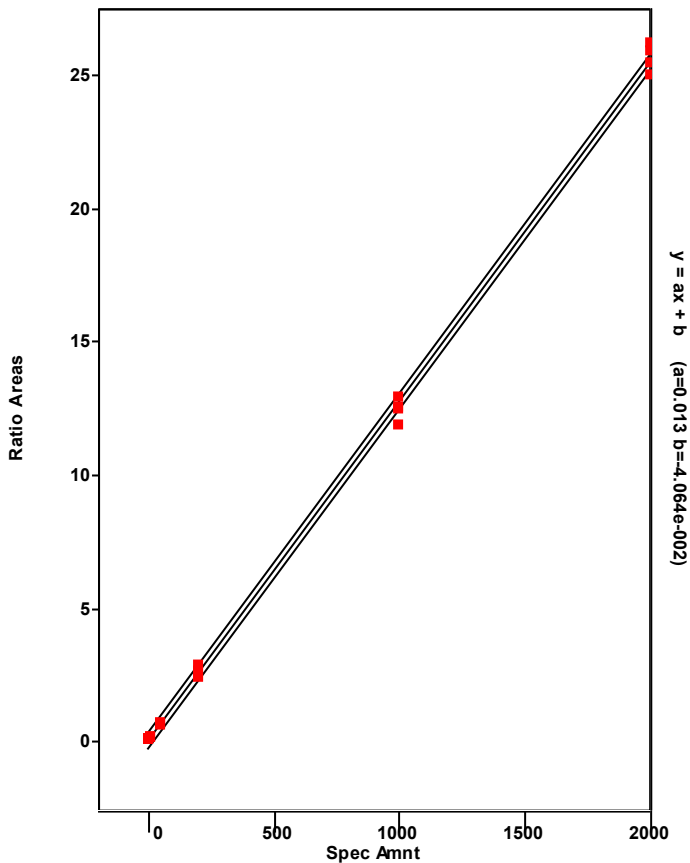
RT: 36.05 - 38.05 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1181651
RM1 Area	1476265
RM1 Ratio (A)	1.2493
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.80
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

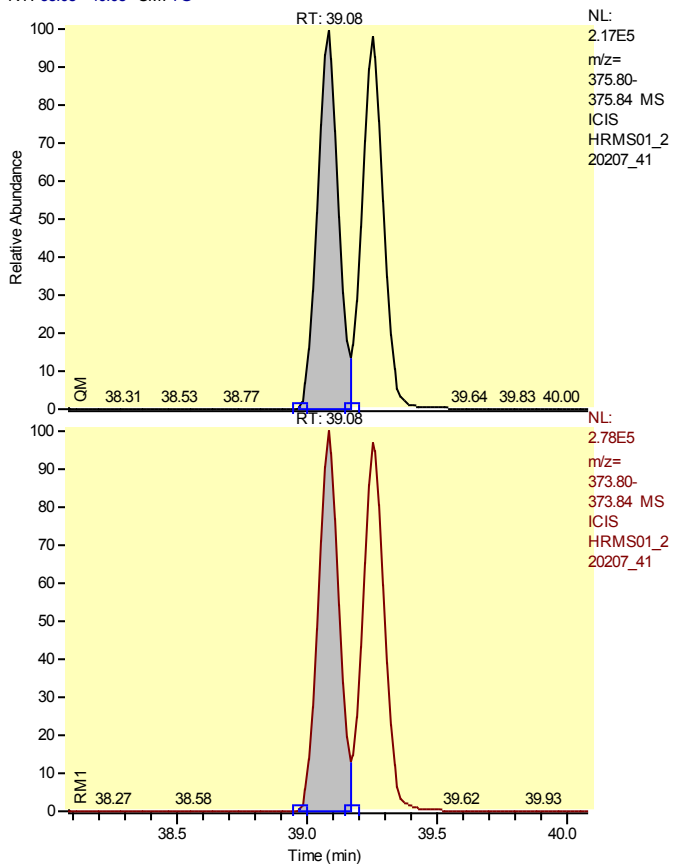
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

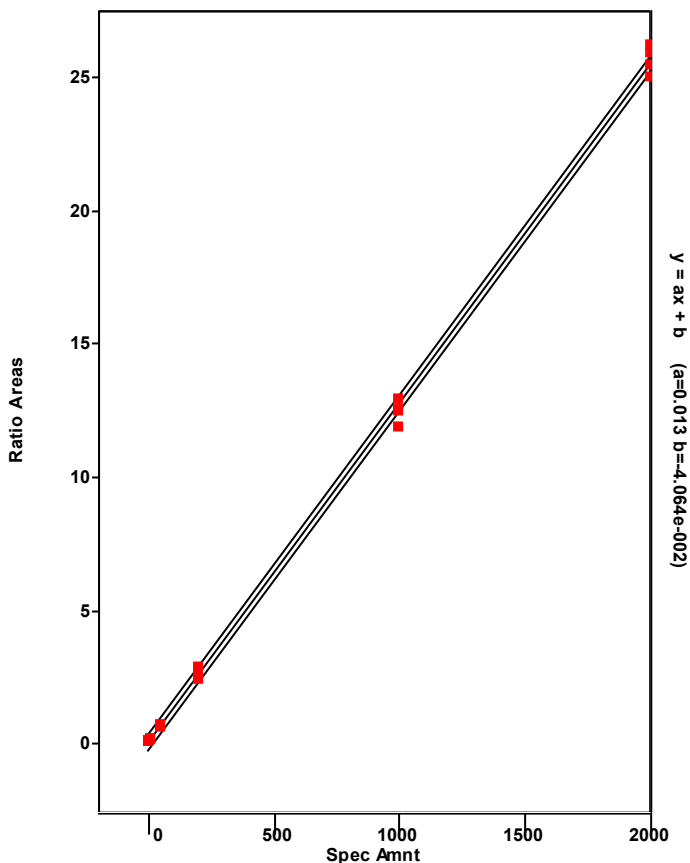
RT: 38.08 - 40.08 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1195575
RM1 Area	1515461
RM1 Ratio (A)	1.2676
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.73
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__3

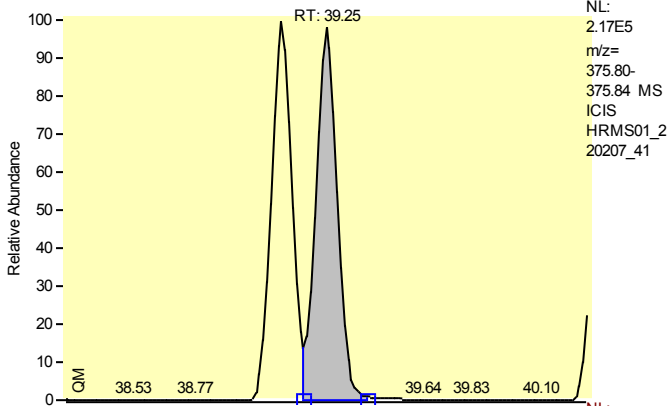
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



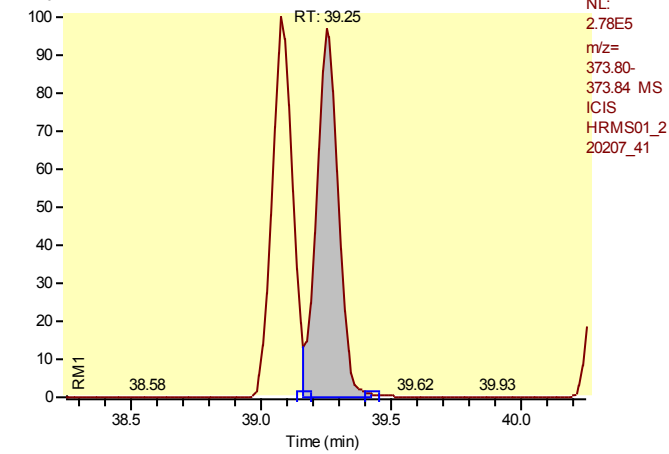
Chromatogram

Entry Parameters

RT: 38.25 - 40.25 SM: 7G

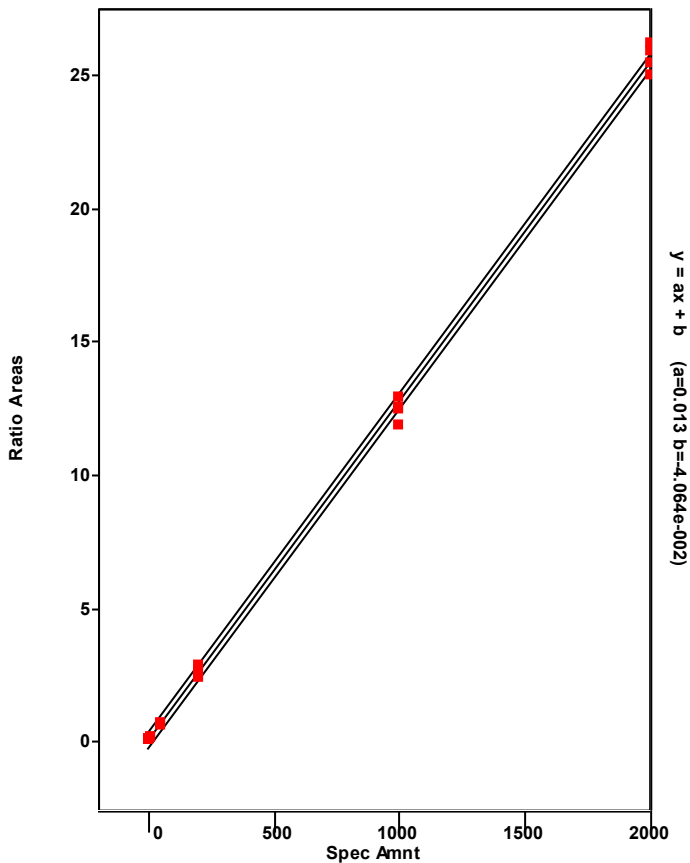


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1215914
RM1 Area	1553599
RM1 Ratio (A)	1.2777
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.76
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__4

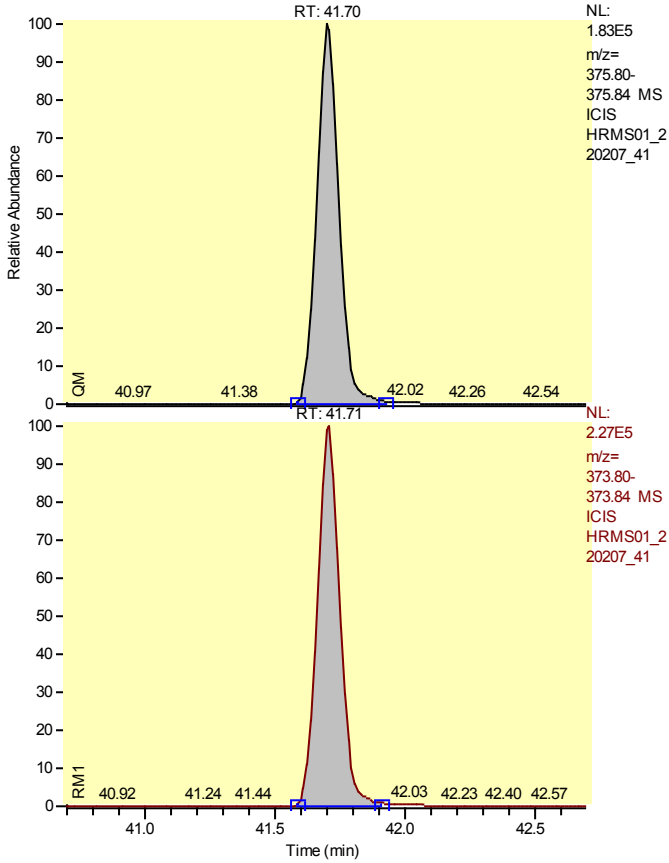
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

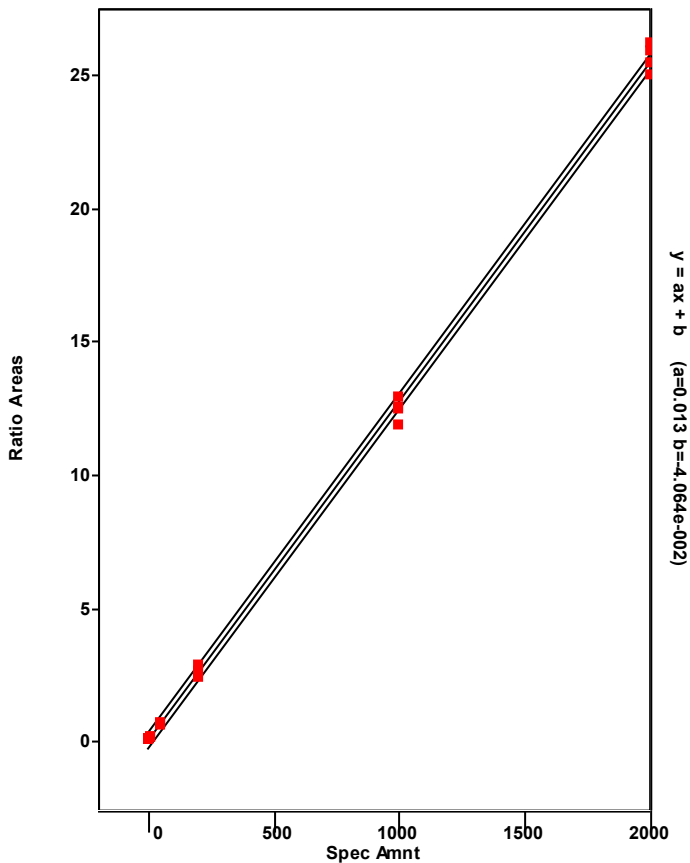
RT: 40.70 - 42.70 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	1085488
RM1 Area	1357089
RM1 Ratio (A)	1.2502
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	43.00
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__5

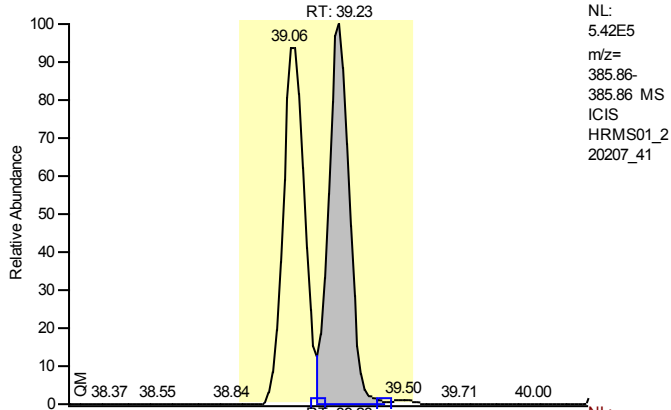
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

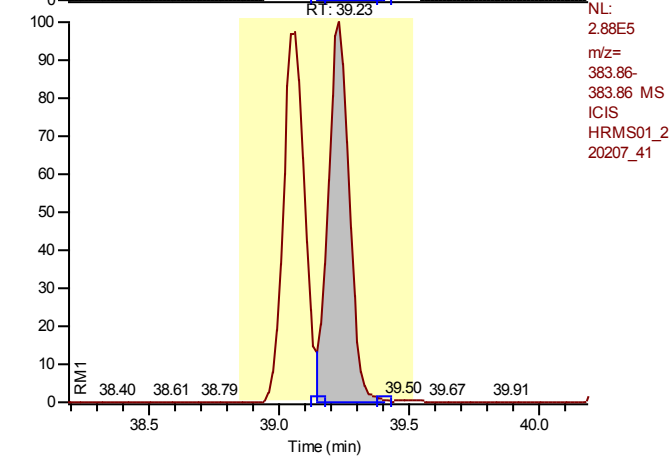
Entry Parameters

RT: 38.19 - 40.19 SM: 7G



NL:
 5.42E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_41

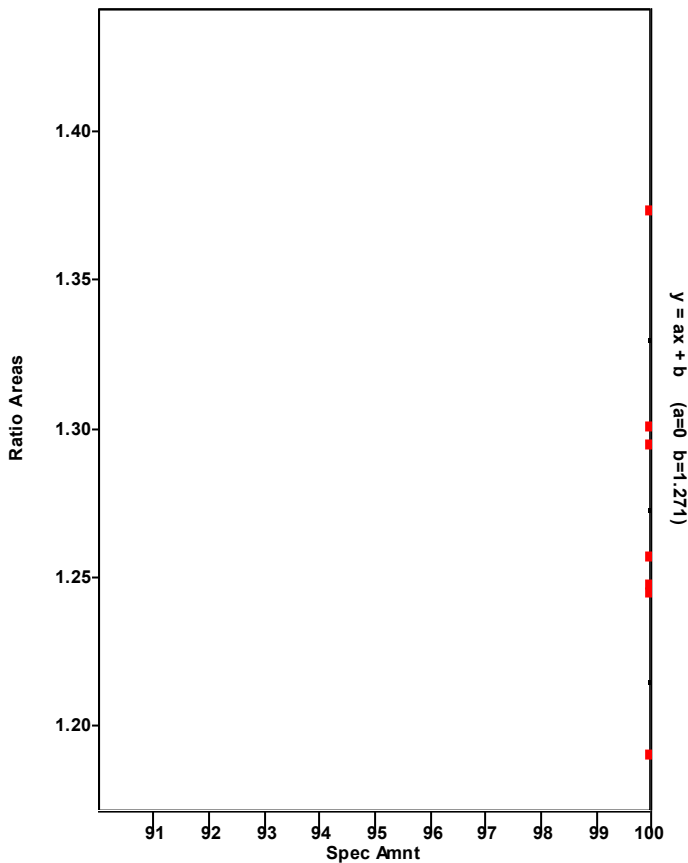
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	3029402
RM1 Area	1633603
RM1 Ratio (A)	0.5392
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	94.96
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	



NL:
 2.88E5
 m/z=
 383.86-
 383.86 MS
 ICIS
 HRMS01_2
 20207_41

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

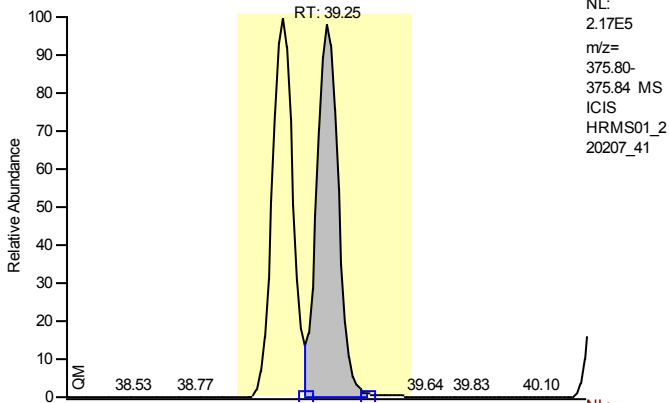
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

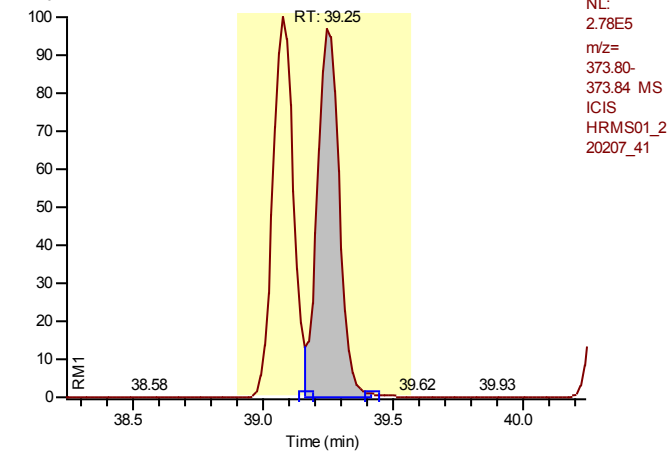
Entry Parameters

RT: 38.24 - 40.24 SM: 7G



NL:
2.17E5
m/z=
375.80-
375.84 MS
ICIS
HRMS01_2
20207_41

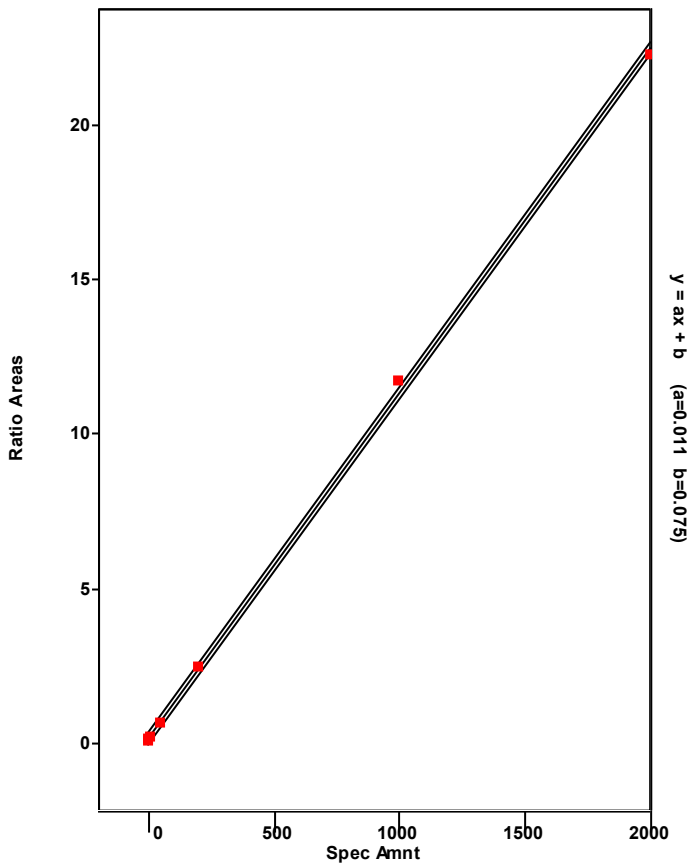
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	1215914
RM1 Area	1553599
RM1 Ratio (A)	1.2777
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.02
Percent Recovery (A)	100
TEQ (A)	5.0022
Label2	



NL:
2.78E5
m/z=
373.80-
373.84 MS
ICIS
HRMS01_2
20207_41

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

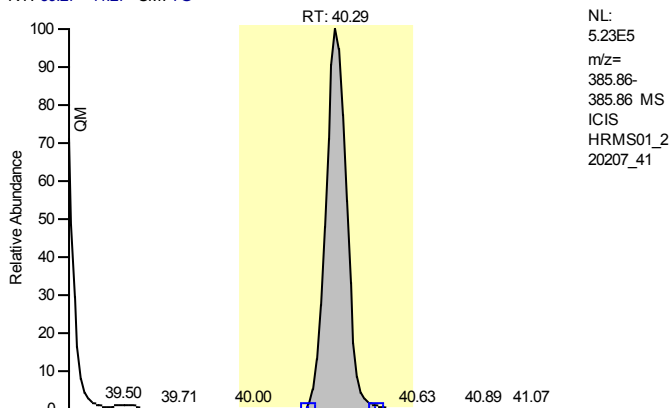
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

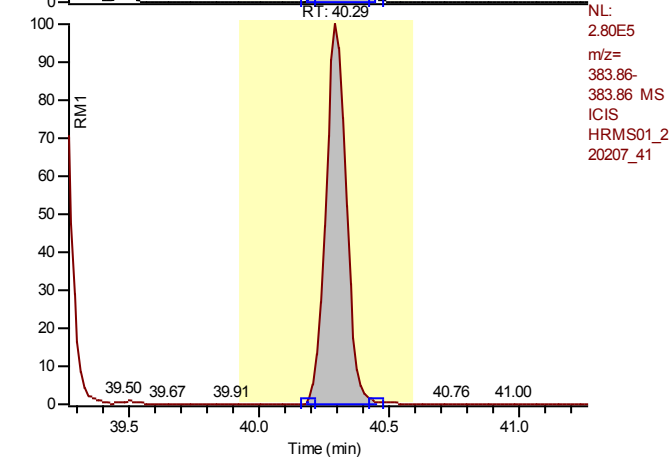
Entry Parameters

RT: 39.27 - 41.27 SM: 7G



NL:
5.23E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_41

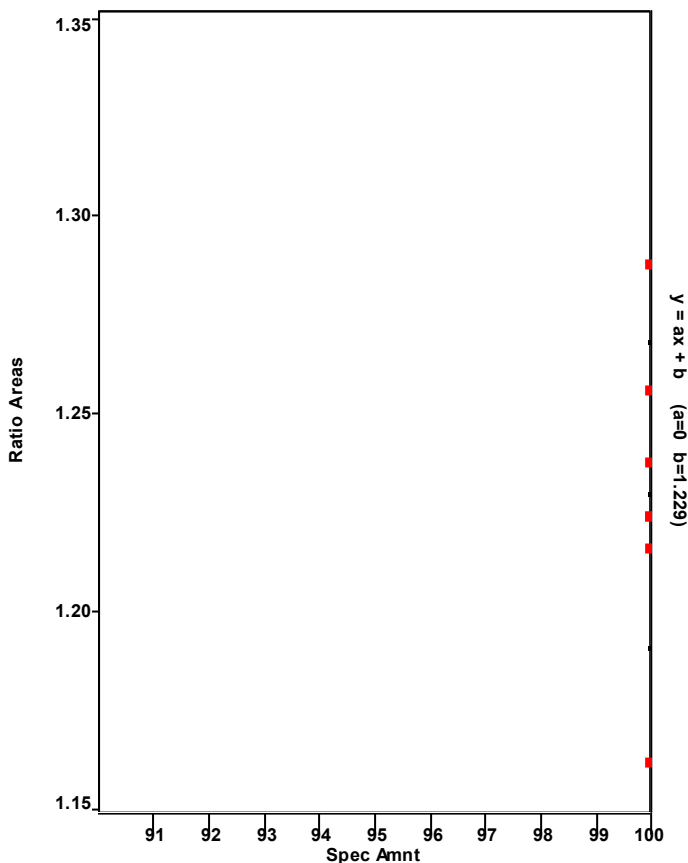
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2913498
RM1 Area	1539540
RM1 Ratio (A)	0.5284
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	93.82
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	



NL:
2.80E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20207_41

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

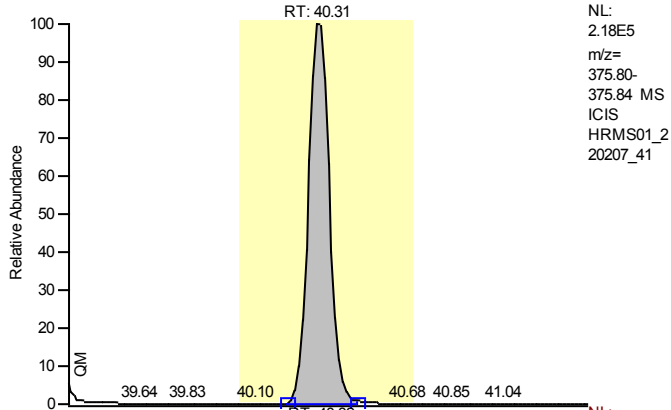
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



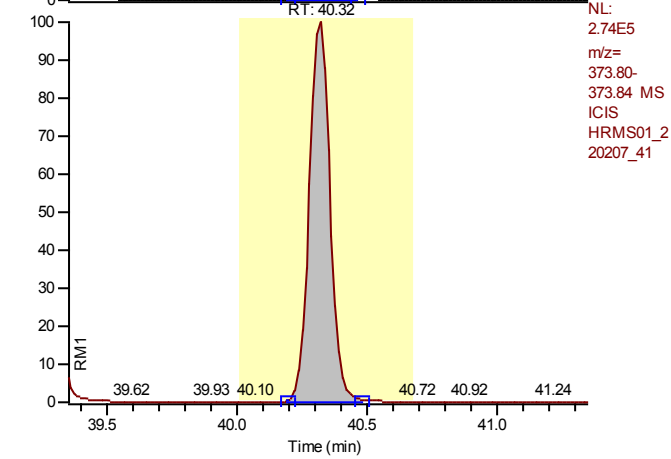
Chromatogram

Entry Parameters

RT: 39.35 - 41.35 SM: 7G

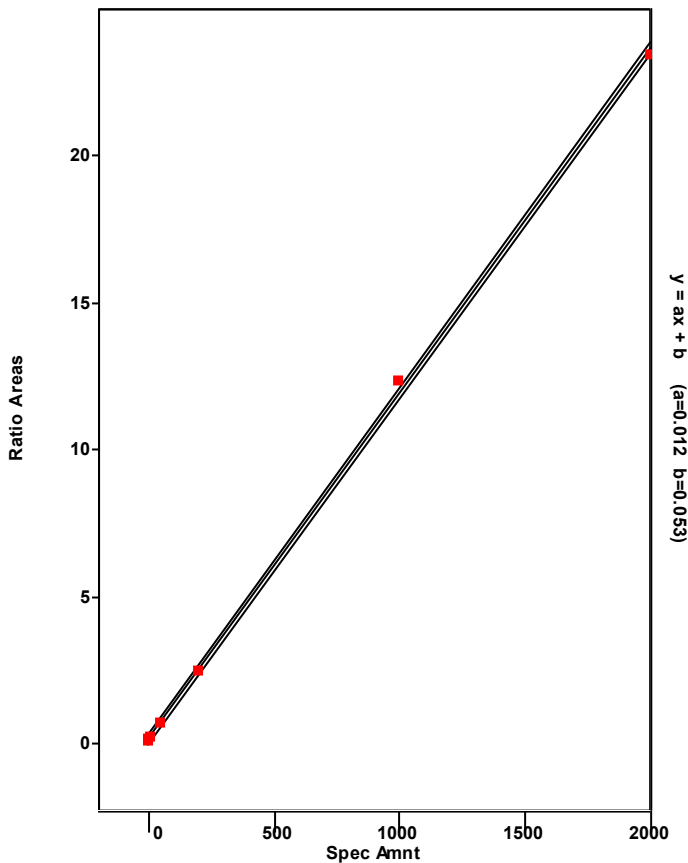


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	1231844
RM1 Area	1521803
RM1 Ratio (A)	1.2354
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.06
Percent Recovery (A)	100
TEQ (A)	5.0062
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

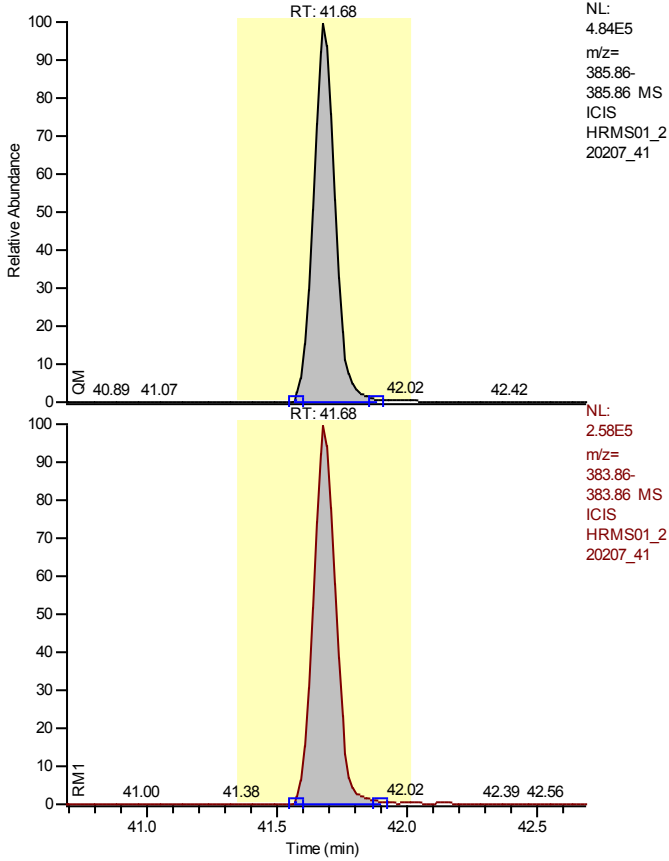
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G



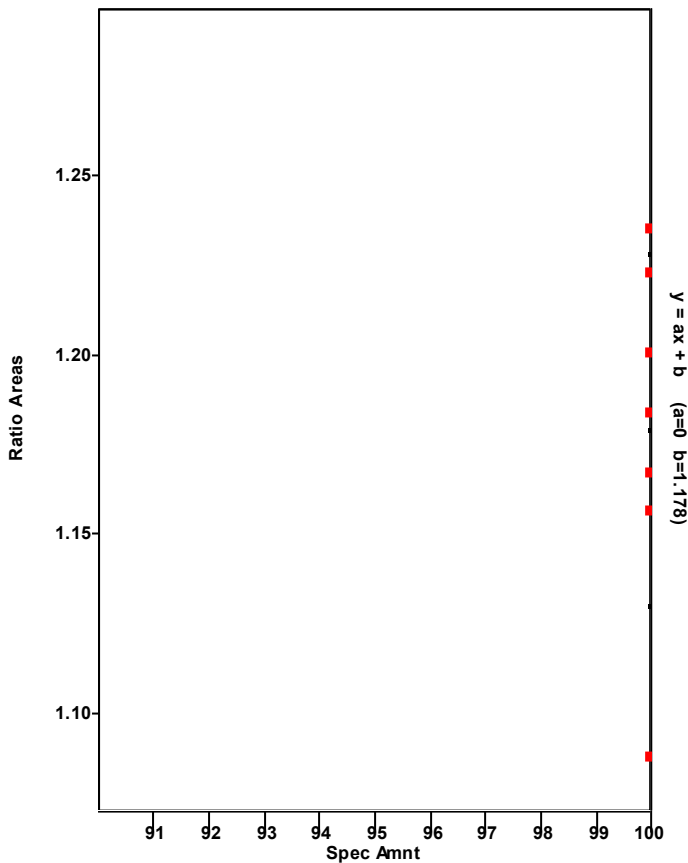
NL:
4.84E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_41

NL:
2.58E5
m/z=
383.86-
383.86 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	2793413
RM1 Area	1533663
RM1 Ratio (A)	0.5490
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	95.08
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

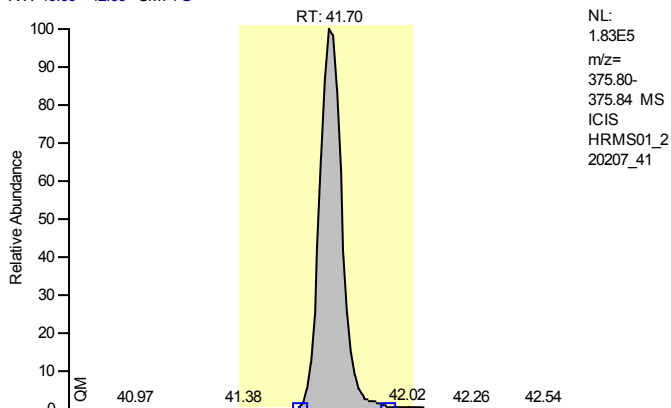
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



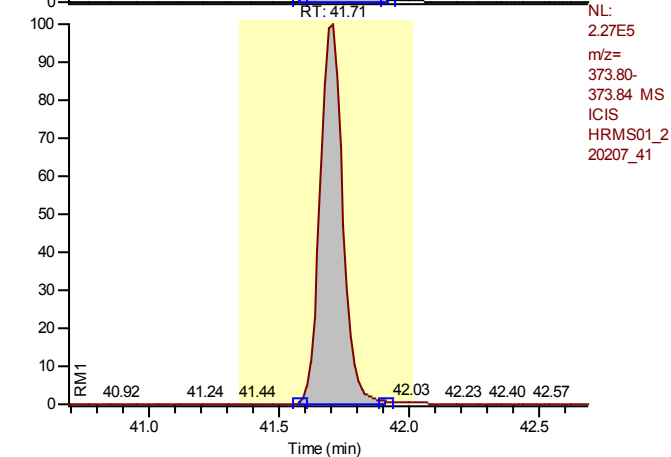
Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G

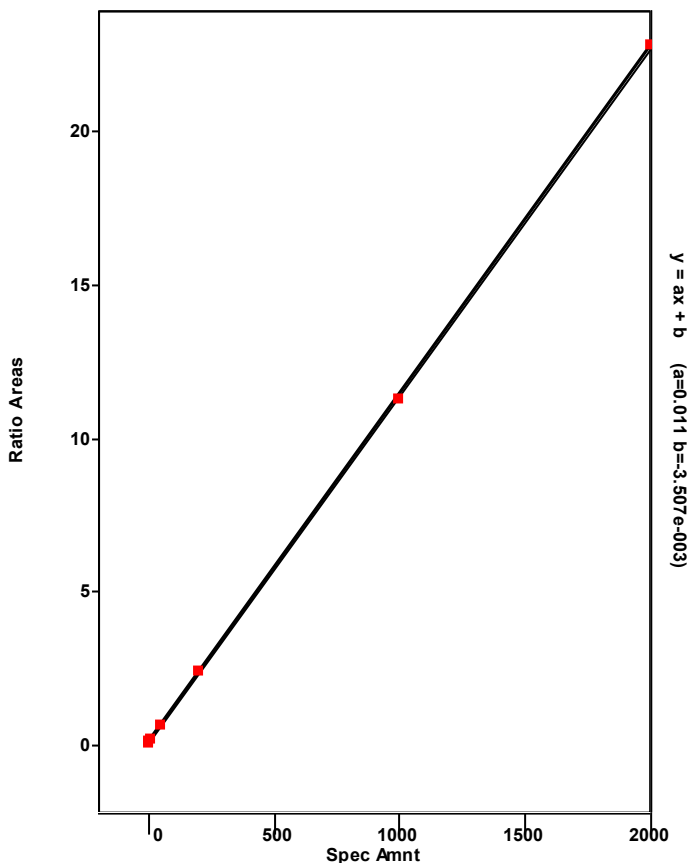


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	1085488
RM1 Area	1357089
RM1 Ratio (A)	1.2502
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.28
Percent Recovery (A)	97
TEQ (A)	4.8282
Label2	



Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

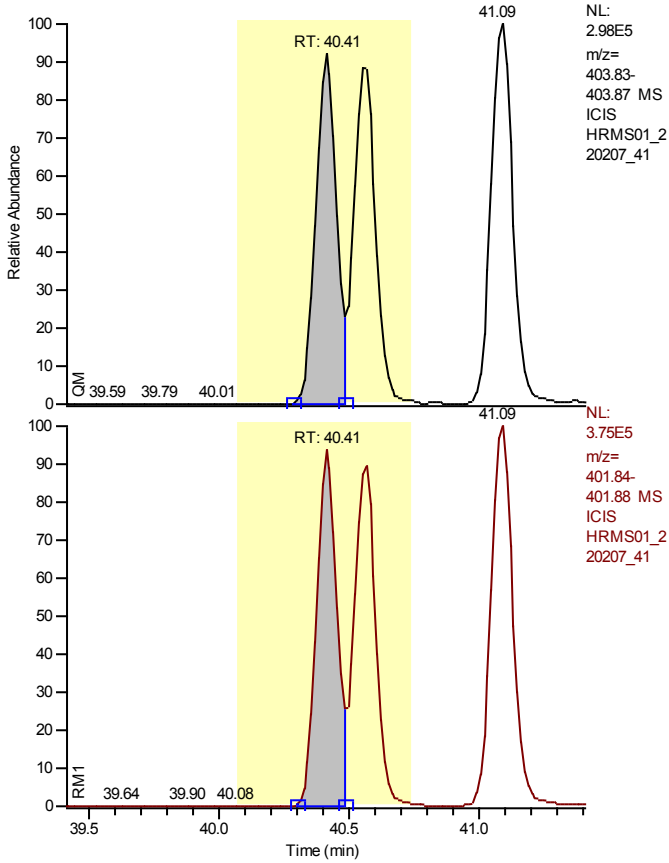
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

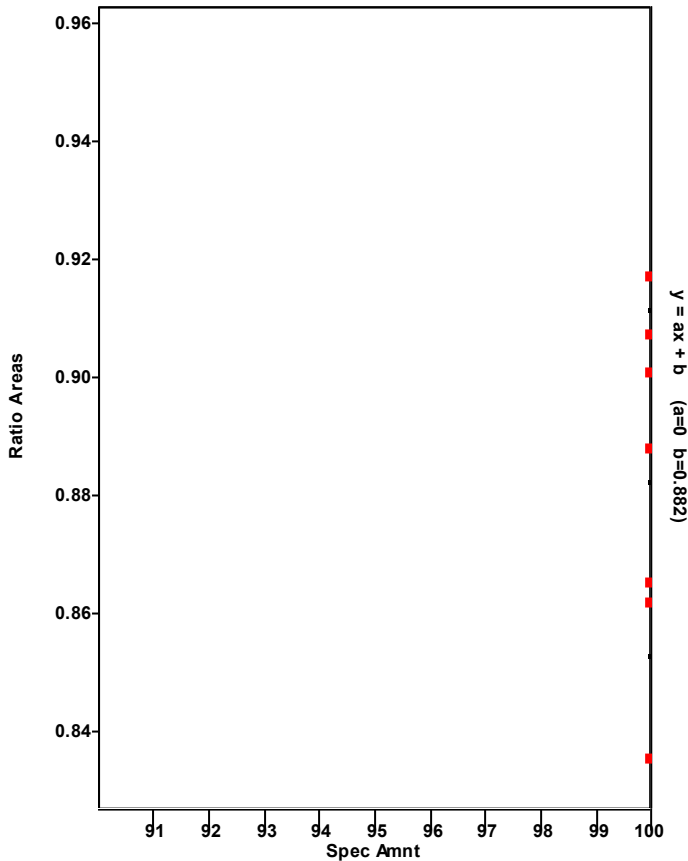
RT: 39.41 - 41.41 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	1506558
RM1 Area	1886751
RM1 Ratio (A)	1.2524
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	99.65
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

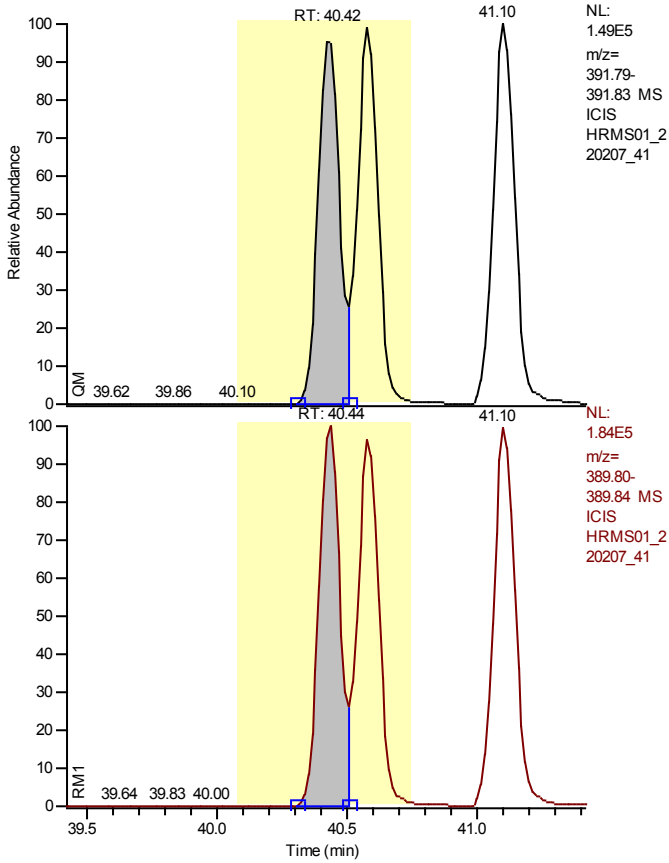
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

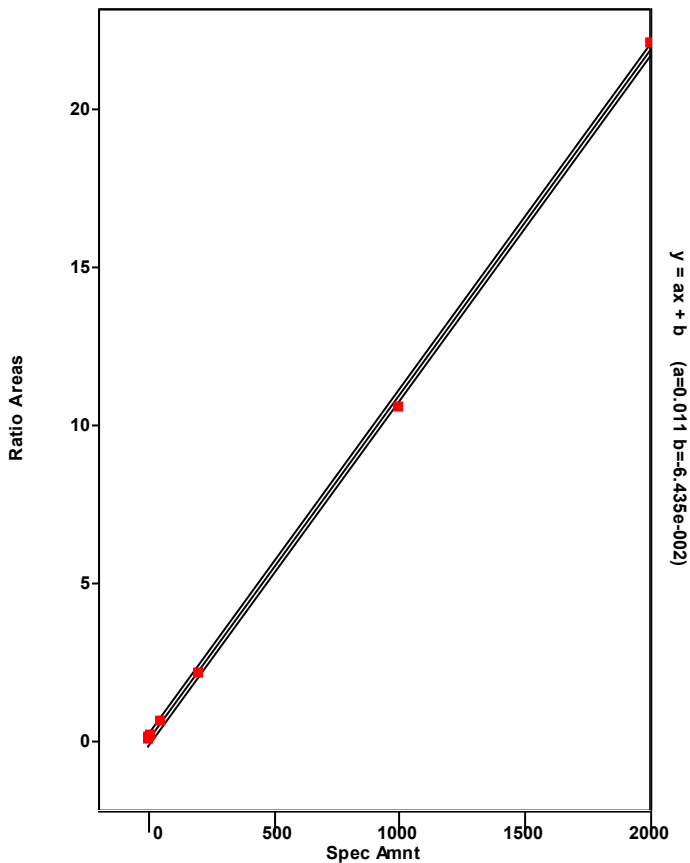
RT: 39.42 - 41.42 SM: 7G



Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	804997
RM1 Area	1011355
RM1 Ratio (A)	1.2563
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.85
Percent Recovery (A)	98
TEQ (A)	4.8851
Label2	

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

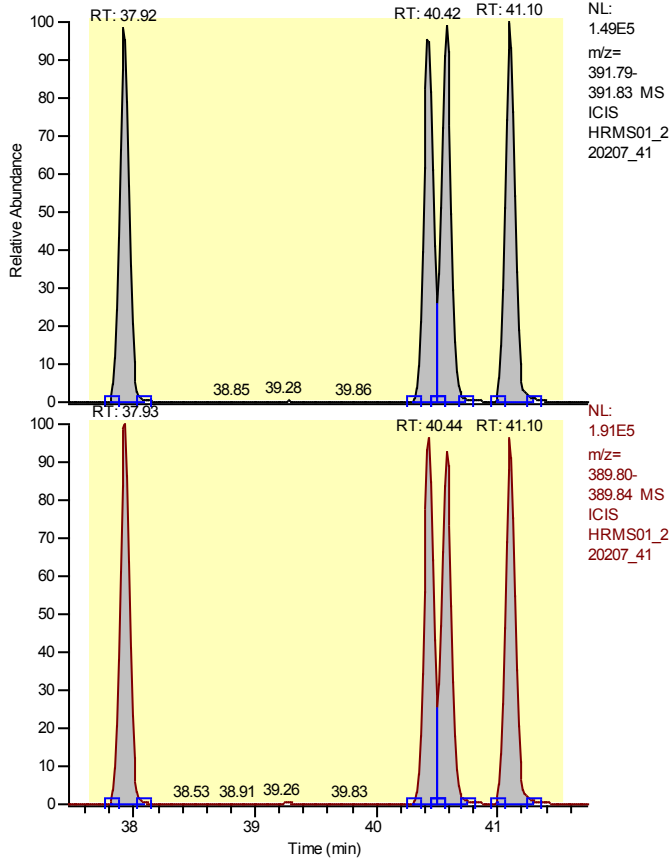
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

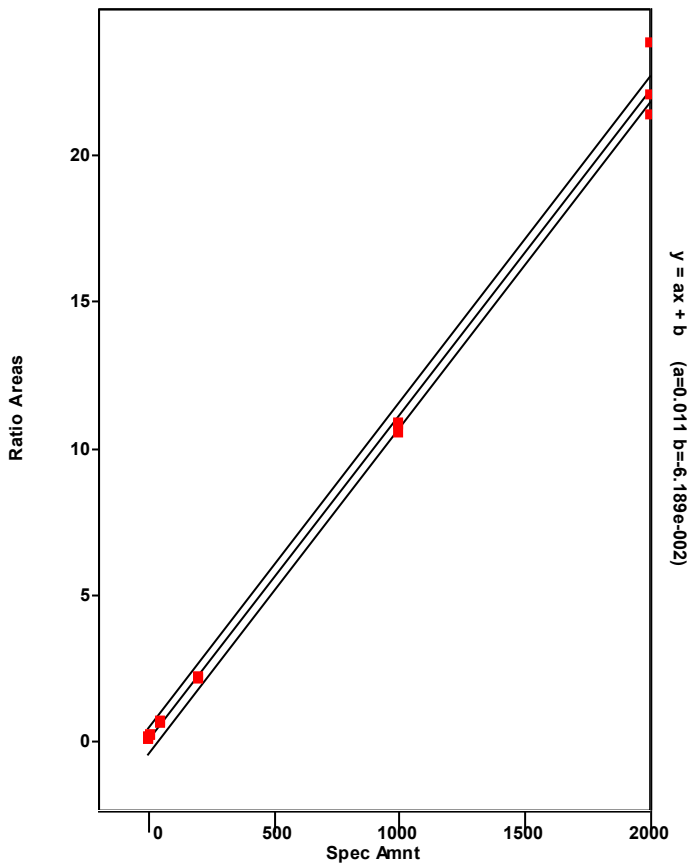
RT: 37.46 - 41.75 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	3287840
RM1 Area	4140098
RM1 Ratio (A)	1.2592
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	196.35
Percent Recovery (A)	393
TEQ (A)	0.0000
Label2	

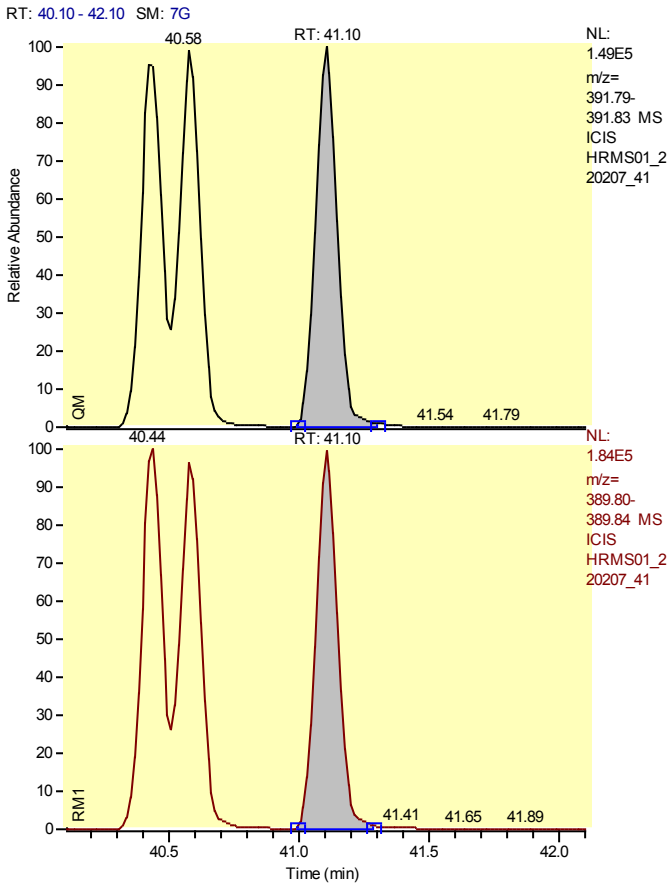
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

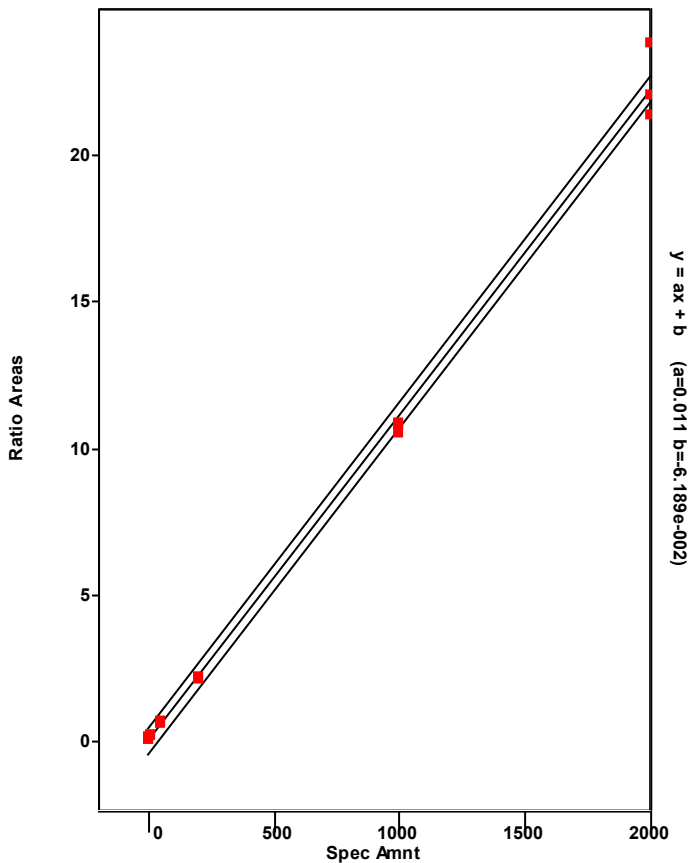
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	851846
RM1 Area	1053252
RM1 Ratio (A)	1.2364
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.36
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

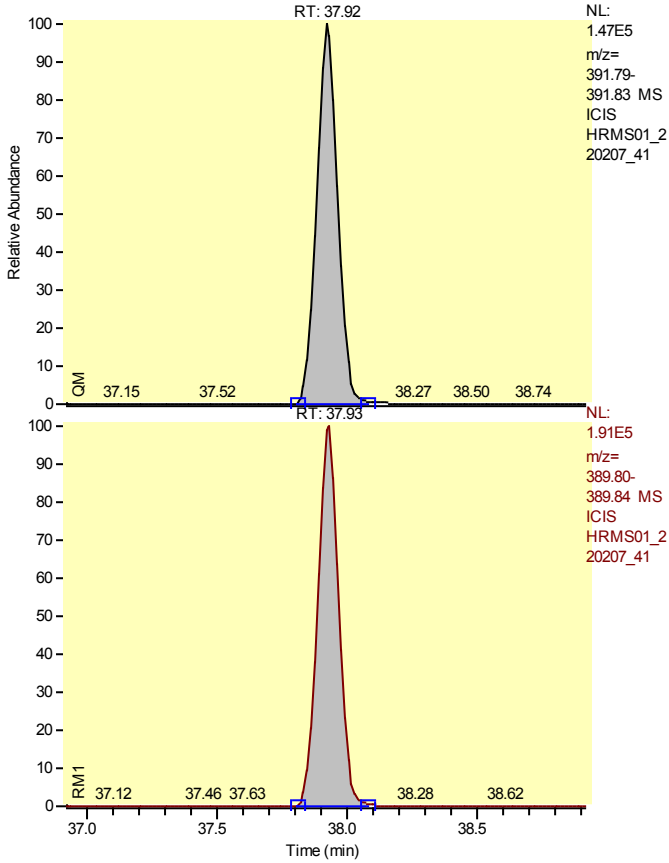
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

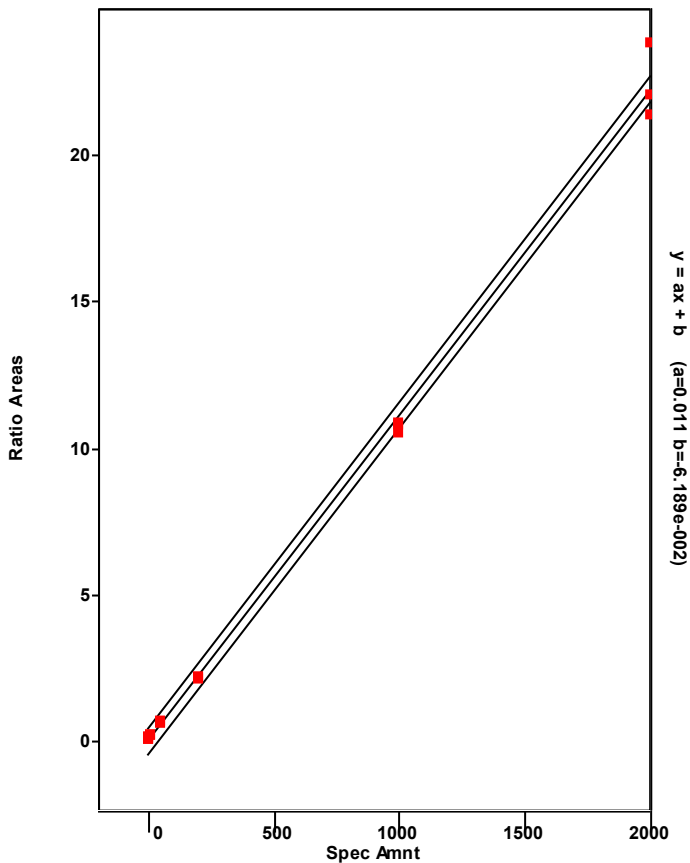
RT: 36.92 - 38.92 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	823708
RM1 Area	1069972
RM1 Ratio (A)	1.2990
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.06
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

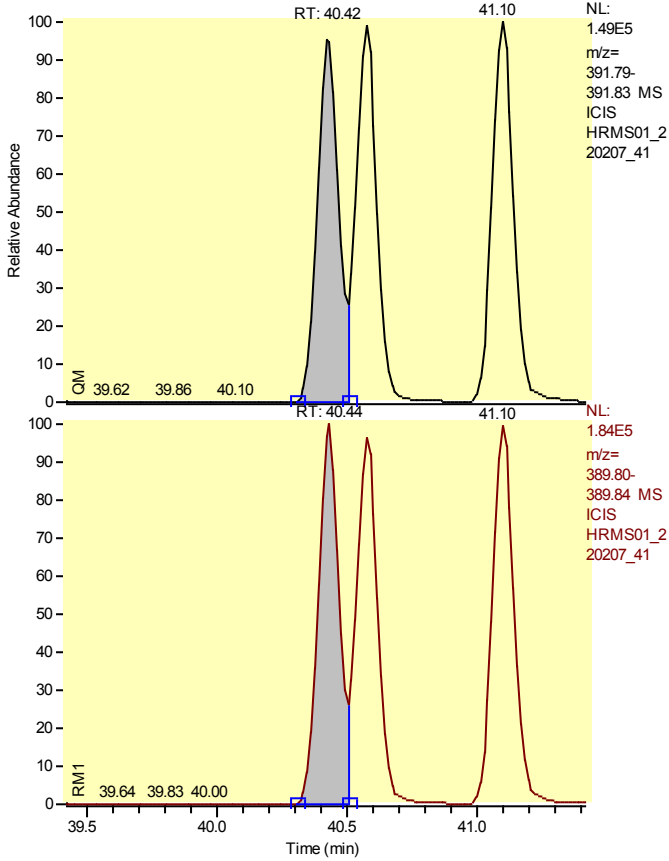
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

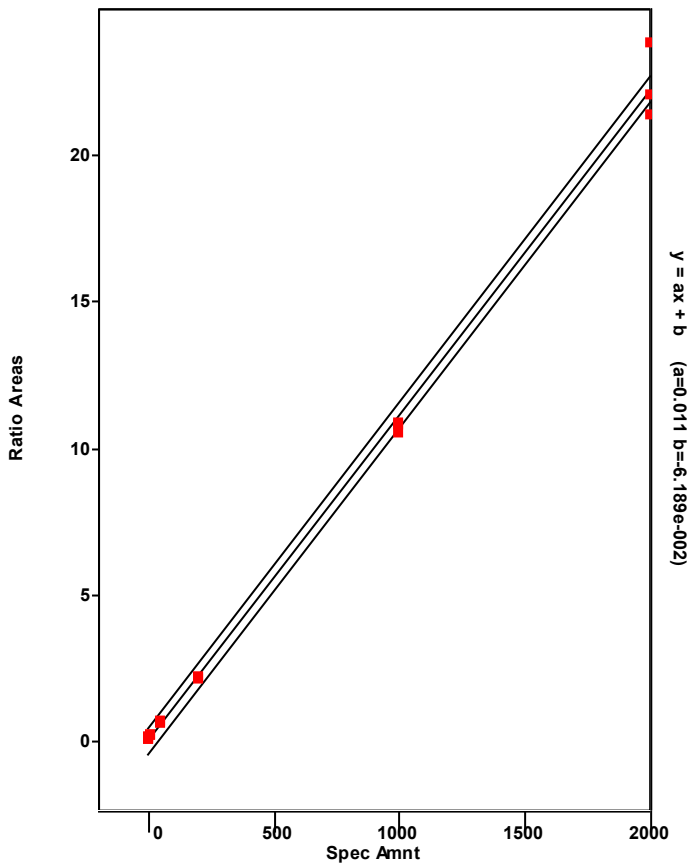
RT: 39.42 - 41.42 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	804997
RM1 Area	1011355
RM1 Ratio (A)	1.2563
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.01
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

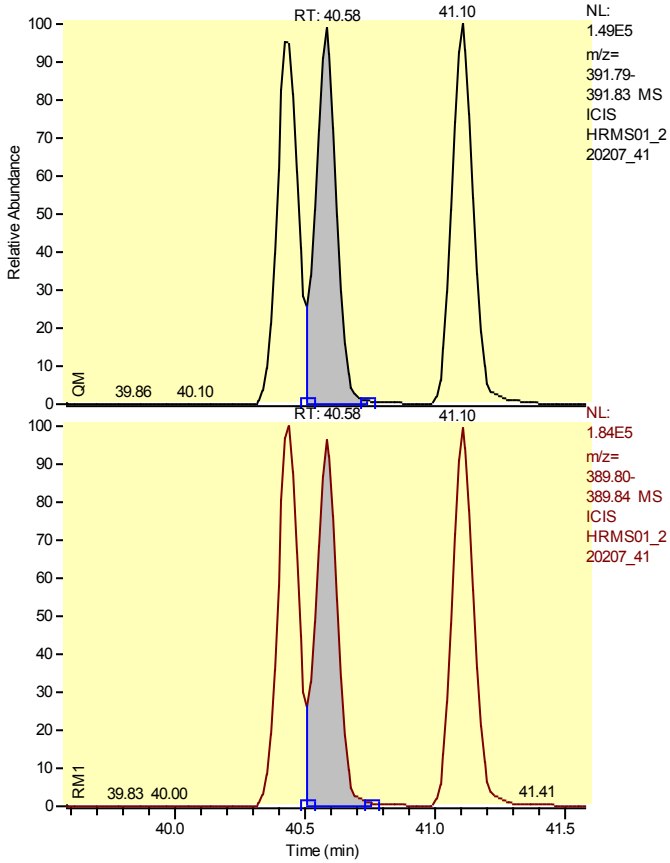
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

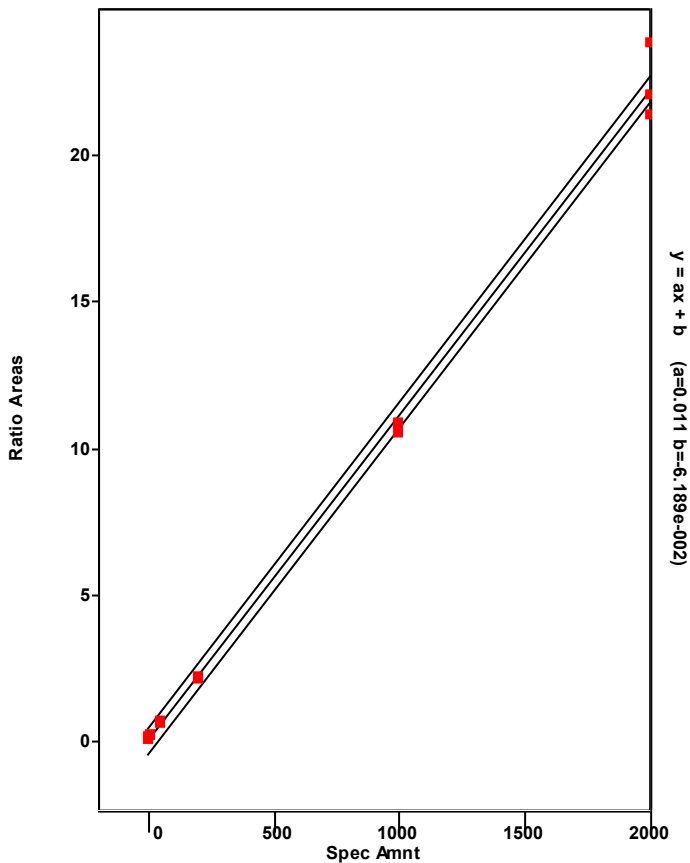
RT: 39.58 - 41.58 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	807289
RM1 Area	1005520
RM1 Ratio (A)	1.2456
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.92
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

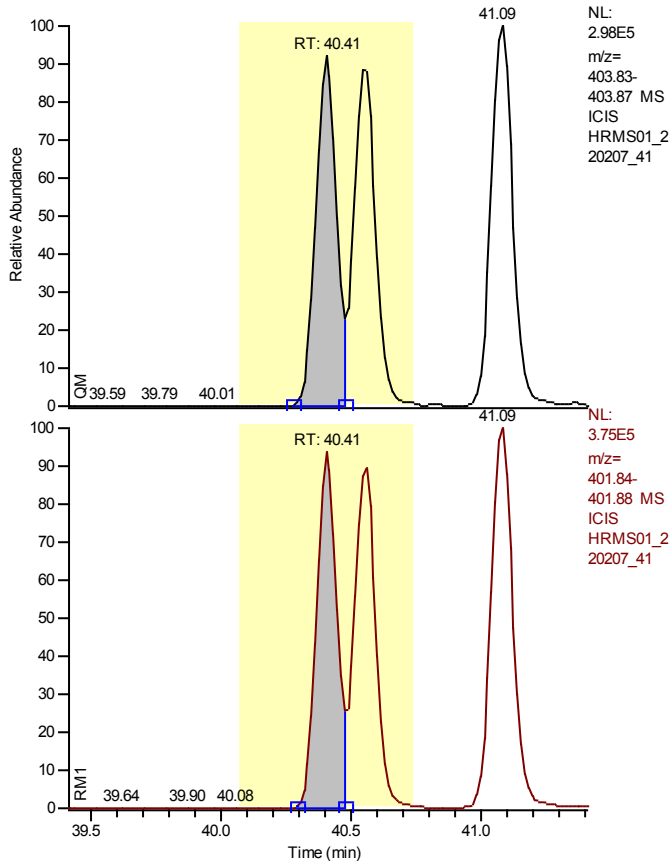
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

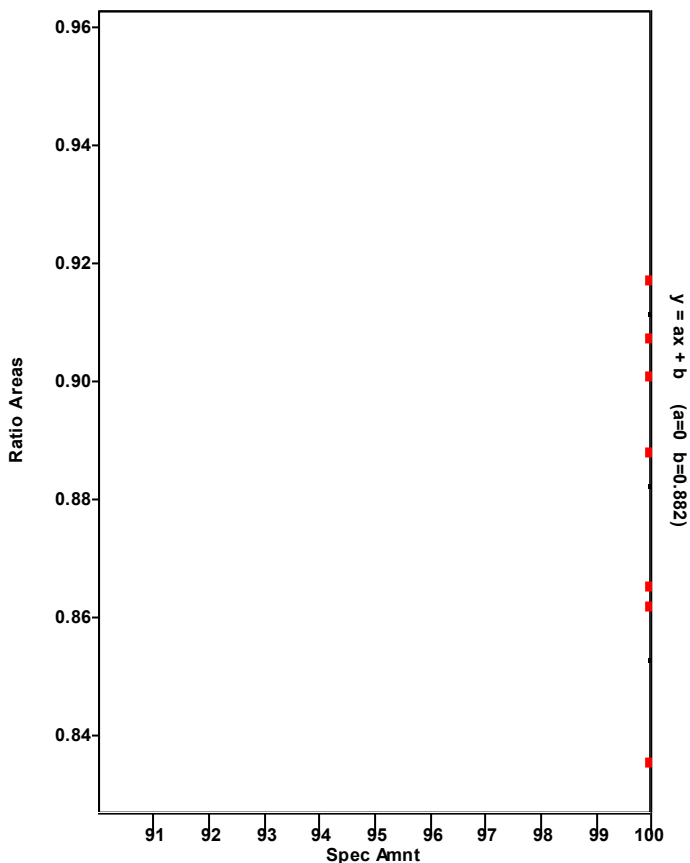
RT: 39.42 - 41.42 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1506558
RM1 Area	1886751
RM1 Ratio (A)	1.2524
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	99.65
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

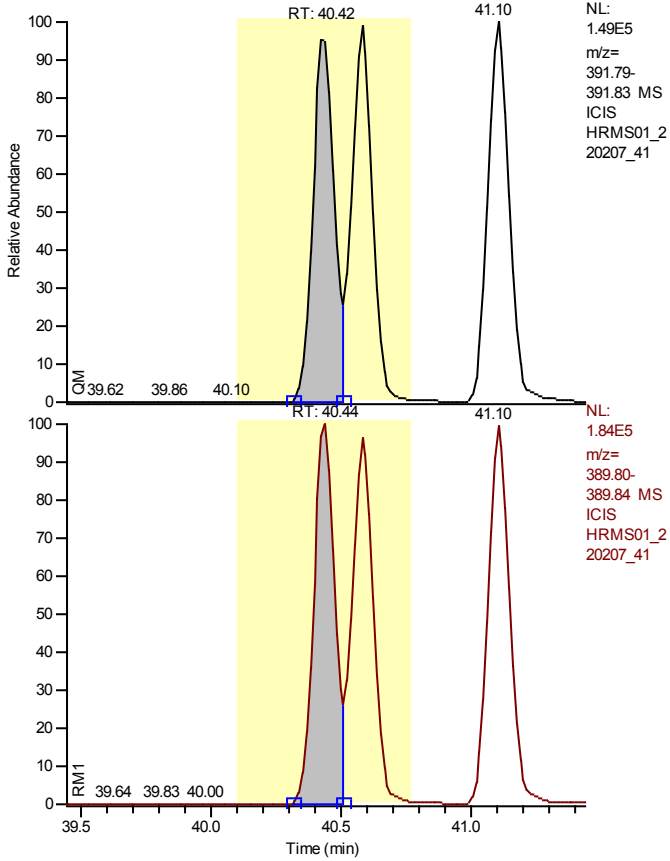
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

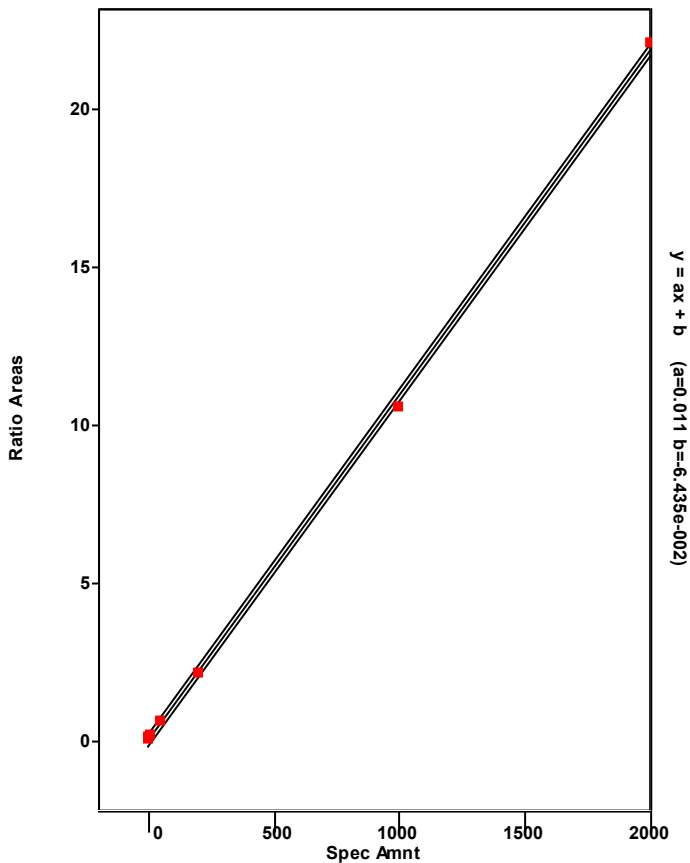
RT: 39.44 - 41.44 SM: 7G



Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	804997
RM1 Area	1011355
RM1 Ratio (A)	1.2563
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.85
Percent Recovery (A)	98
TEQ (A)	4.8851
Label2	

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

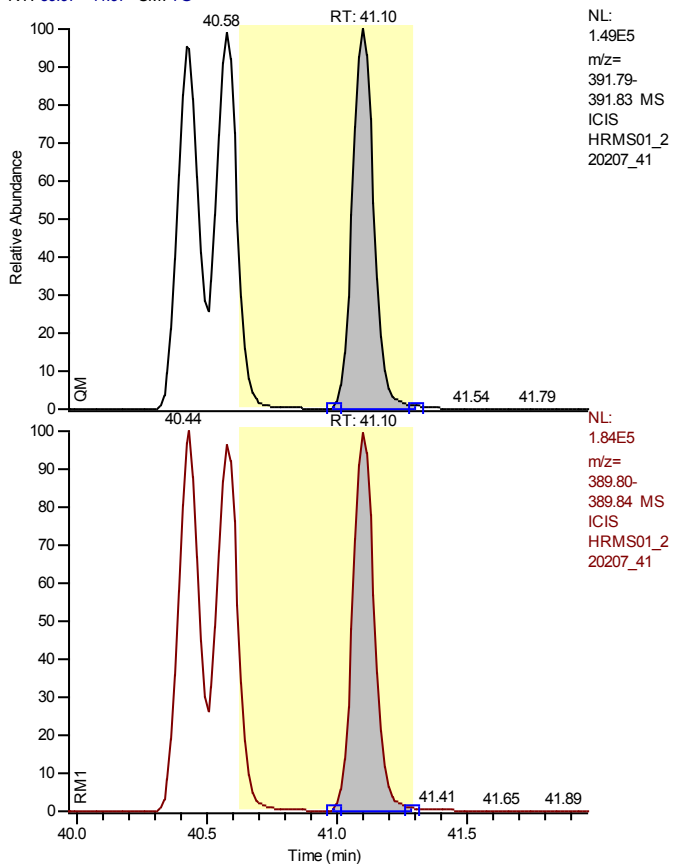
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

RT: 39.97 - 41.97 SM: 7G



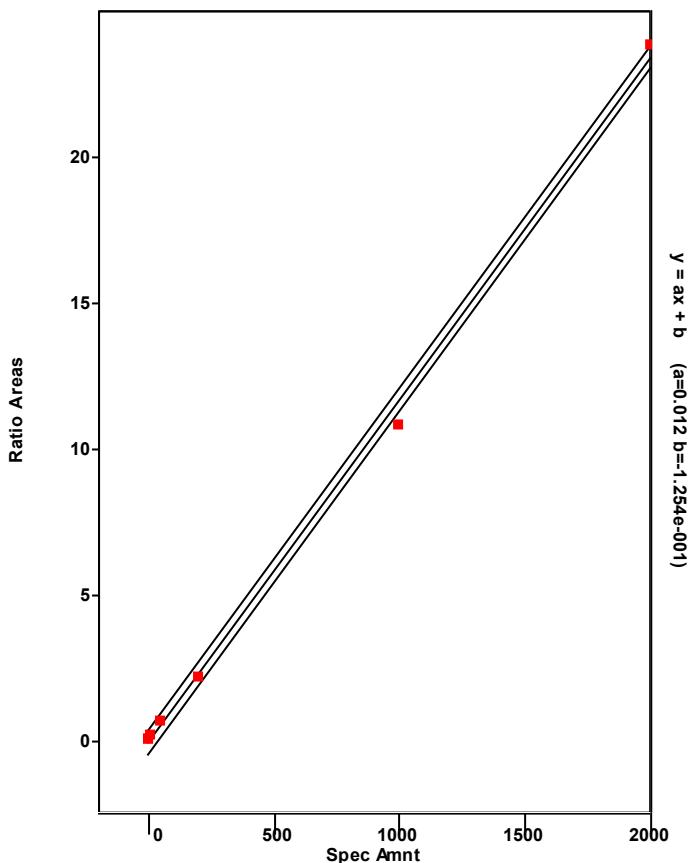
NL:
1.49E5
m/z=
391.79-
391.83 MS
ICIS
HRMS01_2
20207_41

NL:
1.84E5
m/z=
389.80-
389.84 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	851846
RM1 Area	1053252
RM1 Ratio (A)	1.2364
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.59
Percent Recovery (A)	97
TEQ (A)	4.8589
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

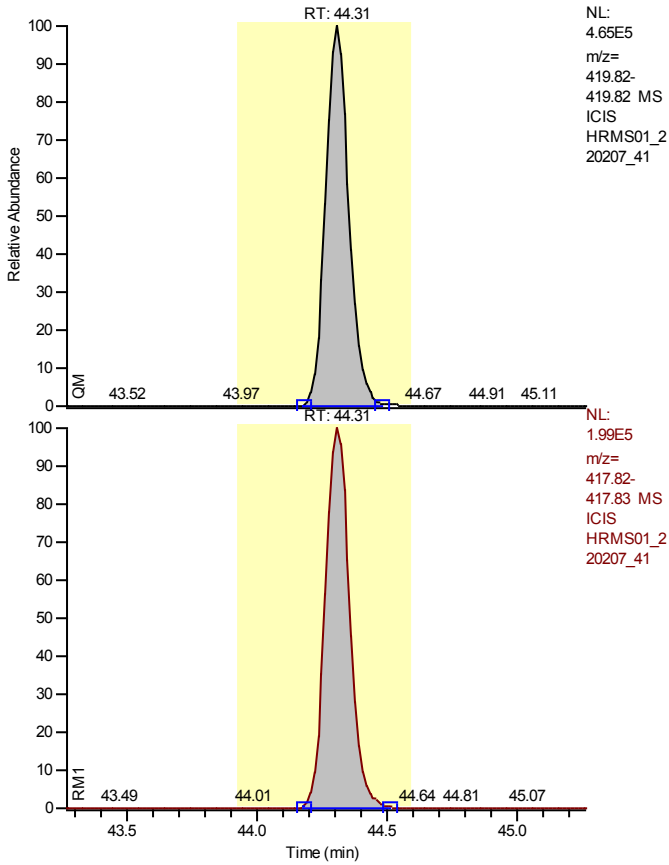
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

Entry Parameters

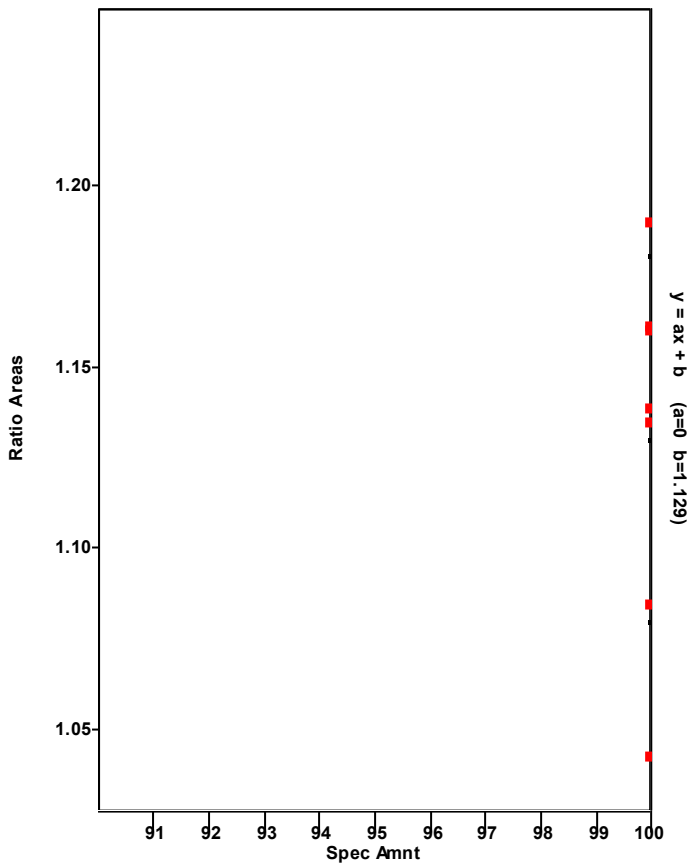
RT: 43.27 - 45.27 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	2884980
RM1 Area	1302846
RM1 Ratio (A)	0.4516
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	96.02
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

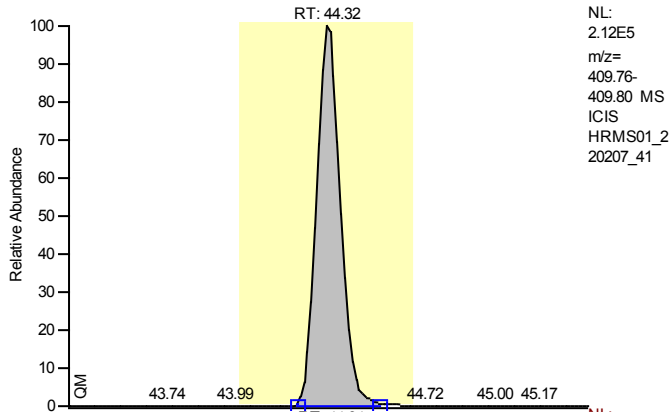
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



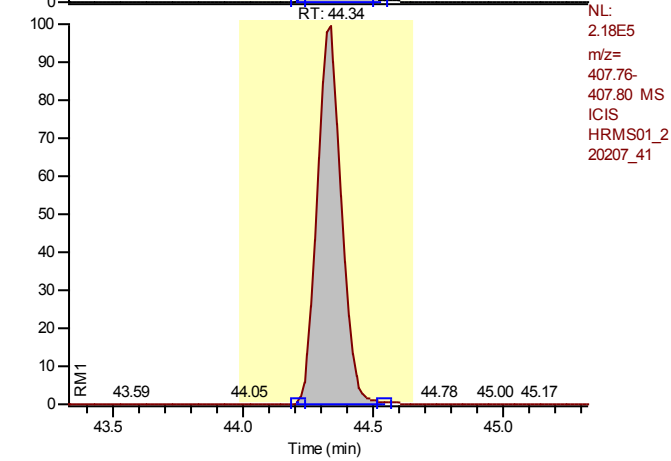
Chromatogram

Entry Parameters

RT: 43.33 - 45.33 SM: 7G

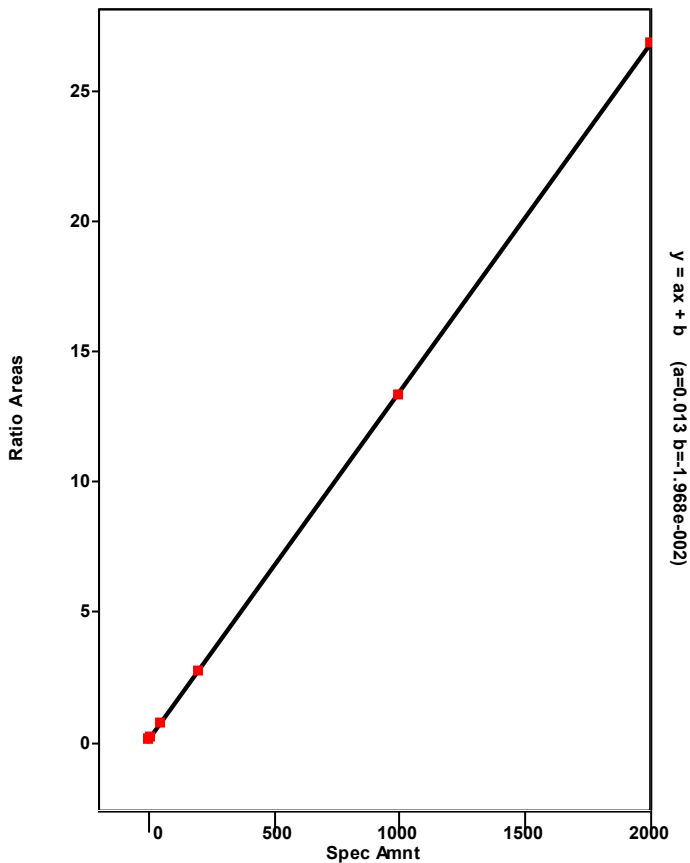


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	1359985
RM1 Area	1404912
RM1 Ratio (A)	1.0330
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.94
Percent Recovery (A)	98
TEQ (A)	0.4894
Label2	



Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

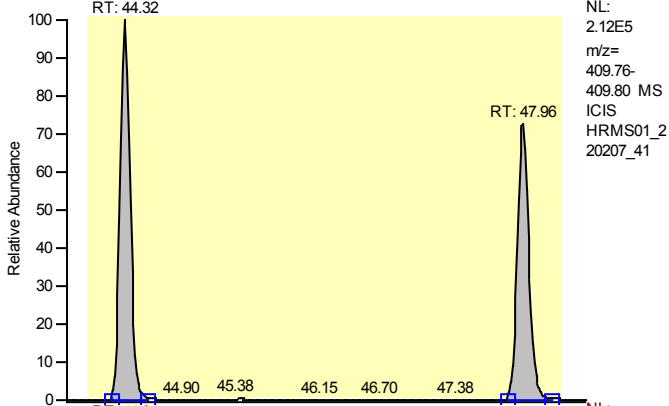
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



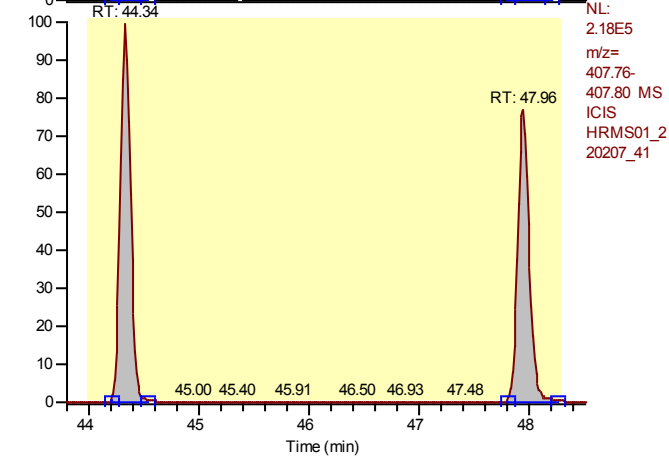
Chromatogram

Entry Parameters

RT: 43.79 - 48.52 SM: 7G

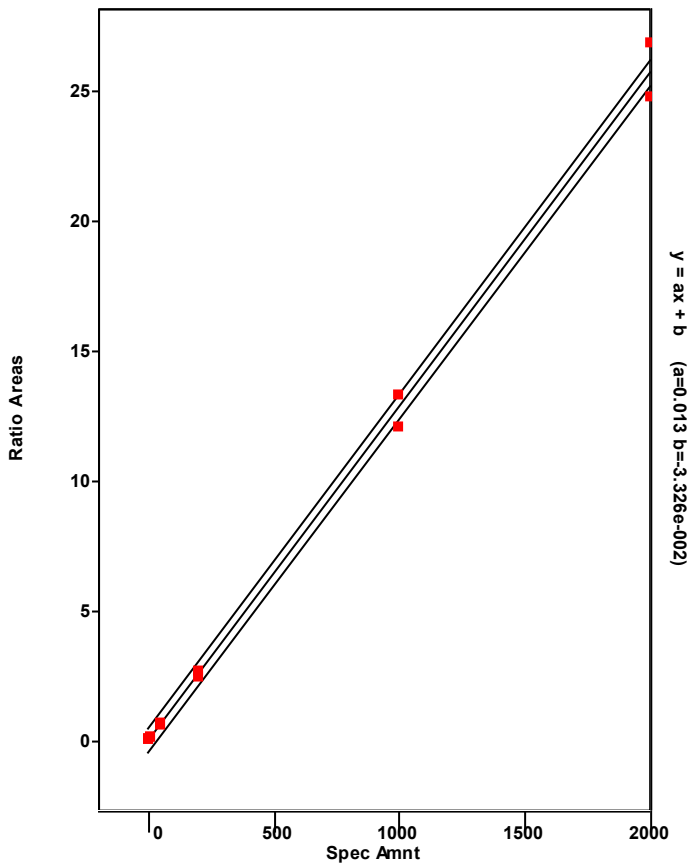


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	2503386
RM1 Area	2633416
RM1 Ratio (A)	1.0519
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	95.48
Percent Recovery (A)	191
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran

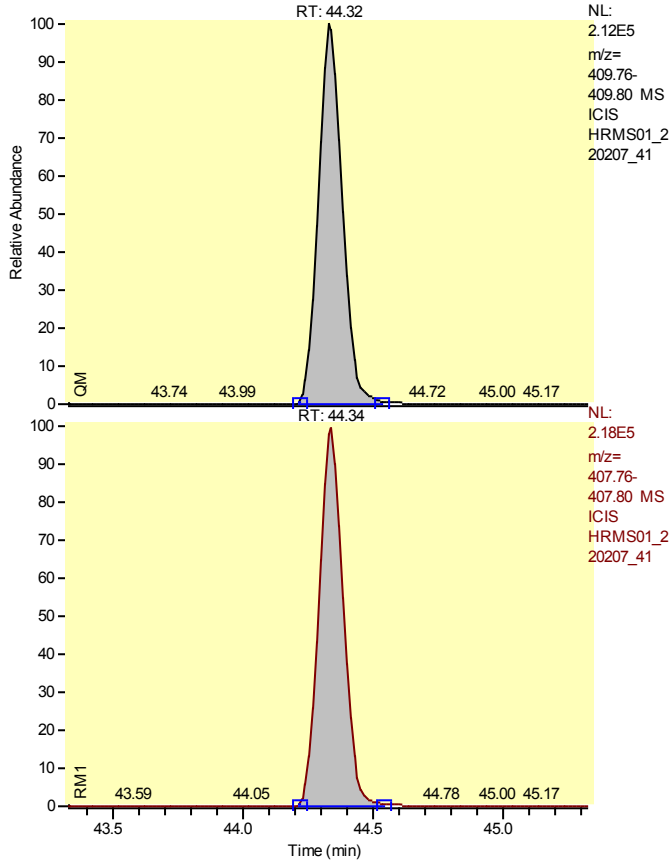
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.32 - 45.32 SM: 7G



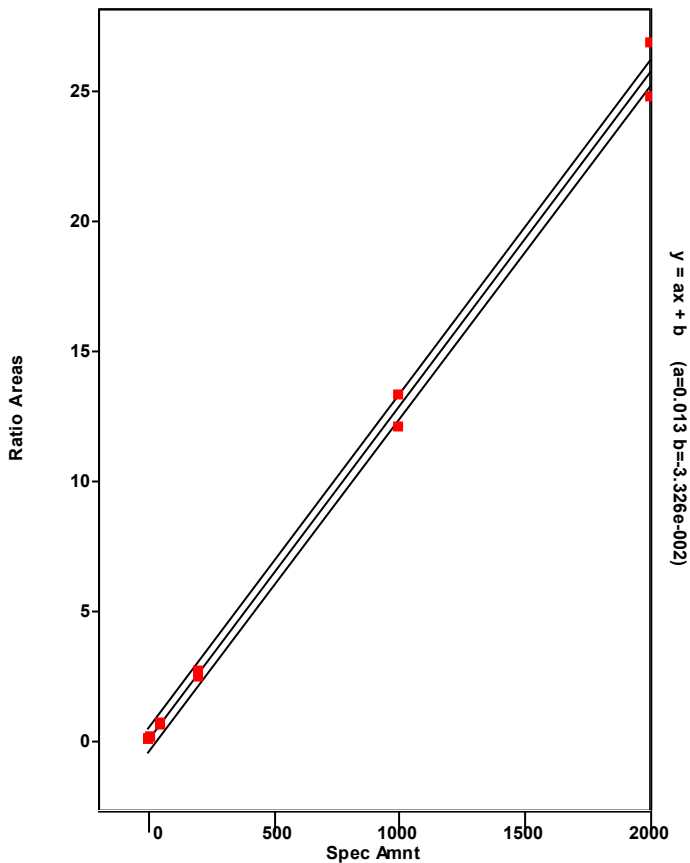
NL:
2.12E5
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20207_41

NL:
2.18E5
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1359985
RM1 Area	1404912
RM1 Ratio (A)	1.0330
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.39
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__1

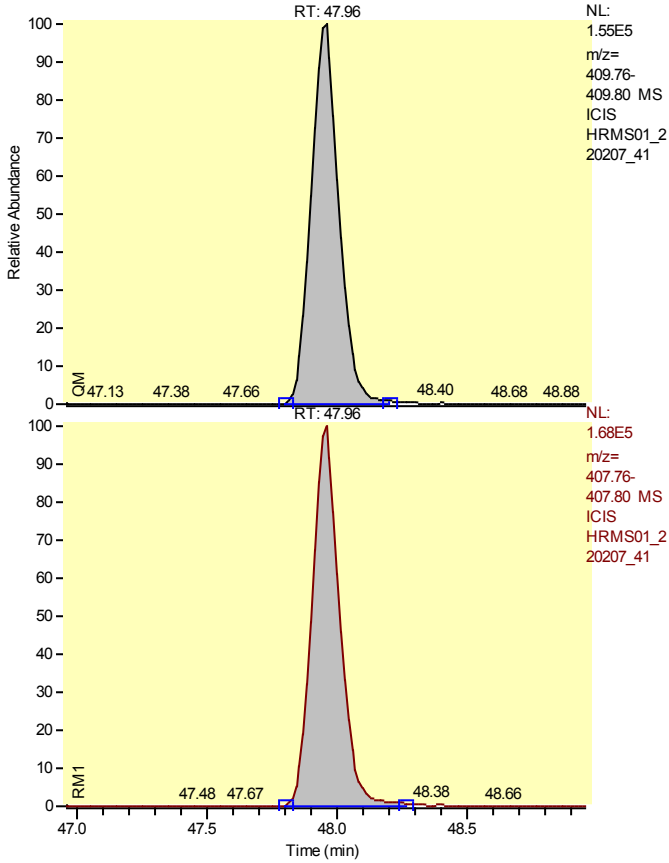
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.96 - 48.96 SM: 7G



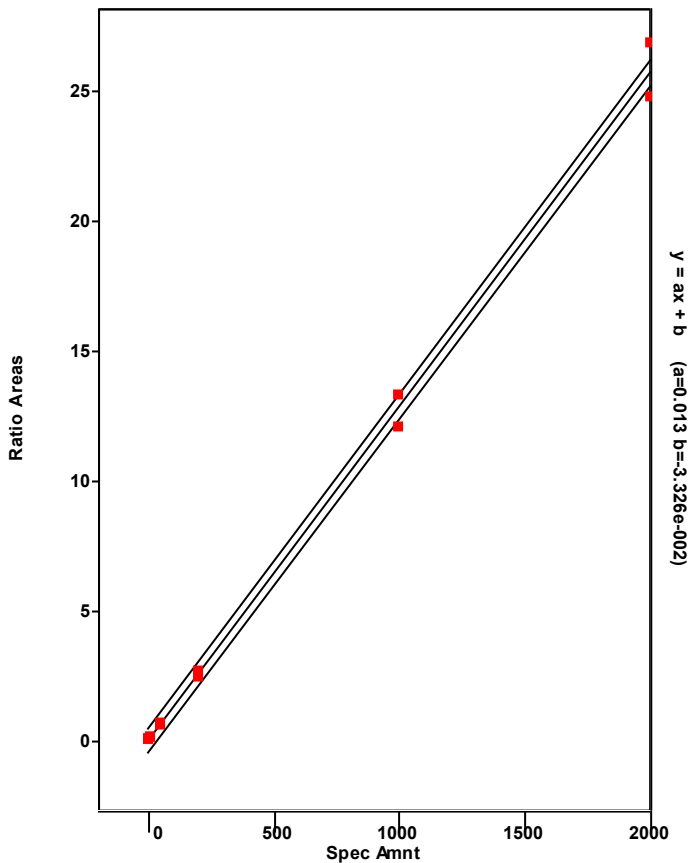
NL:
1.55E5
m/z=
409.76-
409.80 MS
ICIS
HRMS01_2
20207_41

NL:
1.68E5
m/z=
407.76-
407.80 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1143401
RM1 Area	1228504
RM1 Ratio (A)	1.0744
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	44.09
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__2

Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338

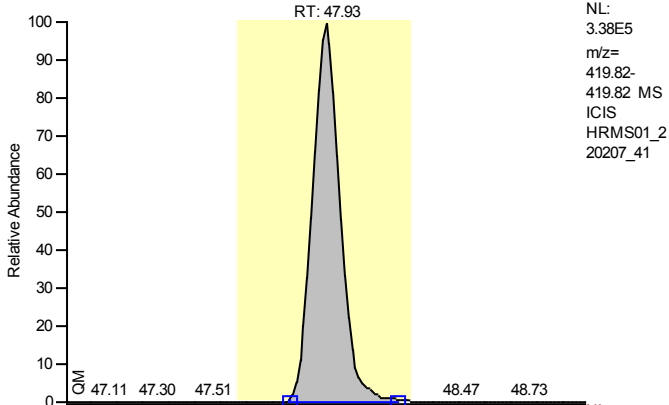


$y = ax + b$
(a=0.013 b=3.326e-002)

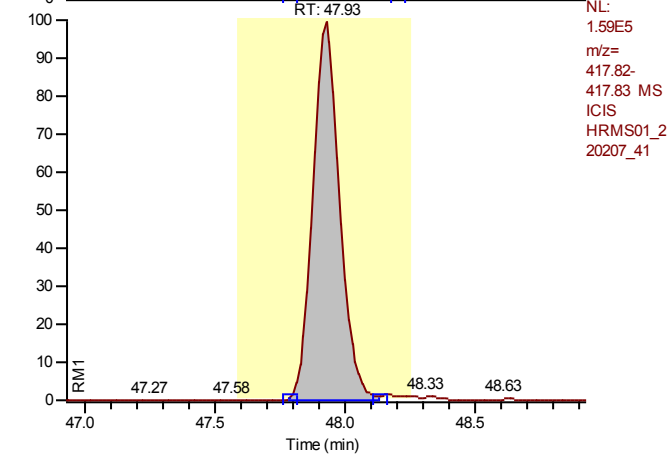
Chromatogram

Entry Parameters

RT: 46.93 - 48.93 SM: 7G

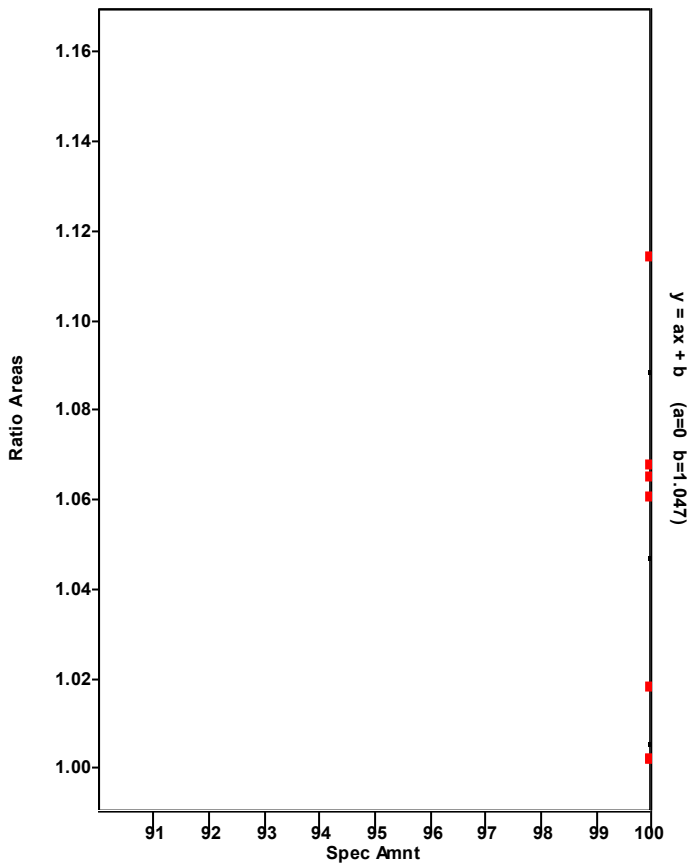


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	2499027
RM1 Area	1133393
RM1 Ratio (A)	0.4535
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	89.87
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

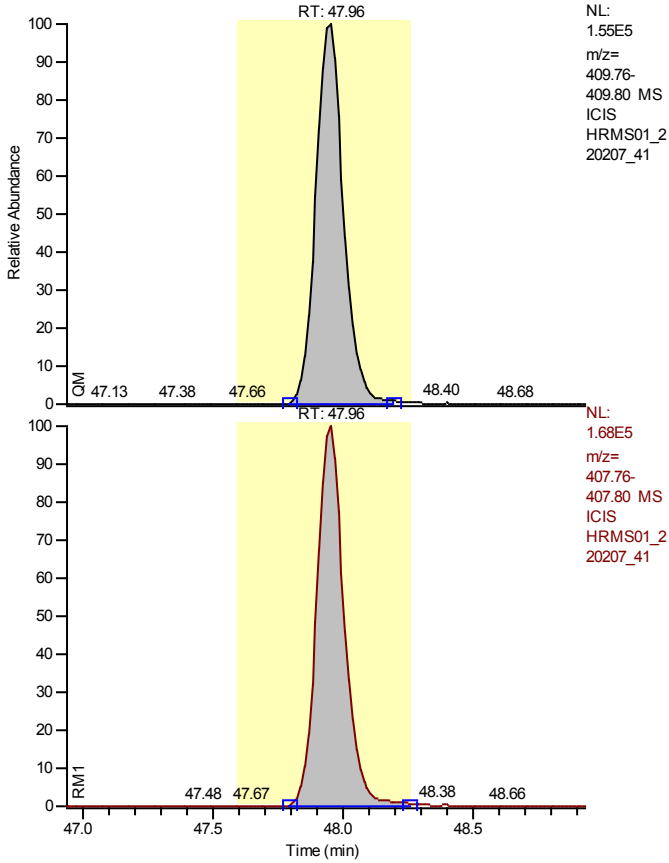
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.94 - 48.94 SM: 7G



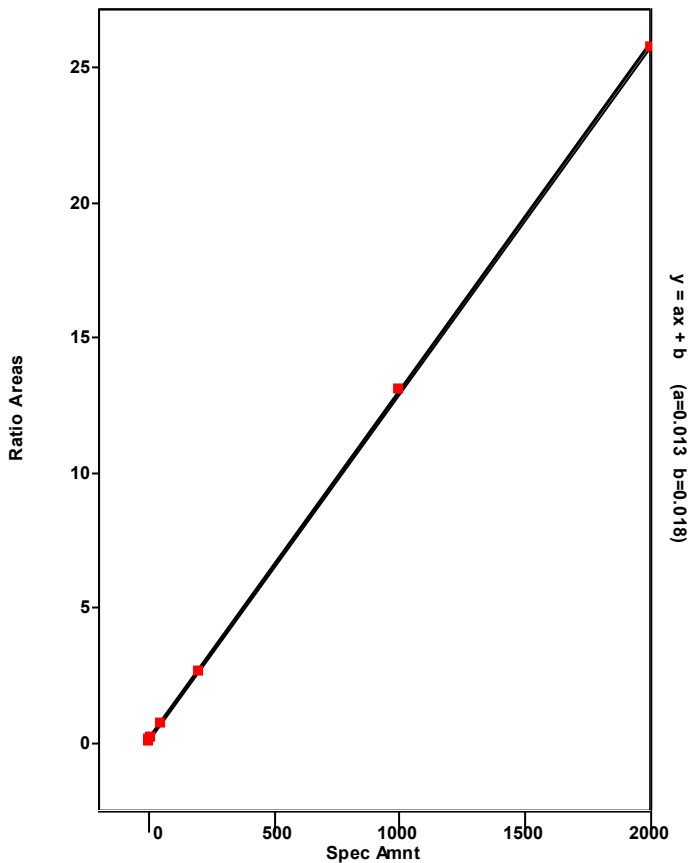
NL:
 1.55E5
 m/z=
 409.76-
 409.80 MS
 ICIS
 HRMS01_2
 20207_41

NL:
 1.68E5
 m/z=
 407.76-
 407.80 MS
 ICIS
 HRMS01_2
 20207_41

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	1143401
RM1 Area	1228504
RM1 Ratio (A)	1.0744
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.61
Percent Recovery (A)	99
TEQ (A)	0.4961
Label2	

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

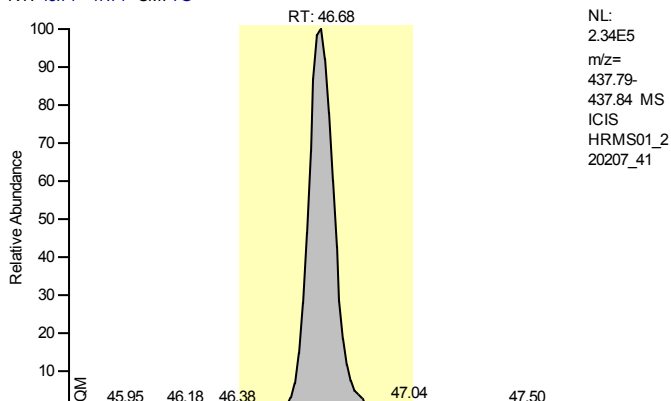
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



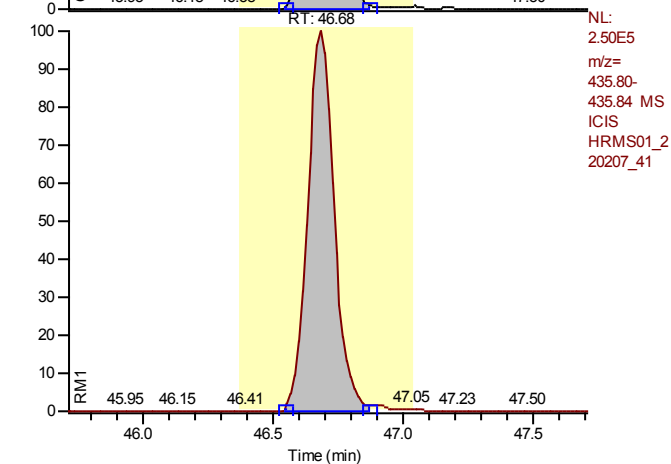
Chromatogram

Entry Parameters

RT: 45.71 - 47.71 SM: 7G

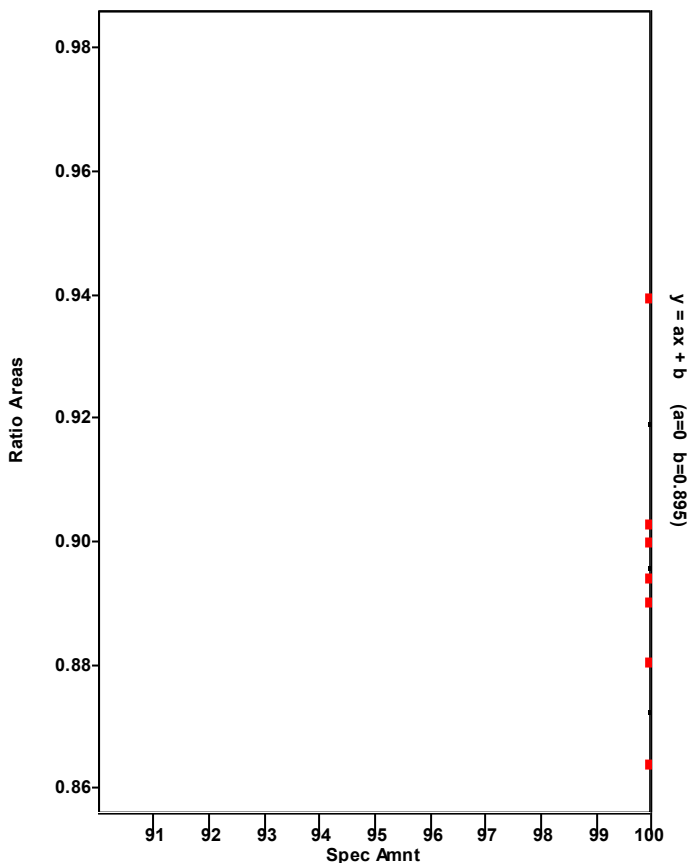


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1623110
RM1 Area	1772503
RM1 Ratio (A)	1.0920
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	98.20
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

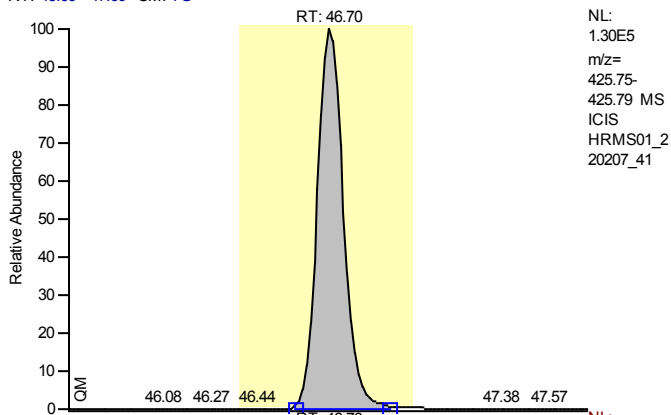
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

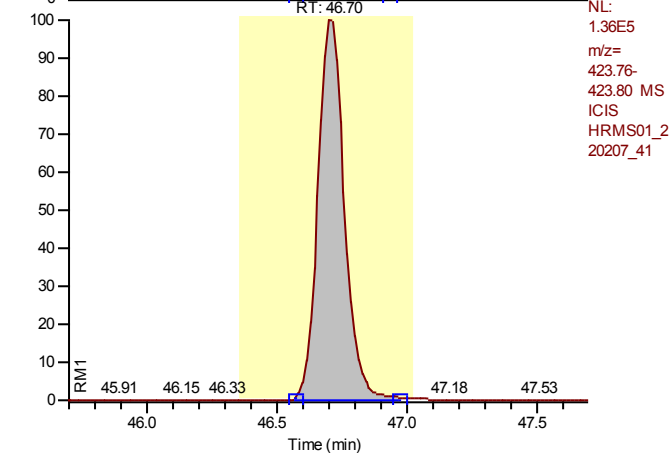
Entry Parameters

RT: 45.69 - 47.69 SM: 7G



NL:
 1.30E5
 m/z=
 425.75-
 425.79 MS
 ICIS
 HRMS01_2
 20207_41

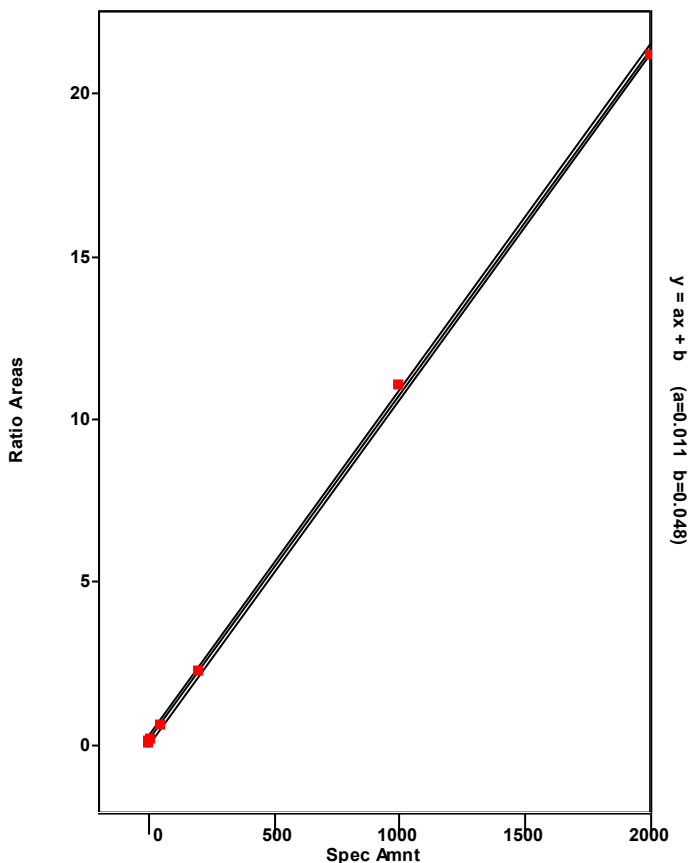
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	910340
RM1 Area	965539
RM1 Ratio (A)	1.0606
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.85
Percent Recovery (A)	100
TEQ (A)	0.4985
Label2	



NL:
 1.36E5
 m/z=
 423.76-
 423.80 MS
 ICIS
 HRMS01_2
 20207_41

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

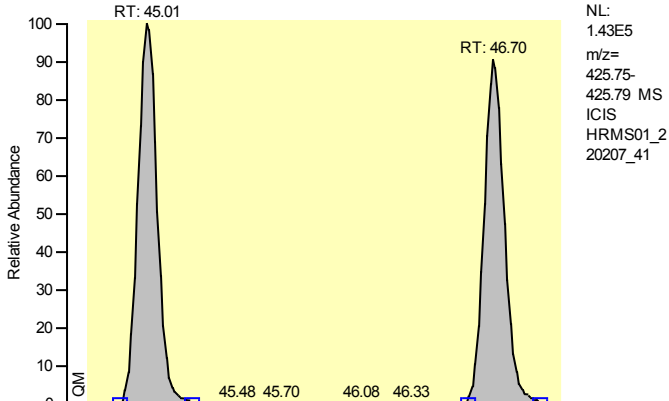
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



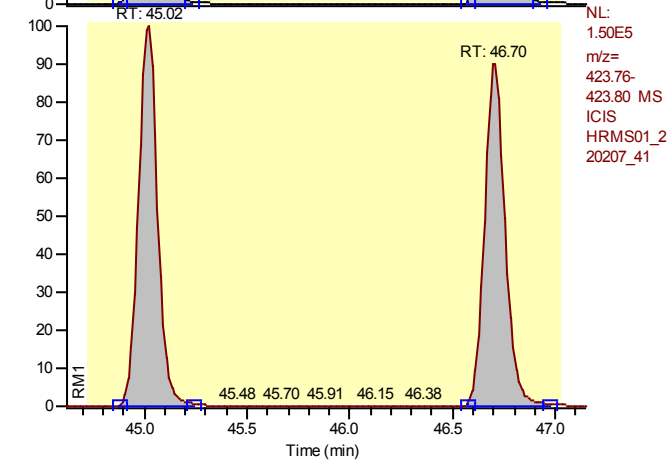
Chromatogram

Entry Parameters

RT: 44.62 - 47.15 SM: 7G

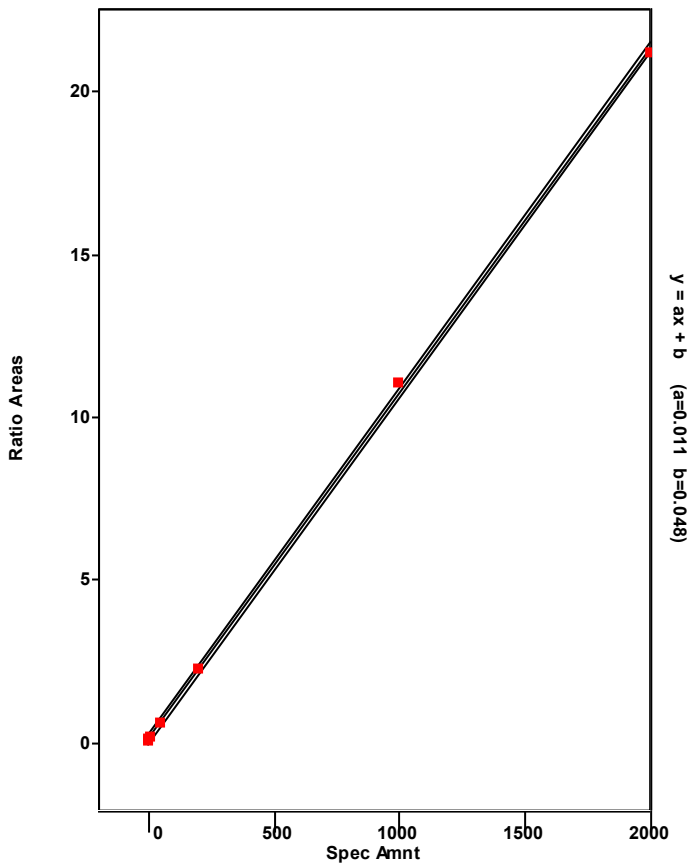


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	1864436
RM1 Area	1954114
RM1 Ratio (A)	1.0481
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	101.47
Percent Recovery (A)	203
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzo-p-dioxin

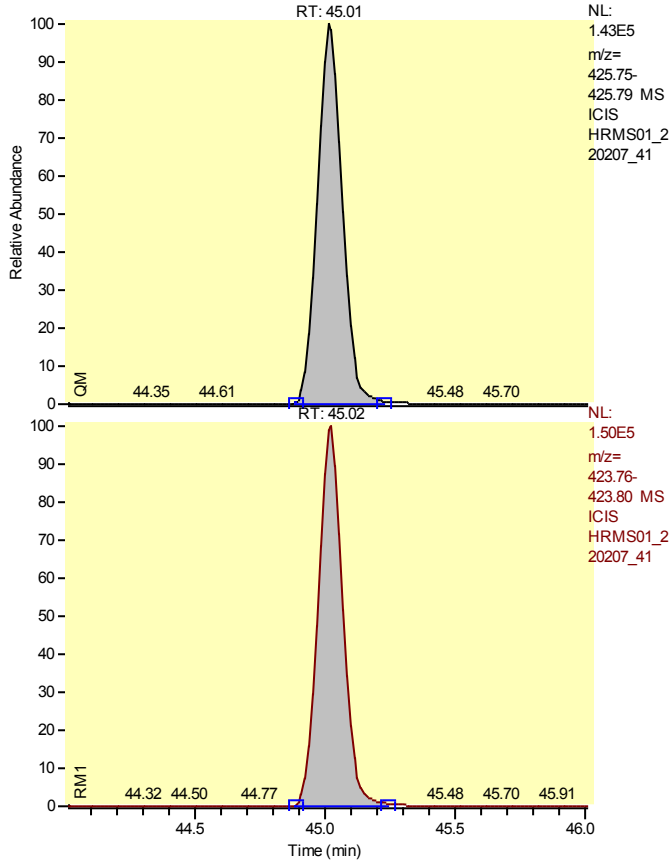
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

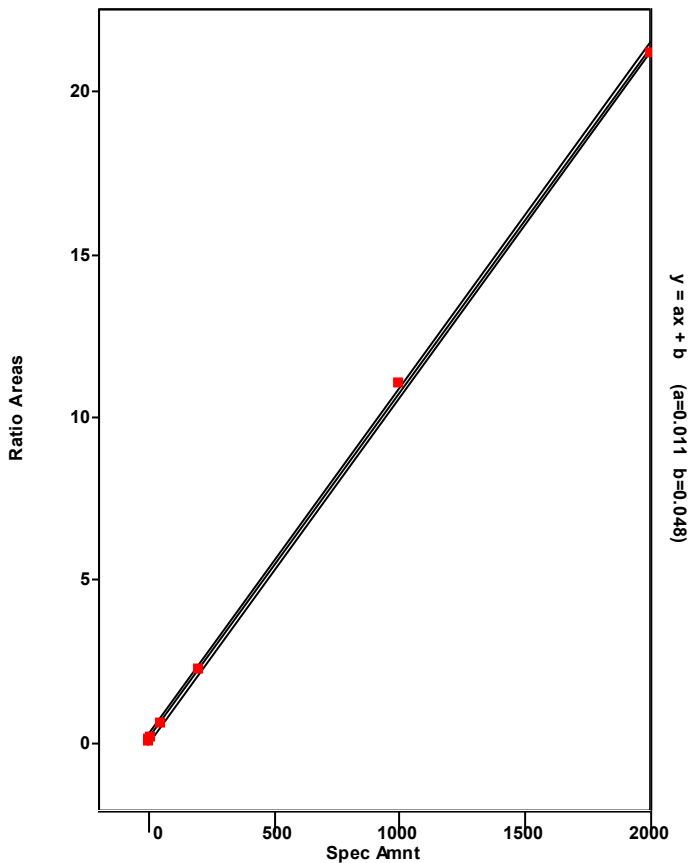
RT: 44.01 - 46.01 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	954096
RM1 Area	988575
RM1 Ratio (A)	1.0361
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.62
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

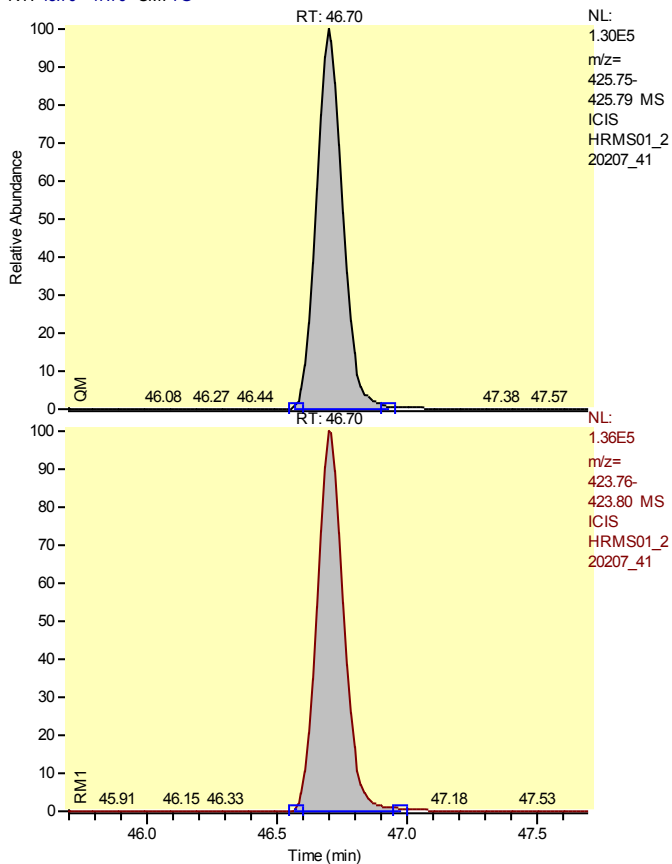
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

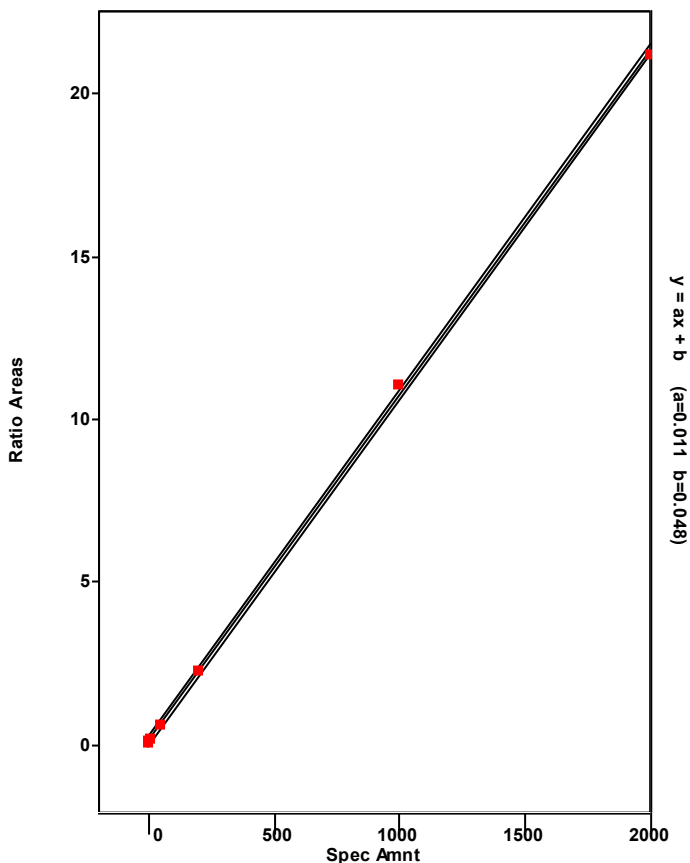
RT: 45.70 - 47.70 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	910340
RM1 Area	965539
RM1 Ratio (A)	1.0606
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.85
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

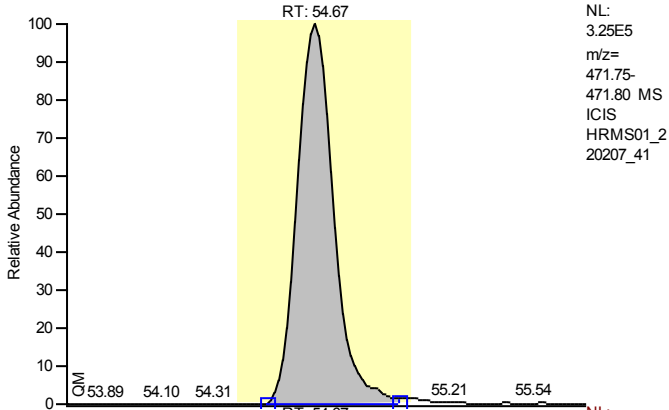
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



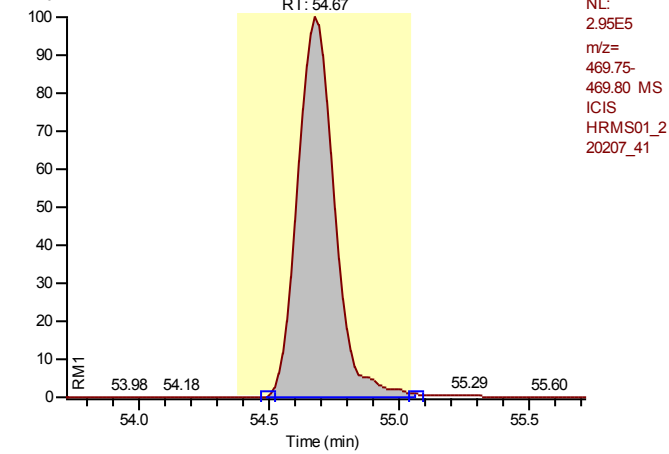
Chromatogram

Entry Parameters

RT: 53.72 - 55.72 SM: 7G

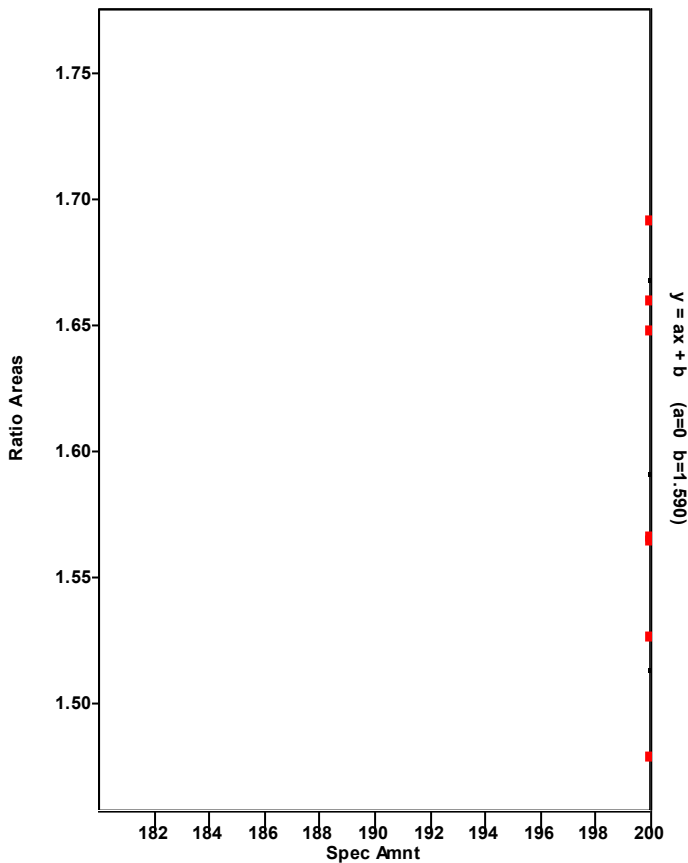


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	3171430
RM1 Area	2914061
RM1 Ratio (A)	0.9188
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	198.24
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

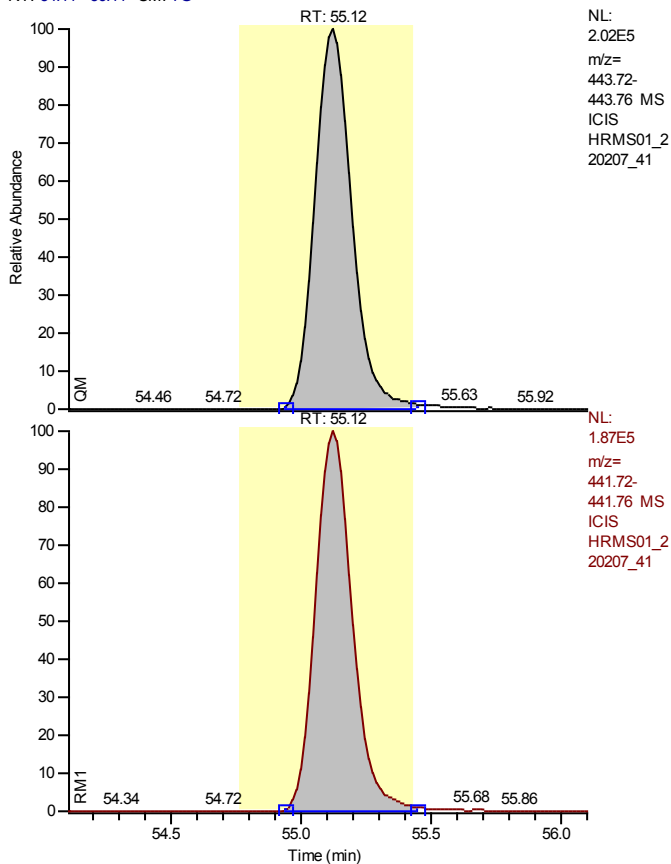
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.11 - 56.11 SM: 7G



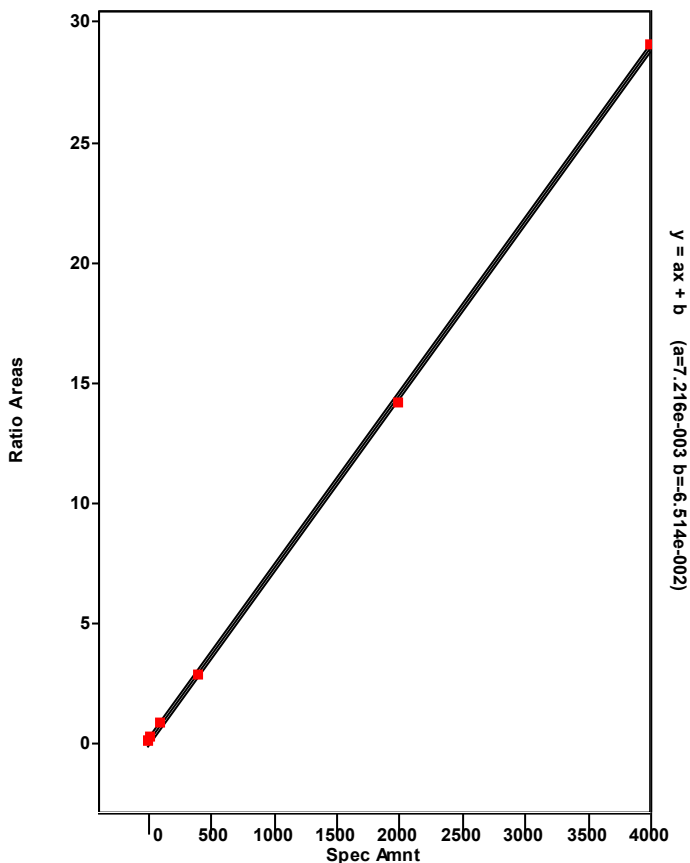
NL:
2.02E5
m/z=
443.72-
443.76 MS
ICIS
HRMS01_2
20207_41

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1984195
RM1 Area	1830765
RM1 Ratio (A)	0.9227
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	89.07
Percent Recovery (A)	89
TEQ (A)	0.0267
Label2	

NL:
1.87E5
m/z=
441.72-
441.76 MS
ICIS
HRMS01_2
20207_41

Calibration Points of Octachlorodibenzofuran

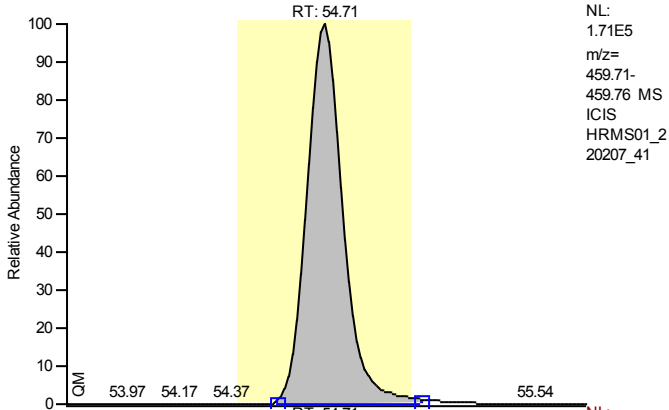
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

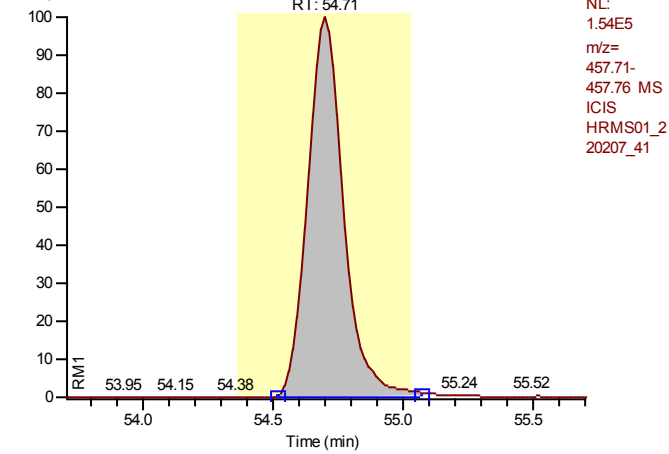
Entry Parameters

RT: 53.71 - 55.71 SM: 7G



NL:
1.71E5
m/z=
459.71-
459.76 MS
ICIS
HRMS01_2
20207_41

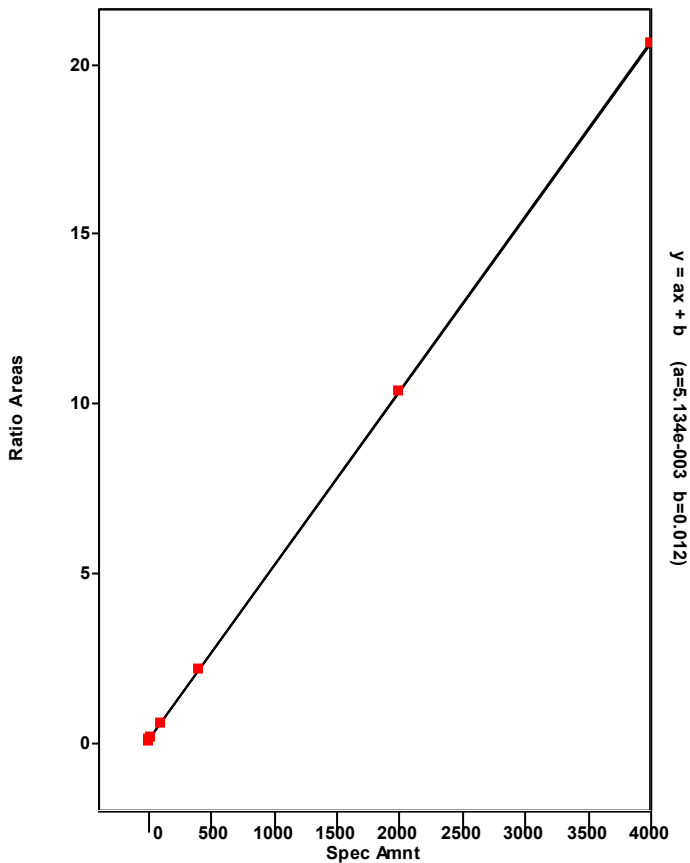
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	1646356
RM1 Area	1476547
RM1 Ratio (A)	0.8969
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	96.86
Percent Recovery (A)	97
TEQ (A)	0.0291
Label2	



NL:
1.54E5
m/z=
457.71-
457.76 MS
ICIS
HRMS01_2
20207_41

Calibration Points of Octachlorodibenzo-p-dioxin

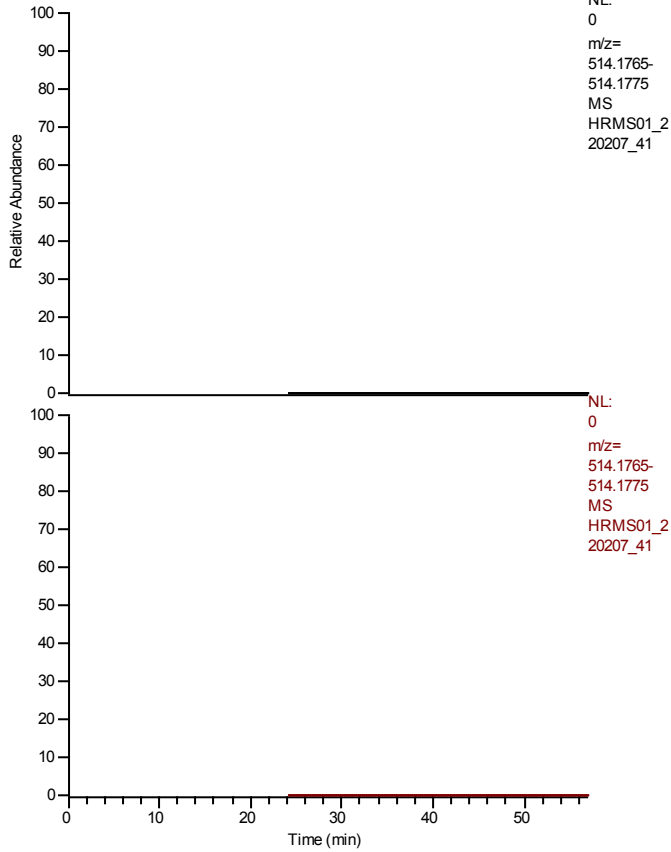
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

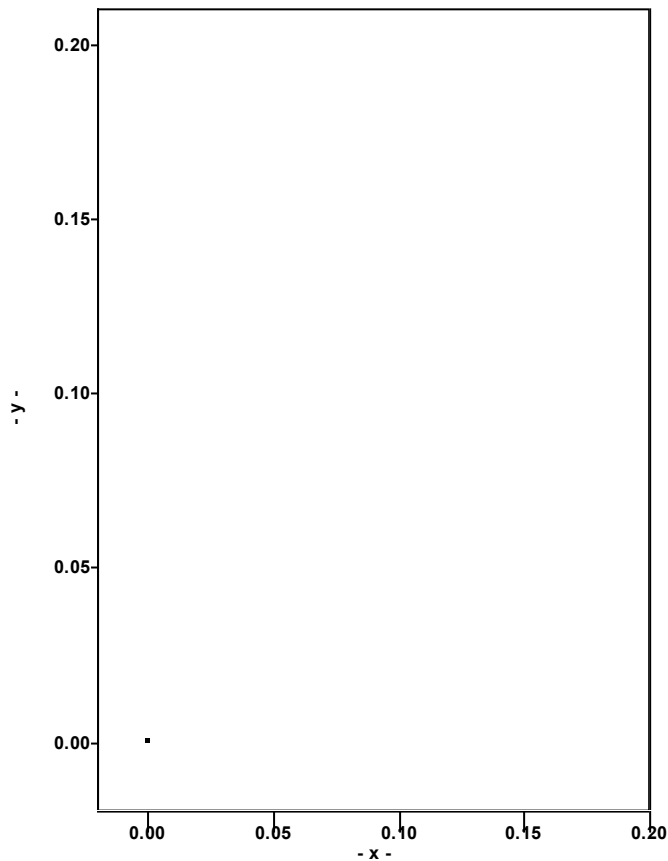
Entry Parameters

RT: 0.00 - 57.00 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	17349675
RM1 Area	20344620
RM1 Ratio (A)	1.1726
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	851.64
Percent Recovery (A)	---
TEQ (A)	113.9169
Label2	

Calibration Points of overall TEQ



Sample Raw Data

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 17:07
Number of Entries	63
Comment	
Vial	115
Sample Name	L2202953-07
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_35_seq
Data	hrms01_220207_35
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1571415	1238568	0.7882	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1724917	1365282	0.7915	0.6500 - 0.8900	100.00	65.05	65	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	16612	15994	0.9628	0.6500 - 0.8900	0.00	n.d. < 1.02	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	83357	66629	0.7633	0.6500 - 0.8900	0.00	4.71	---	0.0000
5	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	25760	21418	0.8314	0.6500 - 0.8900	0.00	1.48	---	0.0000
6	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	16670	15679	0.9406	0.6500 - 0.8900	0.00	n.d. < 1.02	---	n.d.
7	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	11539	7268	0.6299	0.6500 - 0.8900	0.00	n.d. < 0.59	---	n.d.
8	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	15333	10021	0.6536	0.6500 - 0.8900	0.00	0.80	---	0.0000
9	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	3928	4584	1.1670	0.6500 - 0.8900	0.00	n.d. < 0.27	---	n.d.
10	Total Tetrachlorodibenzofuran__7	Single native TCDF	CAS# 55722-27-5	10127	7658	0.7562	0.6500 - 0.8900	0.00	0.56	---	0.0000
11	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1339308	1077081	0.8042	0.6500 - 0.8900	100.00	72.42	72	0.0000
12	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
13	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	12212	4450	---	0.6500 - 0.8900	0.00	---	---	---
14	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	12212	4450	0.3644	0.6500 - 0.8900	0.00	n.d. < 0.63	---	n.d.
15	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1016755	1620447	1.5937	1.3200 - 1.7800	100.00	67.94	68	0.0000
16	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	24072	42724	1.7749	1.3200 - 1.7800	0.00	2.52	---	0.0755
17	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	60556	99916	1.6500	1.3200 - 1.7800	0.00	5.74	---	0.0000
18	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	24114	42601	1.7667	1.3200 - 1.7800	0.00	2.39	---	0.0000
19	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	15150	26922	1.7770	1.3200 - 1.7800	0.00	1.51	---	0.0000
20	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	21291	30393	1.4275	1.3200 - 1.7800	0.00	1.85	---	0.0000
21	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1031991	1670876	1.6191	1.3200 - 1.7800	100.00	69.83	70	0.0000
22	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
23	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		767110	1180955	1.5395	1.3200 - 1.7800	100.00	74.18	74	0.0000
24	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
25	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
26	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		333208	333208	1.0000	0.8500 - 1.1500	10.00	9.84	98	0.0000
27	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1168710	1579813	1.3518	1.0500 - 1.4300	100.00	100.00	100	0.0000
28	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1642005	892779	0.5437	0.4300 - 0.5900	100.00	80.17	80	0.0000
29	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	61784	76882	1.2444	1.0500 - 1.4300	0.00	4.39	---	0.4388
30	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	100418	128948	1.2841	1.0500 - 1.4300	0.00	7.13	---	0.0000
31	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	61784	76882	1.2444	1.0500 - 1.4300	0.00	4.31	---	0.0000
32	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	18974	25984	1.3695	1.0500 - 1.4300	0.00	1.40	---	0.0000
33	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	19661	26082	1.3266	1.0500 - 1.4300	0.00	1.42	---	0.0000
34	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1654919	866558	0.5236	0.4300 - 0.5900	100.00	72.15	72	0.0000
35	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
36	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1670418	823119	0.4928	0.4300 - 0.5900	100.00	73.82	74	0.0000
37	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
38	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1531682	820598	0.5357	0.4300 - 0.5900	100.00	72.63	73	0.0000

HRMS01_220207_35_seq aquired 2022/02/08 17:07

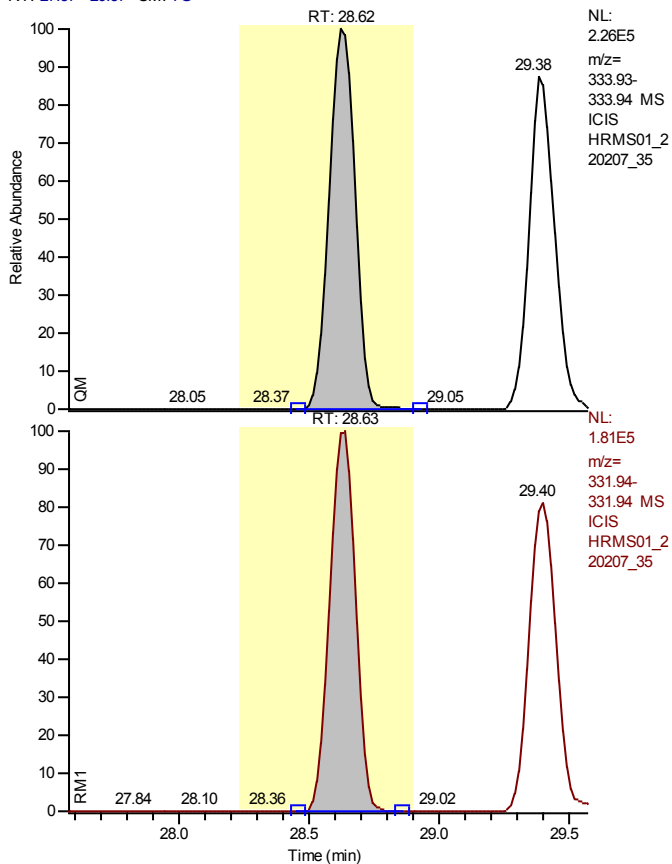
SampleName: L2202953-07 Id: HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613 Comment:
 Study: Client:

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)	
39		1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
40	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	13C12 STD	811692	1042827	1.2848	1.0500 - 1.4300	100.00	76.53	77	0.0000	
41		1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
42		Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	37475	41907	1.1183	1.0500 - 1.4300	0.00	3.84	---	0.0000
43		Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	19463	21588	1.1092	1.0500 - 1.4300	0.00	1.99	---	0.0000
44		Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	18012	20319	1.1281	1.0500 - 1.4300	0.00	1.85	---	0.0000
45	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	13C12 STD	819589	1052993	1.2848	1.0500 - 1.4300	100.00	77.28	77	0.0000	
46		1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
47		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
48	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	13C12 STD	1439487	648839	0.4507	0.3700 - 0.5100	100.00	67.28	67	0.0000	
49		1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	65713	66967	1.0191	0.8800 - 1.2000	0.00	4.71	---	0.0471
50		Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	136555	142802	1.0457	0.8800 - 1.2000	0.00	10.41	---	0.0000
51		Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	70841	75835	1.0705	0.8800 - 1.2000	0.00	5.47	---	0.0000
52		Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	65713	66967	1.0191	0.8800 - 1.2000	0.00	4.95	---	0.0000
53	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	13C12 STD	1347836	622619	0.4619	0.3700 - 0.5100	100.00	68.51	69	0.0000	
54		1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
55	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	13C12 STD	958893	978055	1.0200	0.8800 - 1.2000	100.00	78.72	79	0.0000	
56		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	172148	174202	1.0119	0.8800 - 1.2000	0.00	16.13	---	0.1613
57		Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	379489	387569	1.0213	0.8800 - 1.2000	0.00	35.73	---	0.0000
58		Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	207341	213367	1.0291	0.8800 - 1.2000	0.00	19.60	---	0.0000
59		Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	172148	174202	1.0119	0.8800 - 1.2000	0.00	16.13	---	0.0000
60	13C12-Octachlorodibenzo-p-dioxin	OCDD	13C12 STD	1557484	1513996	0.9721	0.7600 - 1.0200	200.00	140.60	70	0.0000	
61		Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	104107	91185	0.8759	0.7600 - 1.0200	0.00	9.03	---	0.0027
62		Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	1254328	1105270	0.8812	0.7600 - 1.0200	0.00	145.00	---	0.0435
63		overall TEQ	overall TEQ test		1682151	1557231	0.9257	0.0000 - 0.0000	0.00	181.78	---	0.7689

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

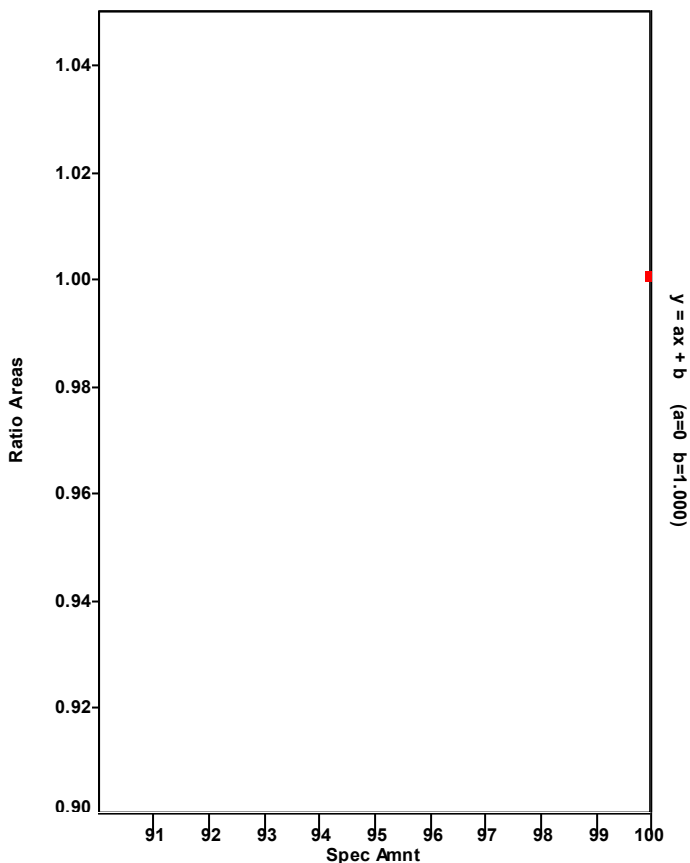


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1571415
RM1 Area	1238568
RM1 Ratio (A)	0.7882
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

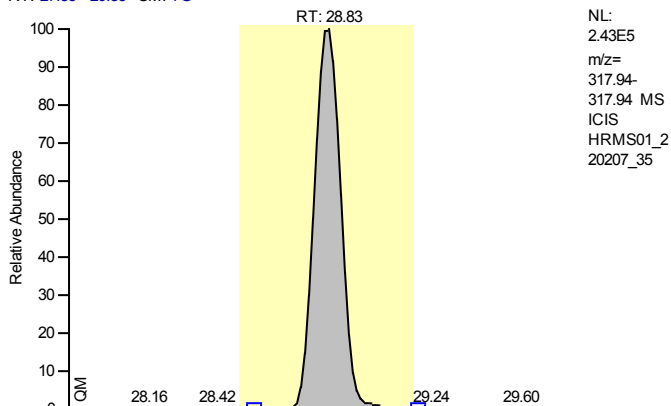
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



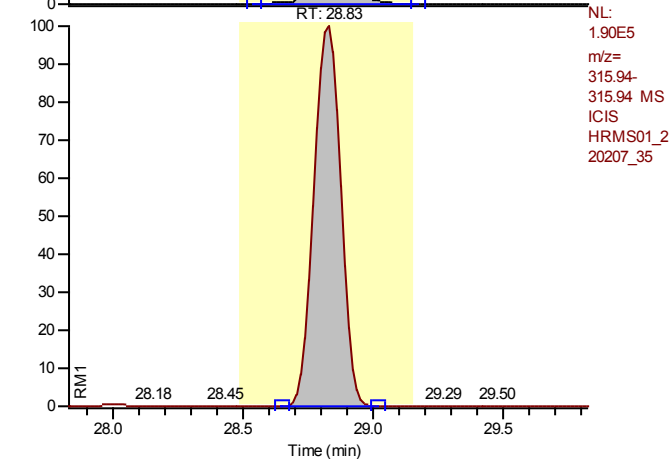
Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G



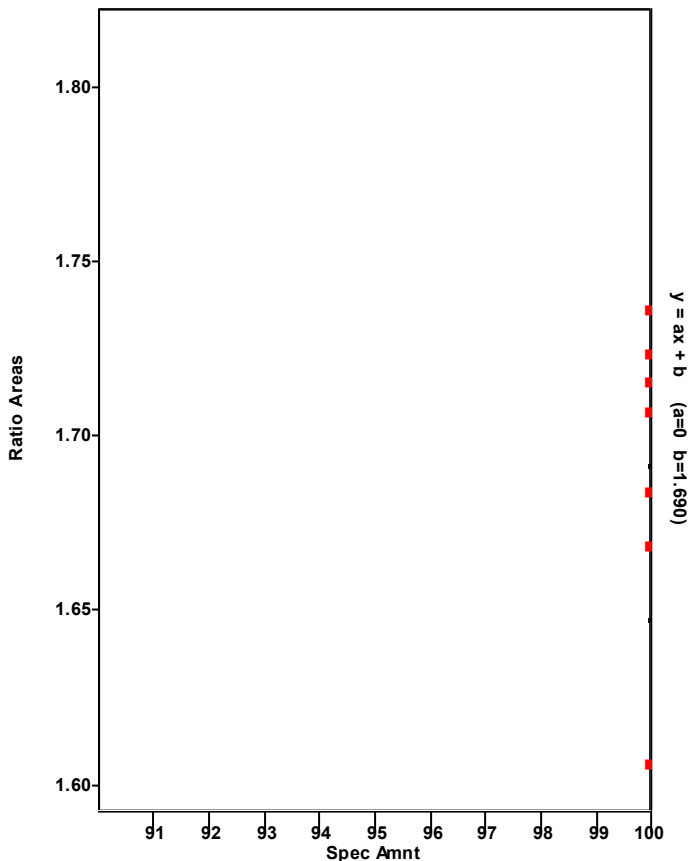
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1724917
RM1 Area	1365282
RM1 Ratio (A)	0.7915
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	65.05
Percent Recovery (A)	65
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

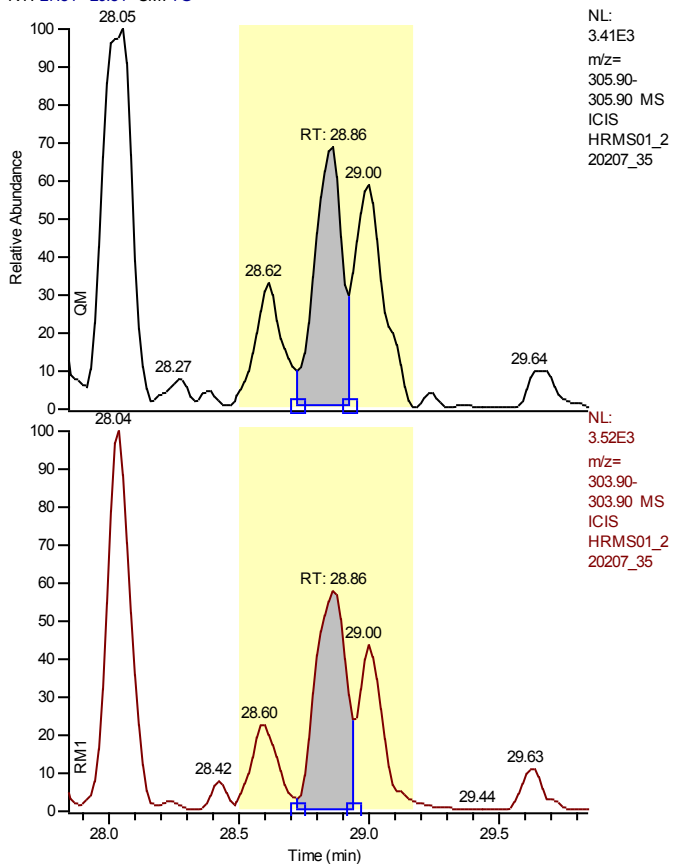
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



NL:
 3.41E3
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_35

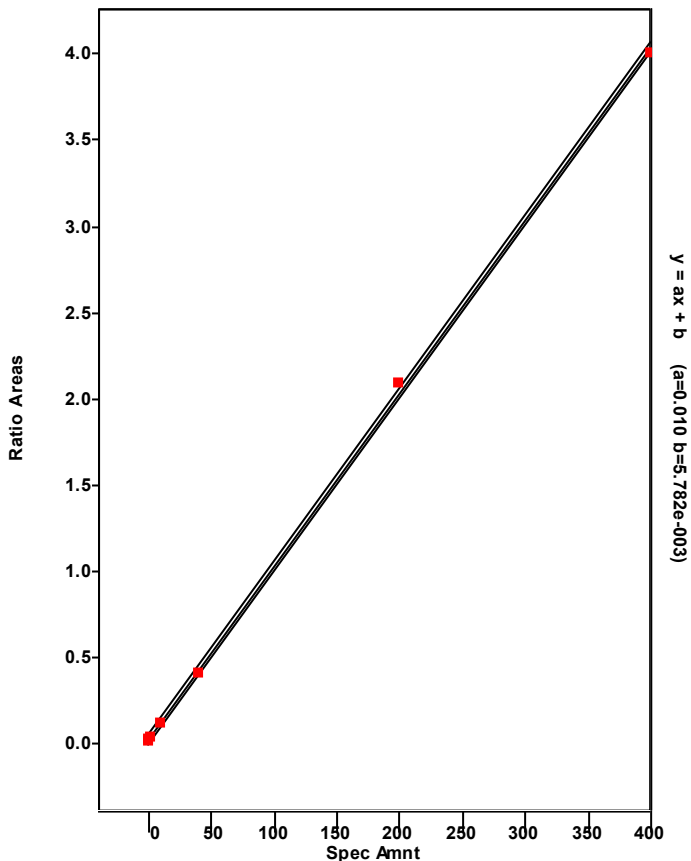
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	16612
RM1 Area	15994
RM1 Ratio (A)	0.9628
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 1.02
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

NL:
 3.52E3
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

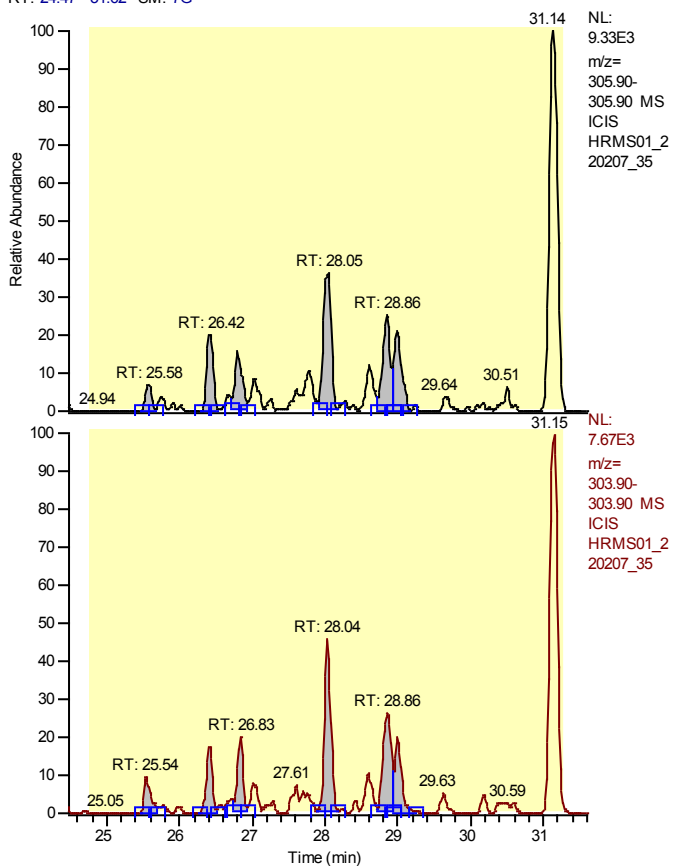
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.47 - 31.62 SM: 7G

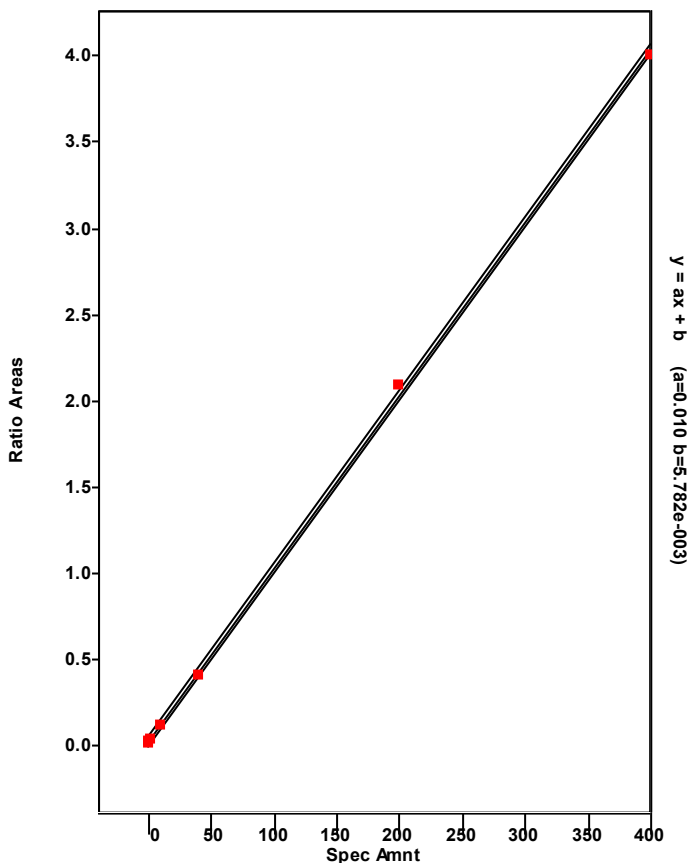


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	83357
RM1 Area	66629
RM1 Ratio (A)	0.7633
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.71
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

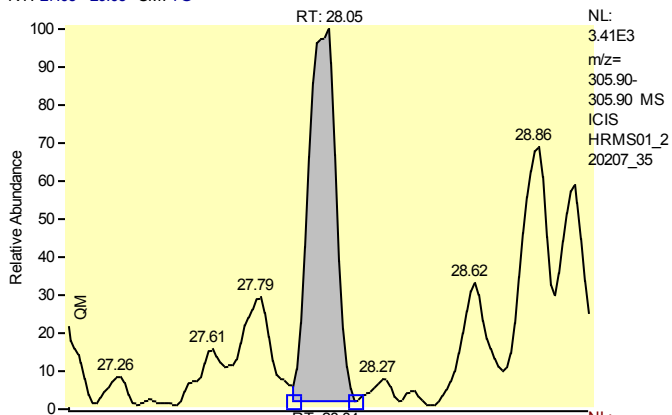
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



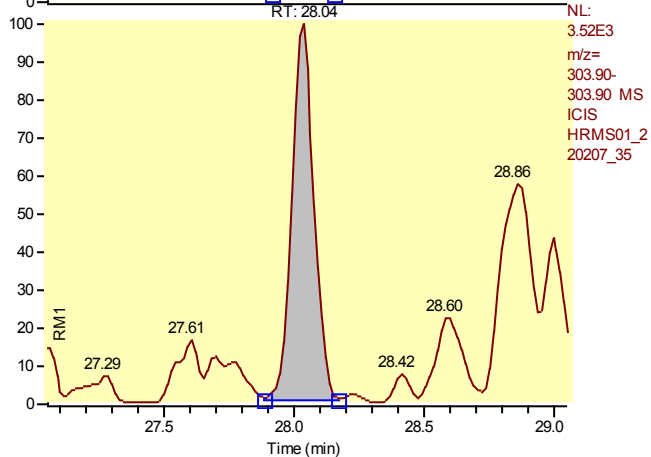
Chromatogram

Entry Parameters

RT: 27.05 - 29.05 SM: 7G



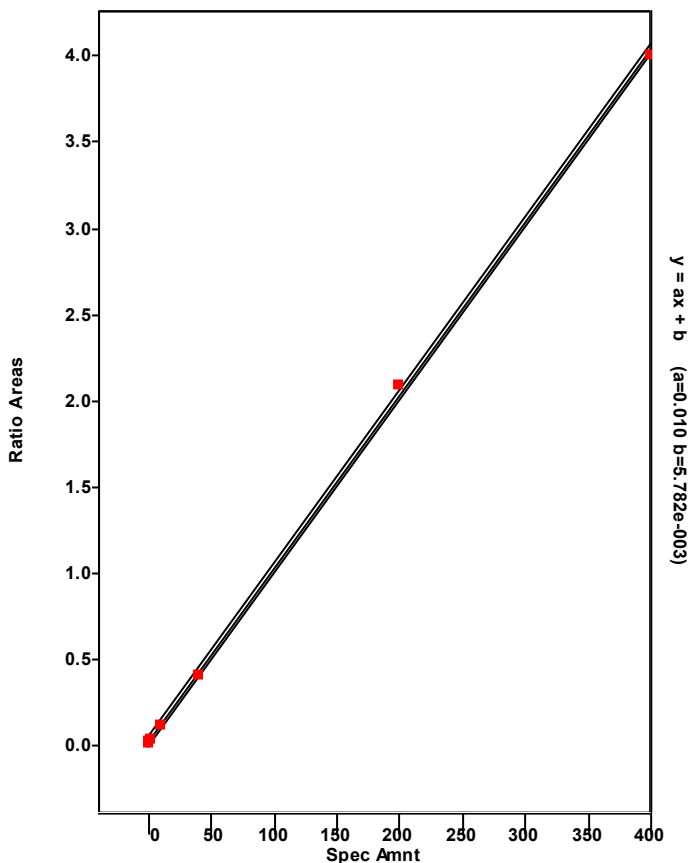
Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	25760
RM1 Area	21418
RM1 Ratio (A)	0.8314
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.48
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

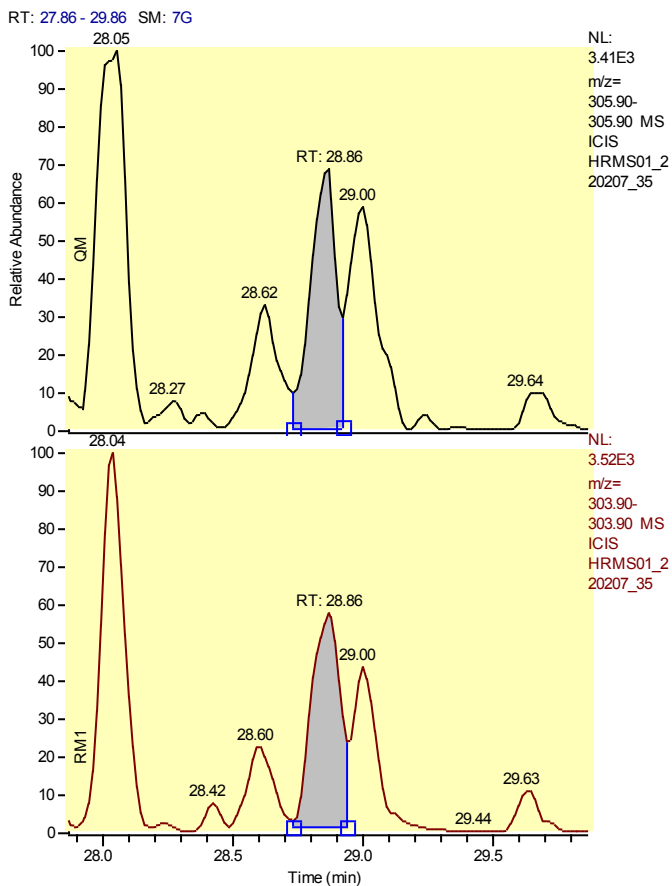
Calibration Points of Total Tetrachlorodibenzofuran__2

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

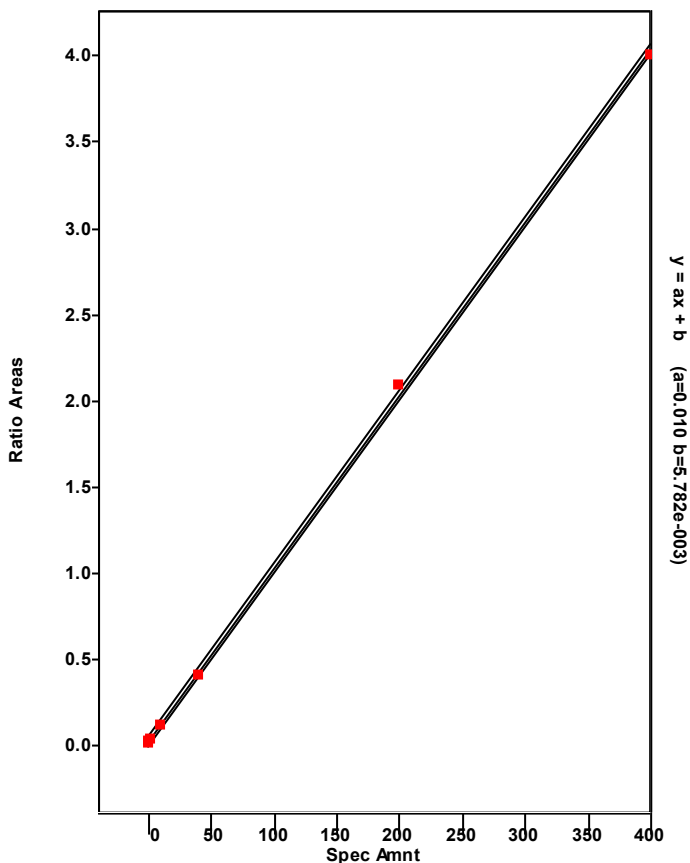


Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	16670
RM1 Area	15679
RM1 Ratio (A)	0.9406
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 1.02
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

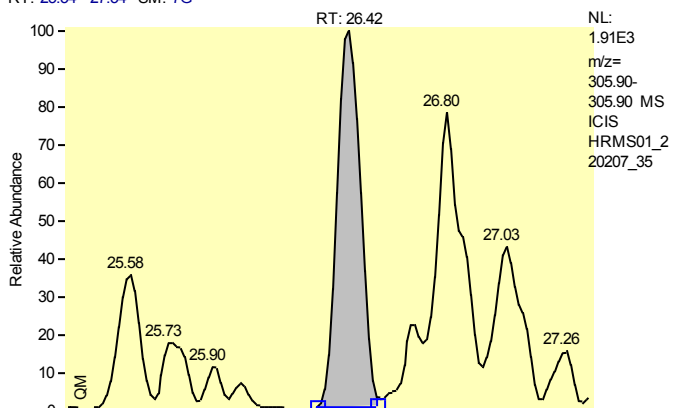
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



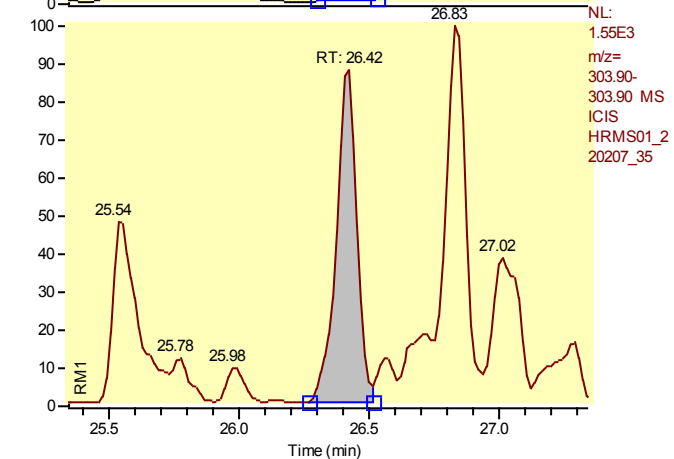
Chromatogram

Entry Parameters

RT: 25.34 - 27.34 SM: 7G



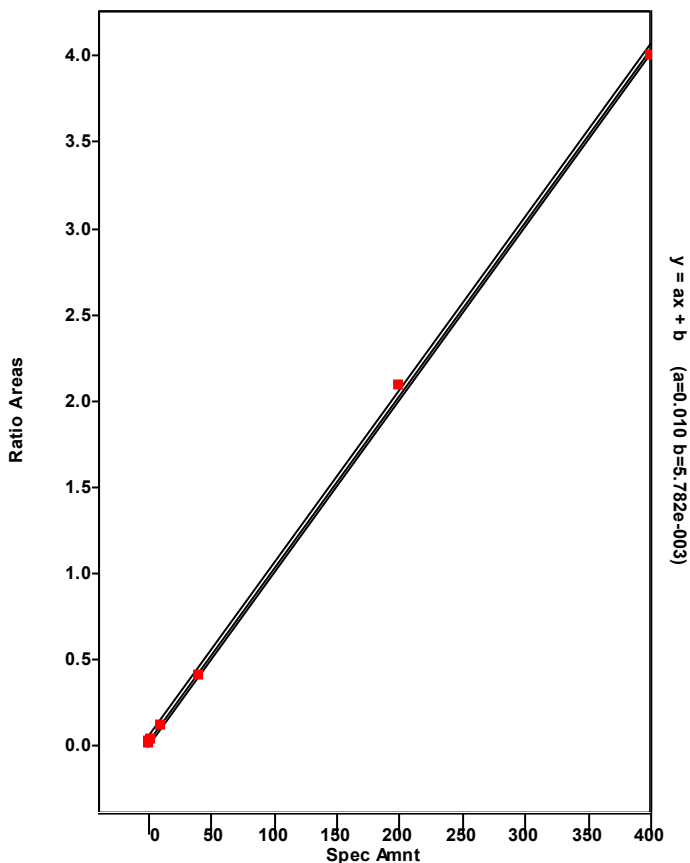
Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	11539
RM1 Area	7268
RM1 Ratio (A)	0.6299
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.59
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Total Tetrachlorodibenzofuran__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__4

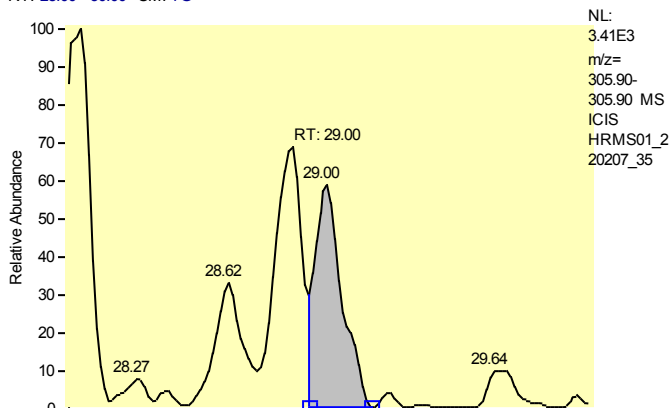
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



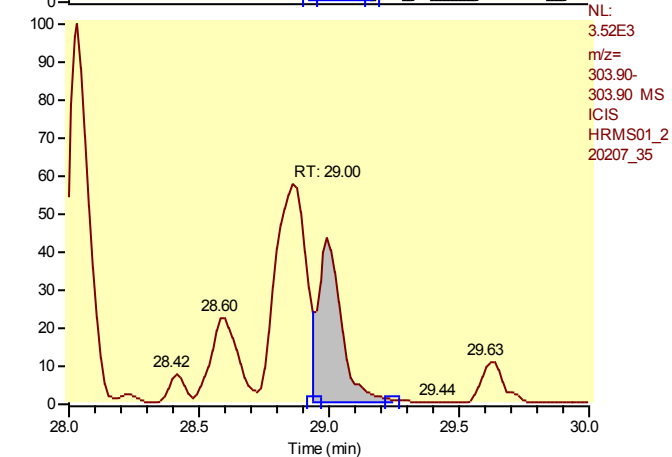
Chromatogram

Entry Parameters

RT: 28.00 - 30.00 SM: 7G



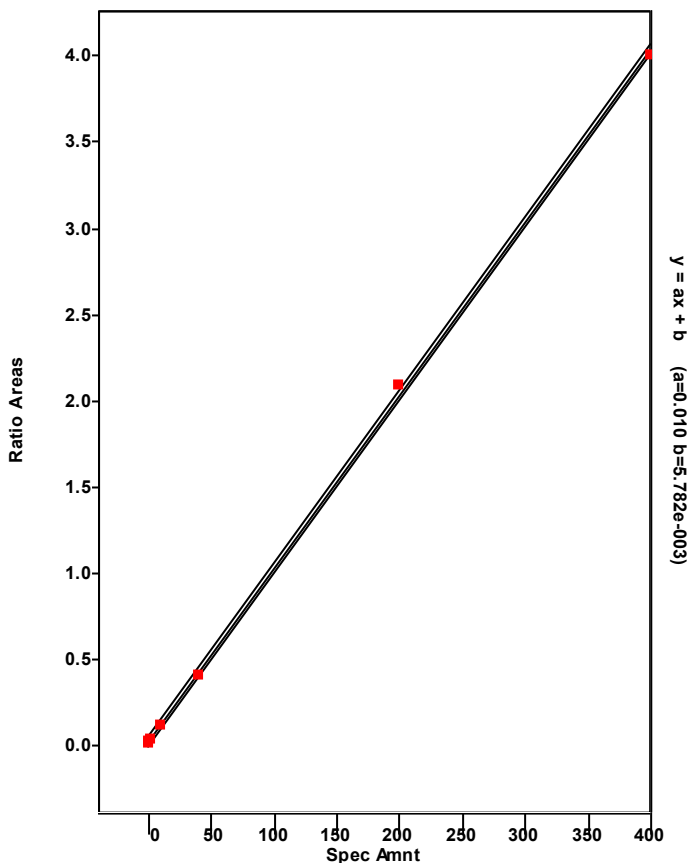
Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	15333
RM1 Area	10021
RM1 Ratio (A)	0.6536
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.80
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__5

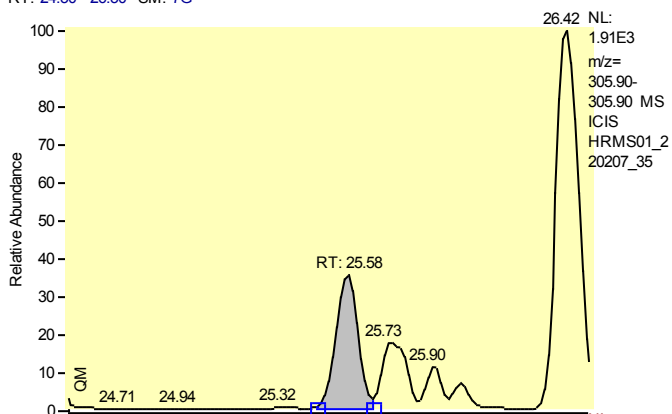
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



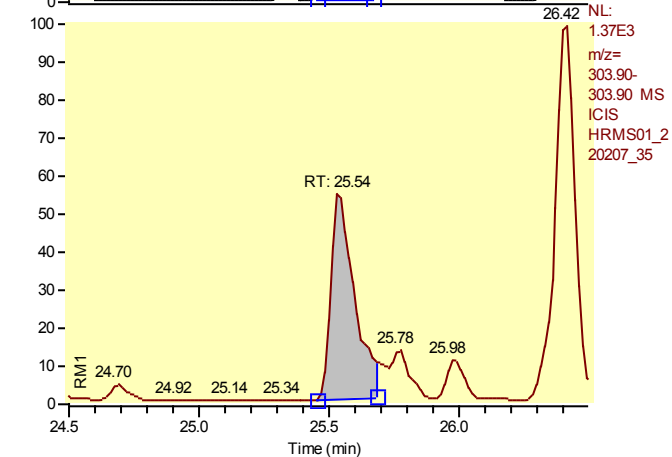
Chromatogram

Entry Parameters

RT: 24.50 - 26.50 SM: 7G



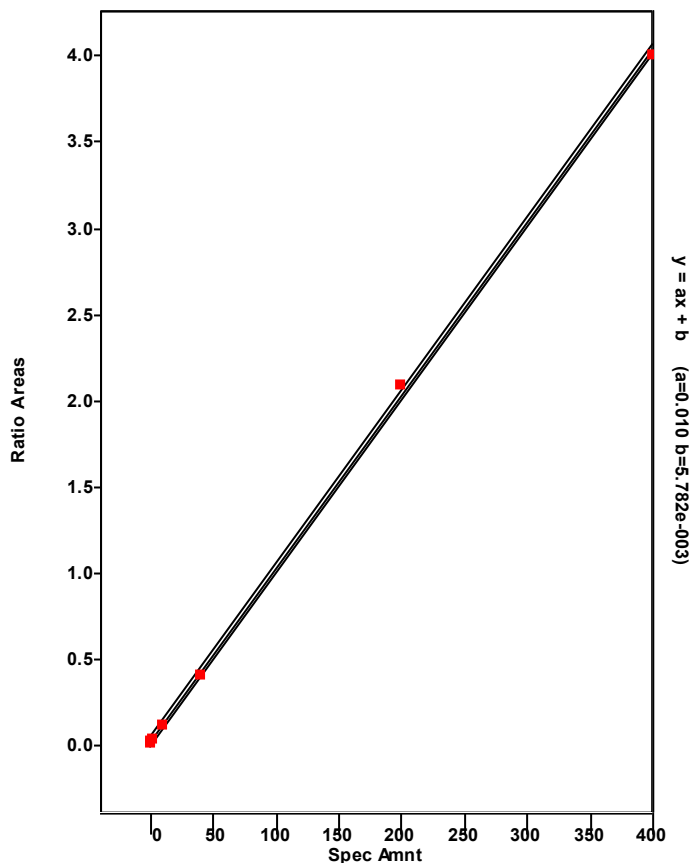
Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	3928
RM1 Area	4584
RM1 Ratio (A)	1.1670
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.27
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Total Tetrachlorodibenzofuran__6 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

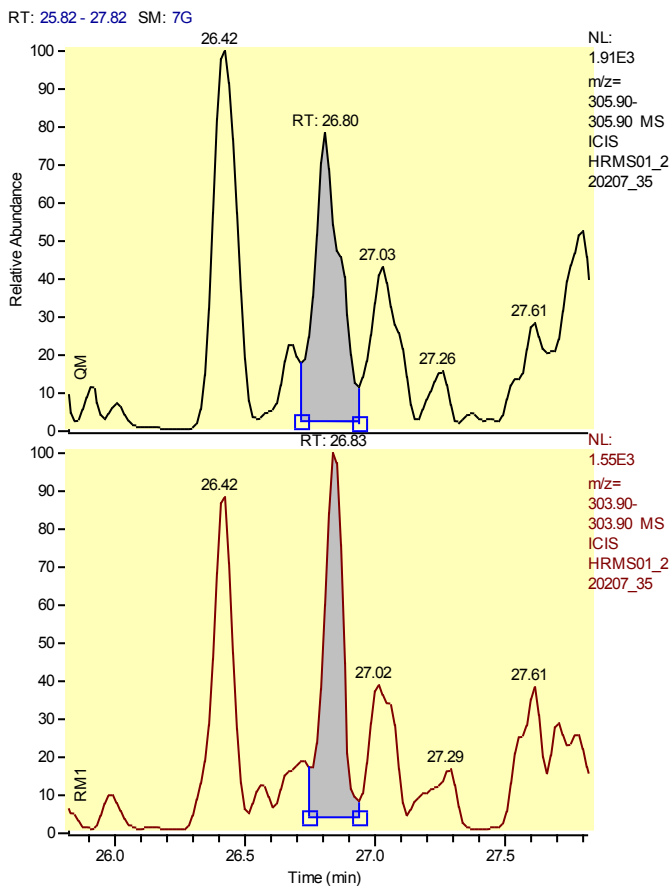
Calibration Points of Total Tetrachlorodibenzofuran__6

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

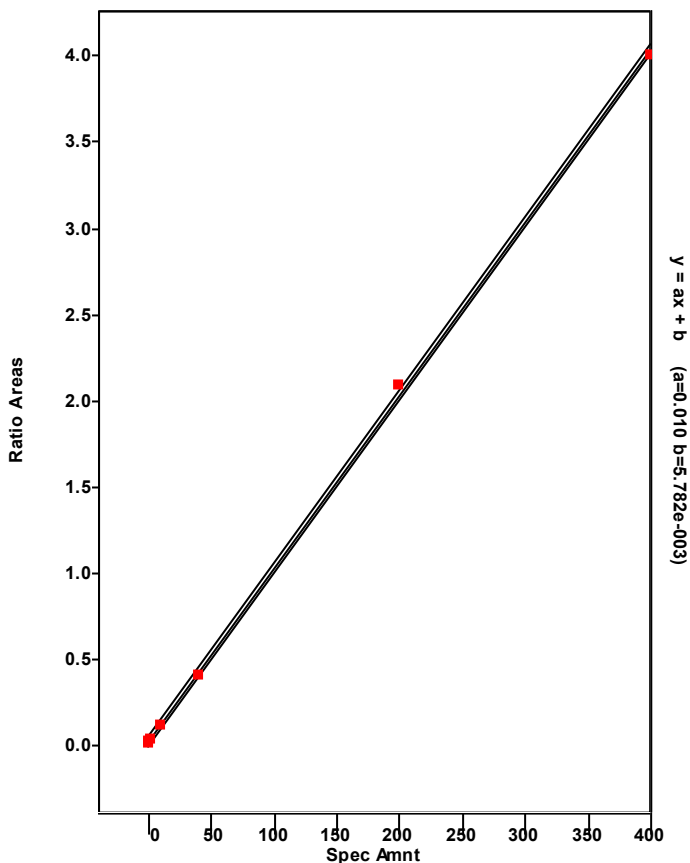


Entry Identifier	Total Tetrachlorodibenzofuran__7
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	10127
RM1 Area	7658
RM1 Ratio (A)	0.7562
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.56
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__7 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__7

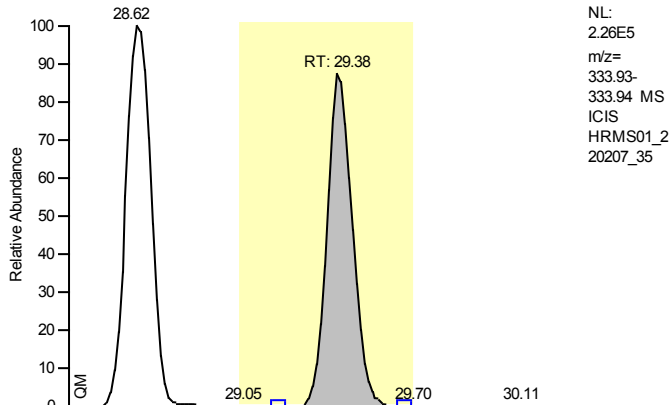
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

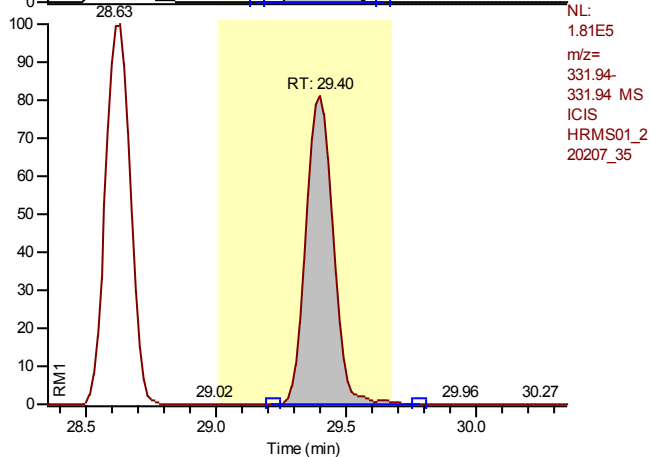
Entry Parameters

RT: 28.35 - 30.35 SM: 7G



NL:
 2.26E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1339308
RM1 Area	1077081
RM1 Ratio (A)	0.8042
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	72.42
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

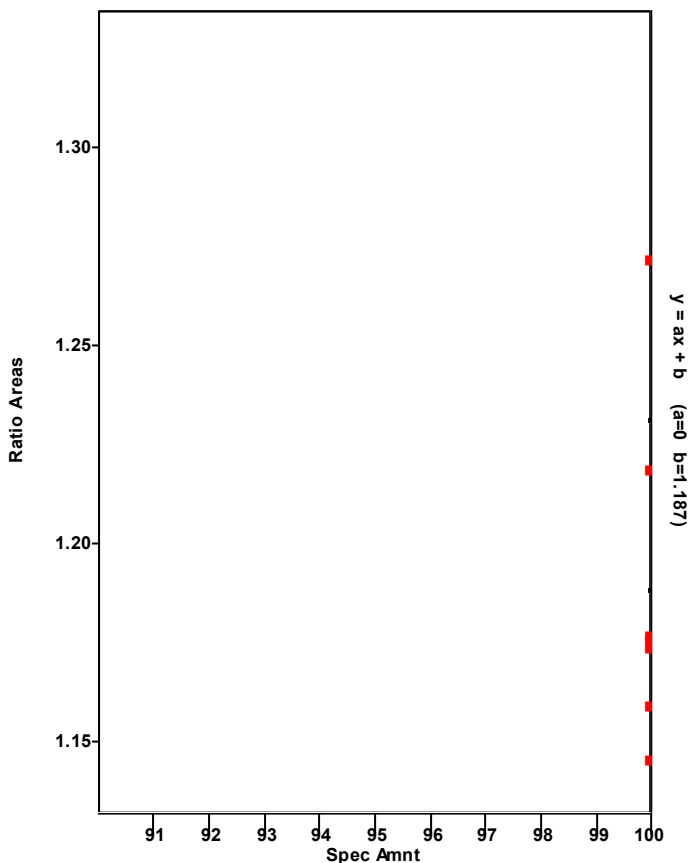


NL:
 1.81E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

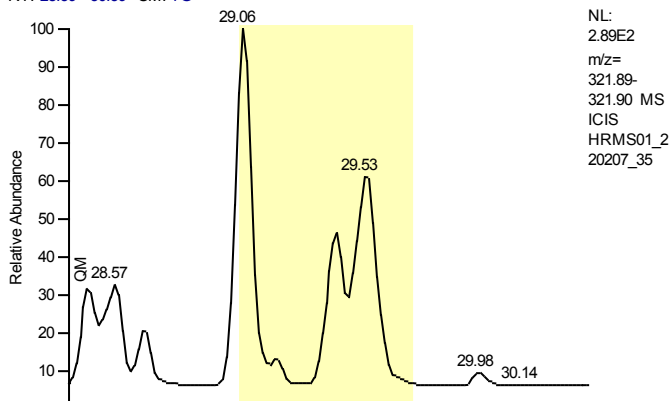
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



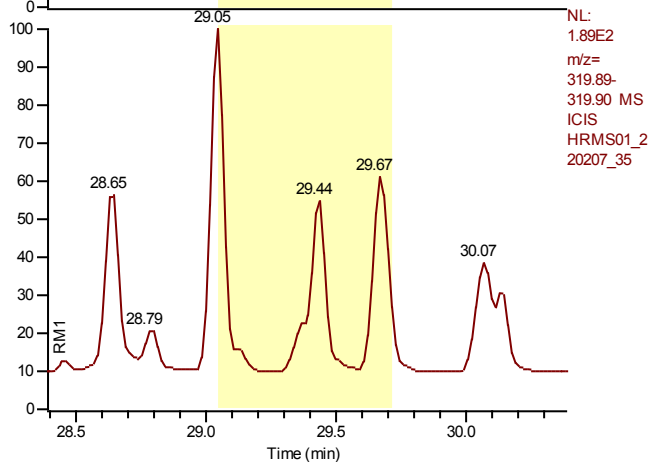
Chromatogram

Entry Parameters

RT: 28.39 - 30.39 SM: 7G



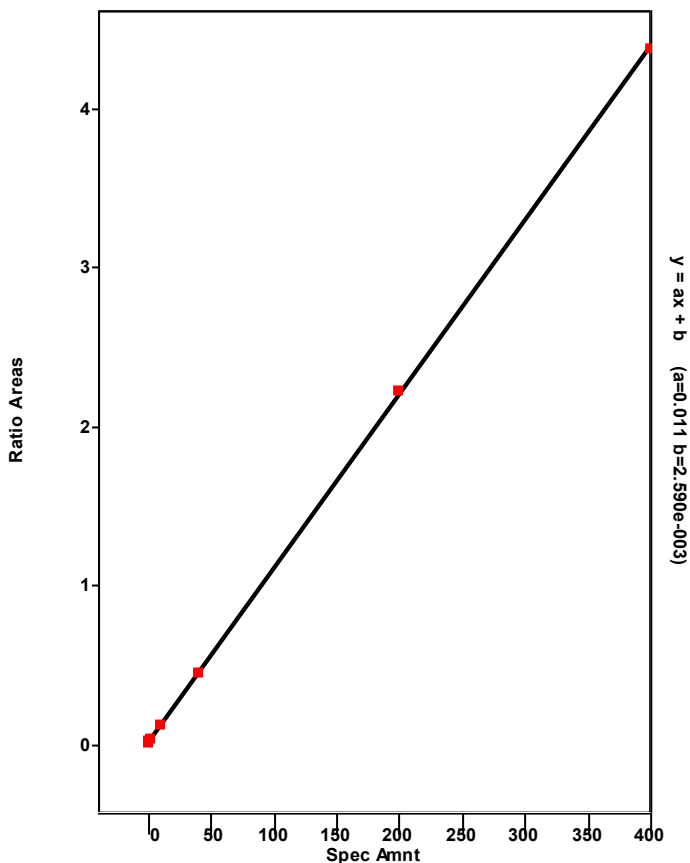
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

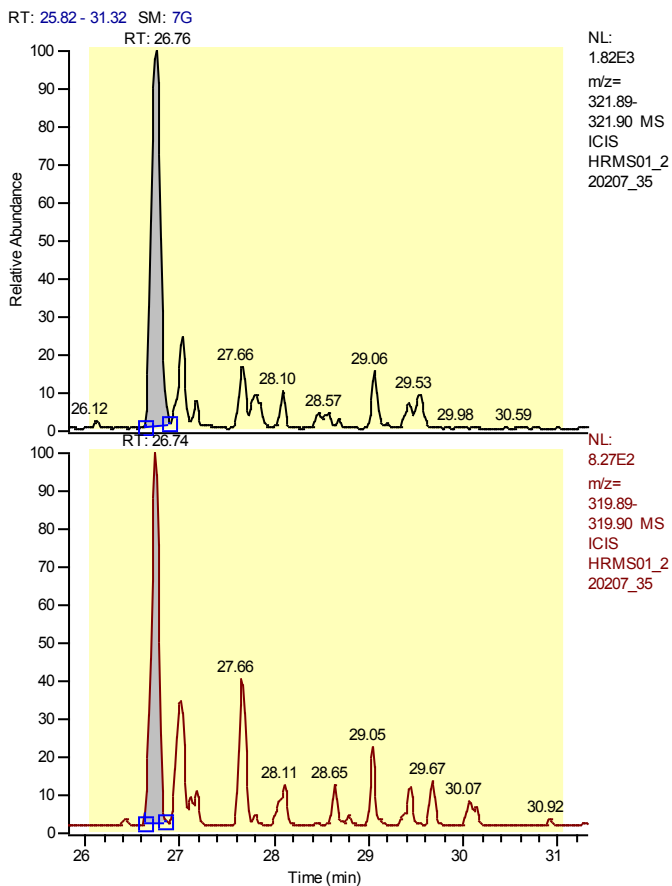
Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

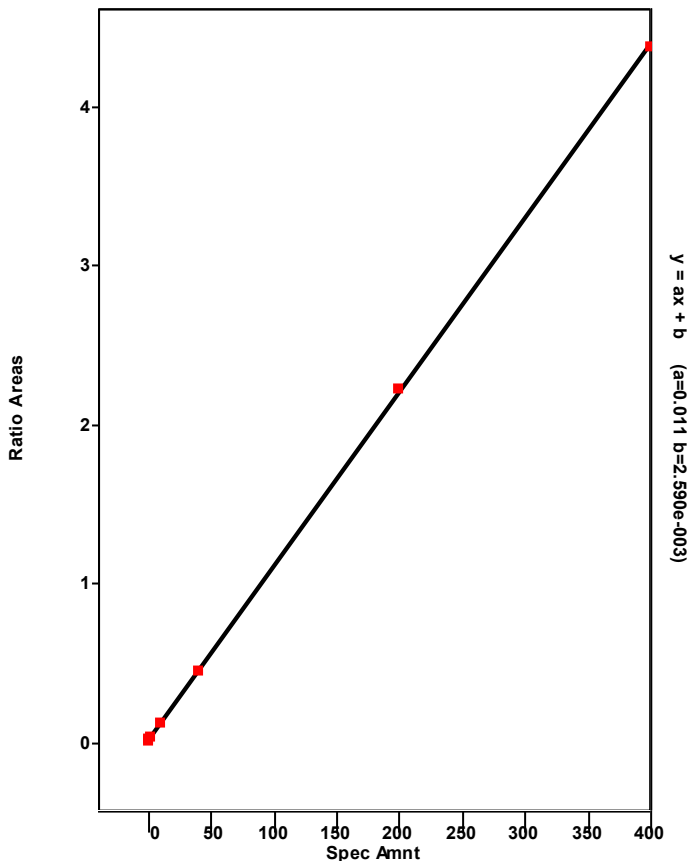


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	12212
RM1 Area	4450
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

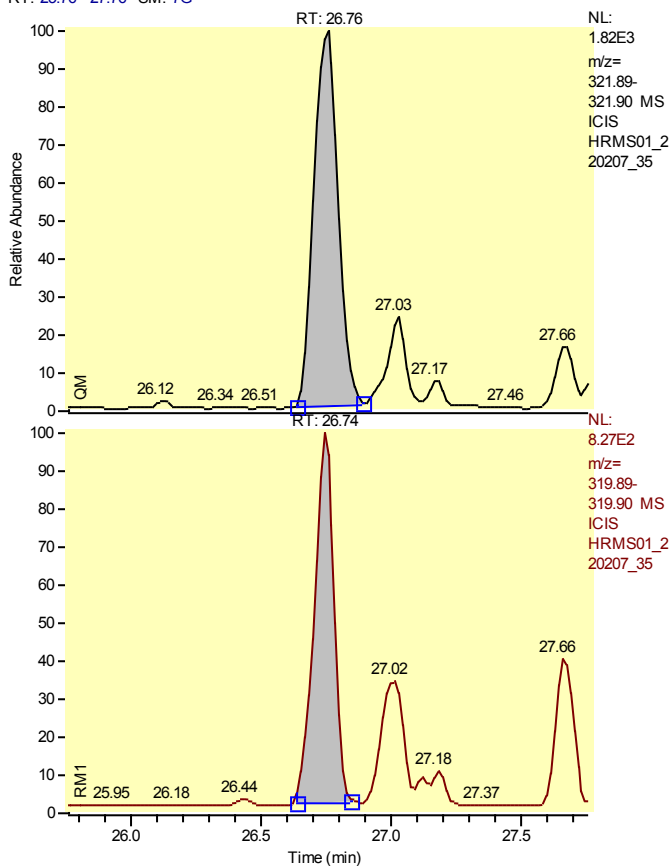
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.76 - 27.76 SM: 7G

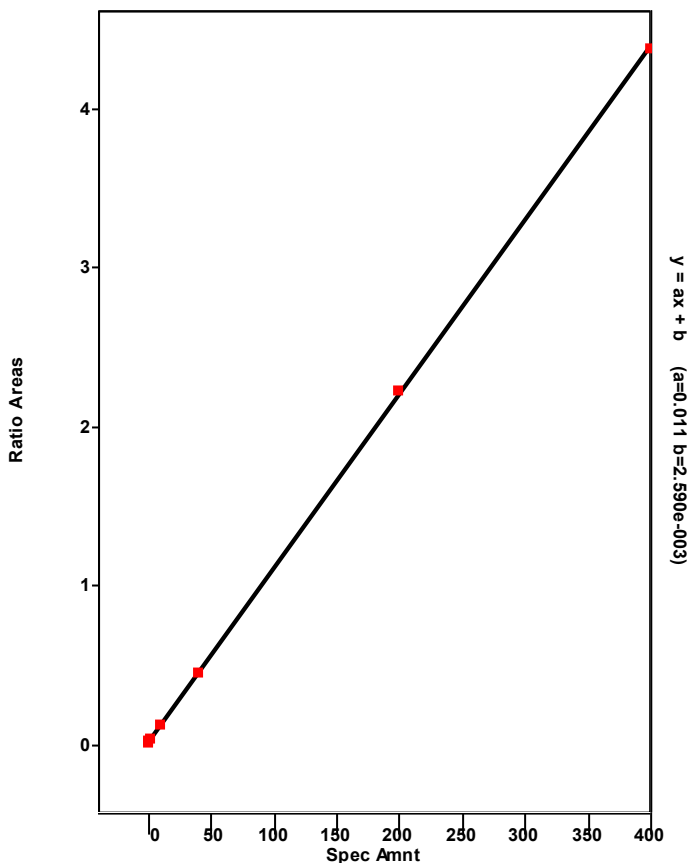


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	12212
RM1 Area	4450
RM1 Ratio (A)	0.3644
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.63
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

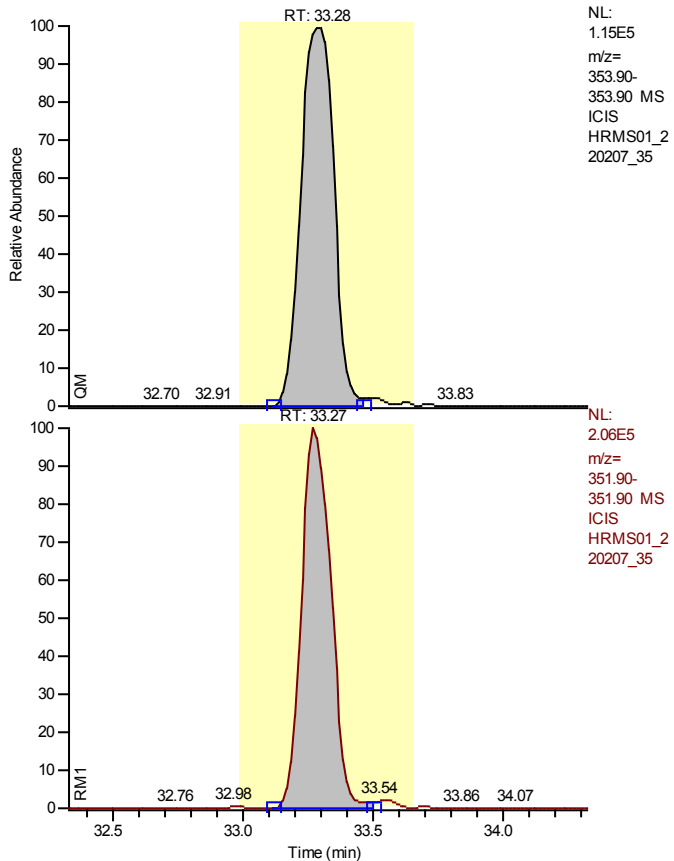
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.32- 34.32 SM: 7G



NL:
 1.15E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_35

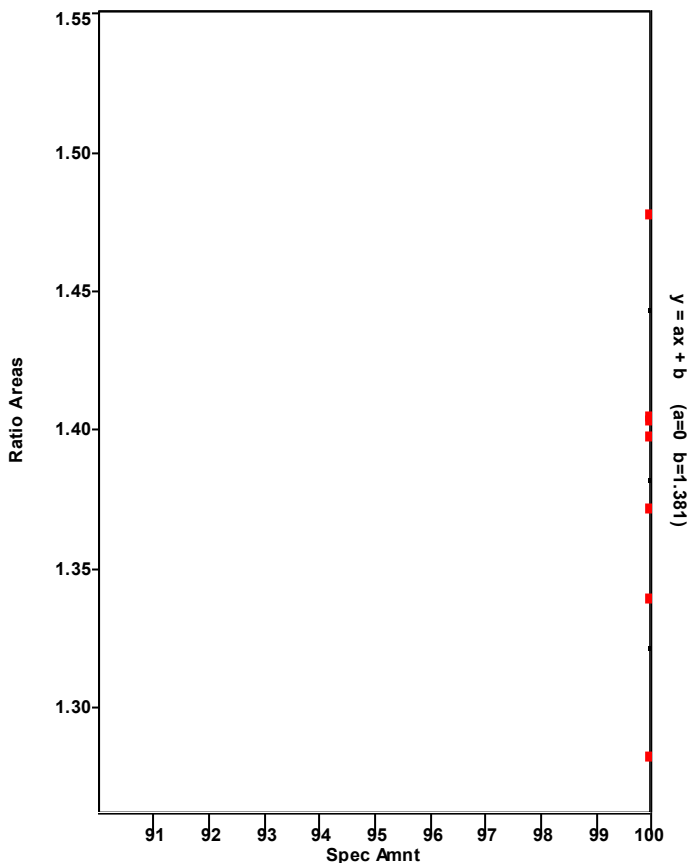
NL:
 2.06E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1016755
RM1 Area	1620447
RM1 Ratio (A)	1.5937
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	67.94
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

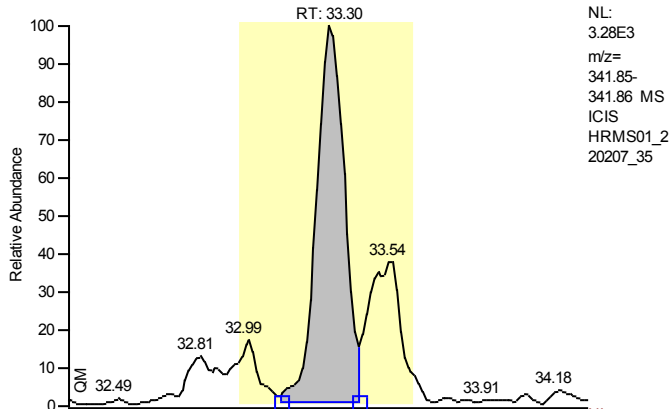
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

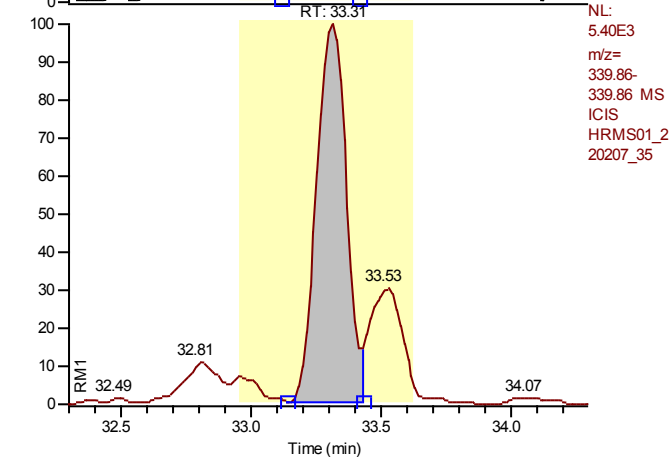
Entry Parameters

RT: 32.29 - 34.29 SM: 7G



NL:
 3.28E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	24072
RM1 Area	42724
RM1 Ratio (A)	1.7749
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.52
Percent Recovery (A)	---
TEQ (A)	0.0755
Label2	

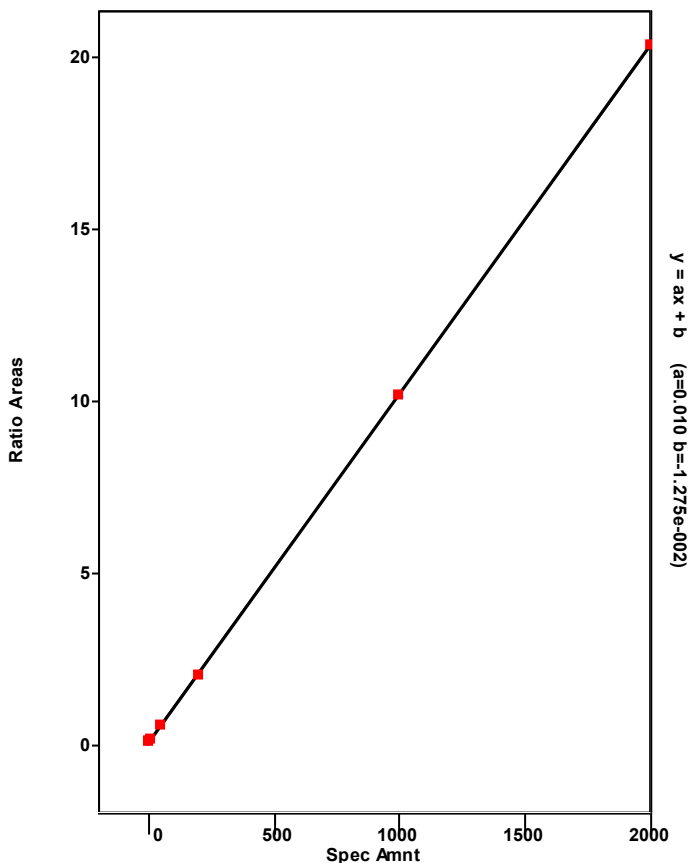


NL:
 5.40E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

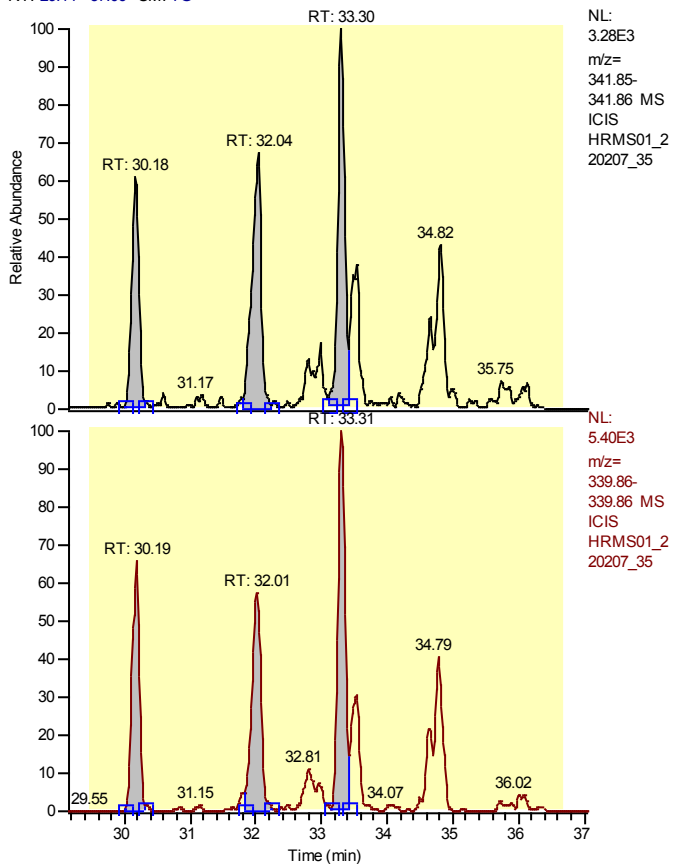
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.14 - 37.06 SM: 7G

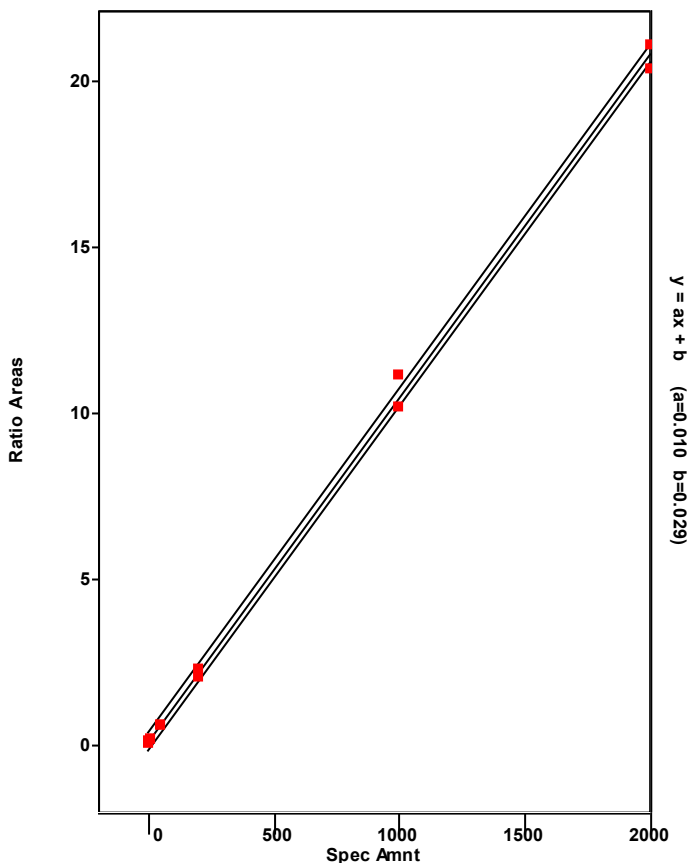


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	60556
RM1 Area	99916
RM1 Ratio (A)	1.6500
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.74
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

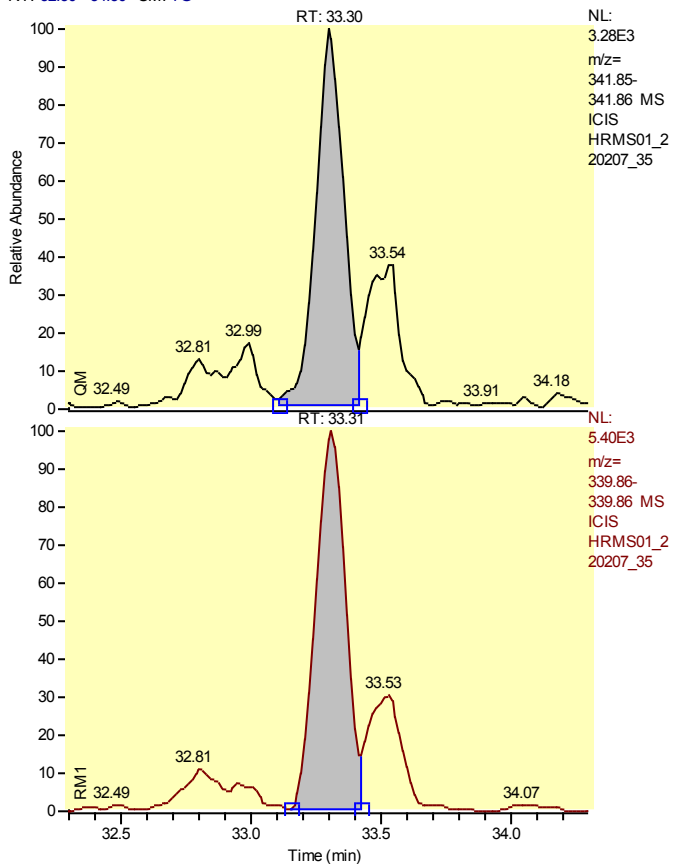
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G

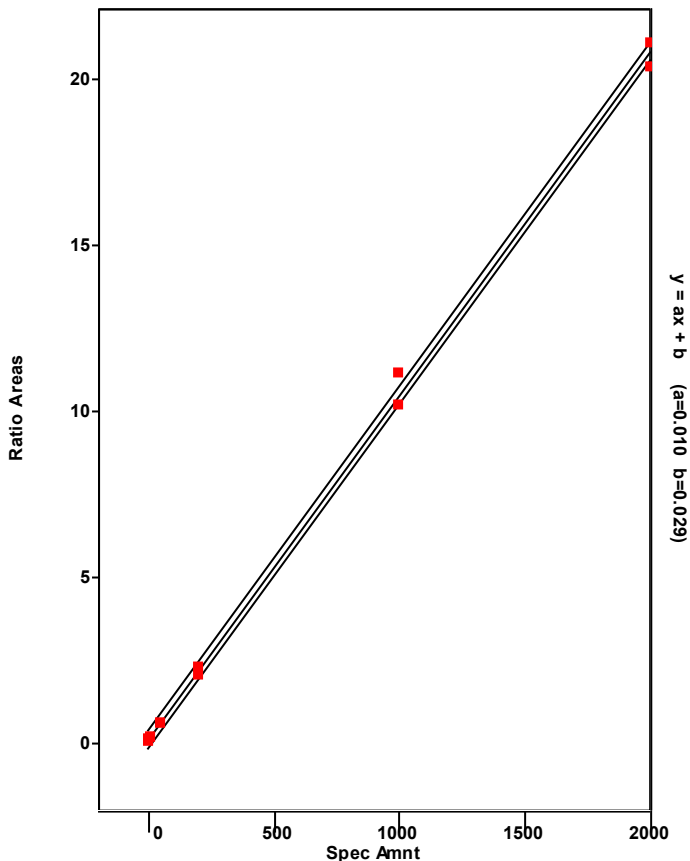


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	24114
RM1 Area	42601
RM1 Ratio (A)	1.7667
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

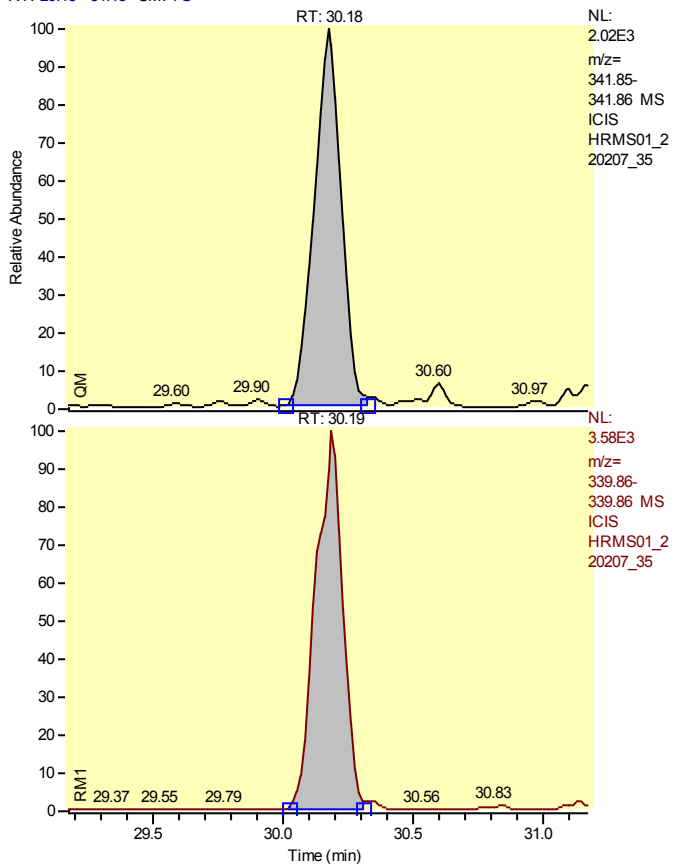
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 29.18 - 31.18 SM: 7G

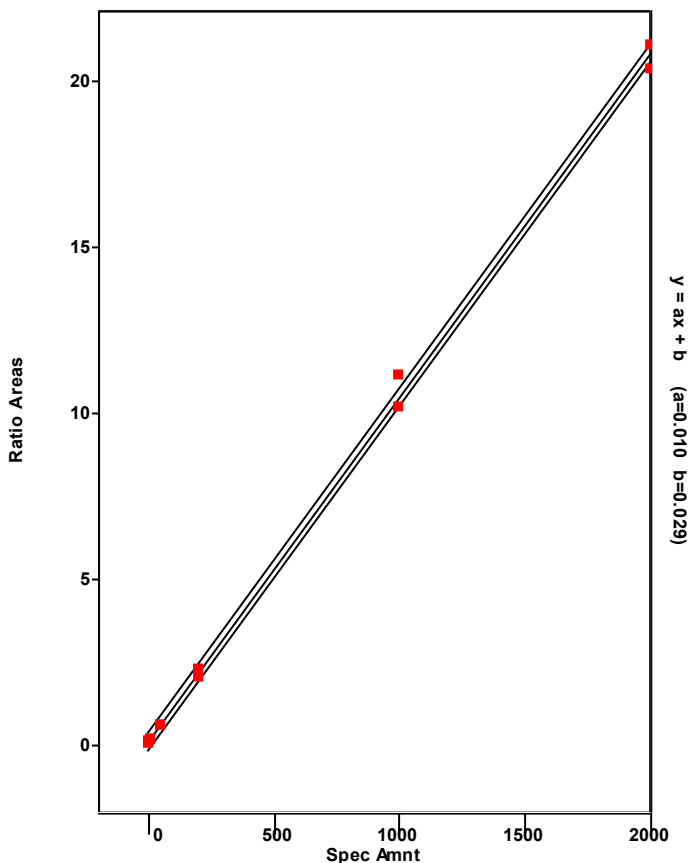


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	15150
RM1 Area	26922
RM1 Ratio (A)	1.7770
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.51
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

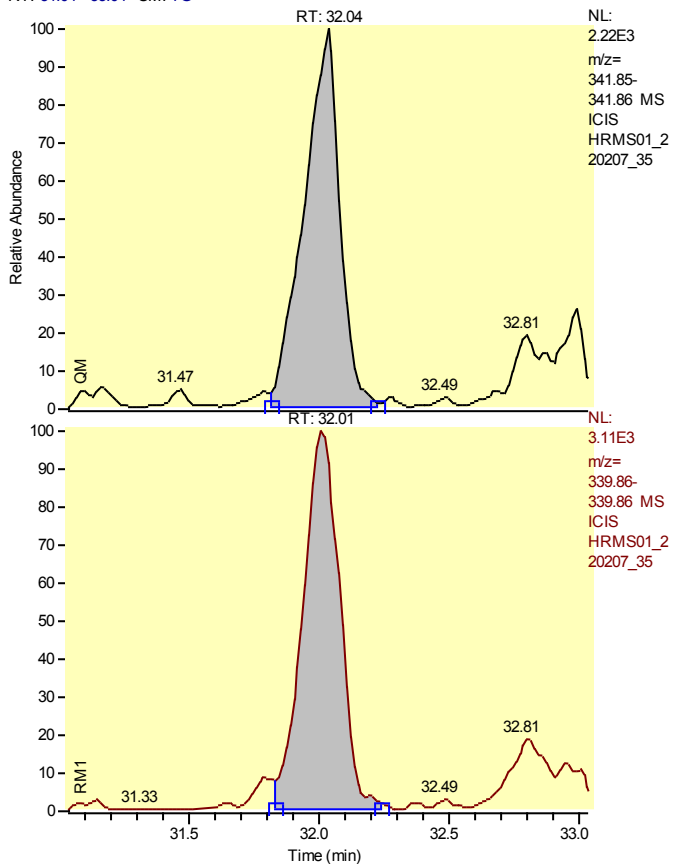
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 31.04 - 33.04 SM: 7G

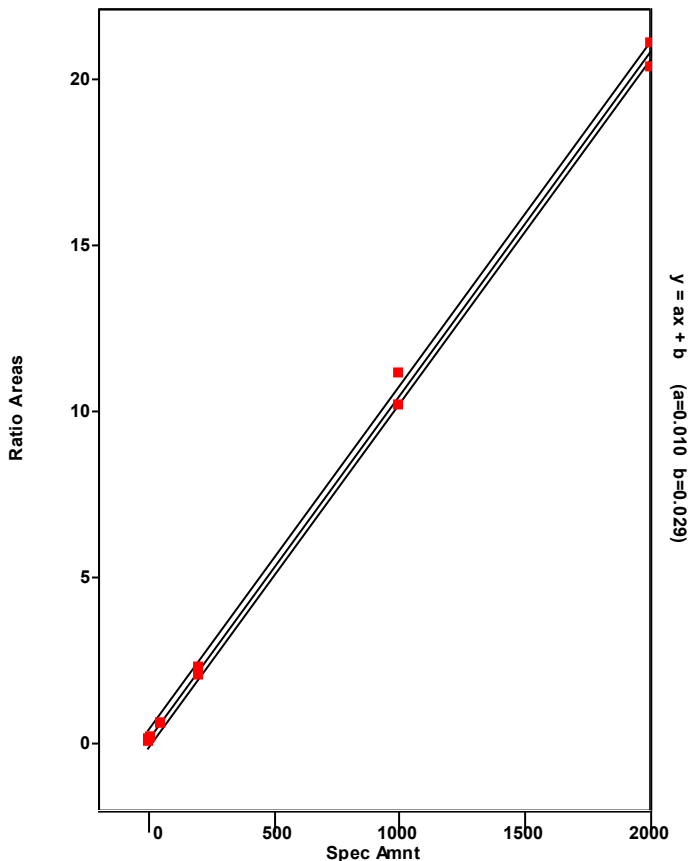


Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	21291
RM1 Area	30393
RM1 Ratio (A)	1.4275
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.85
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

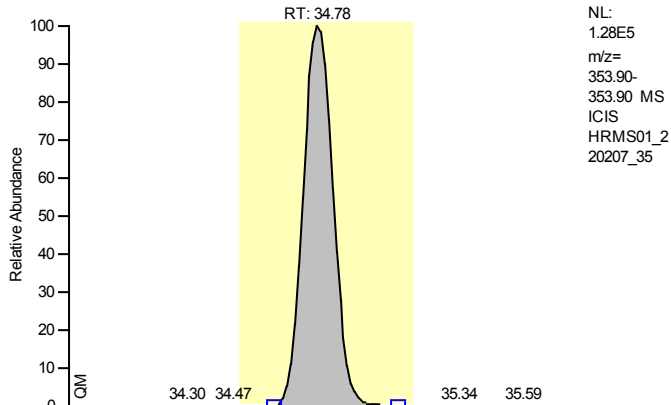
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



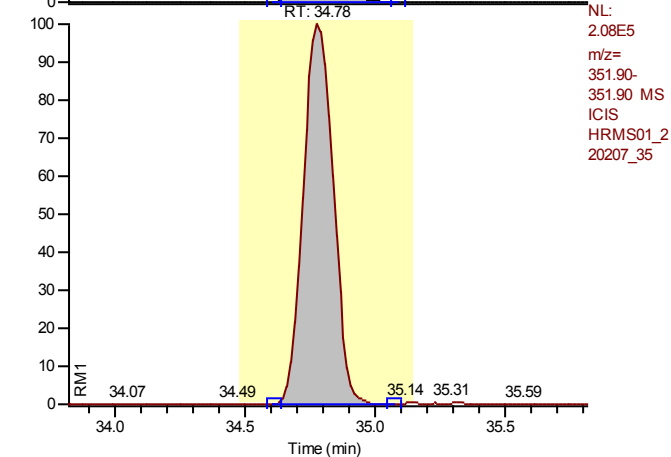
Chromatogram

Entry Parameters

RT: 33.82 - 35.82 SM: 7G



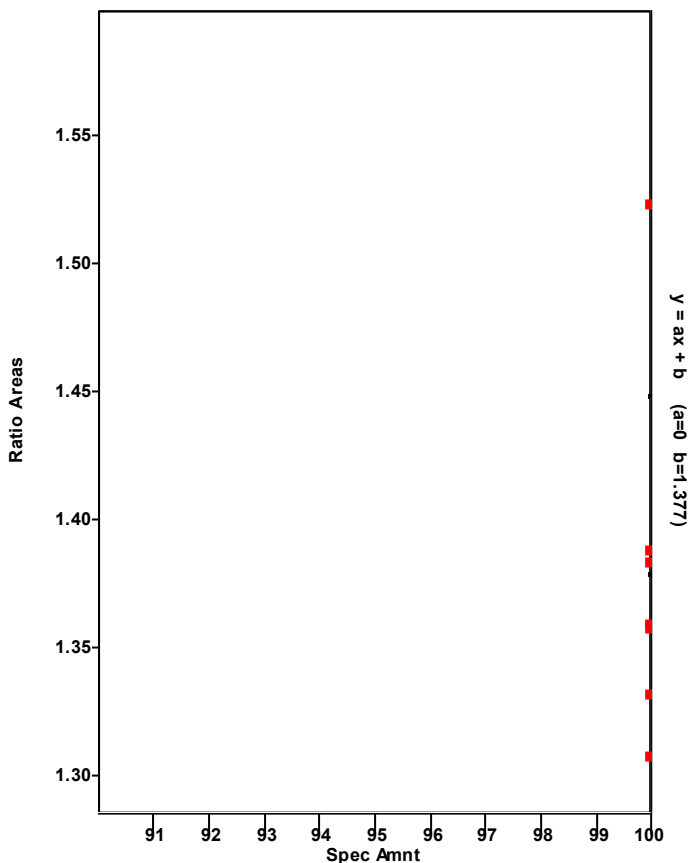
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1031991
RM1 Area	1670876
RM1 Ratio (A)	1.6191
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	69.83
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

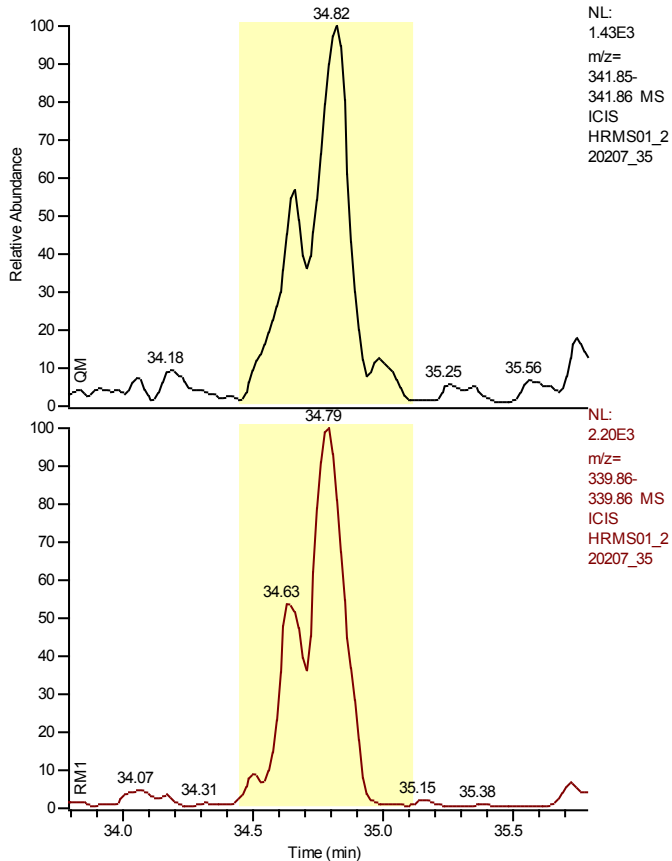
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.79 - 35.79 SM: 7G

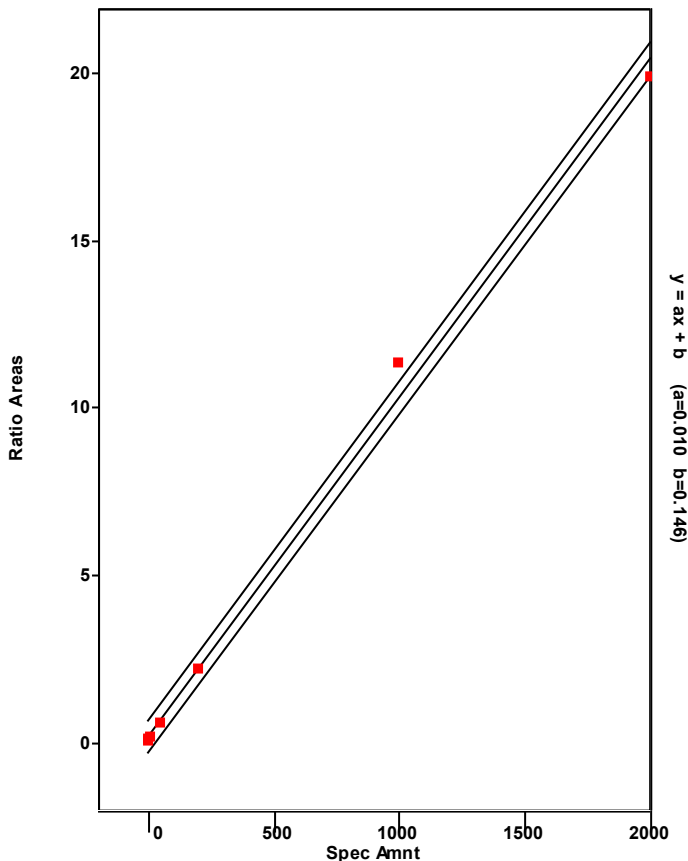


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

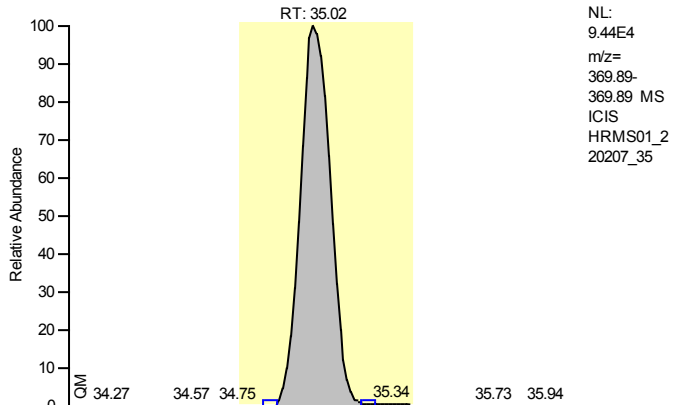
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



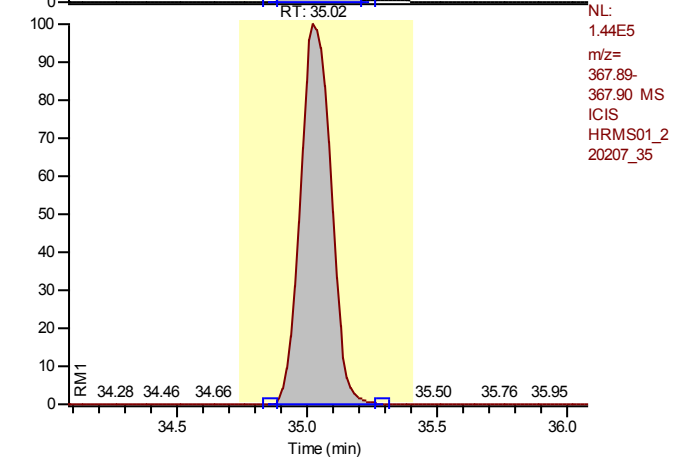
Chromatogram

Entry Parameters

RT: 34.08 - 36.08 SM: 7G



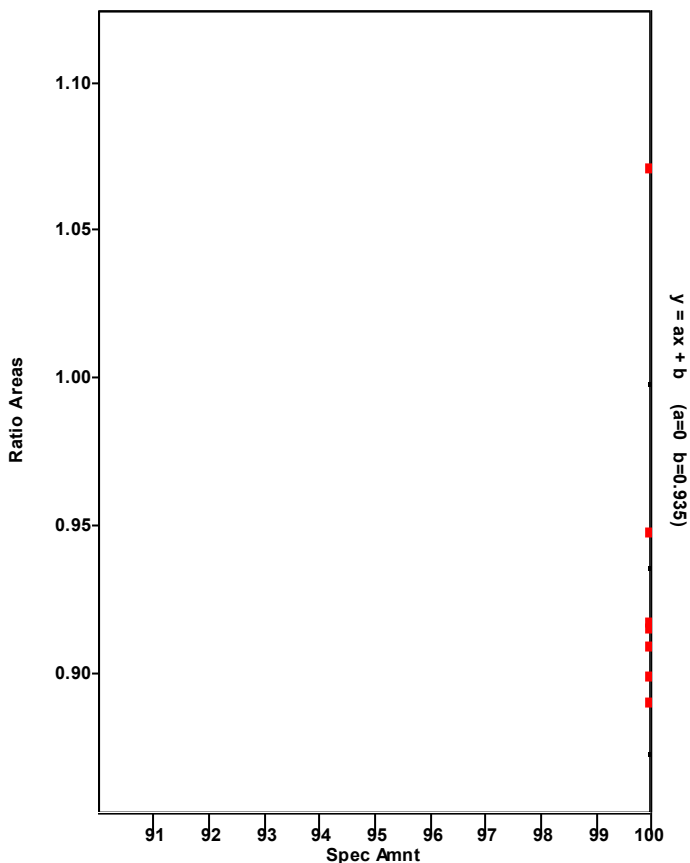
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	767110
RM1 Area	1180955
RM1 Ratio (A)	1.5395
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	74.18
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

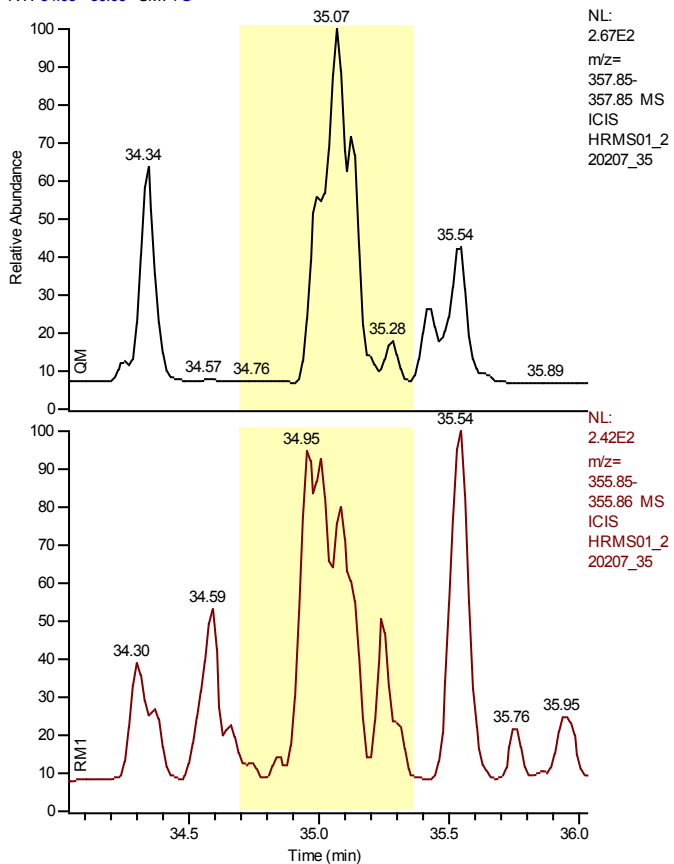
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.03 - 36.03 SM: 7G



NL:
 2.67E2
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_35

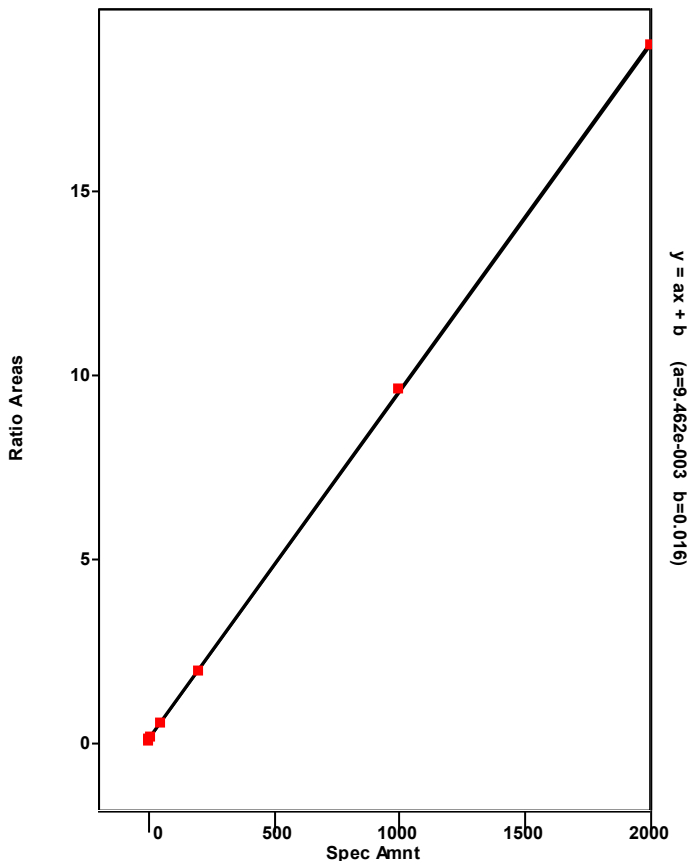
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

NL:
 2.42E2
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

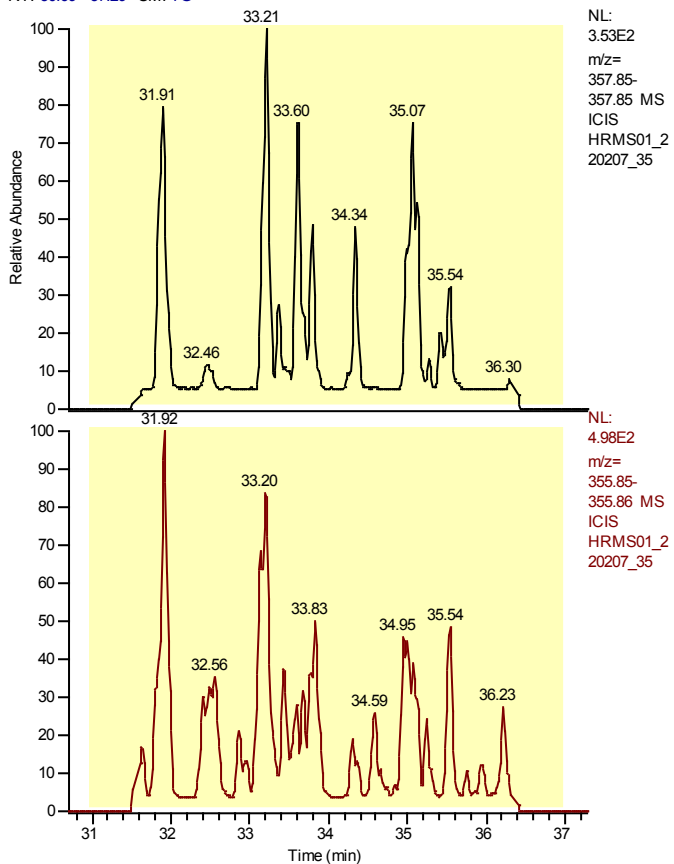
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.69 - 37.29 SM: 7G

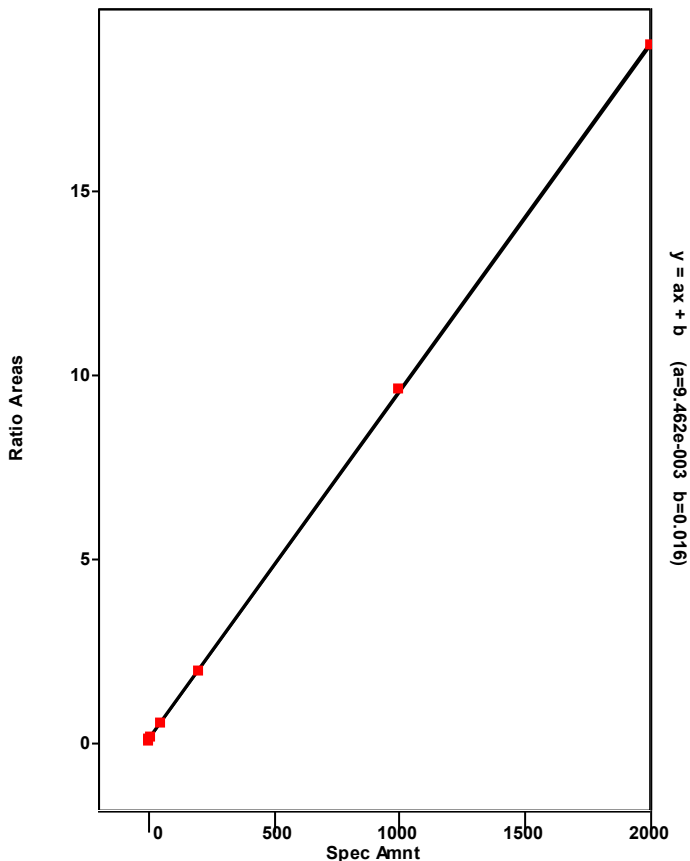


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

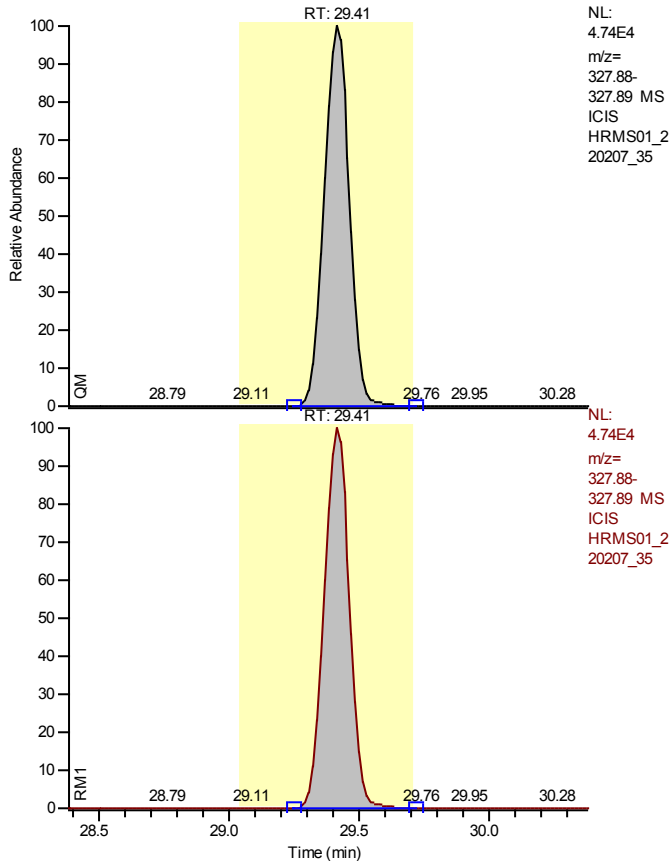
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.38 - 30.38 SM: 7G



NL:
 4.74E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_35

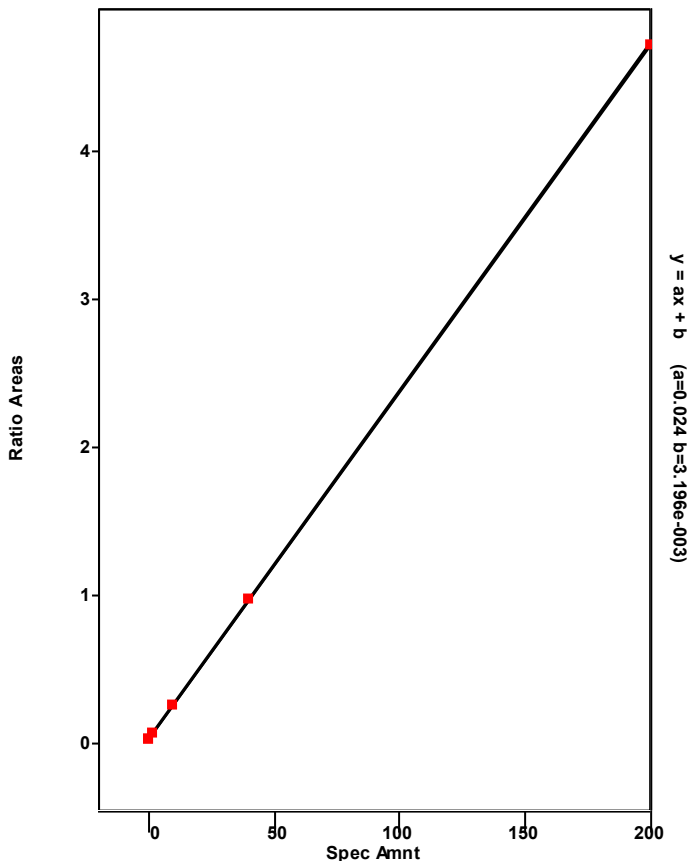
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	333208
RM1 Area	333208
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.84
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

NL:
 4.74E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

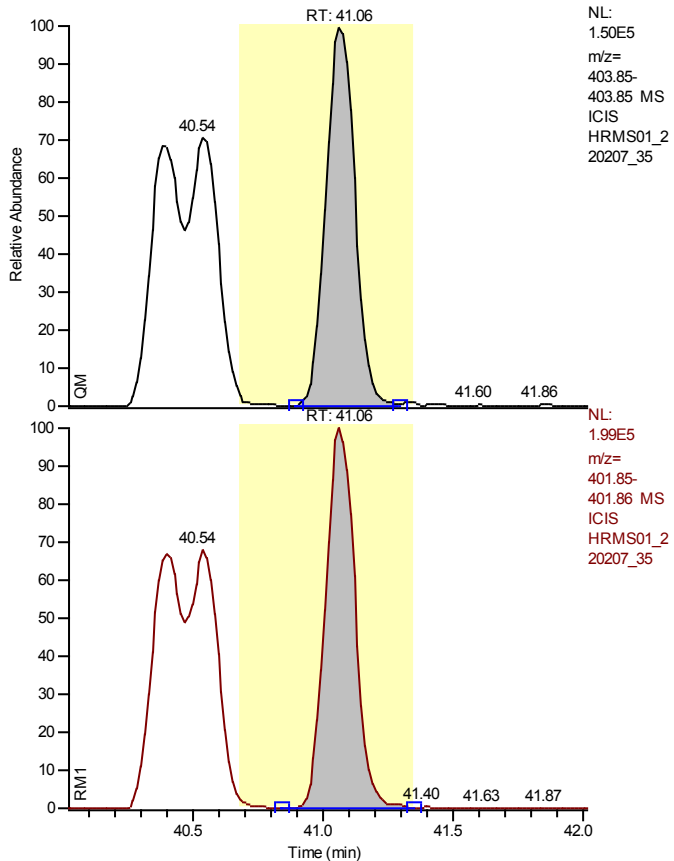
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

Entry Parameters

RT: 40.02- 42.02 SM: 7G



NL:
 1.50E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_35

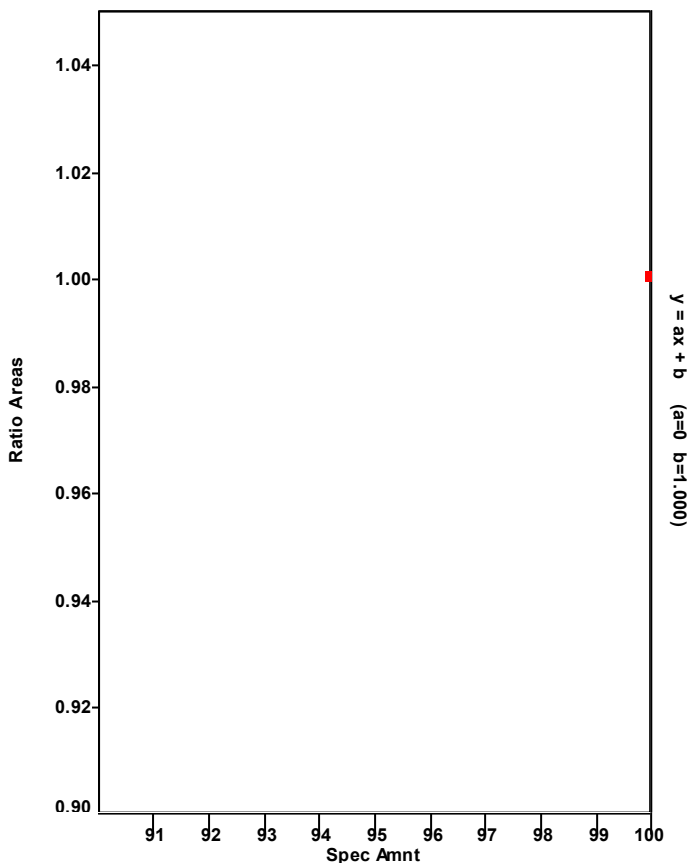
NL:
 1.99E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1168710
RM1 Area	1579813
RM1 Ratio (A)	1.3518
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

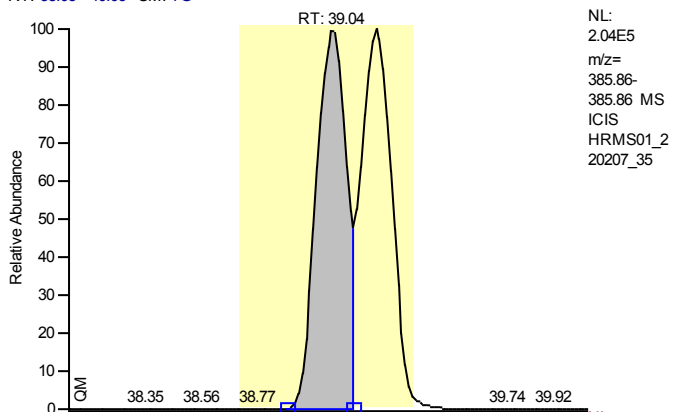
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



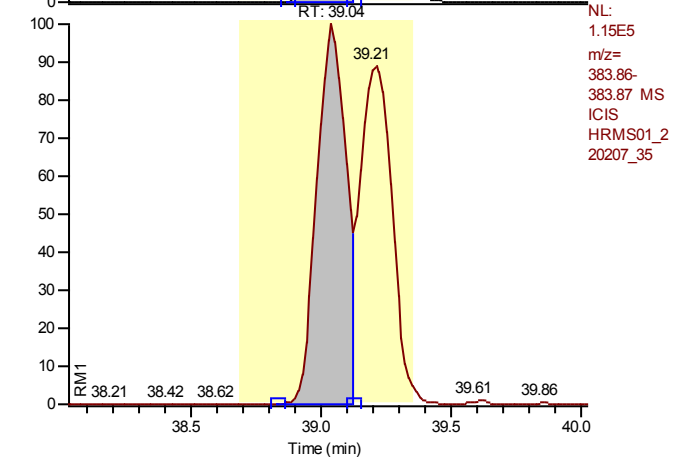
Chromatogram

Entry Parameters

RT: 38.03 - 40.03 SM: 7G



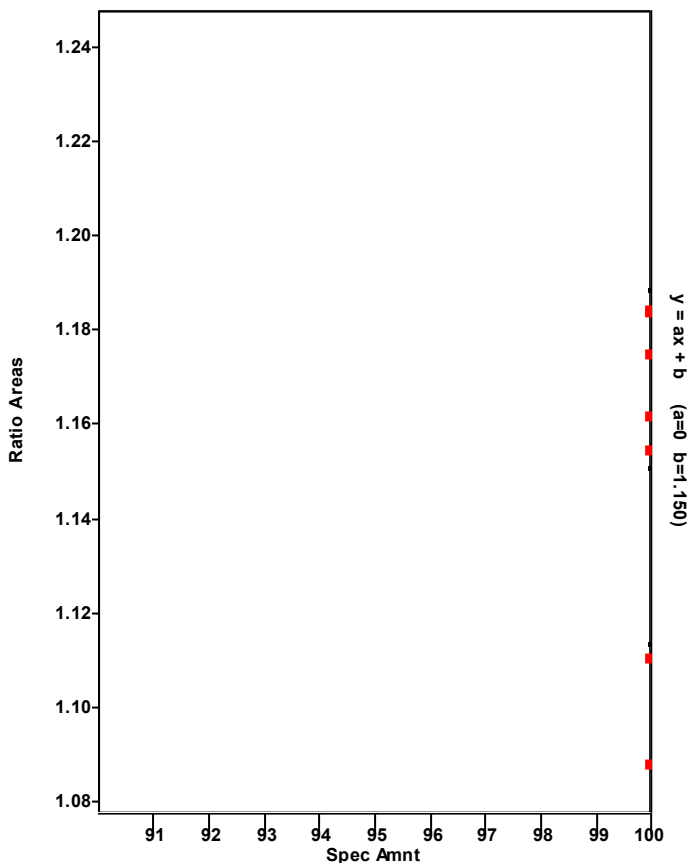
Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1642005
RM1 Area	892779
RM1 Ratio (A)	0.5437
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	80.17
Percent Recovery (A)	80
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

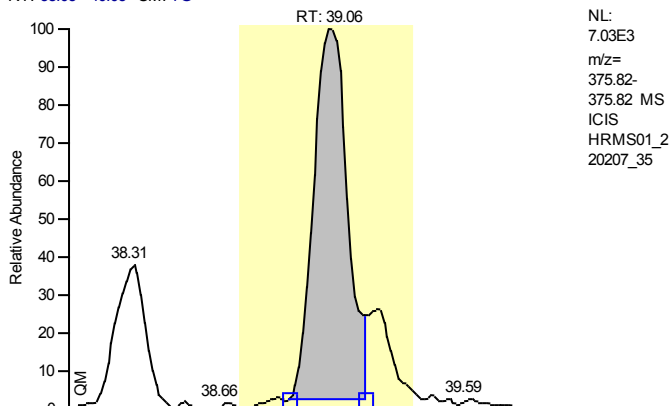
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



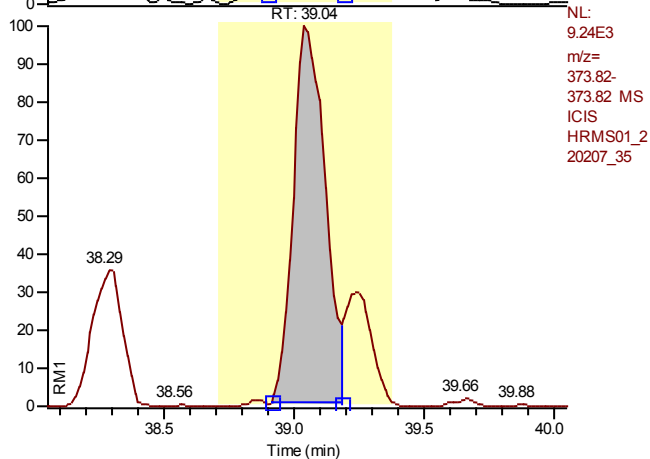
Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G



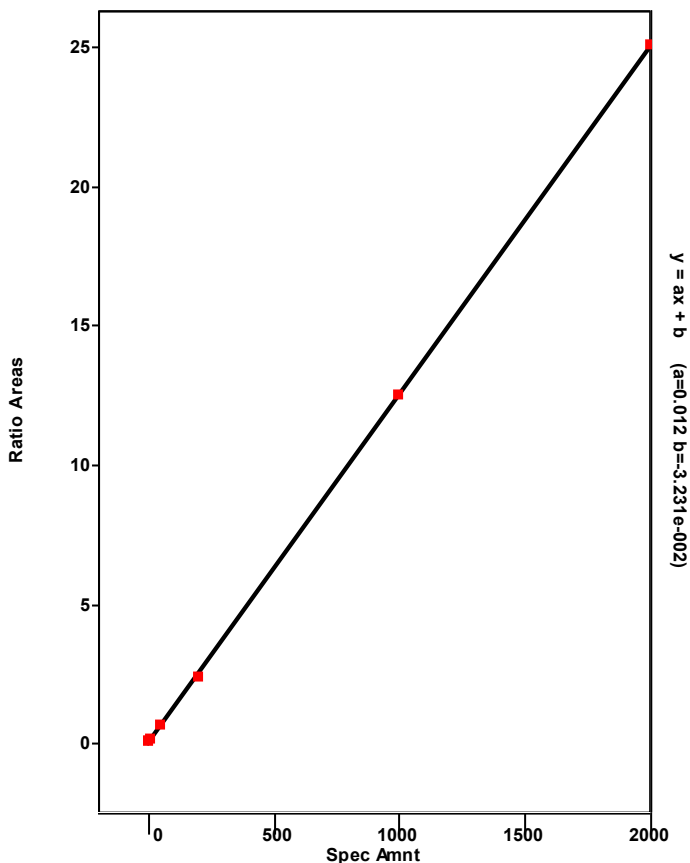
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	61784
RM1 Area	76882
RM1 Ratio (A)	1.2444
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.39
Percent Recovery (A)	---
TEQ (A)	0.4388
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

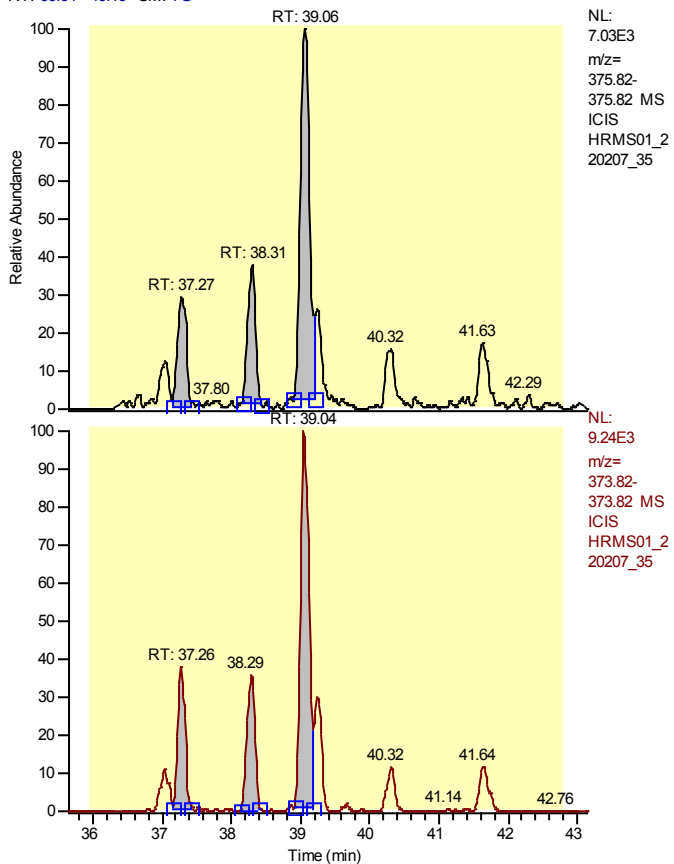
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



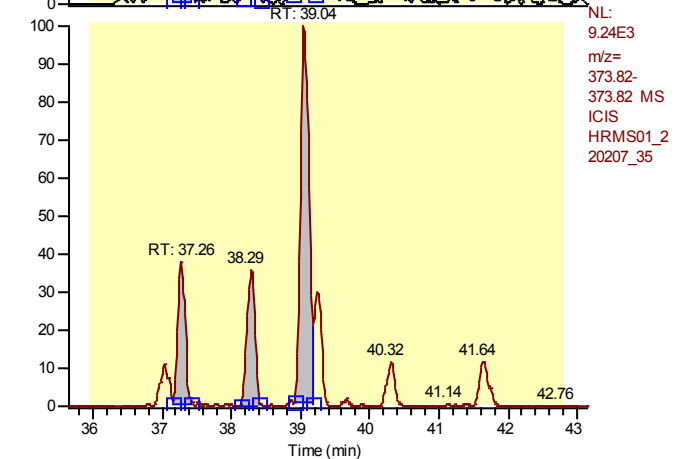
Chromatogram

Entry Parameters

RT: 35.64 - 43.16 SM: 7G



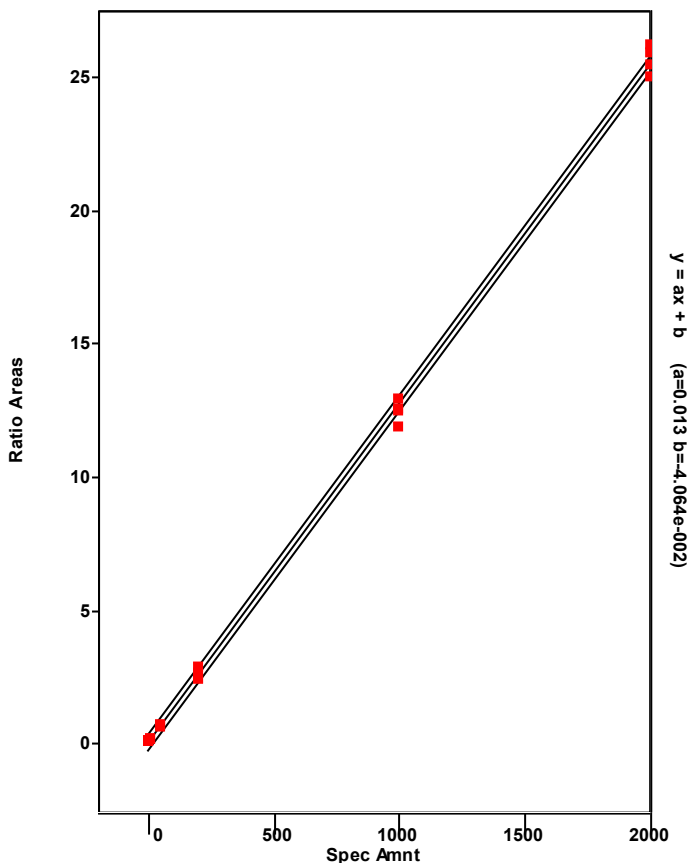
Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	100418
RM1 Area	128948
RM1 Ratio (A)	1.2841
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	7.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

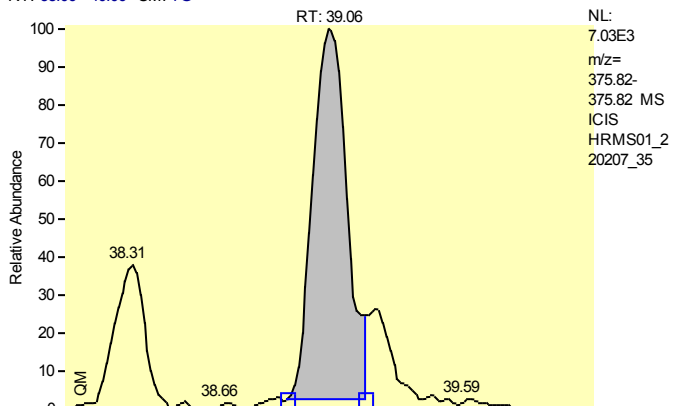
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



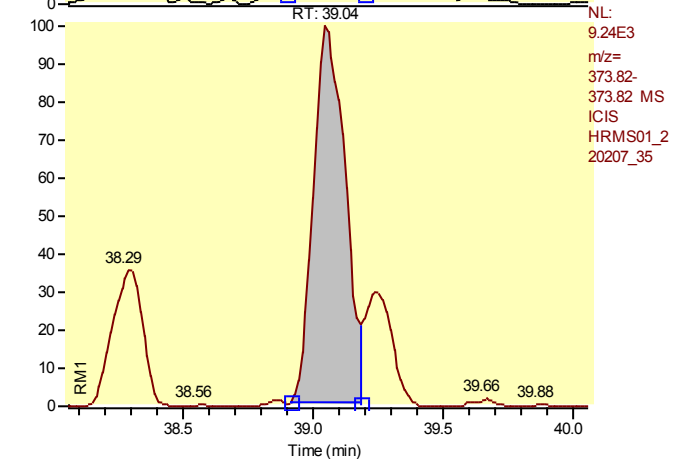
Chromatogram

Entry Parameters

RT: 38.06 - 40.06 SM: 7G



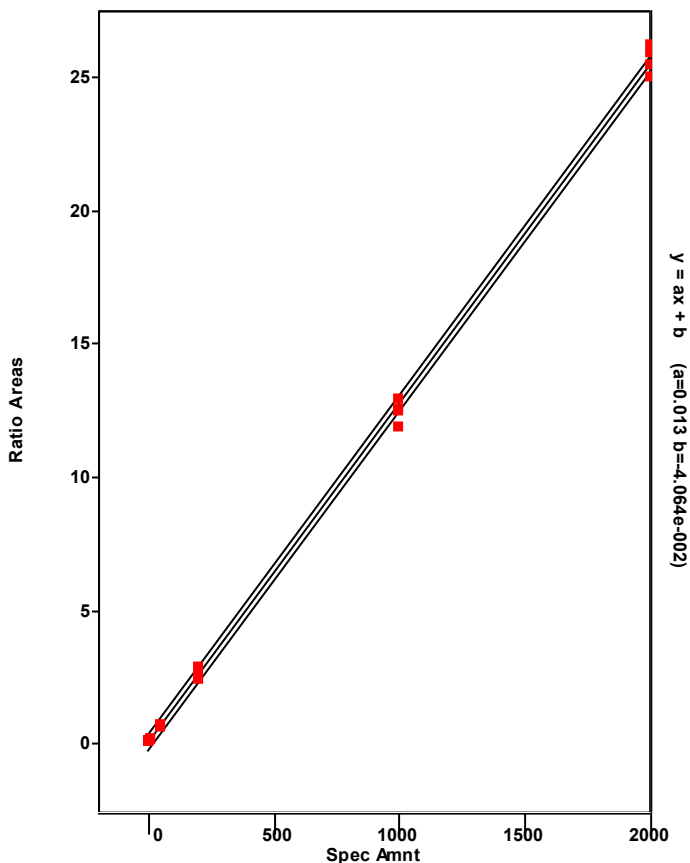
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	61784
RM1 Area	76882
RM1 Ratio (A)	1.2444
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.31
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

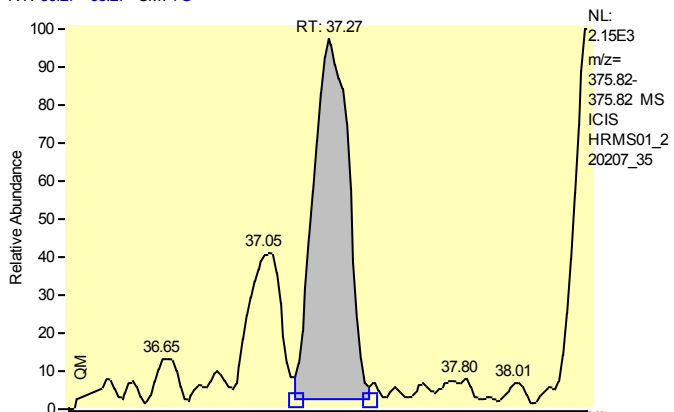
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



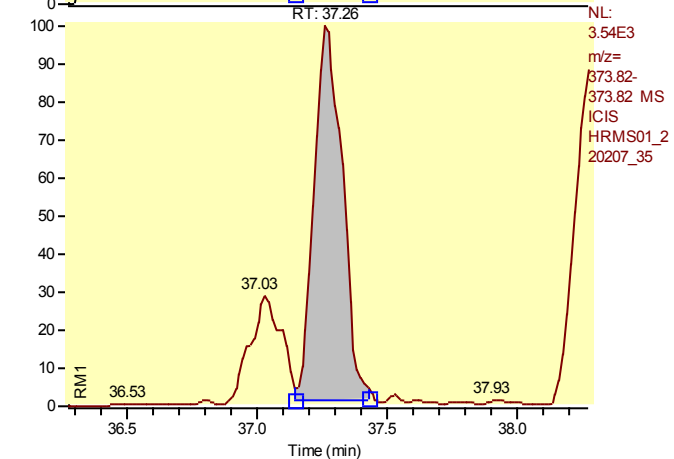
Chromatogram

Entry Parameters

RT: 36.27 - 38.27 SM: 7G



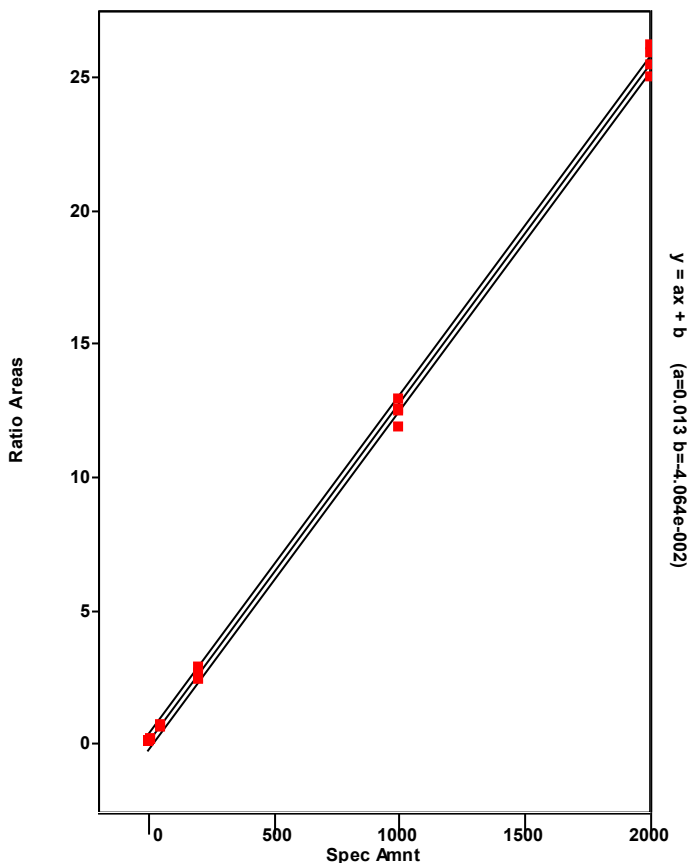
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	18974
RM1 Area	25984
RM1 Ratio (A)	1.3695
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.40
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

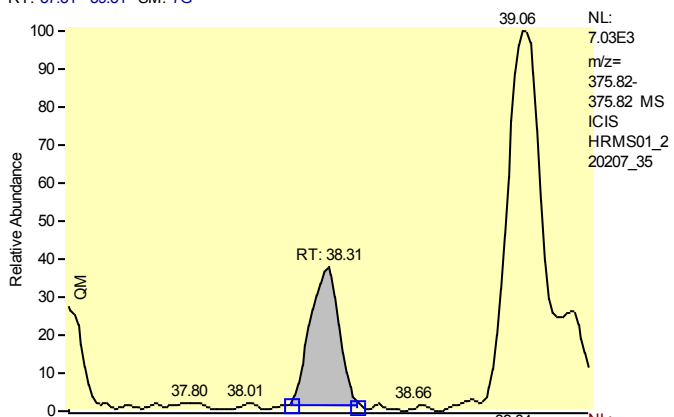
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



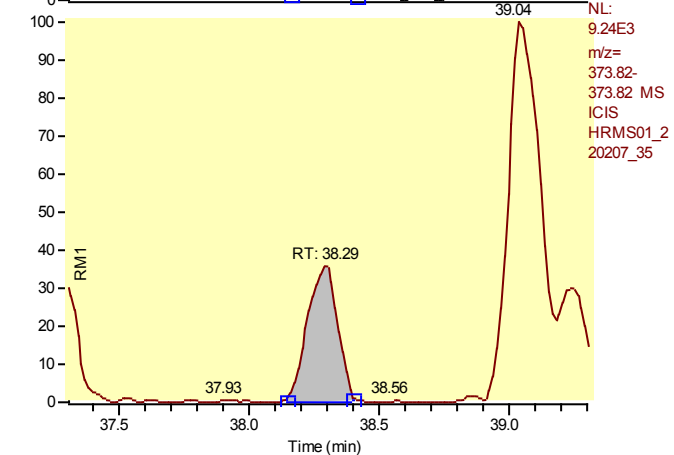
Chromatogram

Entry Parameters

RT: 37.31 - 39.31 SM: 7G



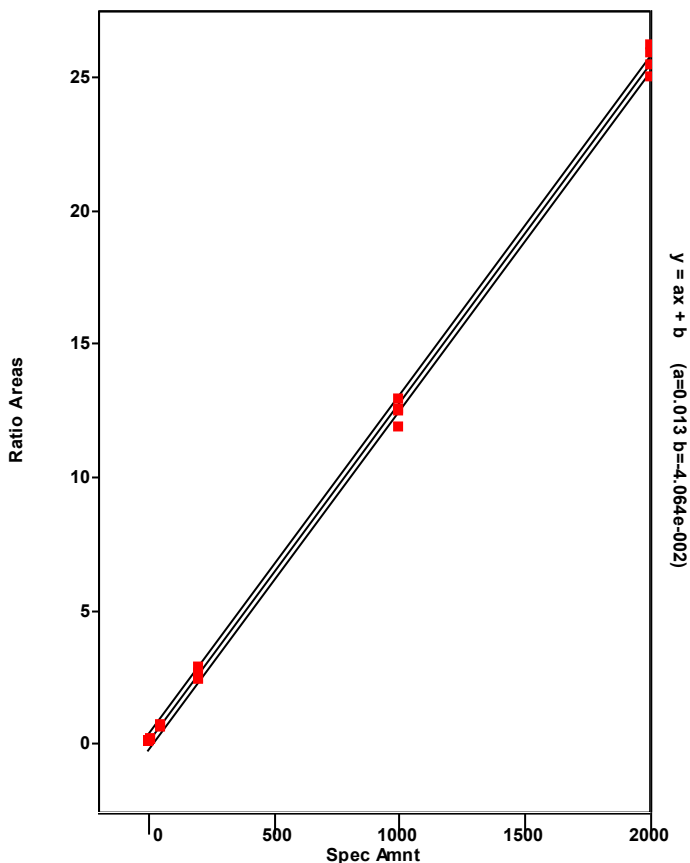
Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	19661
RM1 Area	26082
RM1 Ratio (A)	1.3266
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

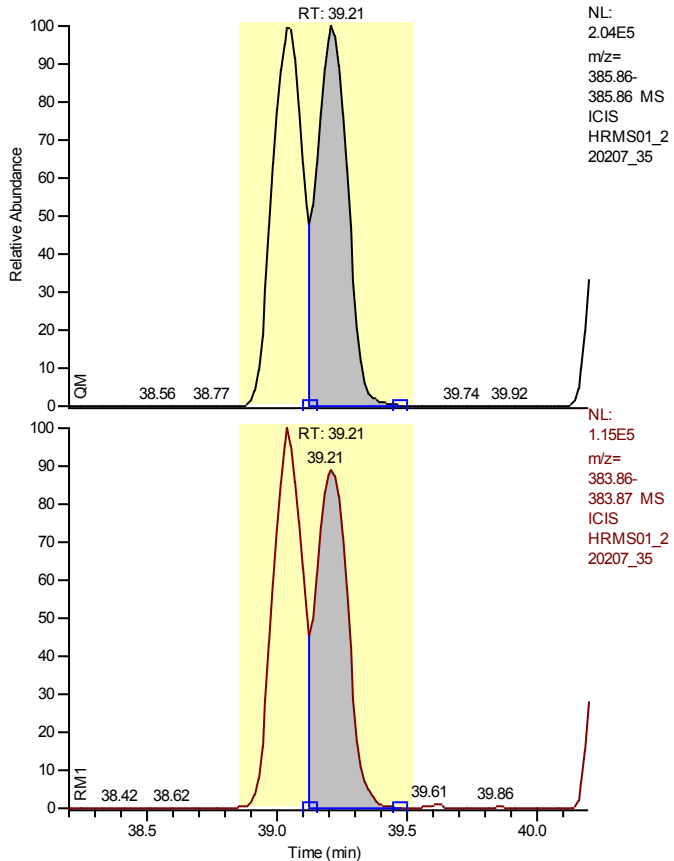
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.20 - 40.20 SM: 7G

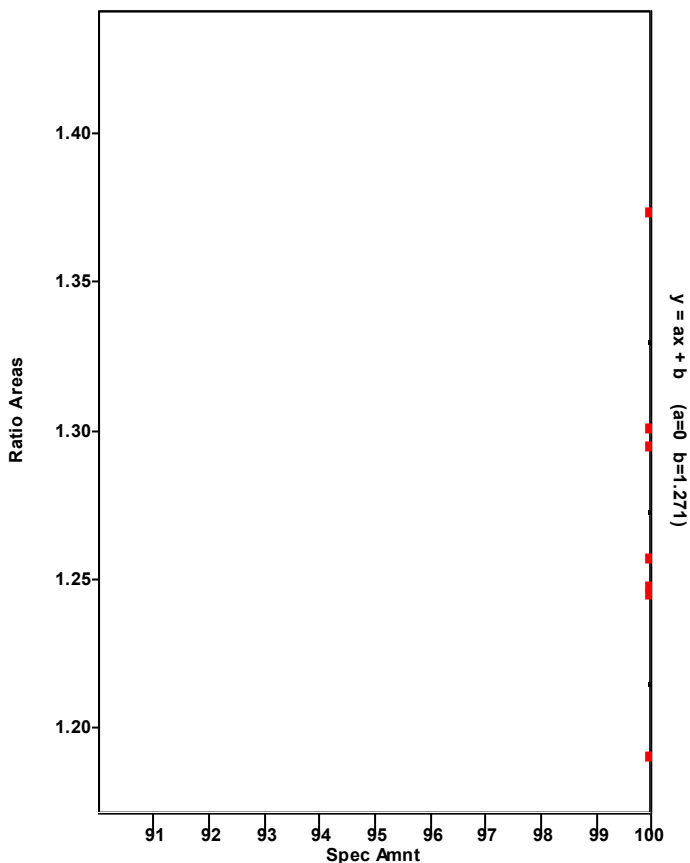


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1654919
RM1 Area	866558
RM1 Ratio (A)	0.5236
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	72.15
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

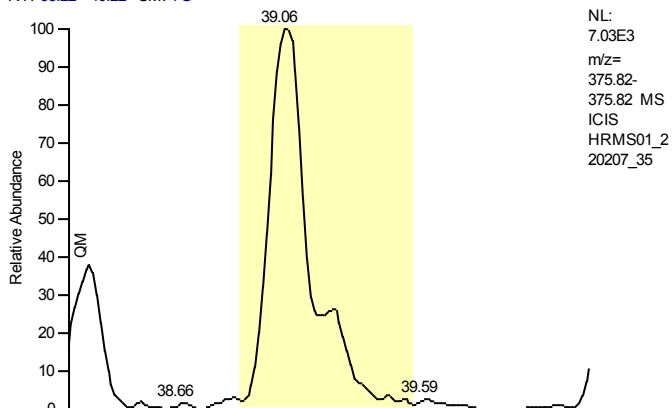
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



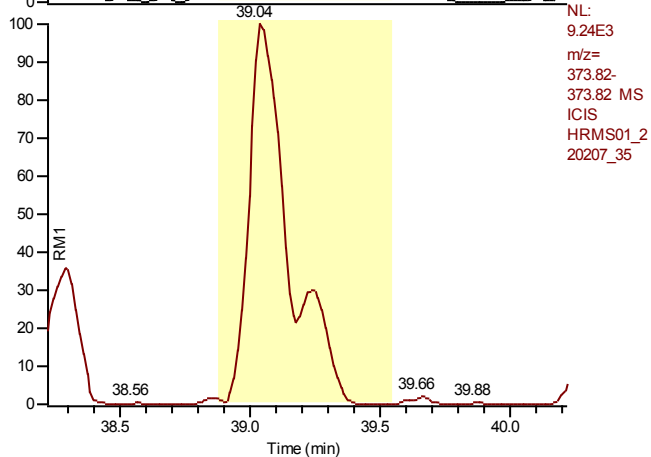
Chromatogram

Entry Parameters

RT: 38.22 - 40.22 SM: 7G



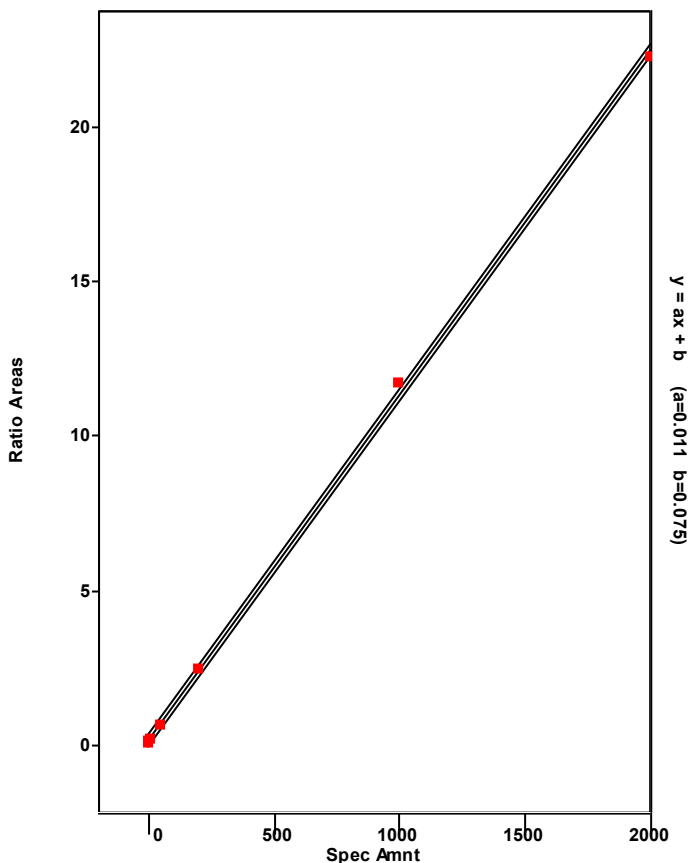
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

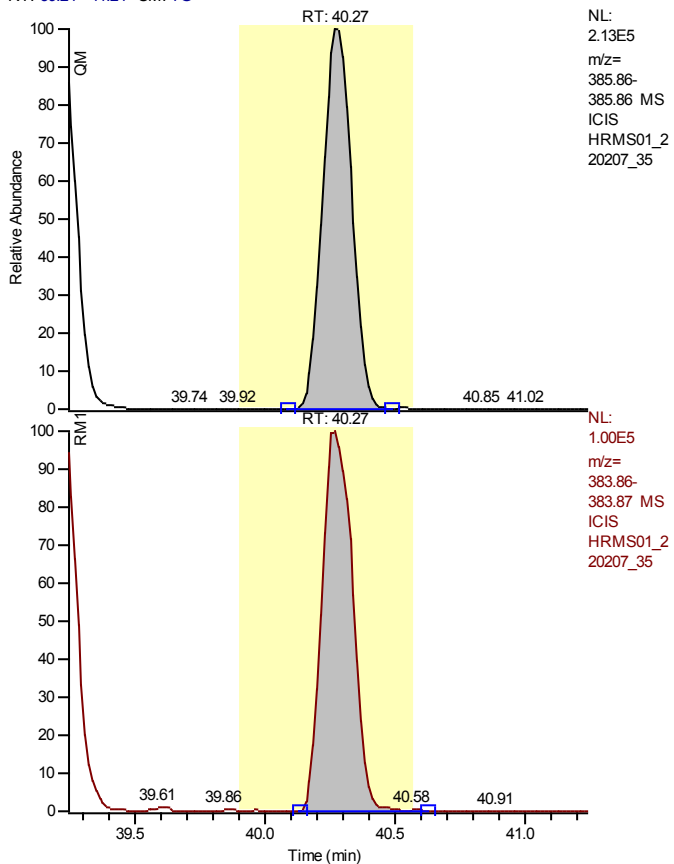
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

Entry Parameters

RT: 39.24 - 41.24 SM: 7G

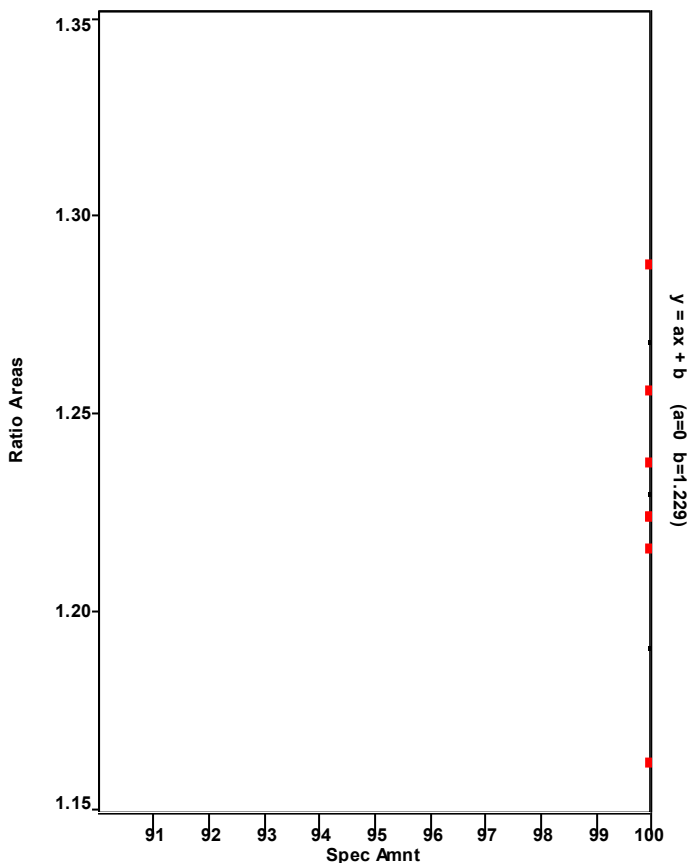


Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1670418
RM1 Area	823119
RM1 Ratio (A)	0.4928
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	73.82
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

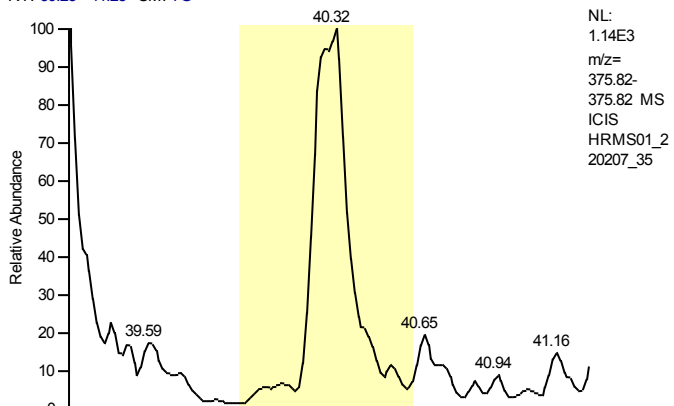
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



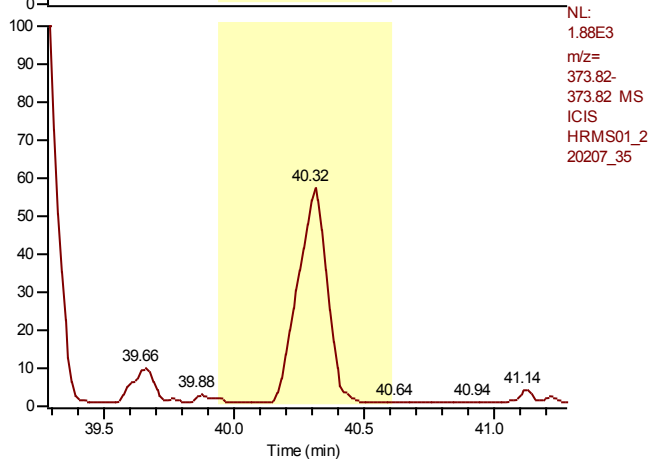
Chromatogram

Entry Parameters

RT: 39.28 - 41.28 SM: 7G



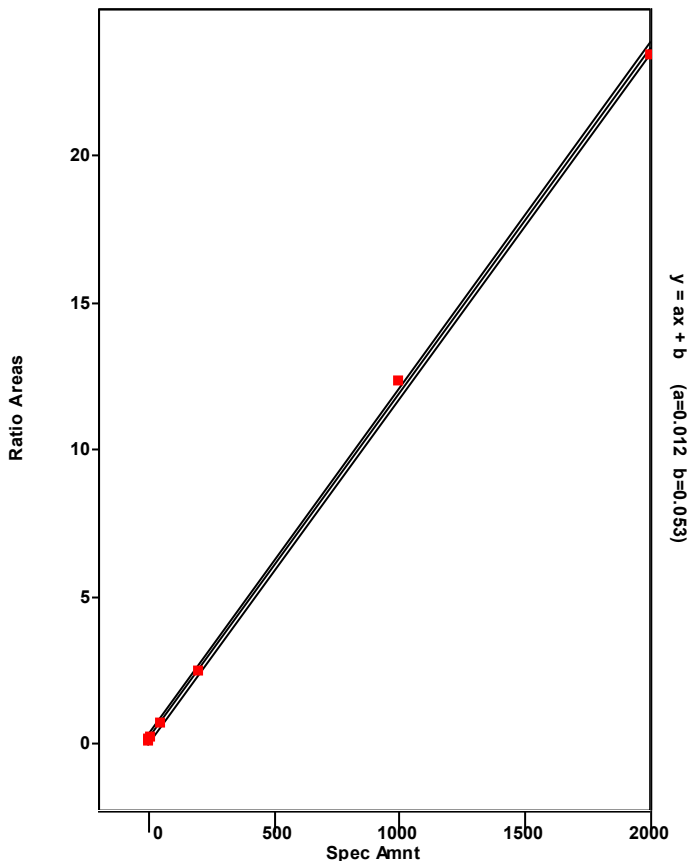
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

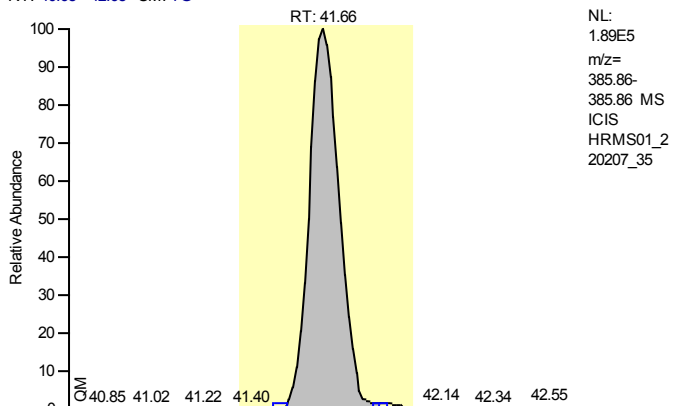
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



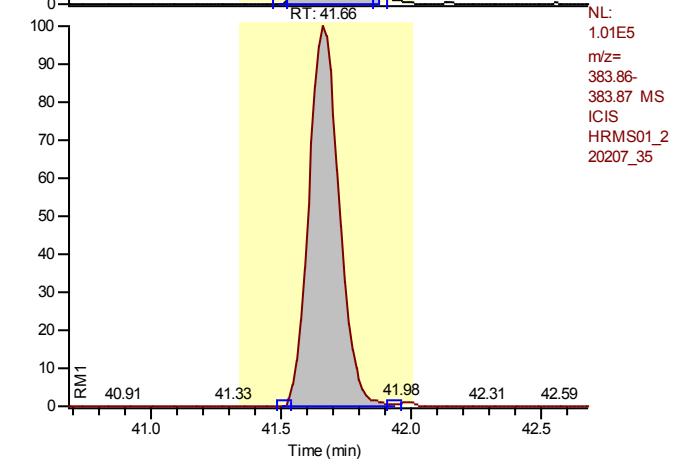
Chromatogram

Entry Parameters

RT: 40.68 - 42.68 SM: 7G



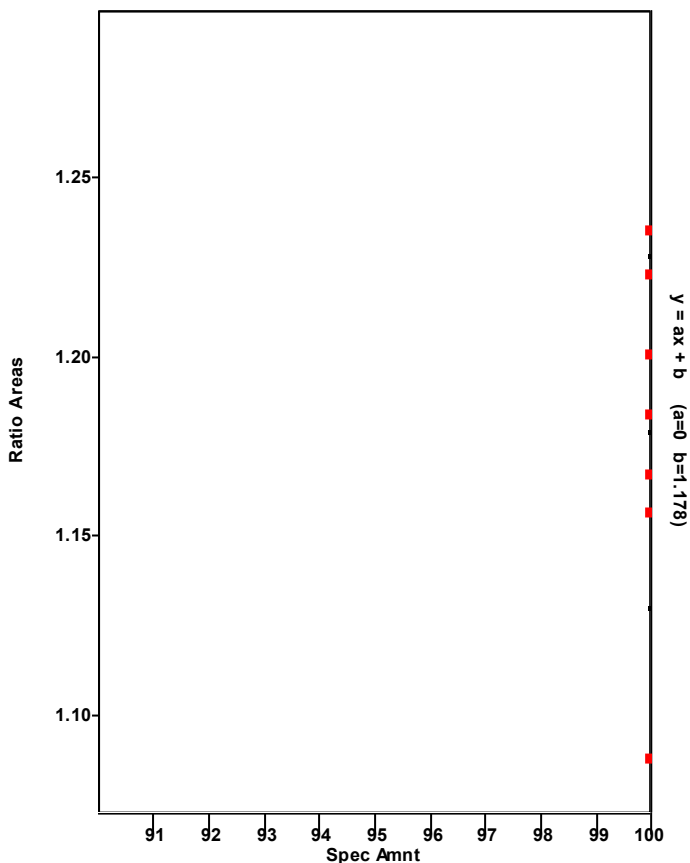
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1531682
RM1 Area	820598
RM1 Ratio (A)	0.5357
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	72.63
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

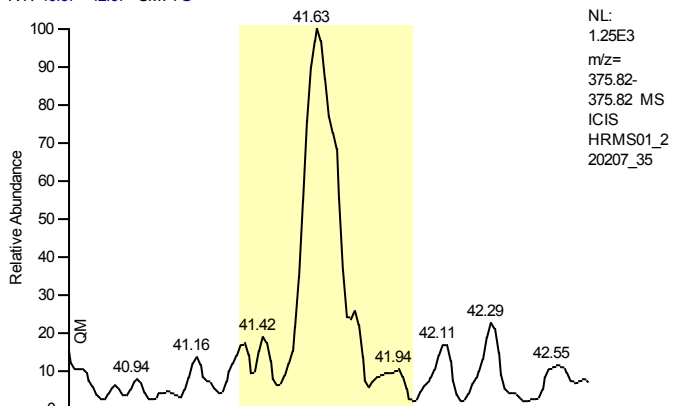
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



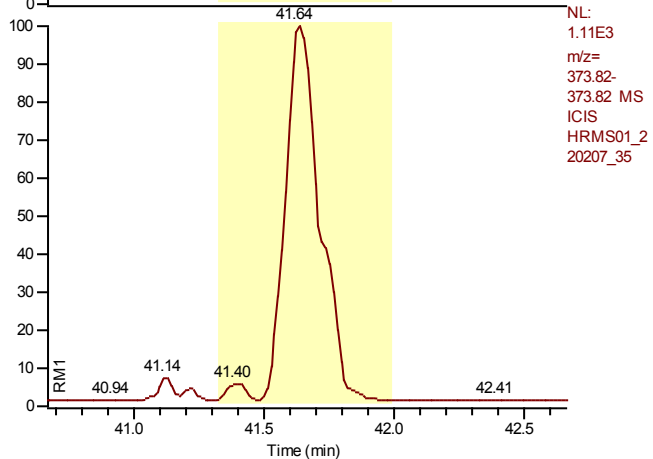
Chromatogram

Entry Parameters

RT: 40.67 - 42.67 SM: 7G



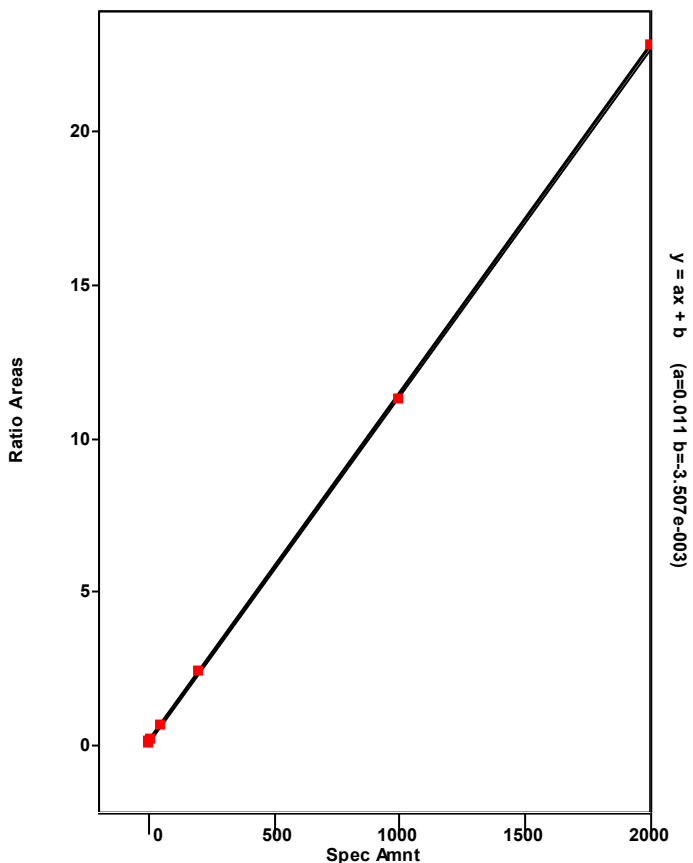
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

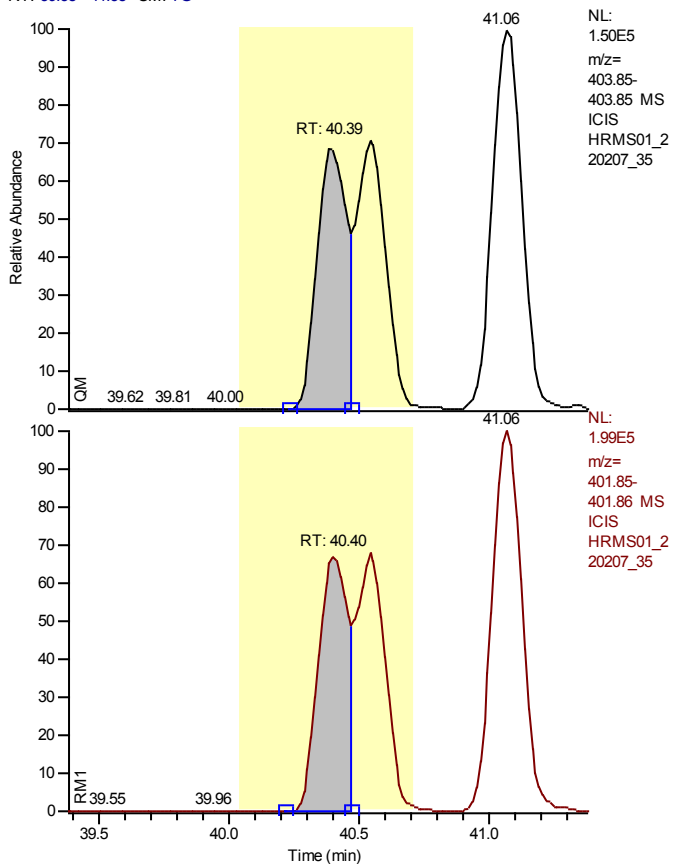
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

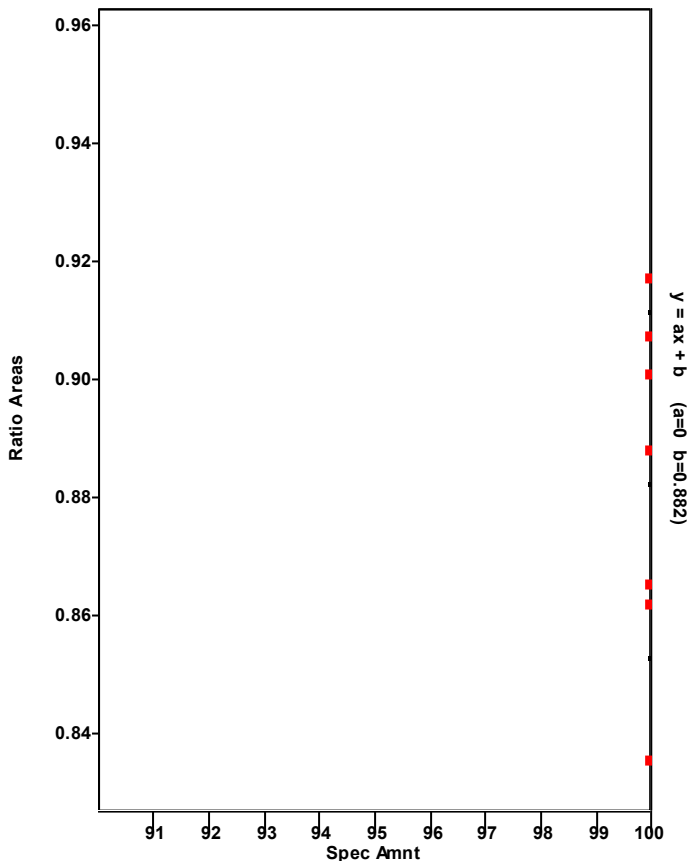
RT: 39.38 - 41.38 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	811692
RM1 Area	1042827
RM1 Ratio (A)	1.2848
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	76.53
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

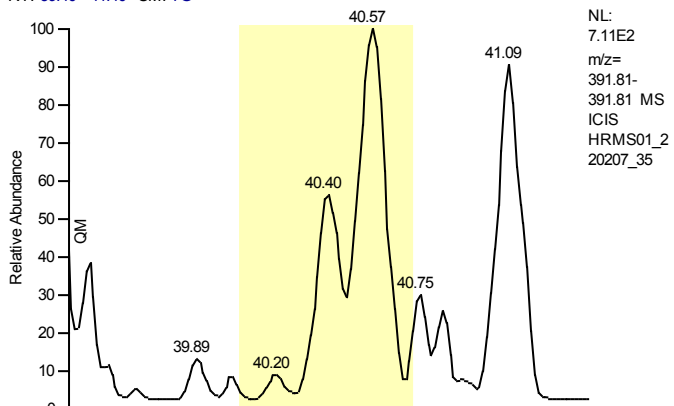
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



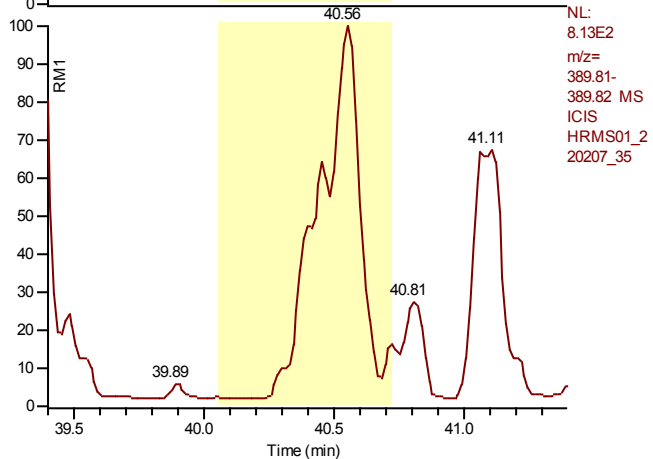
Chromatogram

Entry Parameters

RT: 39.40 - 41.40 SM: 7G



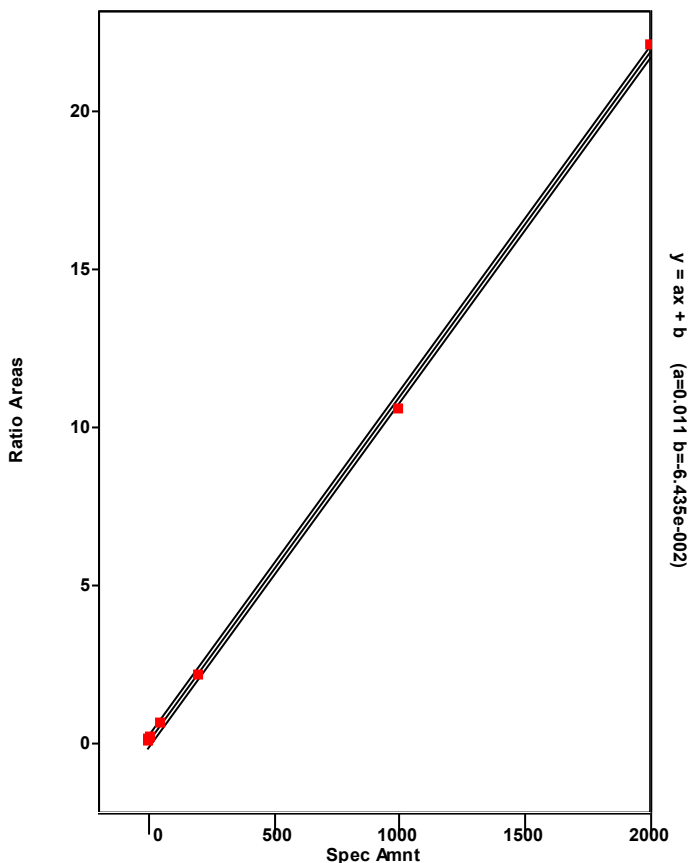
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

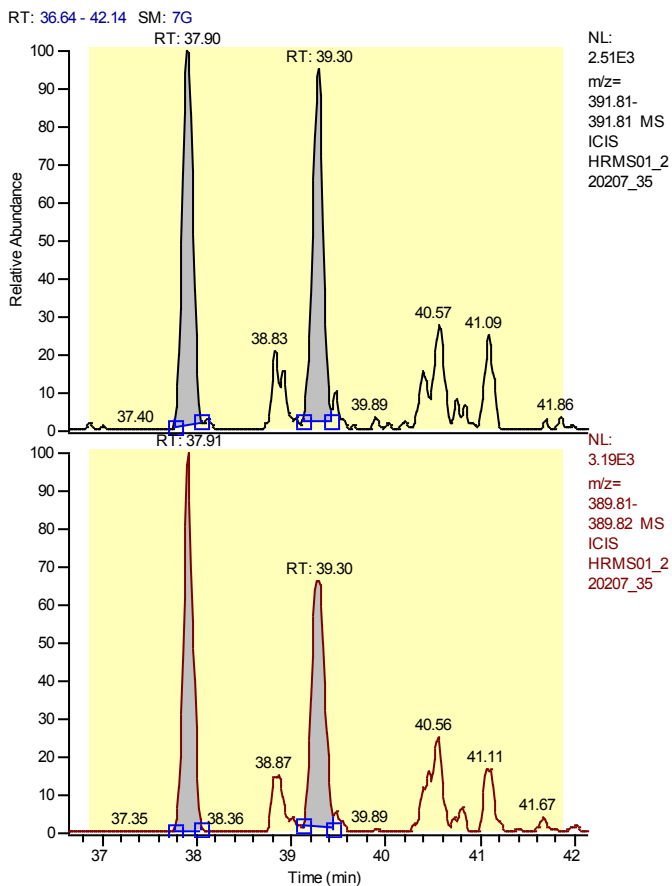
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

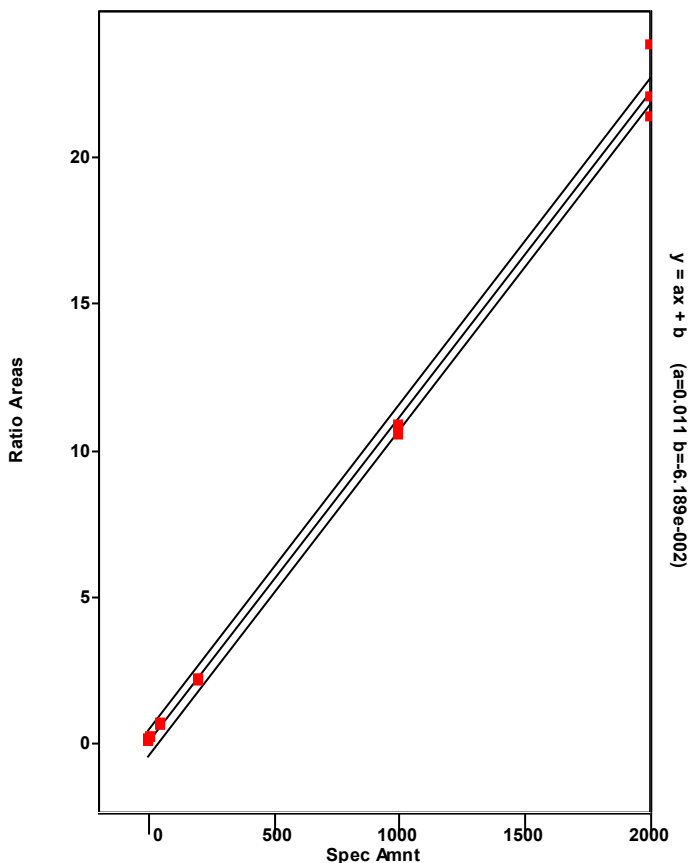


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	37475
RM1 Area	41907
RM1 Ratio (A)	1.1183
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	3.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

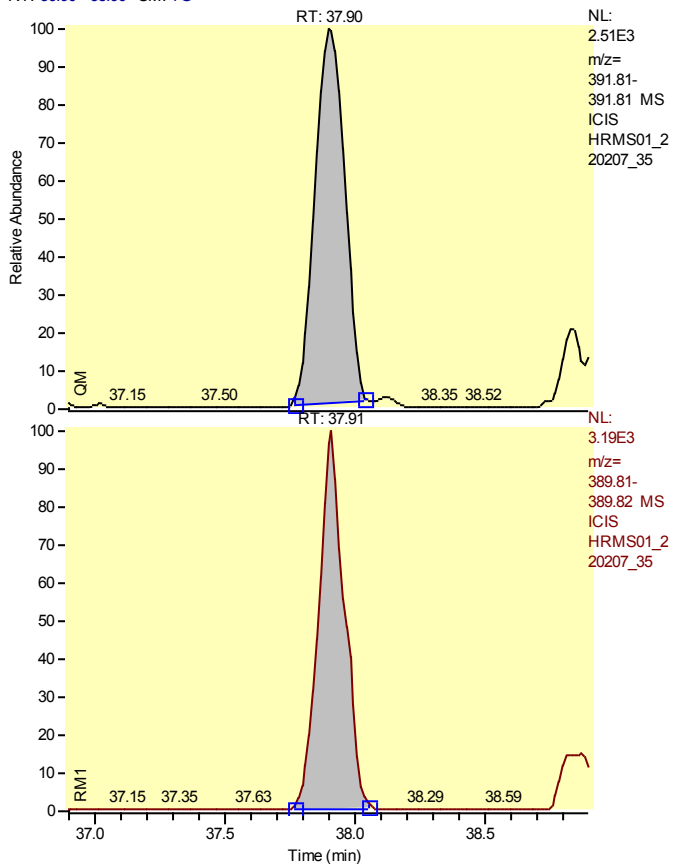
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 36.90-38.90 SM: 7G

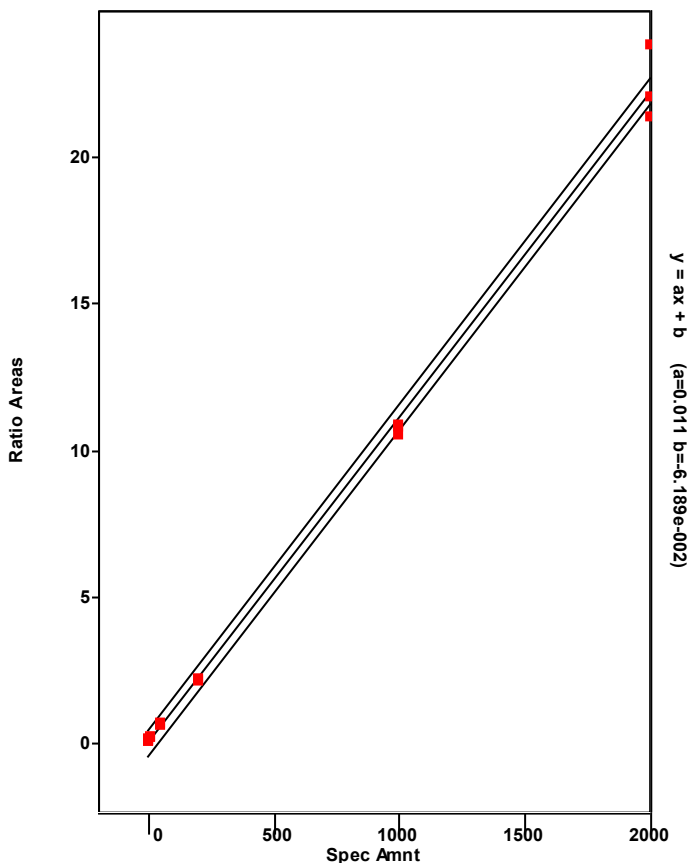


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	19463
RM1 Area	21588
RM1 Ratio (A)	1.1092
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.99
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

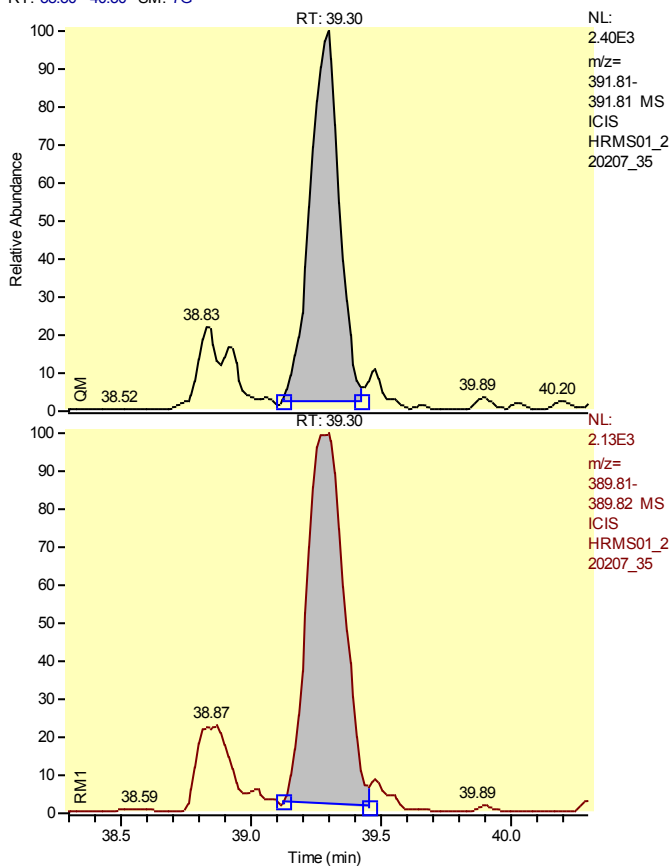
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 38.30 - 40.30 SM: 7G

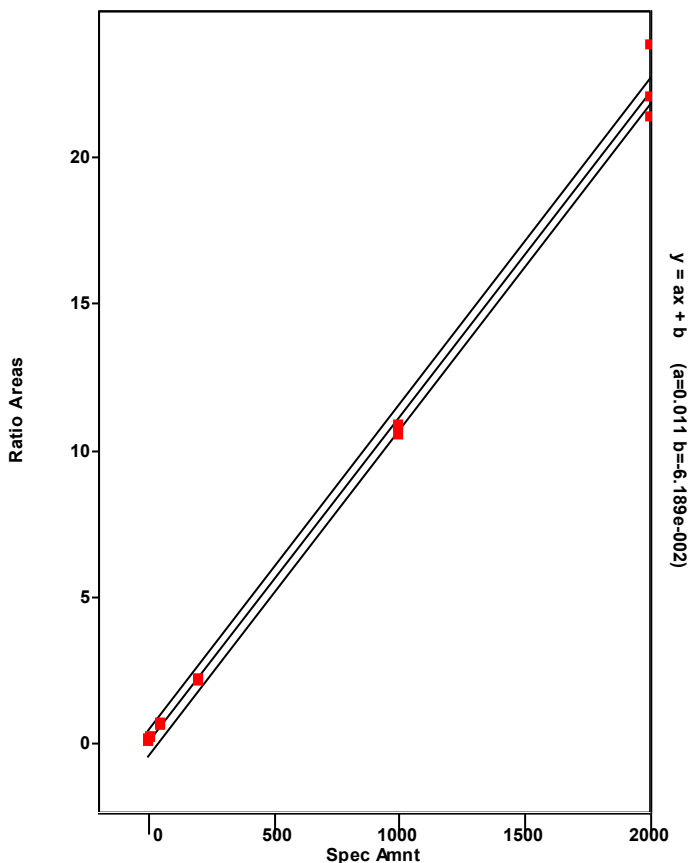


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	18012
RM1 Area	20319
RM1 Ratio (A)	1.1281
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.85
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

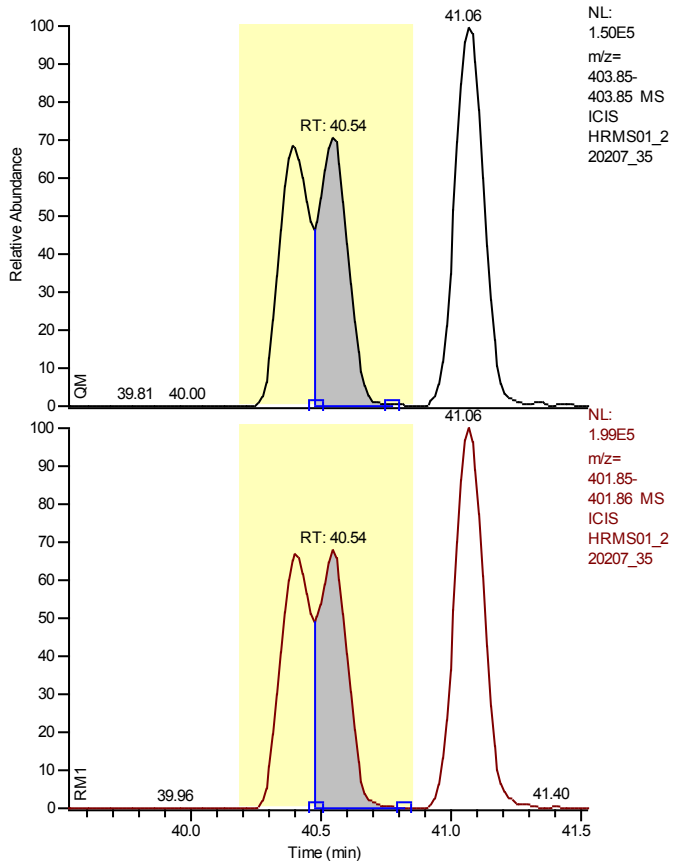
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

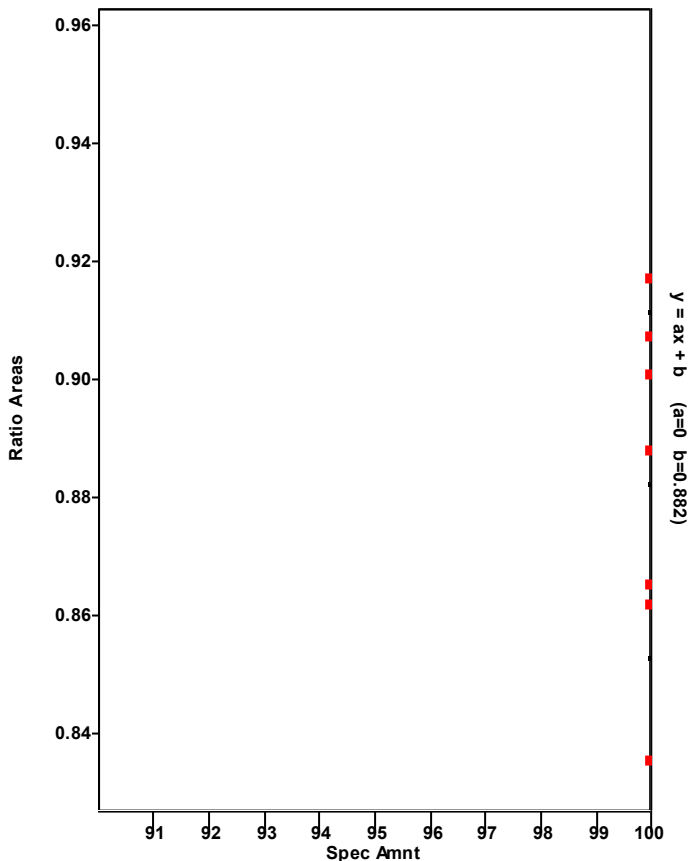
RT: 39.52 - 41.52 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	819589
RM1 Area	1052993
RM1 Ratio (A)	1.2848
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	77.28
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

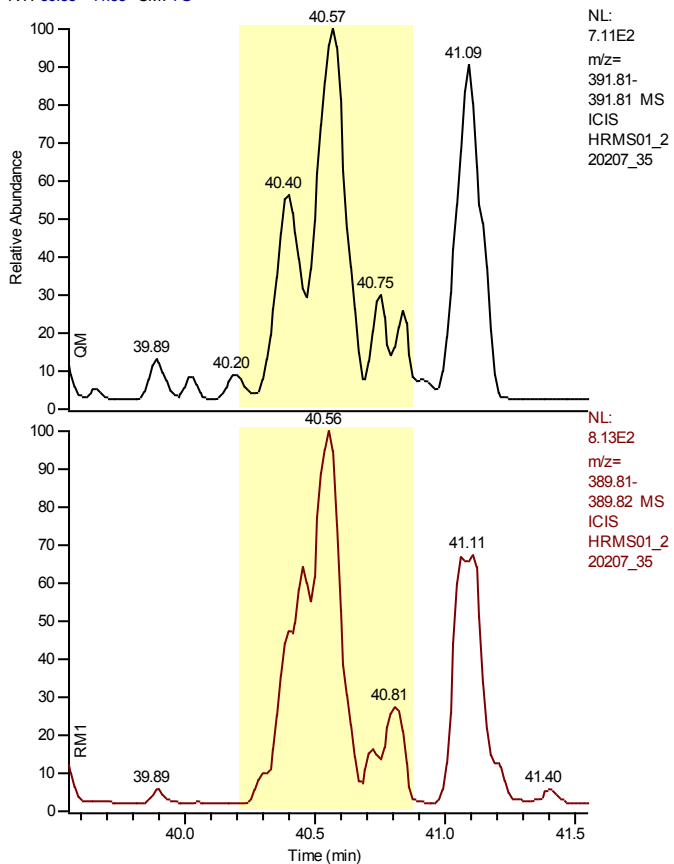
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.55 - 41.55 SM: 7G

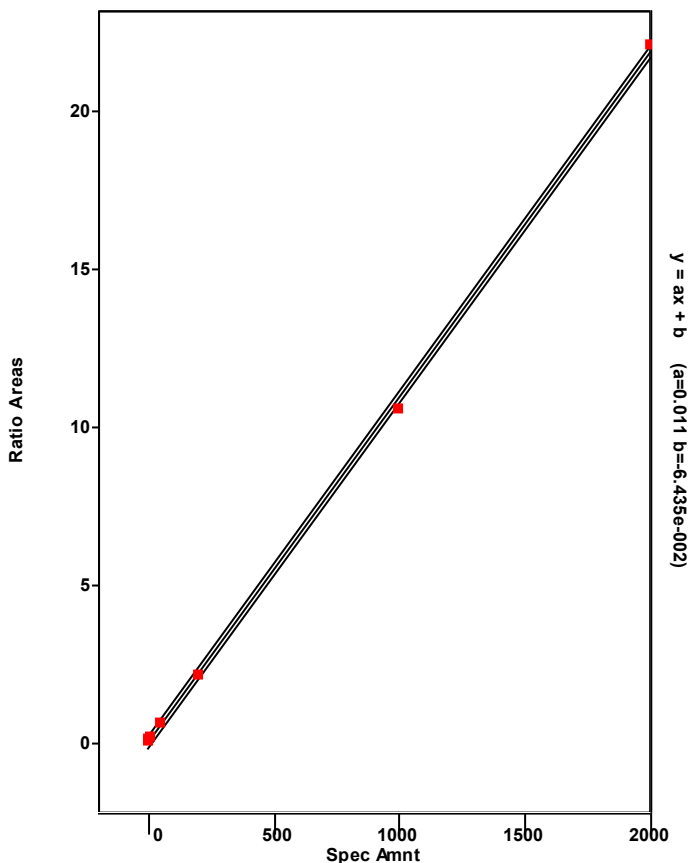


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

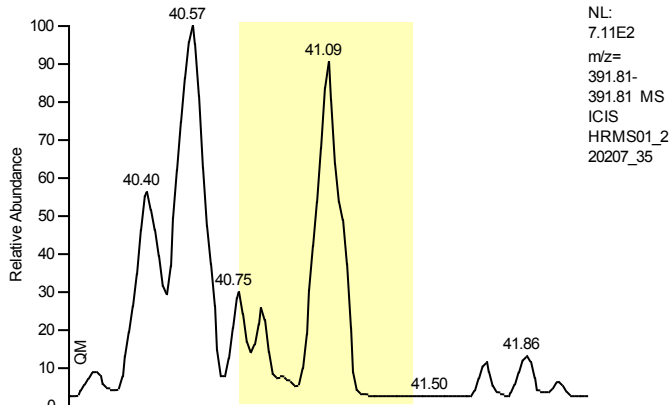
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



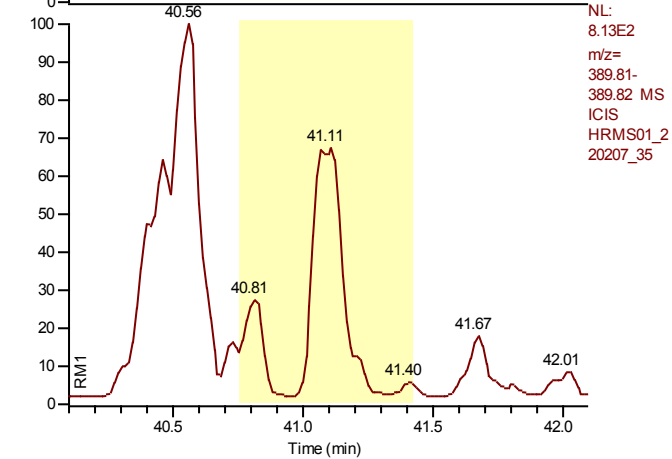
Chromatogram

Entry Parameters

RT: 40.09 - 42.09 SM: 7G



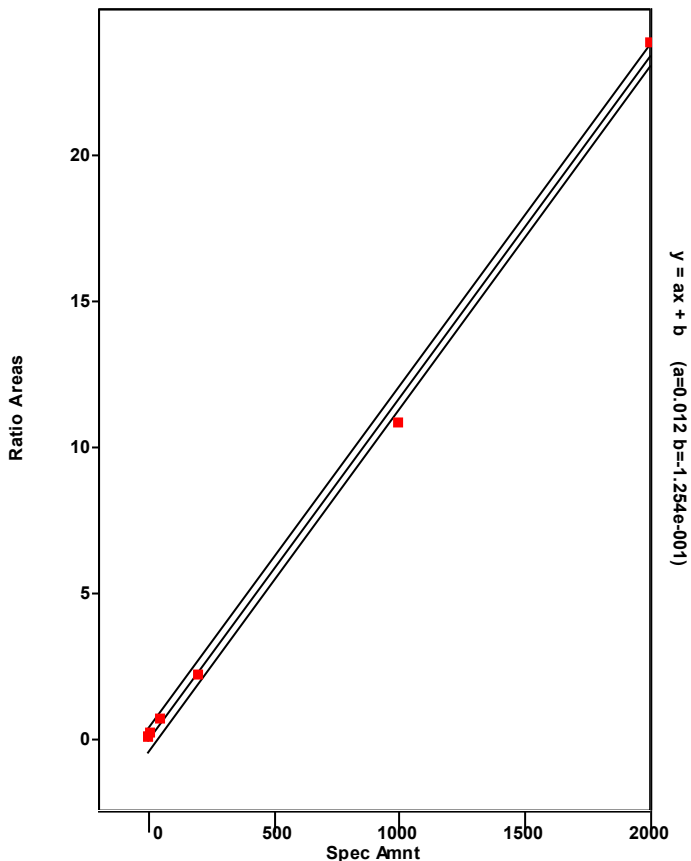
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

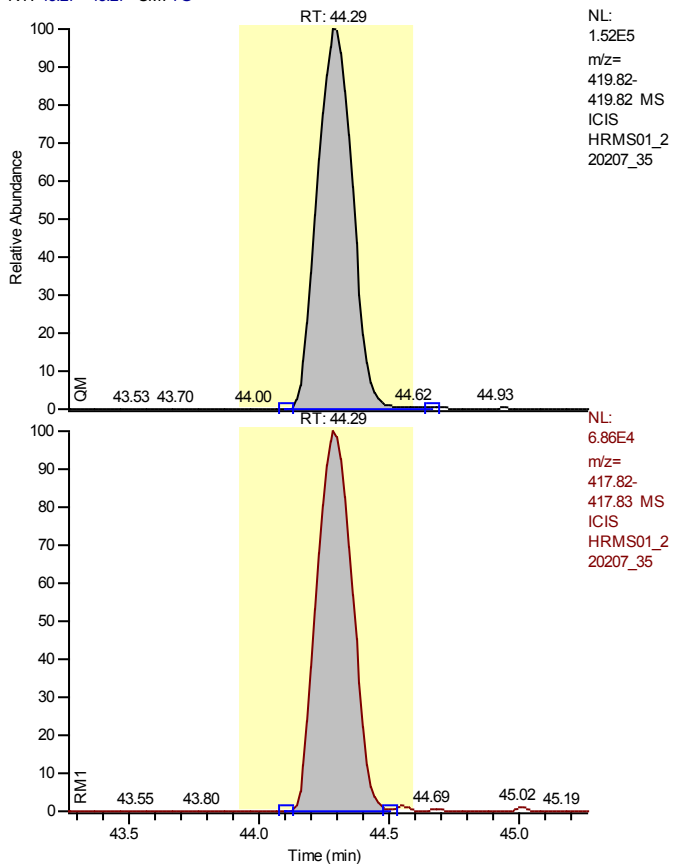
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

Entry Parameters

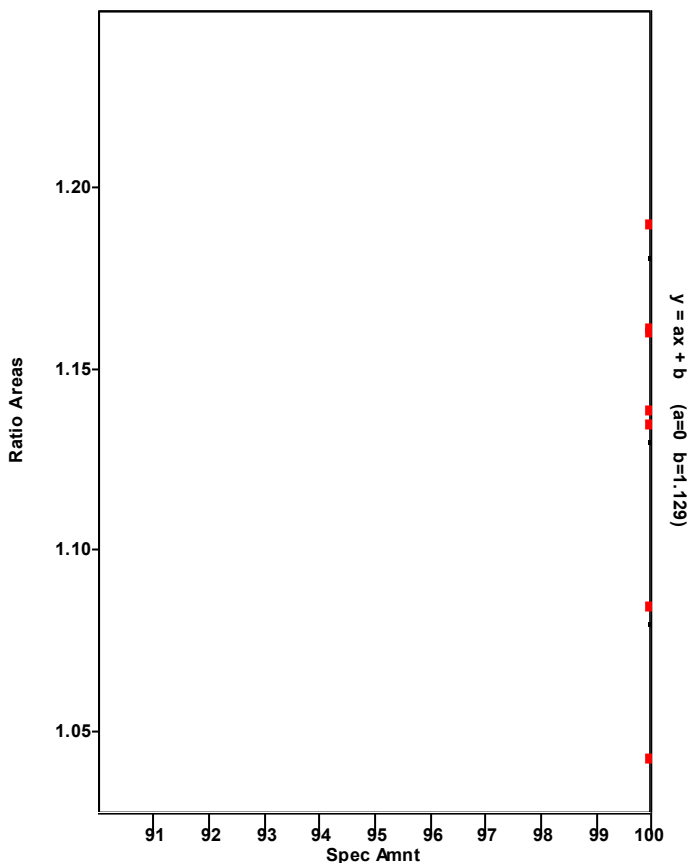
RT: 43.27 - 45.27 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1439487
RM1 Area	648839
RM1 Ratio (A)	0.4507
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	67.28
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

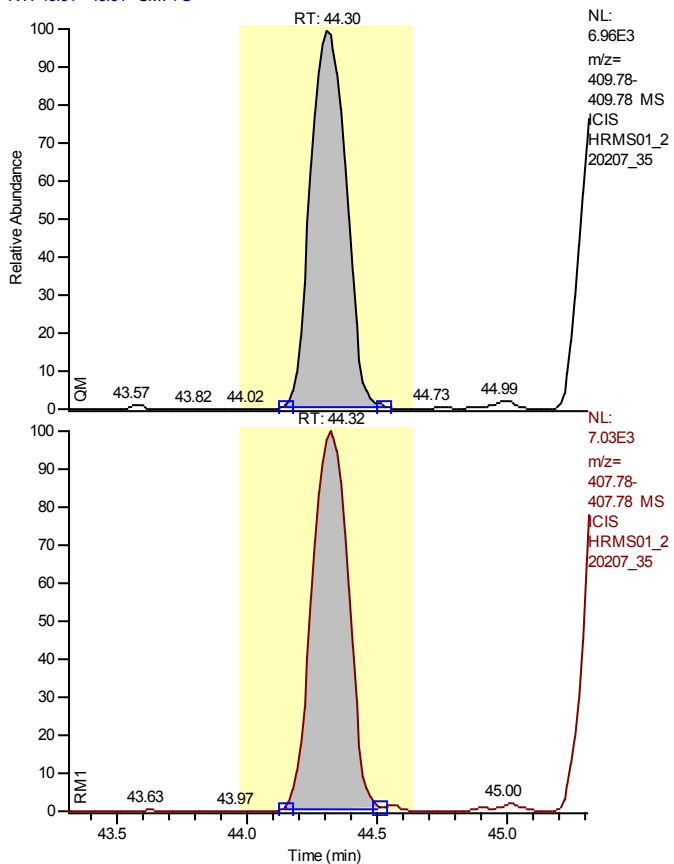
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.31 - 45.31 SM: 7G

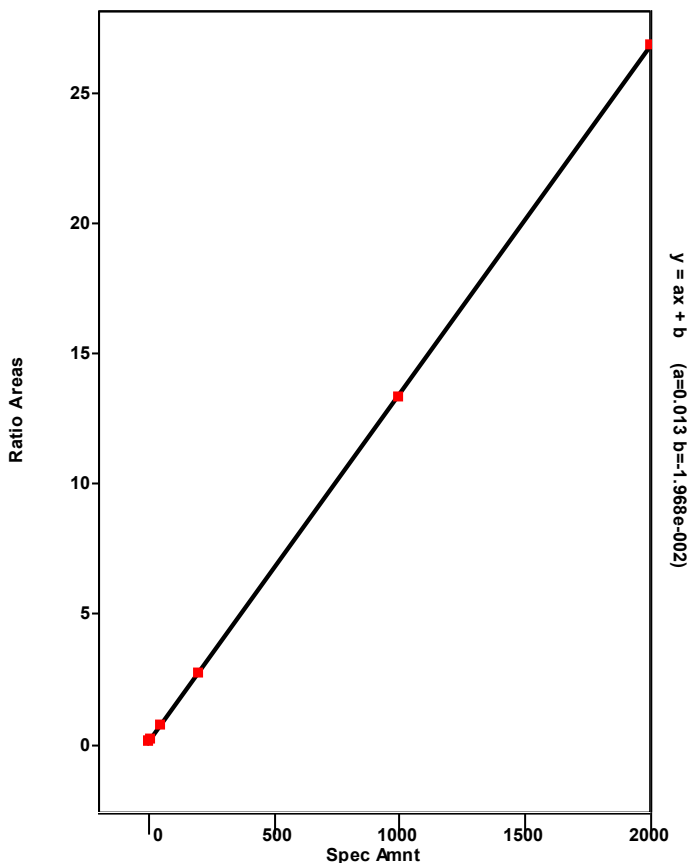


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	65713
RM1 Area	66967
RM1 Ratio (A)	1.0191
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.71
Percent Recovery (A)	---
TEQ (A)	0.0471
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

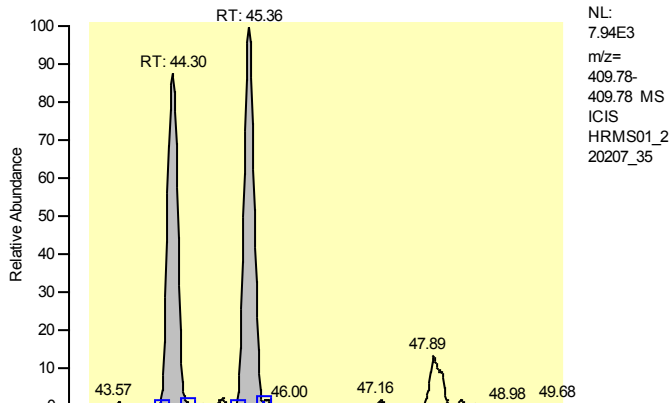
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

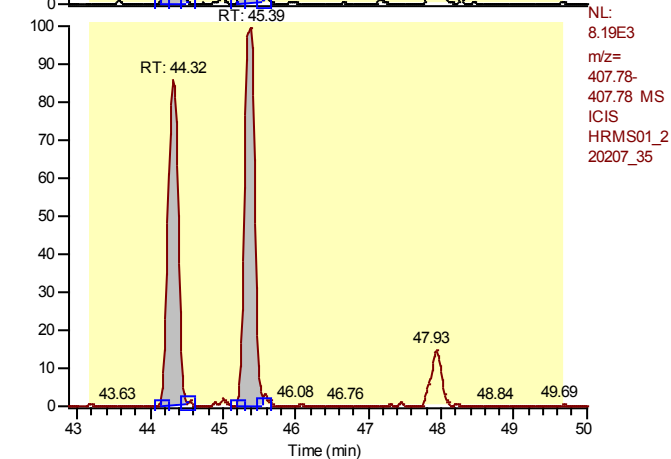
Entry Parameters

RT: 42.87 - 50.02 SM: 7G



NL:
 7.94E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	136555
RM1 Area	142802
RM1 Ratio (A)	1.0457
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	10.41
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

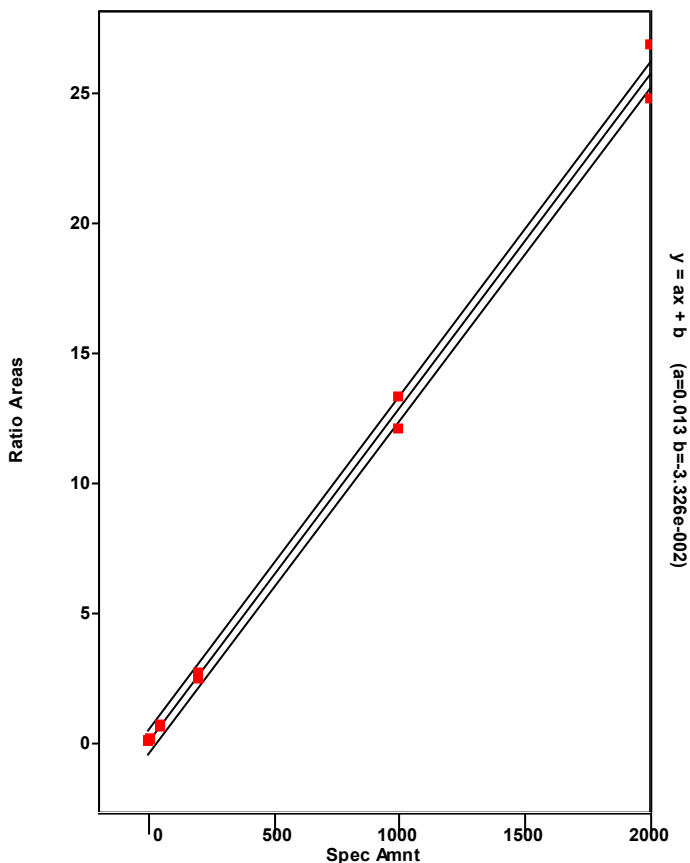


NL:
 8.19E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

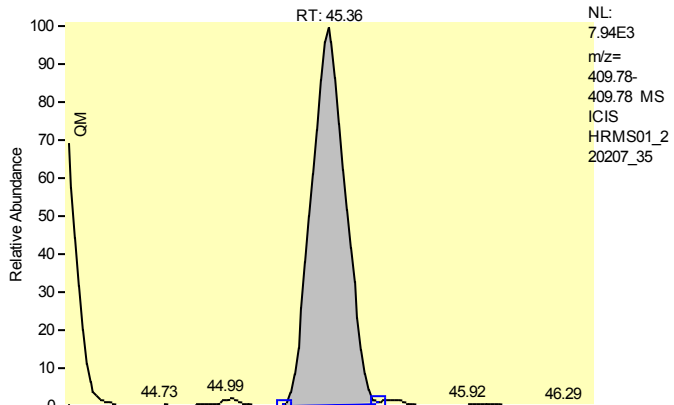
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

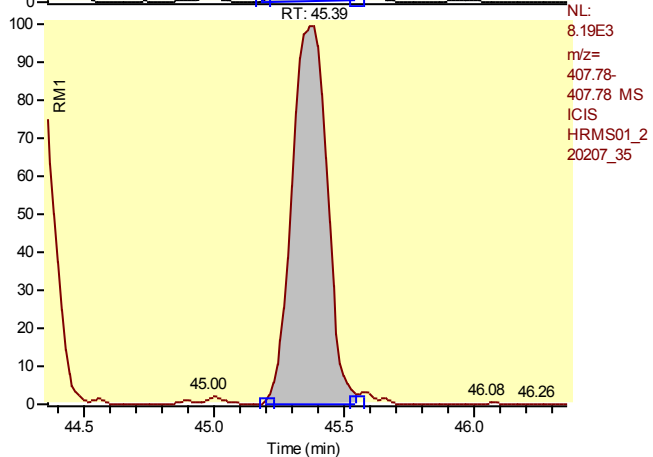
Entry Parameters

RT: 44.36 - 46.36 SM: 7G



NL:
 7.94E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	70841
RM1 Area	75835
RM1 Ratio (A)	1.0705
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	5.47
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

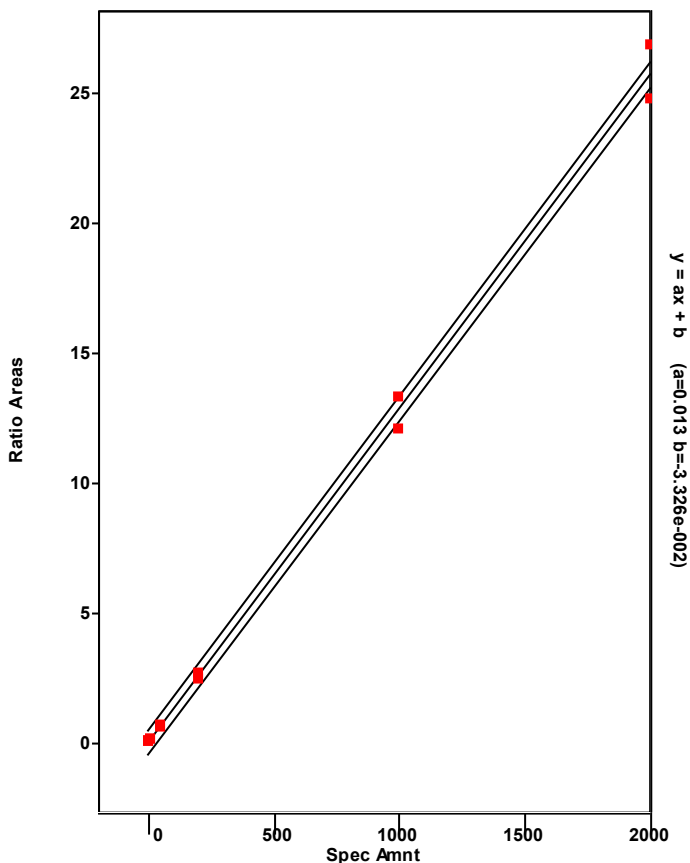


NL:
 8.19E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

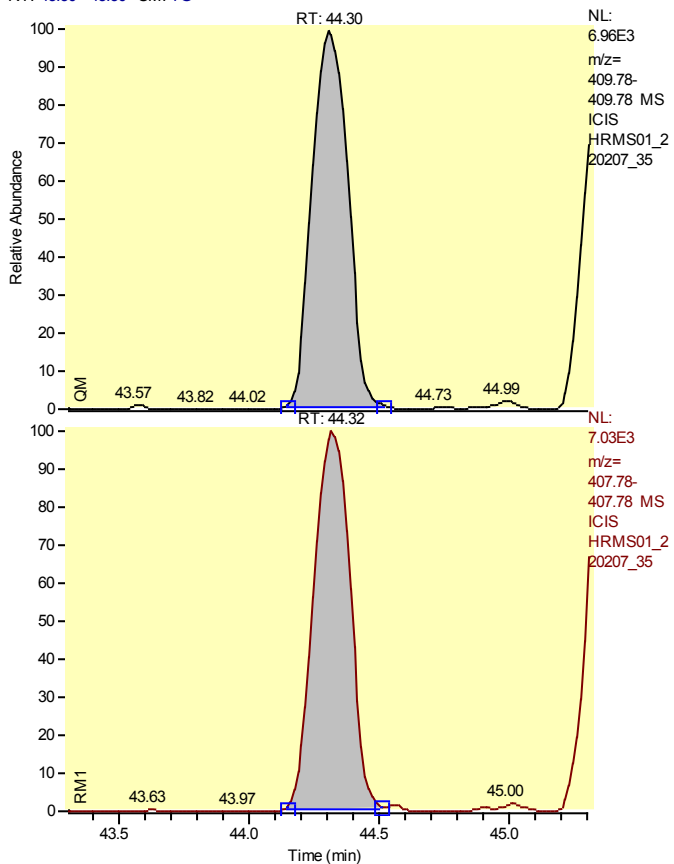
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.30 - 45.30 SM: 7G

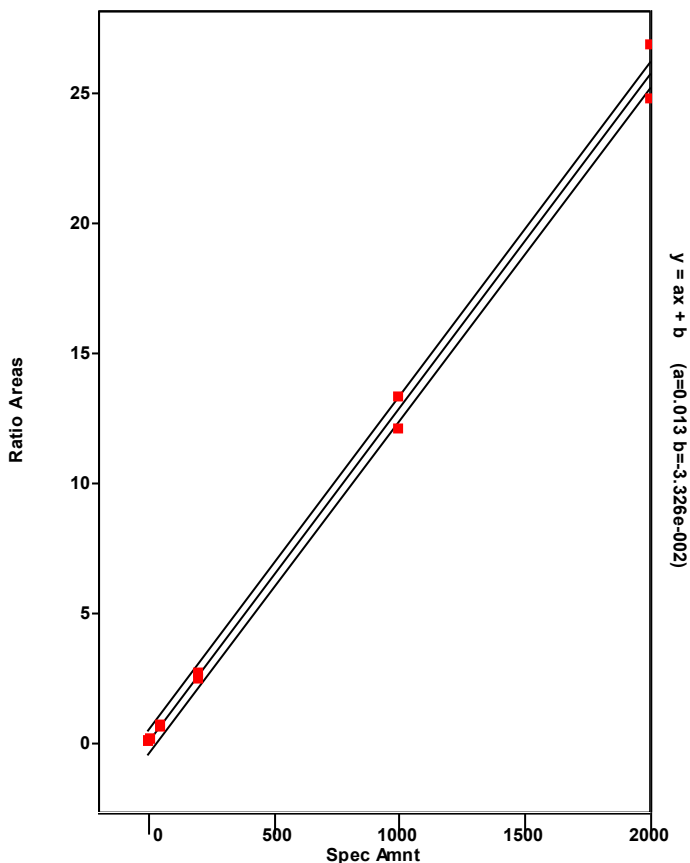


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	65713
RM1 Area	66967
RM1 Ratio (A)	1.0191
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.95
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

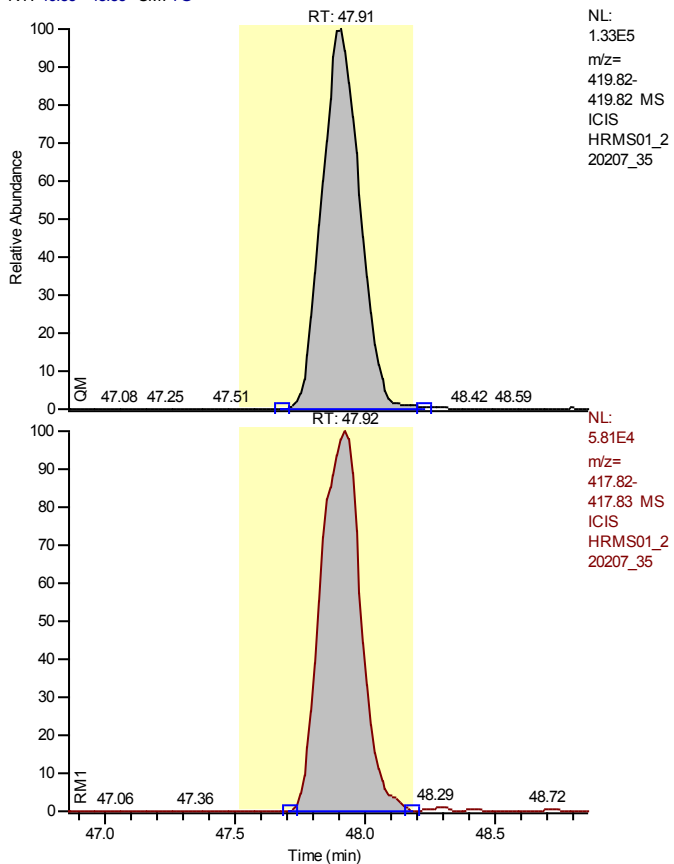
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.85 - 48.85 SM: 7G



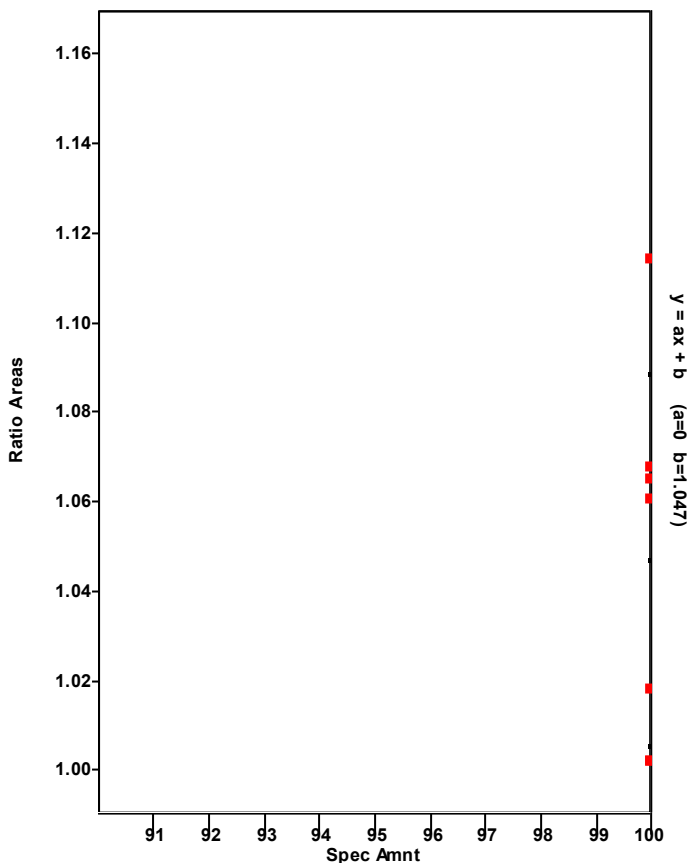
NL:
 1.33E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1347836
RM1 Area	622619
RM1 Ratio (A)	0.4619
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	68.51
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	

NL:
 5.81E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_35

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

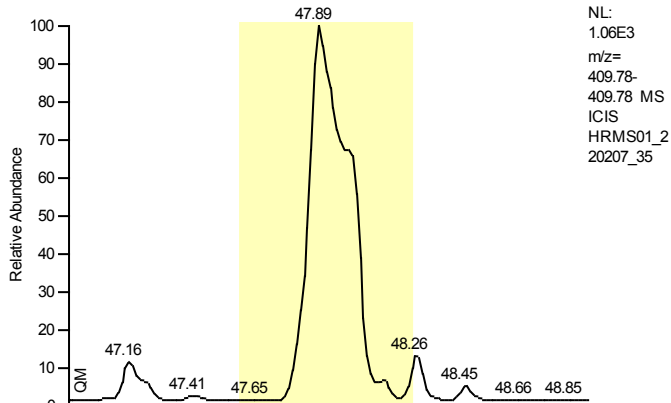
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

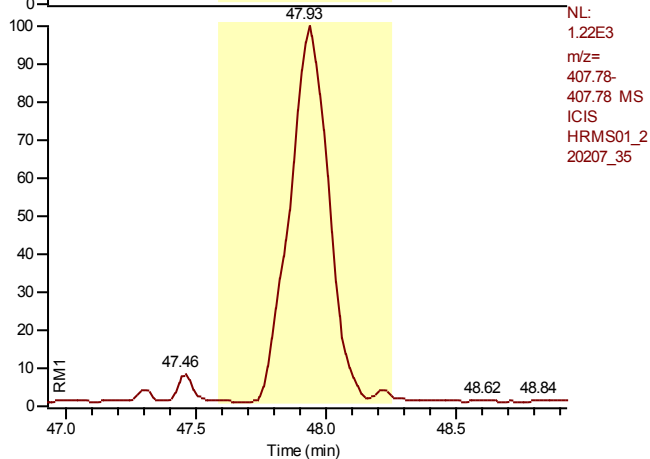
Entry Parameters

RT: 46.93 - 48.93 SM: 7G



NL:
 1.06E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

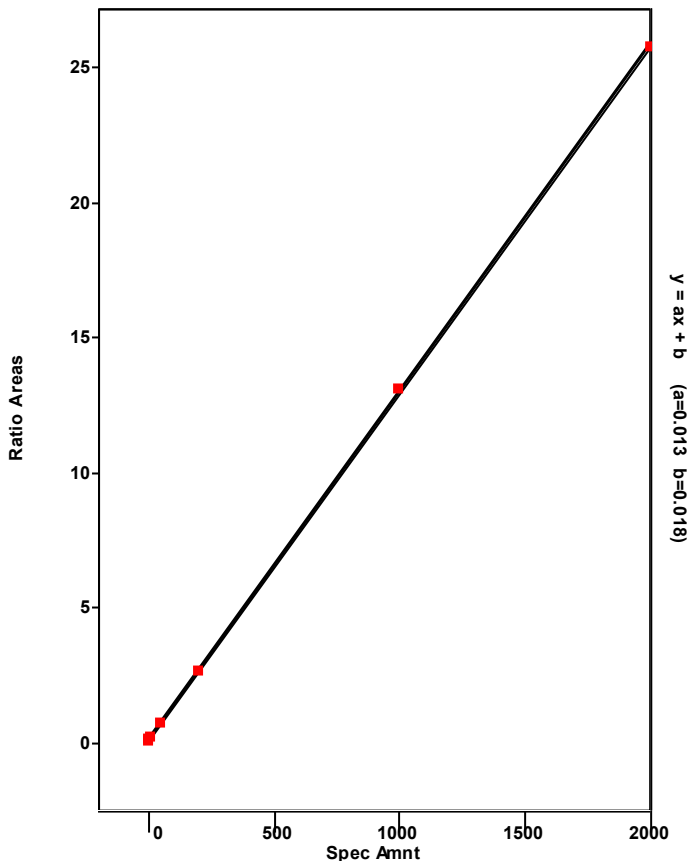


NL:
 1.22E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_35

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

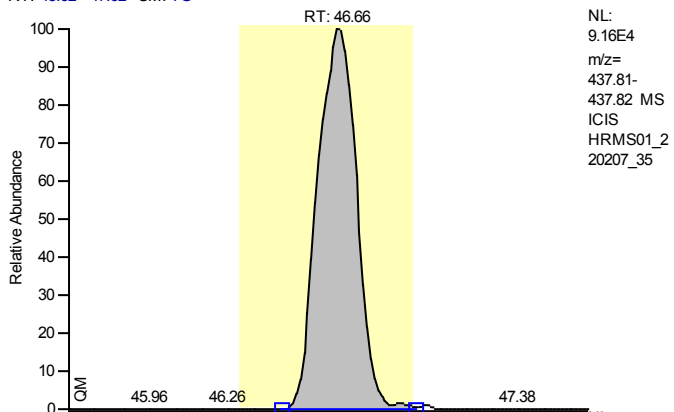
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



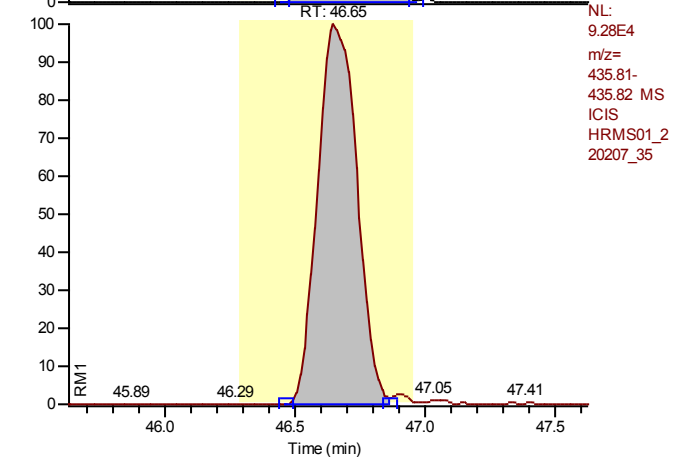
Chromatogram

Entry Parameters

RT: 45.62 - 47.62 SM: 7G

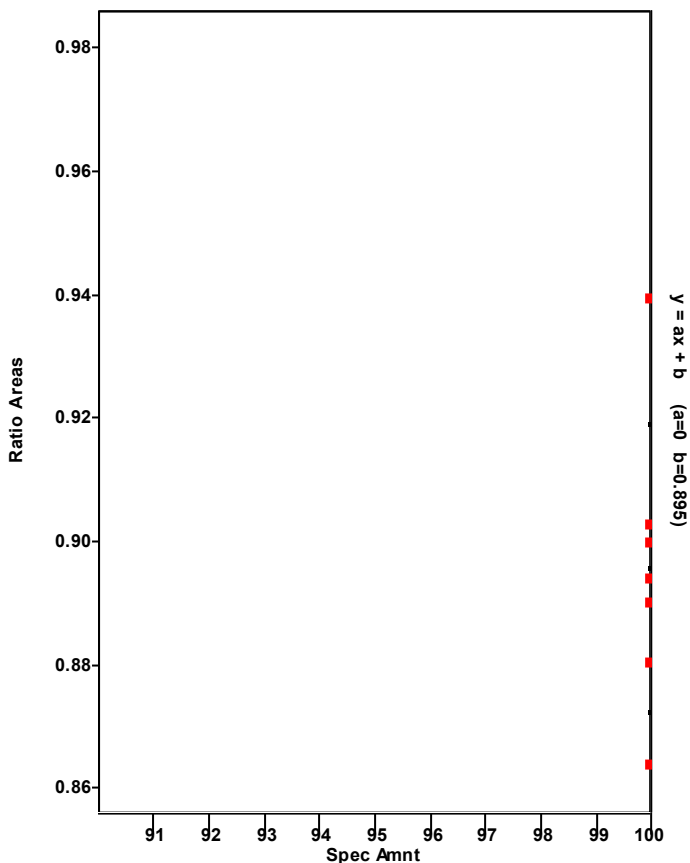


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	958893
RM1 Area	978055
RM1 Ratio (A)	1.0200
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	78.72
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

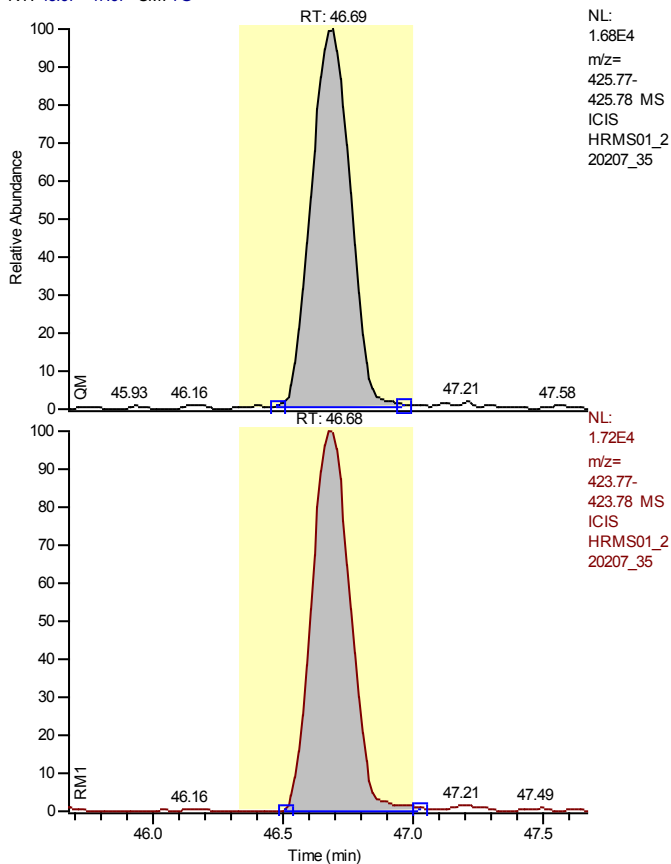
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

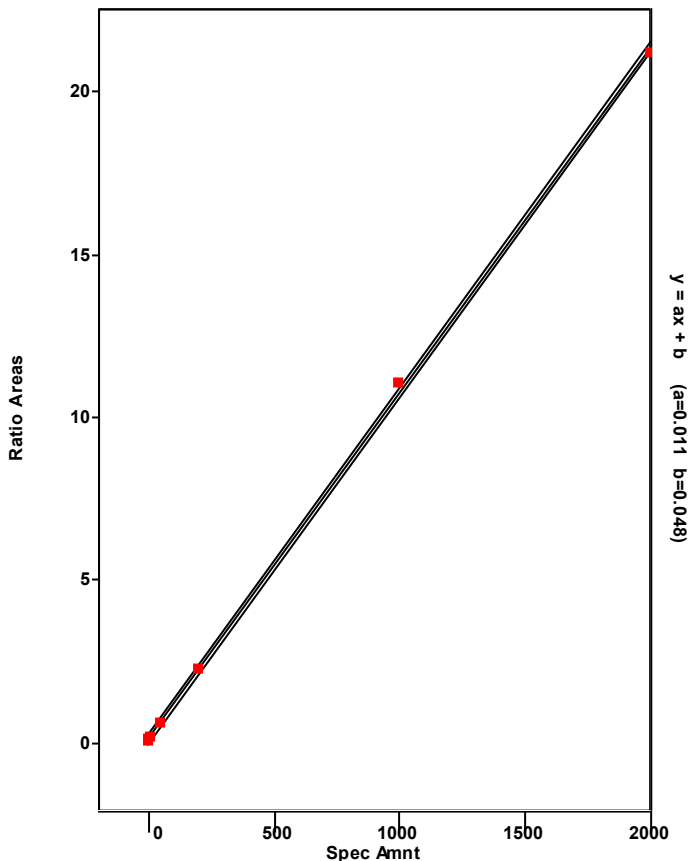


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	172148
RM1 Area	174202
RM1 Ratio (A)	1.0119
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	16.13
Percent Recovery (A)	---
TEQ (A)	0.1613
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

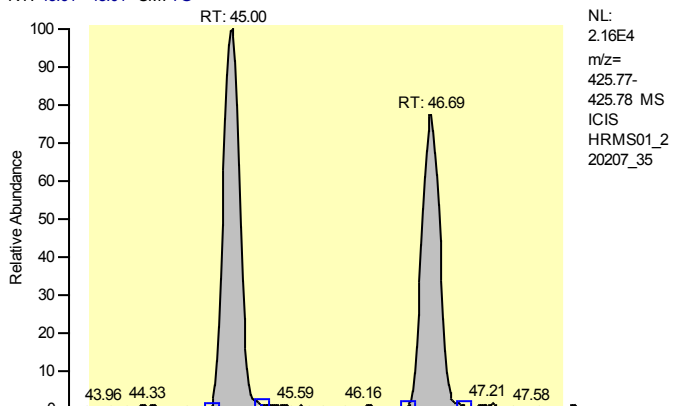
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



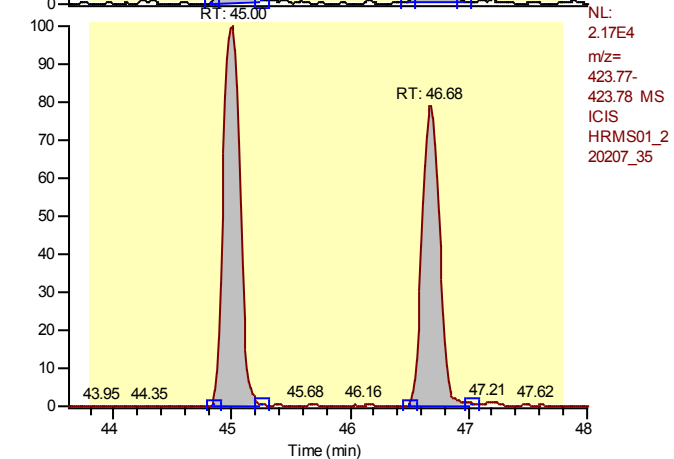
Chromatogram

Entry Parameters

RT: 43.61 - 48.01 SM: 7G



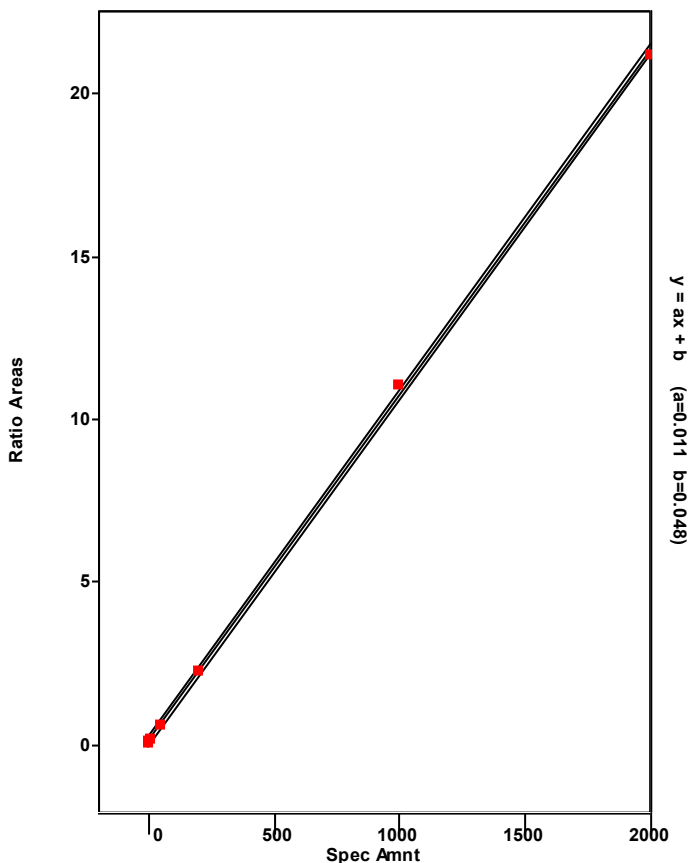
Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	379489
RM1 Area	387569
RM1 Ratio (A)	1.0213
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	35.73
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

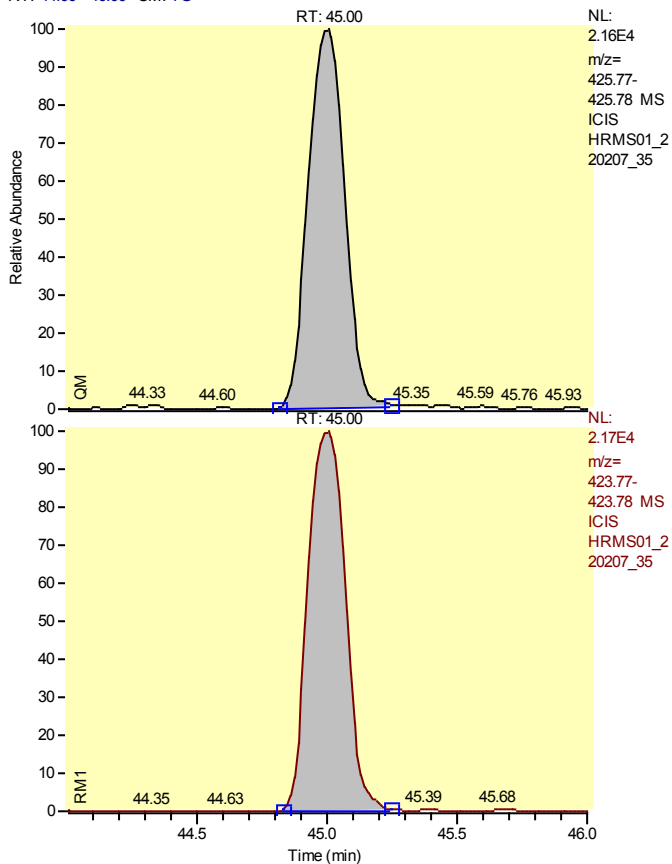
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.00 - 46.00 SM: 7G

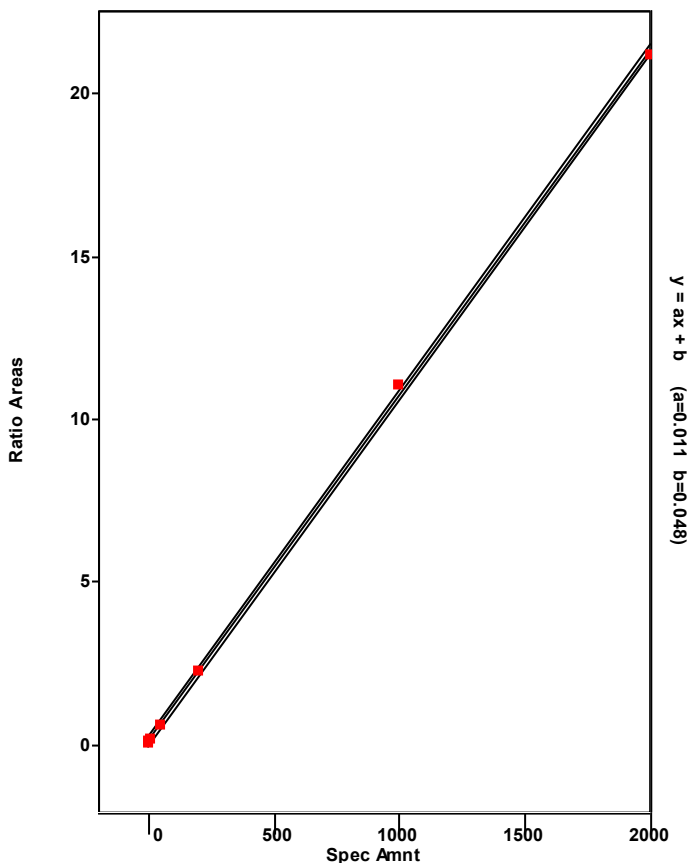


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	207341
RM1 Area	213367
RM1 Ratio (A)	1.0291
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	19.60
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

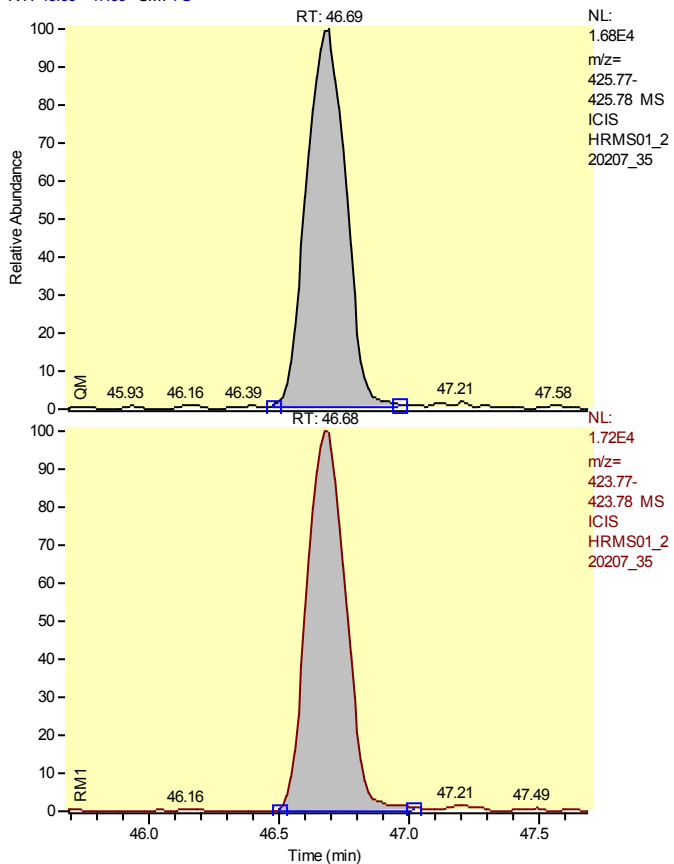
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.69 - 47.69 SM: 7G

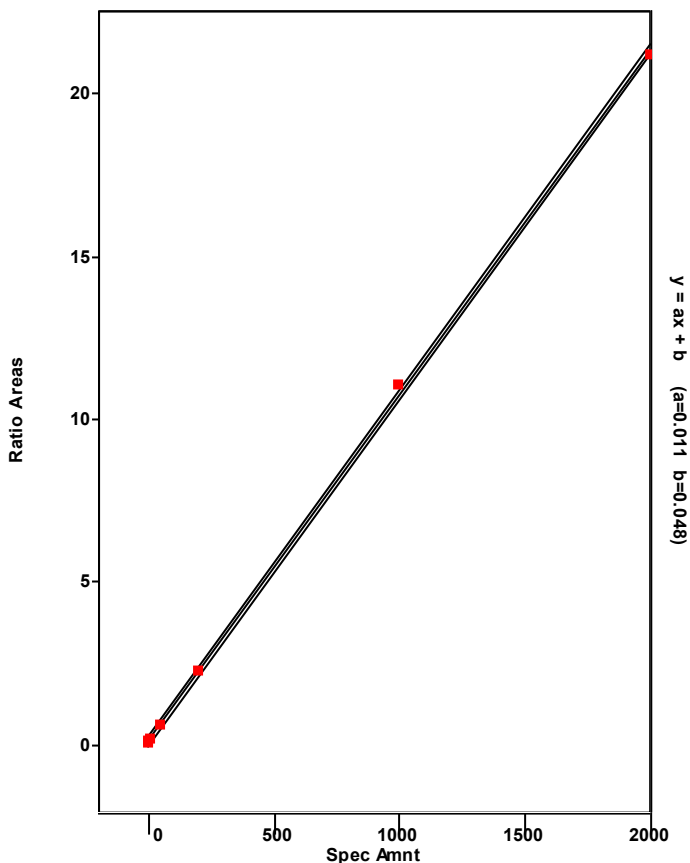


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	172148
RM1 Area	174202
RM1 Ratio (A)	1.0119
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	16.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

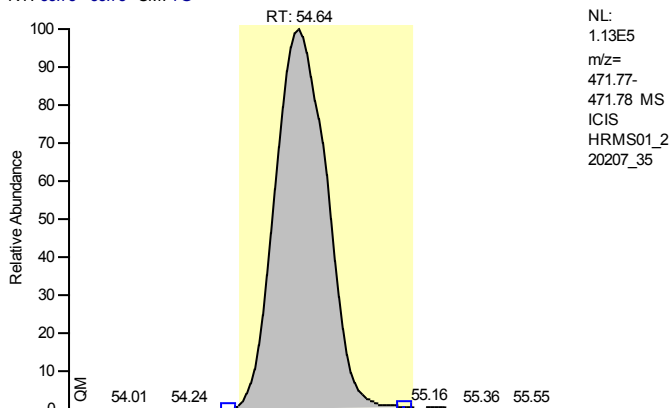
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



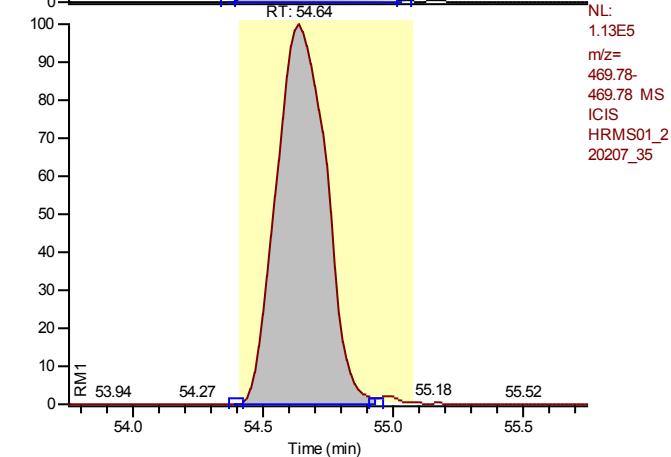
Chromatogram

Entry Parameters

RT: 53.75- 55.75 SM: 7G



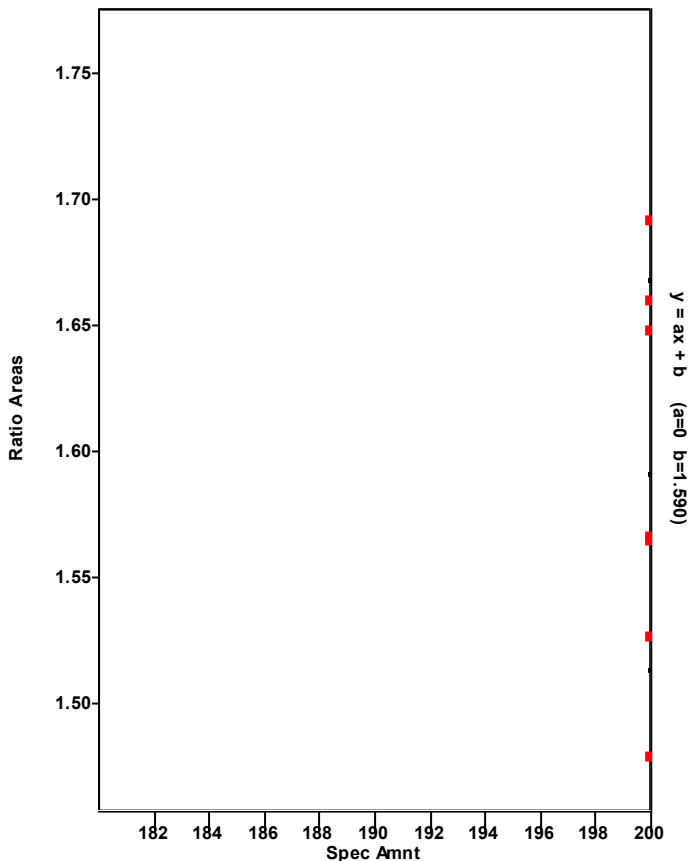
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1557484
RM1 Area	1513996
RM1 Ratio (A)	0.9721
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	140.60
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

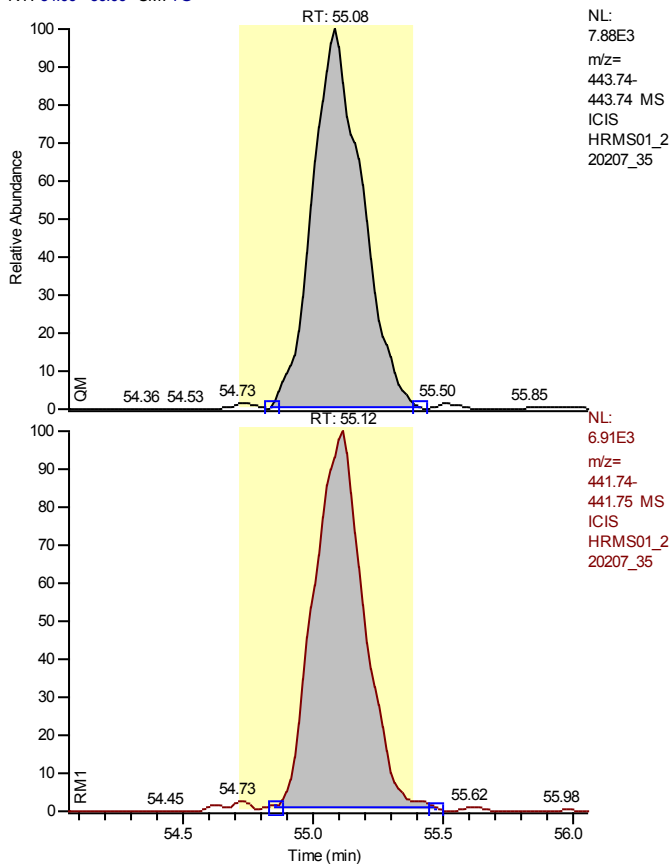
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.06 - 56.06 SM: 7G

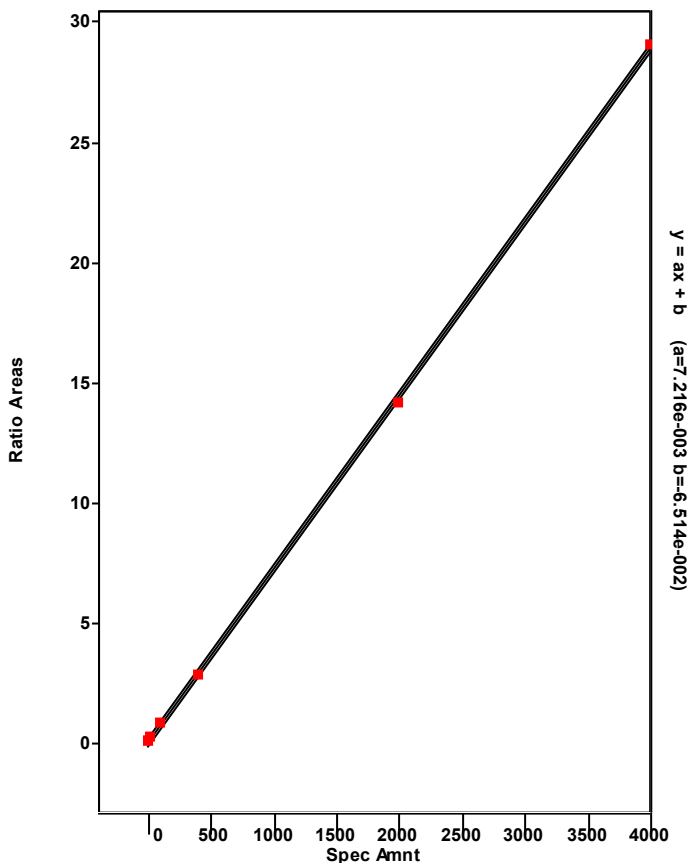


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	104107
RM1 Area	91185
RM1 Ratio (A)	0.8759
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	9.03
Percent Recovery (A)	---
TEQ (A)	0.0027
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

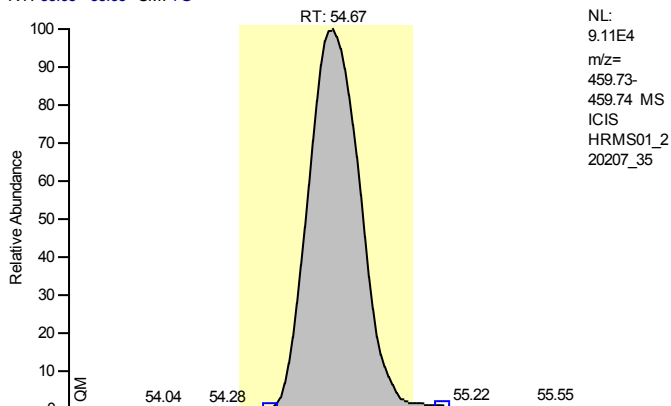
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



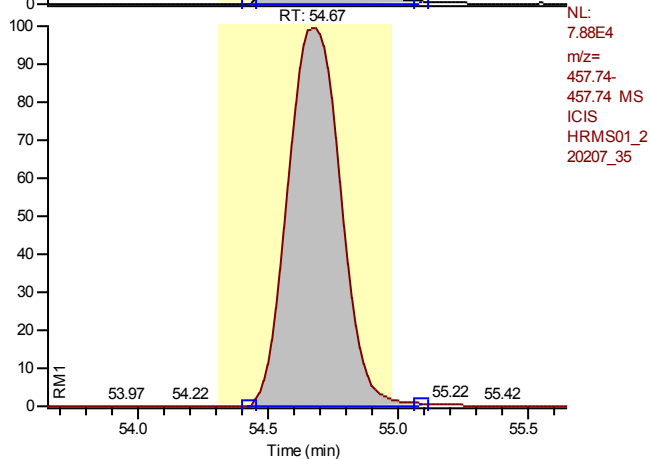
Chromatogram

Entry Parameters

RT: 53.65 - 55.65 SM: 7G



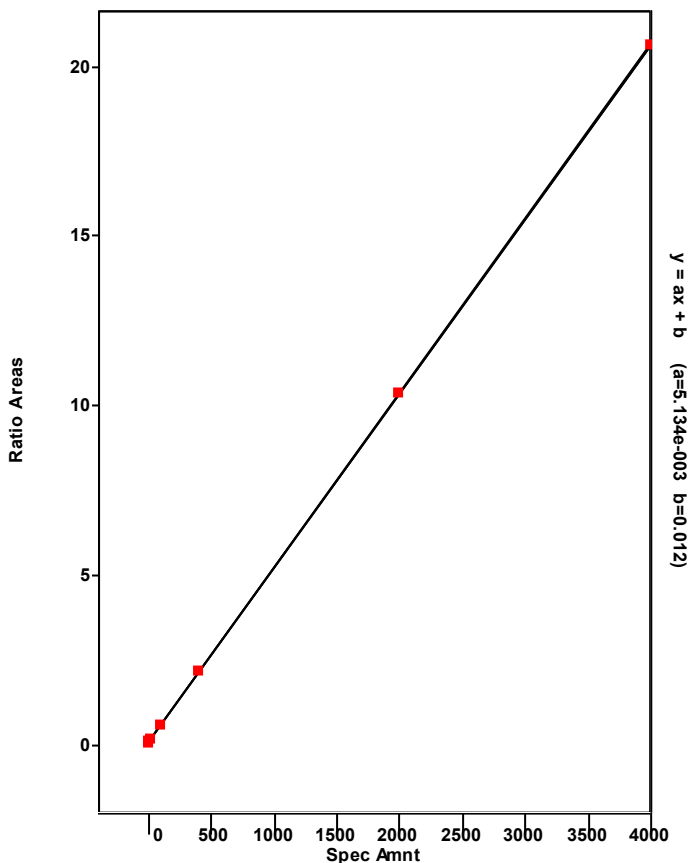
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	1254328
RM1 Area	1105270
RM1 Ratio (A)	0.8812
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	145.00
Percent Recovery (A)	---
TEQ (A)	0.0435
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

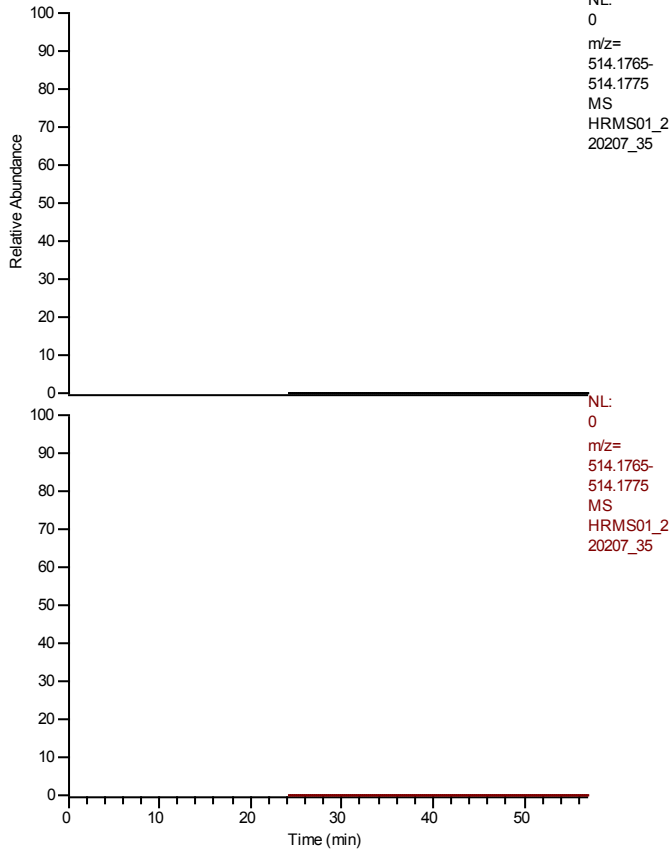
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

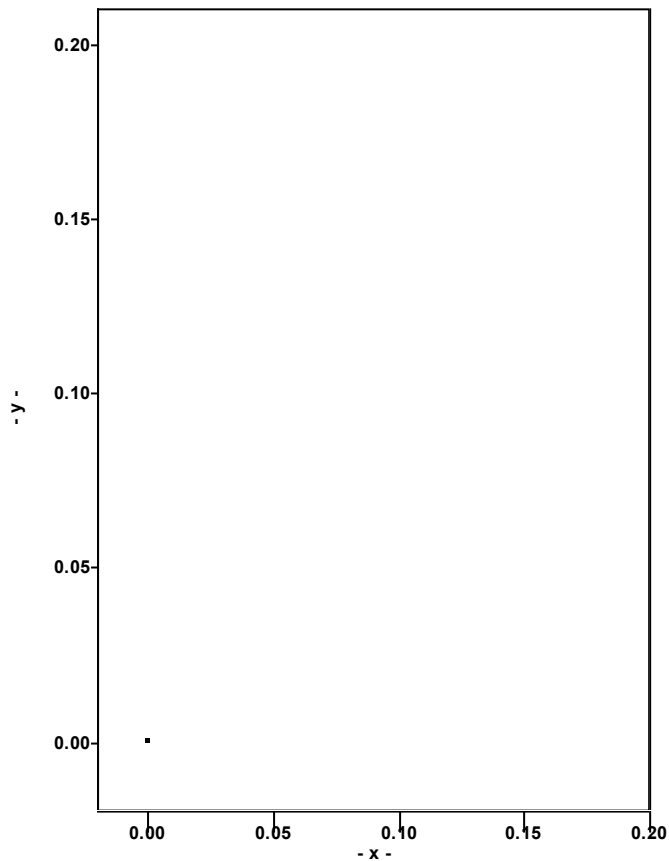
RT: 0.00 - 57.01 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	1682151
RM1 Area	1557231
RM1 Ratio (A)	0.9257
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	181.78
Percent Recovery (A)	---
TEQ (A)	0.7689
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 18:19
Number of Entries	94
Comment	
Vial	117
Sample Name	L2202953-09
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_37_seq
Data	hrms01_220207_37
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD	13C12 STD	1326206	1087257	0.8198	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	13C12 STD	1322518	1004785	0.7598	0.6500 - 0.8900	100.00	57.04	57	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	232887	180107	0.7734	0.6500 - 0.8900	0.00	17.22	---	1.7217
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	874252	651353	0.7425	0.6500 - 0.8900	0.00	63.60	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	208772	155312	0.7439	0.6500 - 0.8900	0.00	15.18	---	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	39713	34889	0.8785	0.6500 - 0.8900	0.00	3.11	---	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	118969	83133	0.6988	0.6500 - 0.8900	0.00	8.43	---	0.0000
8	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	232887	180107	0.7734	0.6500 - 0.8900	0.00	17.22	---	0.0000
9	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	34501	30493	0.8838	0.6500 - 0.8900	0.00	2.71	---	0.0000
10	Total Tetrachlorodibenzofuran__7	Single native TCDF	CAS# 55722-27-5	51535	36441	0.7071	0.6500 - 0.8900	0.00	3.67	---	0.0000
11	Total Tetrachlorodibenzofuran__8	Single native TCDF	CAS# 55722-27-5	17798	11941	0.6709	0.6500 - 0.8900	0.00	1.24	---	0.0000
12	Total Tetrachlorodibenzofuran__9	Single native TCDF	CAS# 55722-27-5	56097	36744	0.6550	0.6500 - 0.8900	0.00	3.87	---	0.0000
13	Total Tetrachlorodibenzofuran__10	Single native TCDF	CAS# 55722-27-5	16317	10875	0.6665	0.6500 - 0.8900	0.00	1.13	---	0.0000
14	Total Tetrachlorodibenzofuran__11	Single native TCDF	CAS# 55722-27-5	14178	8252	0.5820	0.6500 - 0.8900	0.00	n.d. < 0.94	---	n.d.
15	Total Tetrachlorodibenzofuran__12	Single native TCDF	CAS# 55722-27-5	7600	4312	0.5674	0.6500 - 0.8900	0.00	n.d. < 0.50	---	n.d.
16	Total Tetrachlorodibenzofuran__13	Single native TCDF	CAS# 55722-27-5	9507	12889	1.3557	0.6500 - 0.8900	0.00	n.d. < 0.93	---	n.d.
17	Total Tetrachlorodibenzofuran__14	Single native TCDF	CAS# 55722-27-5	34879	24951	0.7154	0.6500 - 0.8900	0.00	2.49	---	0.0000
18	Total Tetrachlorodibenzofuran__15	Single native TCDF	CAS# 55722-27-5	31500	21016	0.6672	0.6500 - 0.8900	0.00	2.19	---	0.0000
19	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	13C12 STD	860456	743275	0.8638	0.6500 - 0.8900	100.00	55.96	56	0.0000
20	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	5243	5031	0.9596	0.6500 - 0.8900	0.00	n.d. < 0.58	---	n.d.
21	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	51906	39890	0.7724	0.6500 - 0.8900	0.00	5.19	---	0.0000
22	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	15013	11895	0.7923	0.6500 - 0.8900	0.00	1.52	---	0.0000
23	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	5029	5184	1.0307	0.6500 - 0.8900	0.00	n.d. < 0.58	---	n.d.
24	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	2917	1954	0.6701	0.6500 - 0.8900	0.00	0.28	---	0.0000
25	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	12727	11387	0.8947	0.6500 - 0.8900	0.00	n.d. < 1.36	---	n.d.
26	Total Tetrachlorodibenzo-p-dioxin__6	Single native TCDD	CAS# 41903-57-5	5297	5099	0.9626	0.6500 - 0.8900	0.00	n.d. < 0.59	---	n.d.
27	Total Tetrachlorodibenzo-p-dioxin__7	Single native TCDD	CAS# 41903-57-5	3599	2216	0.6157	0.6500 - 0.8900	0.00	n.d. < 0.33	---	n.d.
28	Total Tetrachlorodibenzo-p-dioxin__8	Single native TCDD	CAS# 41903-57-5	7324	2156	0.2943	0.6500 - 0.8900	0.00	n.d. < 0.54	---	n.d.
29	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	13C12 STD	779848	1235587	1.5844	1.3200 - 1.7800	100.00	60.45	60	0.0000
30	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	187263	274622	1.4665	1.3200 - 1.7800	0.00	22.78	---	0.6834
31	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	633934	961022	1.5160	1.3200 - 1.7800	0.00	74.70	---	0.0000
32	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	187263	274622	1.4665	1.3200 - 1.7800	0.00	21.63	---	0.0000
33	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	122188	180367	1.4761	1.3200 - 1.7800	0.00	14.17	---	0.0000
34	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	134876	206319	1.5297	1.3200 - 1.7800	0.00	15.98	---	0.0000
35	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	50433	82274	1.6313	1.3200 - 1.7800	0.00	6.22	---	0.0000
36	Total Pentachlorodibenzofuran__5	Single native PeCDF	CAS# 30402-15-4	99308	162084	1.6321	1.3200 - 1.7800	0.00	12.24	---	0.0000
37	Total Pentachlorodibenzofuran__6	Single native PeCDF	CAS# 30402-15-4	20921	29198	1.3956	1.3200 - 1.7800	0.00	2.35	---	0.0000
38	Total Pentachlorodibenzofuran__7	Single native PeCDF	CAS# 30402-15-4	18945	26160	1.3808	1.3200 - 1.7800	0.00	2.11	---	0.0000

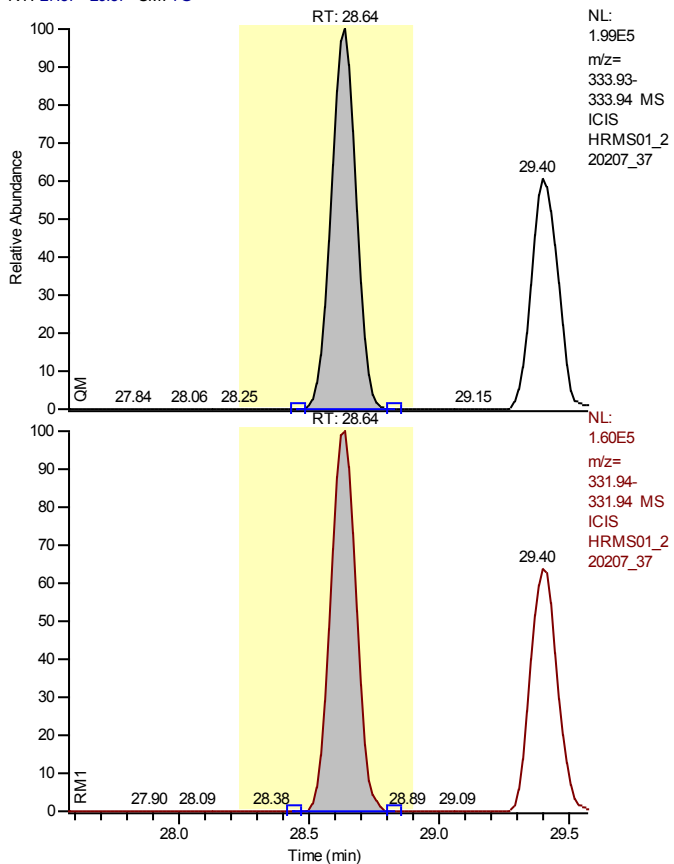
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		743295	1224318	1.6471	1.3200 - 1.7800	100.00	59.19	59	0.0000
40	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	99308	162084	1.6321	1.3200 - 1.7800	0.00	11.89	---	3.5658
41	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		539463	852473	1.5802	1.3200 - 1.7800	100.00	61.71	62	0.0000
42	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	9195	14424	1.5687	1.3200 - 1.7800	0.00	1.70	---	0.0000
43	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	60996	91050	1.5484	1.3200 - 1.7800	0.00	10.95	---	0.0000
44	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	21780	33411	1.5340	1.3200 - 1.7800	0.00	3.98	---	0.0000
45	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	9277	14579	1.5716	1.3200 - 1.7800	0.00	1.72	---	0.0000
46	Total Pentachlorodibenzo-p-dioxin__4	Single native PeCDD	CAS# 36088-22-9	10393	14461	1.3913	1.3200 - 1.7800	0.00	1.79	---	0.0000
47	Total Pentachlorodibenzo-p-dioxin__5	Single native PeCDD	CAS# 36088-22-9	10579	12981	1.2271	1.3200 - 1.7800	0.00	n.d. < 1.70	---	n.d.
48	Total Pentachlorodibenzo-p-dioxin__6	Single native PeCDD	CAS# 36088-22-9	8967	15618	1.7417	1.3200 - 1.7800	0.00	1.77	---	0.0000
49	37C14-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37C14 STD		306930	306930	1.0000	0.8500 - 1.1500	10.00	10.55	106	0.0000
50	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1057829	1340820	1.2675	1.0500 - 1.4300	100.00	100.00	100	0.0000
51	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1179948	628517	0.5327	0.4300 - 0.5900	100.00	65.54	66	0.0000
52	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	493103	638107	1.2941	1.0500 - 1.4300	0.00	50.17	---	5.0168
53	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	1178899	1482405	1.2574	1.0500 - 1.4300	0.00	115.98	---	0.0000
54	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	493103	638107	1.2941	1.0500 - 1.4300	0.00	49.30	---	0.0000
55	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	203468	249253	1.2250	1.0500 - 1.4300	0.00	19.73	---	0.0000
56	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	208801	255670	1.2245	1.0500 - 1.4300	0.00	20.24	---	0.0000
57	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	119413	136440	1.1426	1.0500 - 1.4300	0.00	11.15	---	0.0000
58	Total Hexachlorodibenzofuran__5	Single native HxCDF	CAS# 55684-94-1	69249	83883	1.2113	1.0500 - 1.4300	0.00	6.67	---	0.0000
59	Total Hexachlorodibenzofuran__6	Single native HxCDF	CAS# 55684-94-1	43778	61793	1.4115	1.0500 - 1.4300	0.00	4.60	---	0.0000
60	Total Hexachlorodibenzofuran__7	Single native HxCDF	CAS# 55684-94-1	41088	57259	1.3936	1.0500 - 1.4300	0.00	4.29	---	0.0000
61	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1165908	581763	0.4990	0.4300 - 0.5900	100.00	57.31	57	0.0000
62	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	119413	136440	1.1426	1.0500 - 1.4300	0.00	12.33	---	1.2330
63	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1095989	615584	0.5617	0.4300 - 0.5900	100.00	58.06	58	0.0000
64	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	44317	61793	1.3943	1.0500 - 1.4300	0.00	5.02	---	0.5019
65	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1057971	551111	0.5209	0.4300 - 0.5900	100.00	56.93	57	0.0000
66	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	41088	57259	1.3936	1.0500 - 1.4300	0.00	5.23	---	0.5228
67	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		597428	713650	1.1945	1.0500 - 1.4300	100.00	62.00	62	0.0000
68	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	11533	15462	1.3407	1.0500 - 1.4300	0.00	1.88	---	0.0000
69	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	581208	744317	1.2806	1.0500 - 1.4300	0.00	90.69	---	0.0000
70	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	278683	357914	1.2843	1.0500 - 1.4300	0.00	43.55	---	0.0000
71	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	150413	179281	1.1919	1.0500 - 1.4300	0.00	22.56	---	0.0000
72	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	95780	134490	1.4042	1.0500 - 1.4300	0.00	15.75	---	0.0000
73	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	18354	22455	1.2234	1.0500 - 1.4300	0.00	2.79	---	0.0000
74	Total Hexachlorodibenzo-p-dioxin__5	Single native HxCDD	CAS# 34465-46-8	37978	50178	1.3212	1.0500 - 1.4300	0.00	6.03	---	0.0000
75	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		557764	786505	1.4101	1.0500 - 1.4300	100.00	63.57	64	0.0000
76	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	88172	120106	1.3622	1.0500 - 1.4300	0.00	14.14	---	1.4140

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
77	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	37978	50178	1.3212	1.0500 - 1.4300	0.00	5.68	---	0.5676
78	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1016304	436864	0.4299	0.3700 - 0.5100	100.00	53.65	54	0.0000
79	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	538039	556641	1.0346	0.8800 - 1.2000	0.00	55.83	---	0.5583
80	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1313818	1389456	1.0576	0.8800 - 1.2000	0.00	144.80	---	0.0000
81	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	669292	721961	1.0787	0.8800 - 1.2000	0.00	74.52	---	0.0000
82	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	538039	556641	1.0346	0.8800 - 1.2000	0.00	58.64	---	0.0000
83	Total Heptachlorodibenzofuran__3	Single native HpCDF	CAS# 38998-75-3	106487	110854	1.0410	0.8800 - 1.2000	0.00	11.64	---	0.0000
84	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		926694	418363	0.4515	0.3700 - 0.5100	100.00	53.58	54	0.0000
85	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	106487	110854	1.0410	0.8800 - 1.2000	0.00	12.28	---	0.1228
86	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		665137	701048	1.0540	0.8800 - 1.2000	100.00	63.62	64	0.0000
87	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1700527	1775965	1.0444	0.8800 - 1.2000	0.00	229.60	---	2.2960
88	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	3405462	3575496	1.0499	0.8800 - 1.2000	0.00	461.06	---	0.0000
89	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1704935	1799531	1.0555	0.8800 - 1.2000	0.00	231.45	---	0.0000
90	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	1700527	1775965	1.0444	0.8800 - 1.2000	0.00	229.60	---	0.0000
91	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1224313	1088472	0.8890	0.7600 - 1.0200	200.00	121.31	61	0.0000
92	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1032143	901750	0.8737	0.7600 - 1.0200	0.00	118.81	---	0.0356
93	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	15065438	13491420	0.8955	0.7600 - 1.0200	0.00	2330.46	---	0.6991
94	overall TEQ	overall TEQ test		19806890	18547213	0.9364	0.0000 - 0.0000	0.00	2895.01	---	18.9389

Chromatogram

Entry Parameters

RT: 27.57 - 29.57 SM: 7G

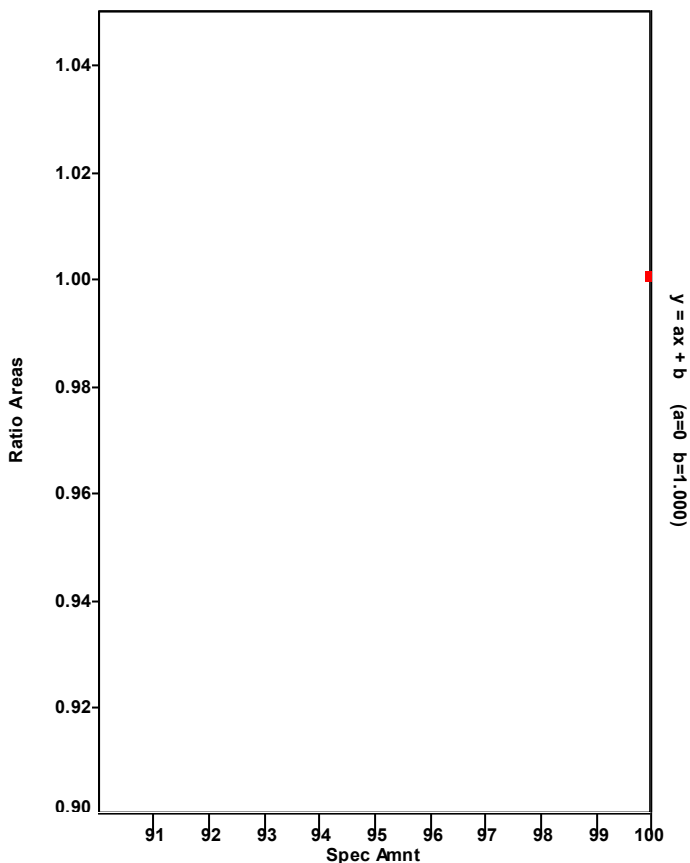


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1326206
RM1 Area	1087257
RM1 Ratio (A)	0.8198
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

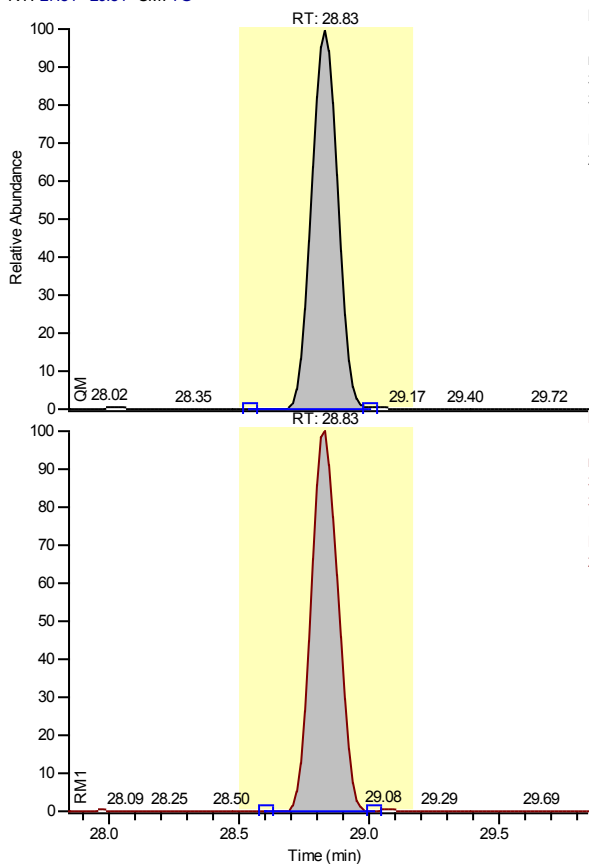
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



NL:
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 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20207_37

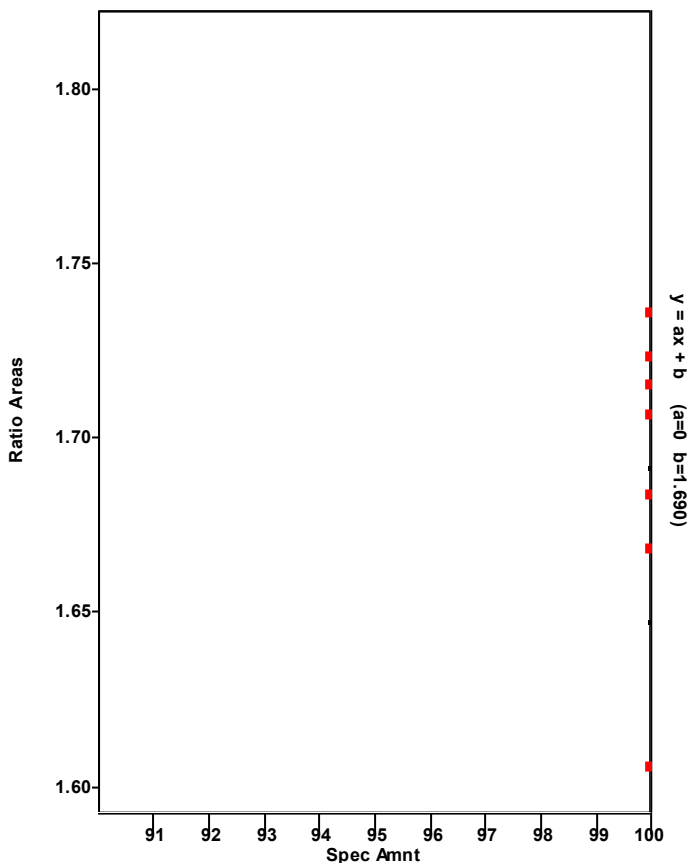
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1322518
RM1 Area	1004785
RM1 Ratio (A)	0.7598
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	57.04
Percent Recovery (A)	57
TEQ (A)	0.0000
Label2	

NL:
 1.41E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

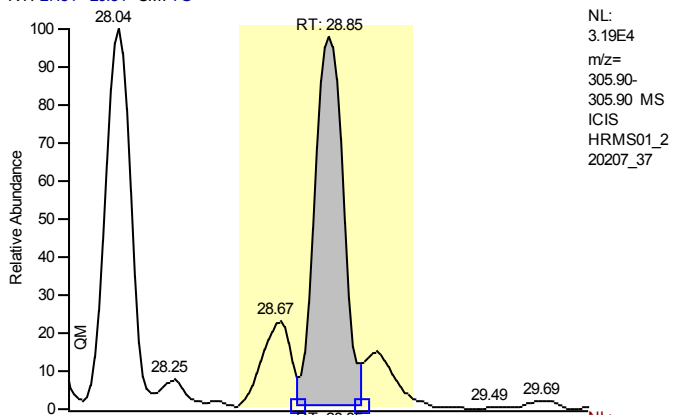
Linear Fit: StdDev = 0.044 RSD = 2.617 CF = 0.000000



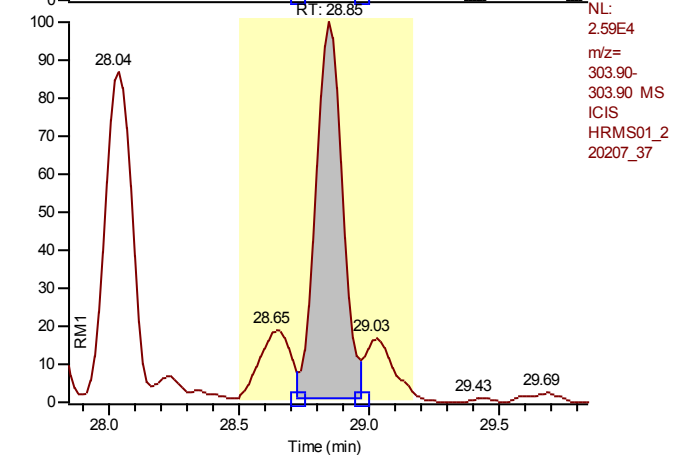
Chromatogram

Entry Parameters

RT: 27.84 - 29.84 SM: 7G



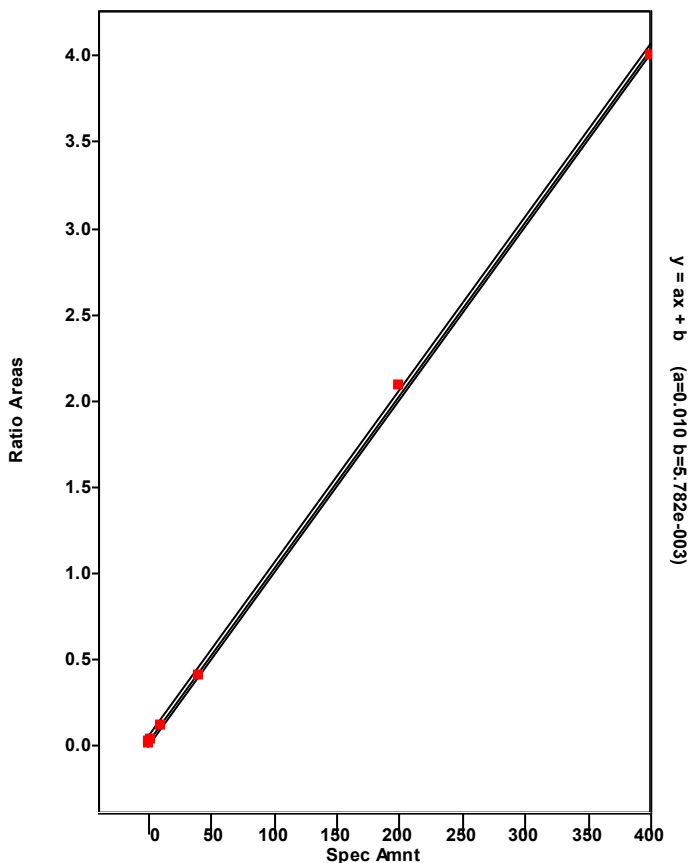
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	232887
RM1 Area	180107
RM1 Ratio (A)	0.7734
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	17.22
Percent Recovery (A)	---
TEQ (A)	1.7217
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

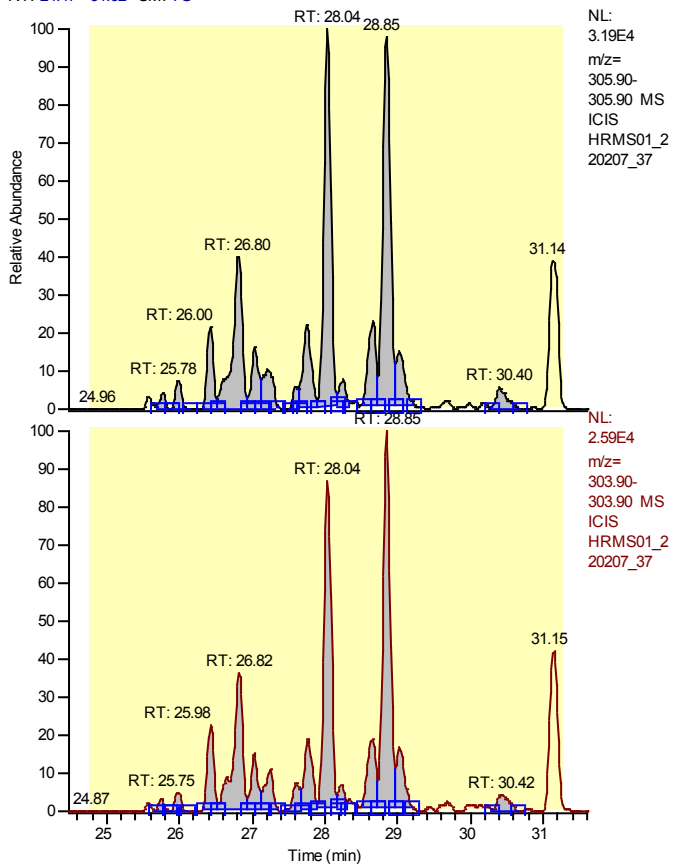
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.47 - 31.62 SM: 7G

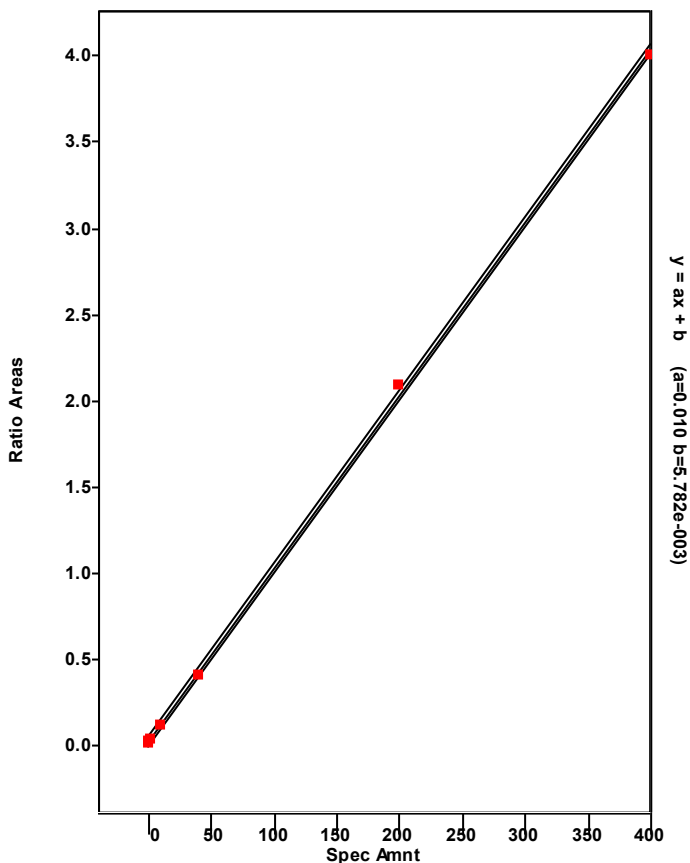


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	874252
RM1 Area	651353
RM1 Ratio (A)	0.7425
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	63.60
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

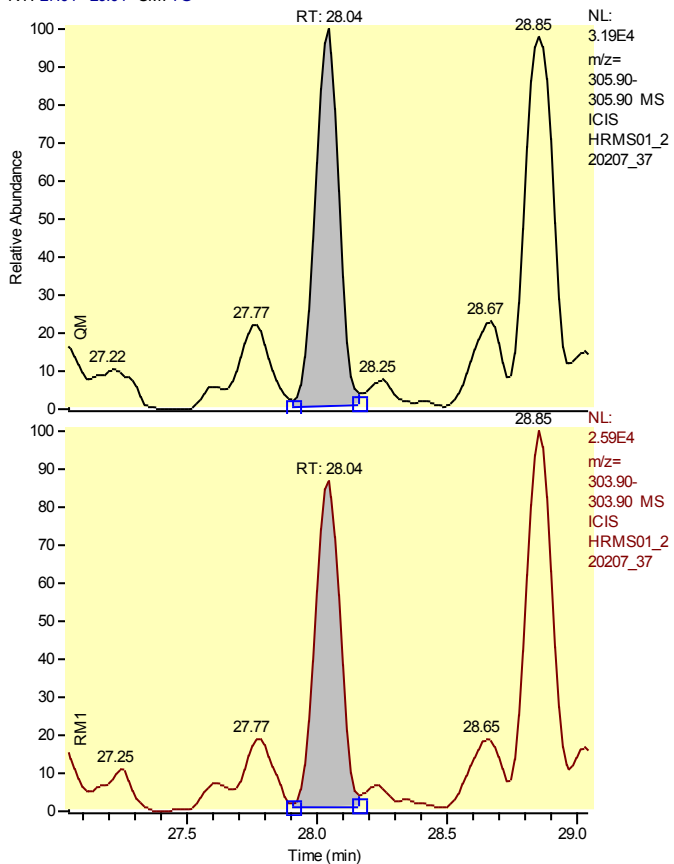
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.04 - 29.04 SM: 7G

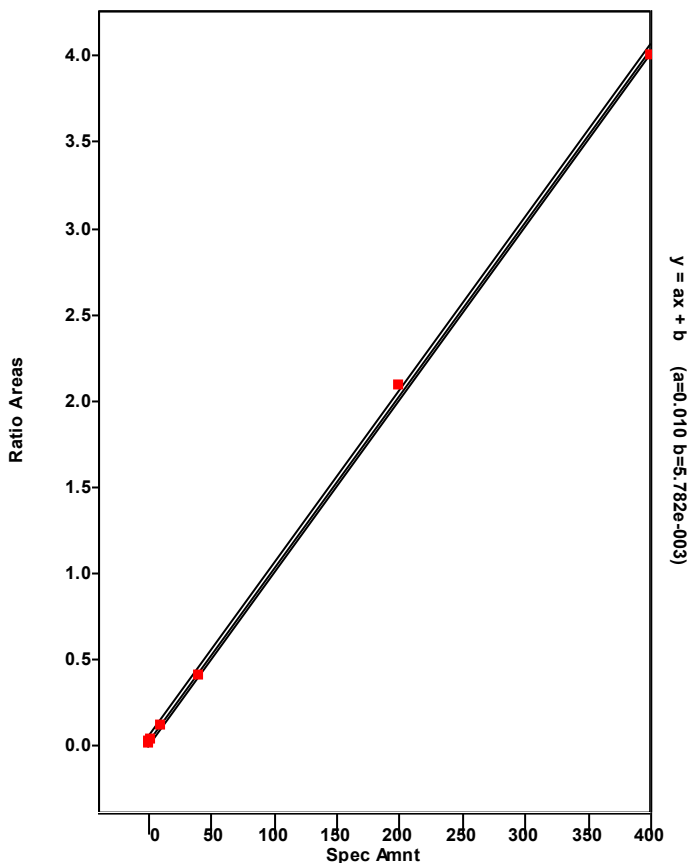


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	208772
RM1 Area	155312
RM1 Ratio (A)	0.7439
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	15.18
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

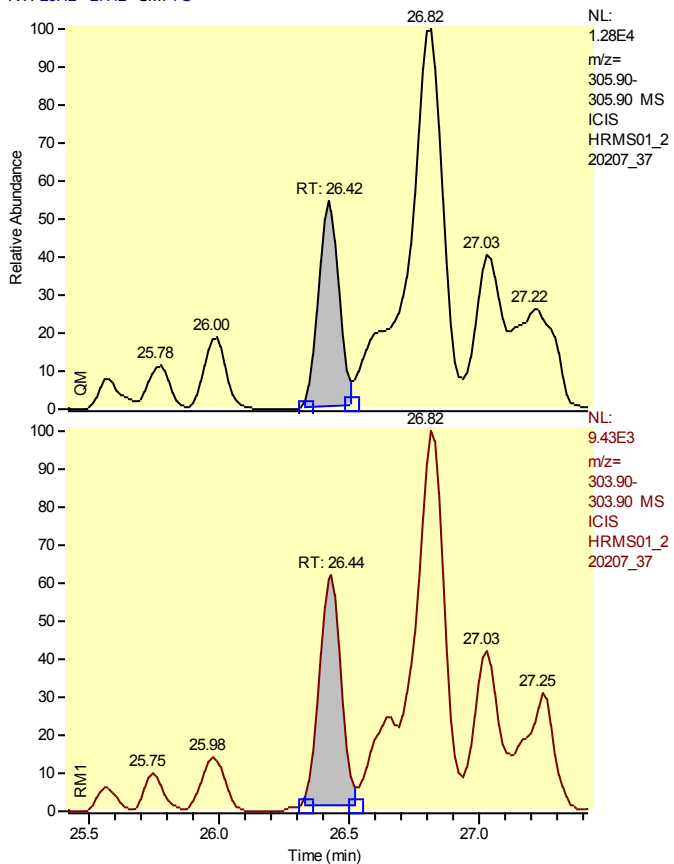
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.42 - 27.42 SM: 7G

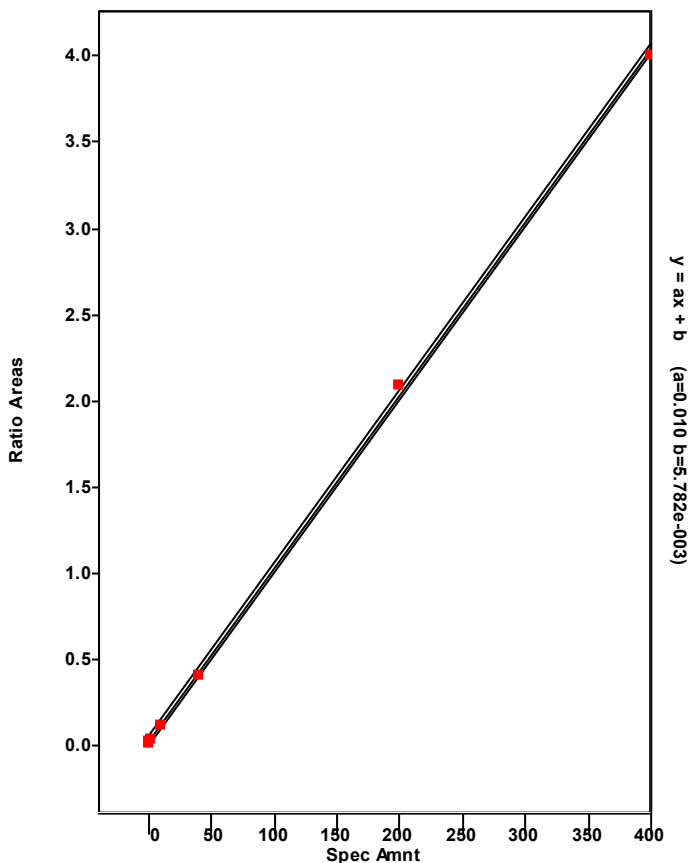


Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	39713
RM1 Area	34889
RM1 Ratio (A)	0.8785
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

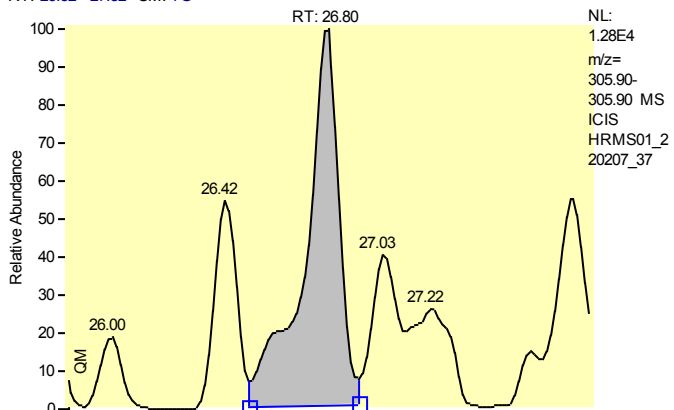
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



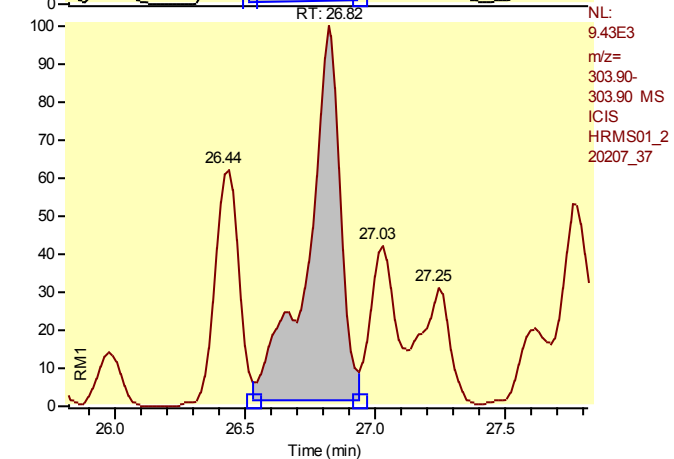
Chromatogram

Entry Parameters

RT: 25.82 - 27.82 SM: 7G



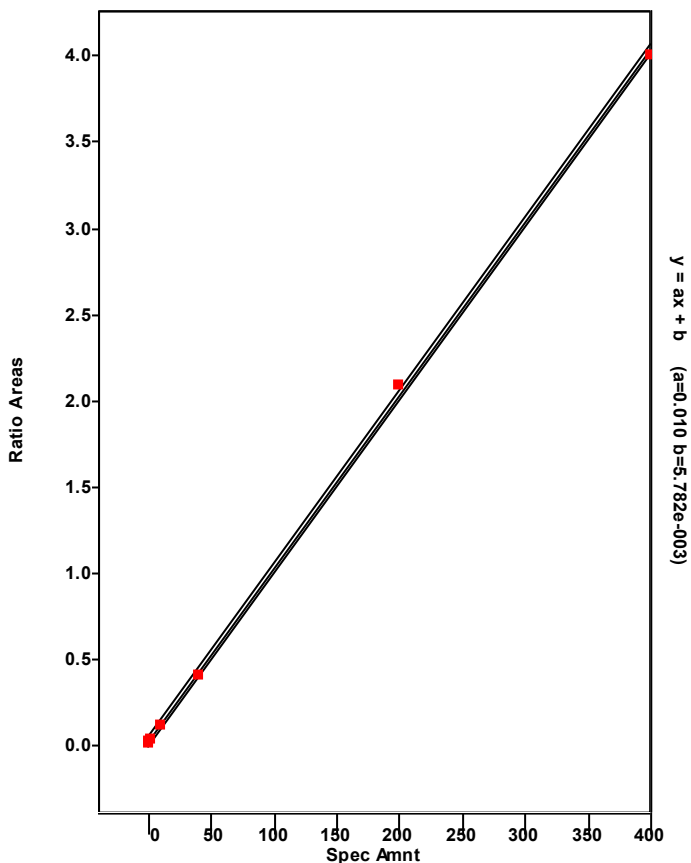
Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	118969
RM1 Area	83133
RM1 Ratio (A)	0.6988
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	8.43
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

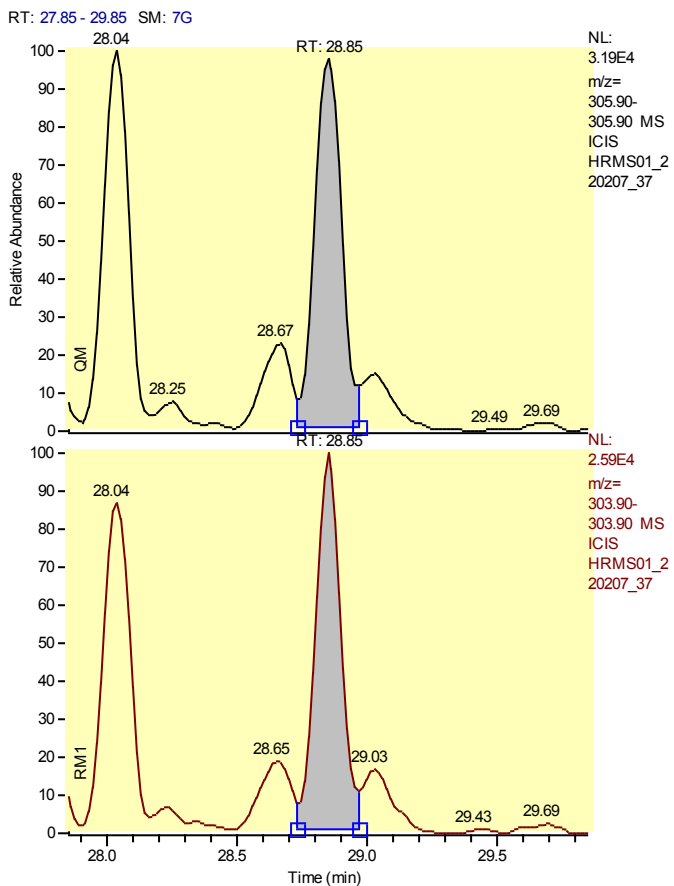
Calibration Points of Total Tetrachlorodibenzofuran__3

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

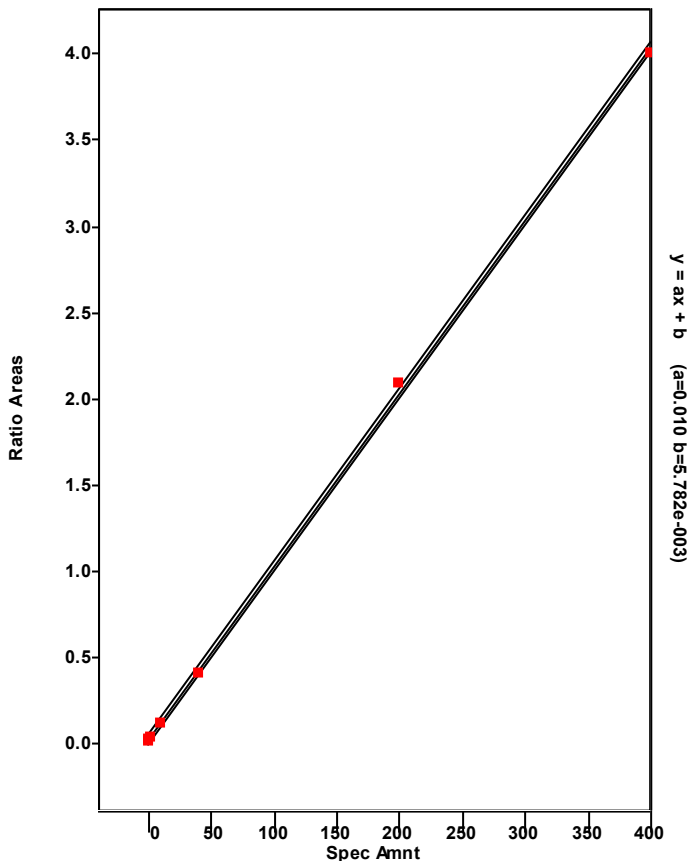


Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	232887
RM1 Area	180107
RM1 Ratio (A)	0.7734
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	17.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__6 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__6

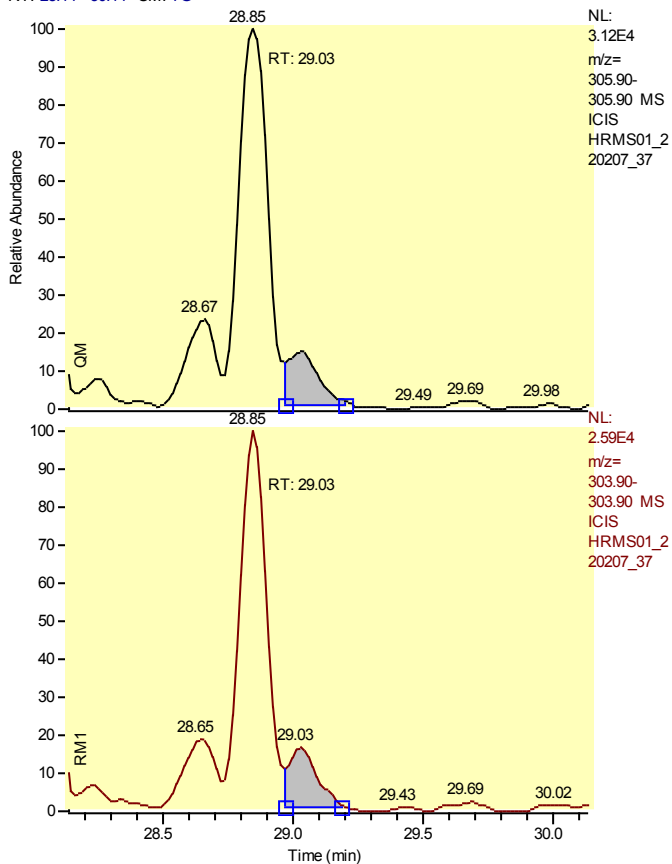
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 28.14 - 30.14 SM: 7G

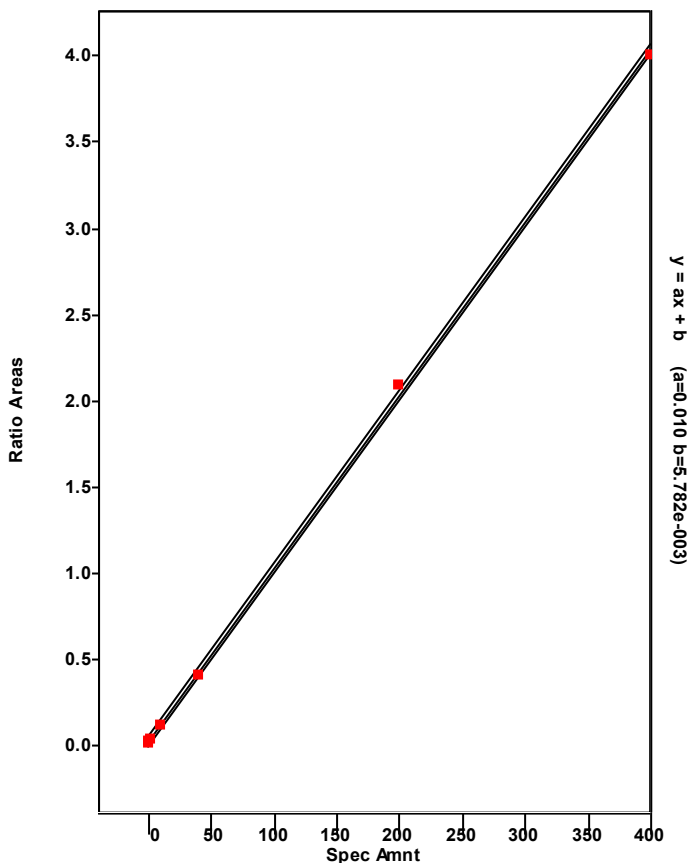


Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	34501
RM1 Area	30493
RM1 Ratio (A)	0.8838
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.71
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

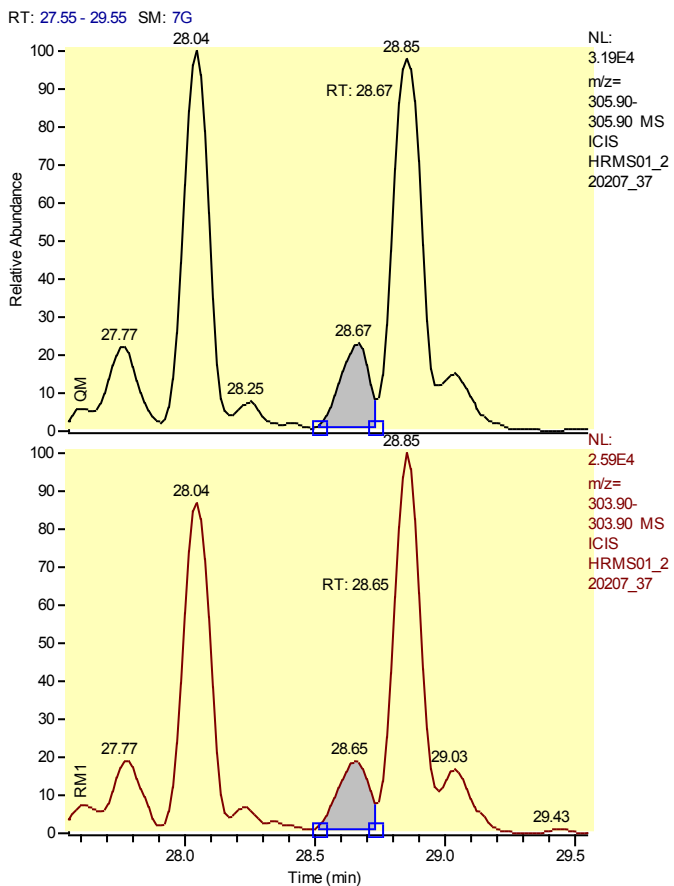
Calibration Points of Total Tetrachlorodibenzofuran__5

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

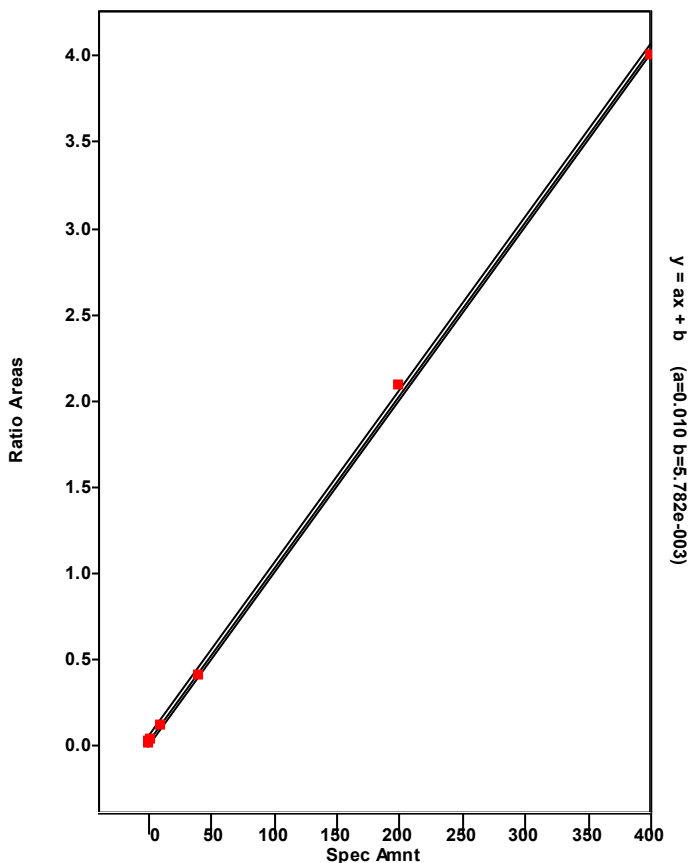


Entry Identifier	Total Tetrachlorodibenzofuran__7
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	51535
RM1 Area	36441
RM1 Ratio (A)	0.7071
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.67
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__7 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__7

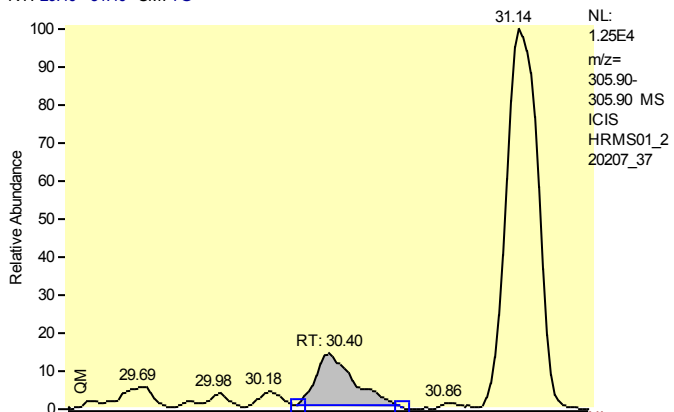
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



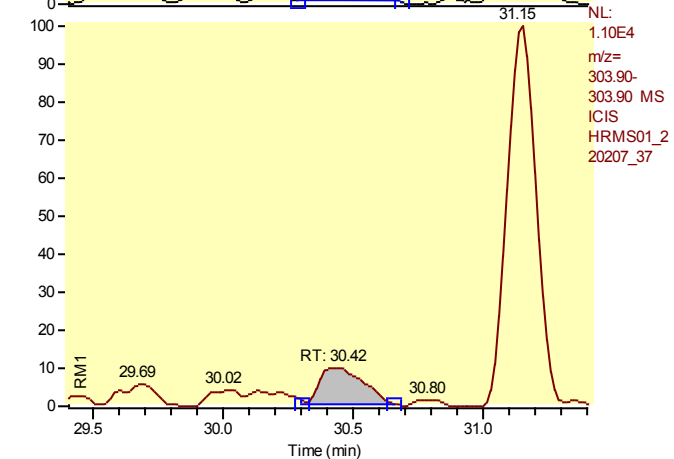
Chromatogram

Entry Parameters

RT: 29.40 - 31.40 SM: 7G



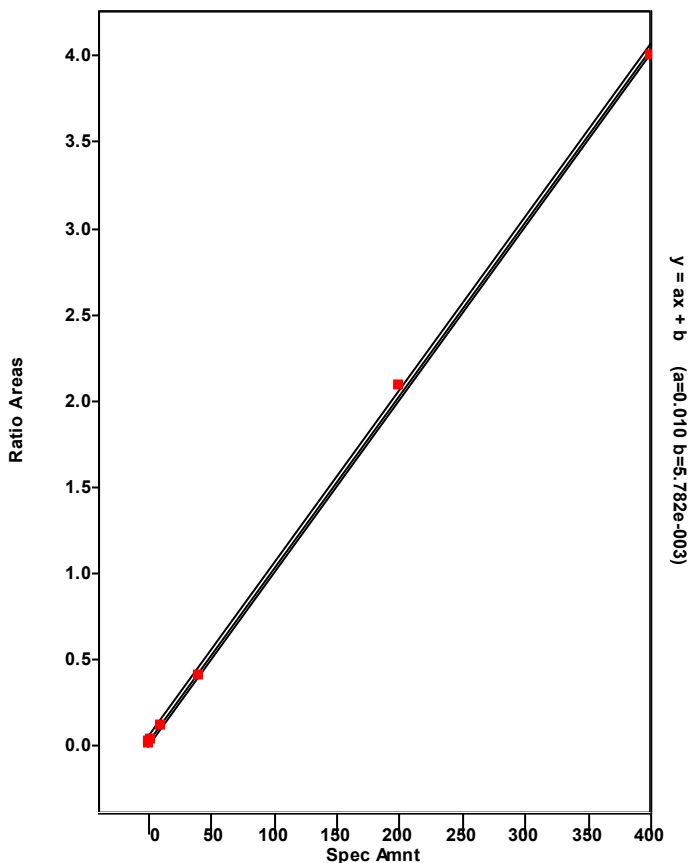
Entry Identifier	Total Tetrachlorodibenzofuran__8
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	17798
RM1 Area	11941
RM1 Ratio (A)	0.6709
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.24
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran__8 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__8

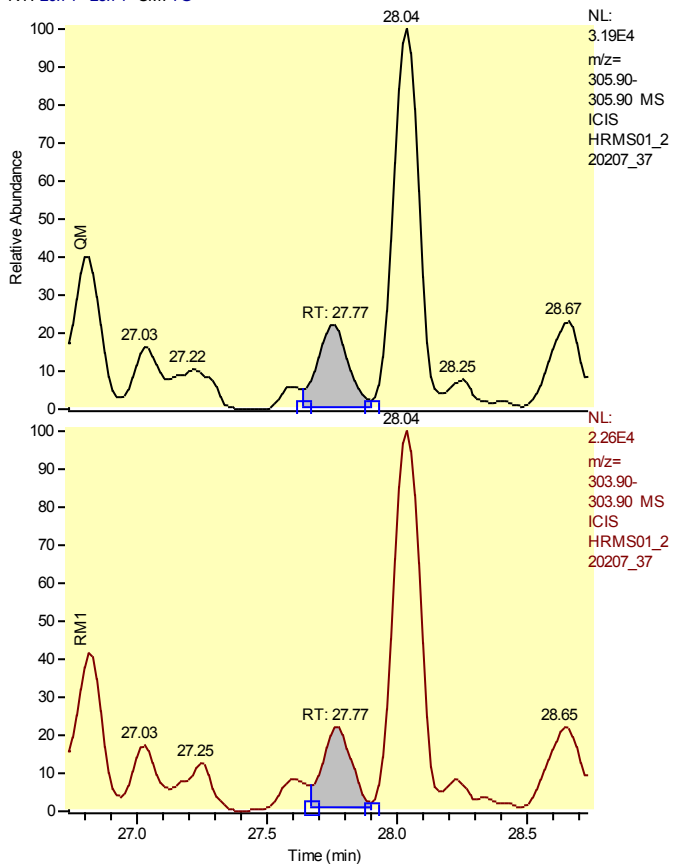
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.74 - 28.74 SM: 7G

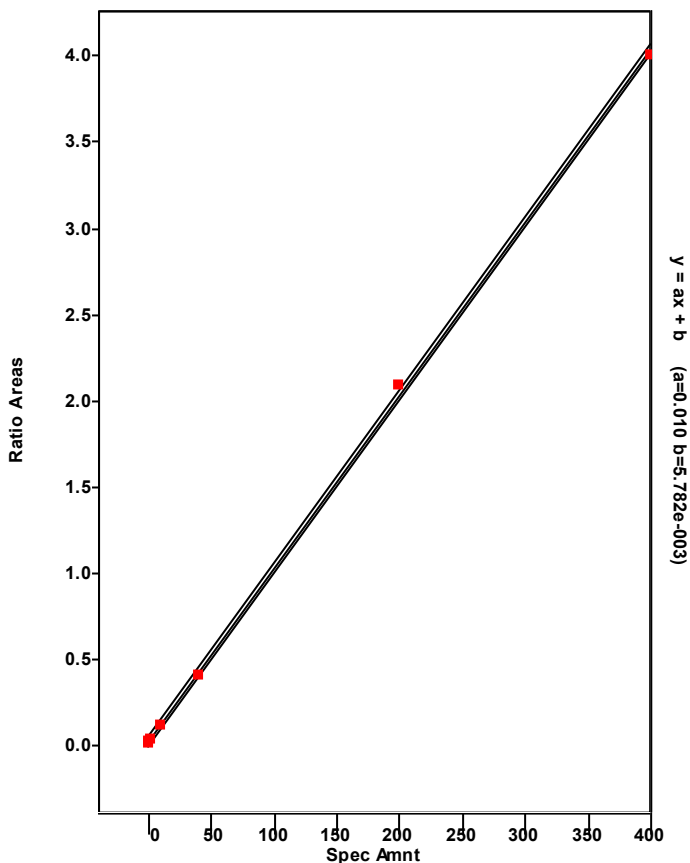


Entry Identifier	Total Tetrachlorodibenzofuran__9
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	56097
RM1 Area	36744
RM1 Ratio (A)	0.6550
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.87
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__9 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__9

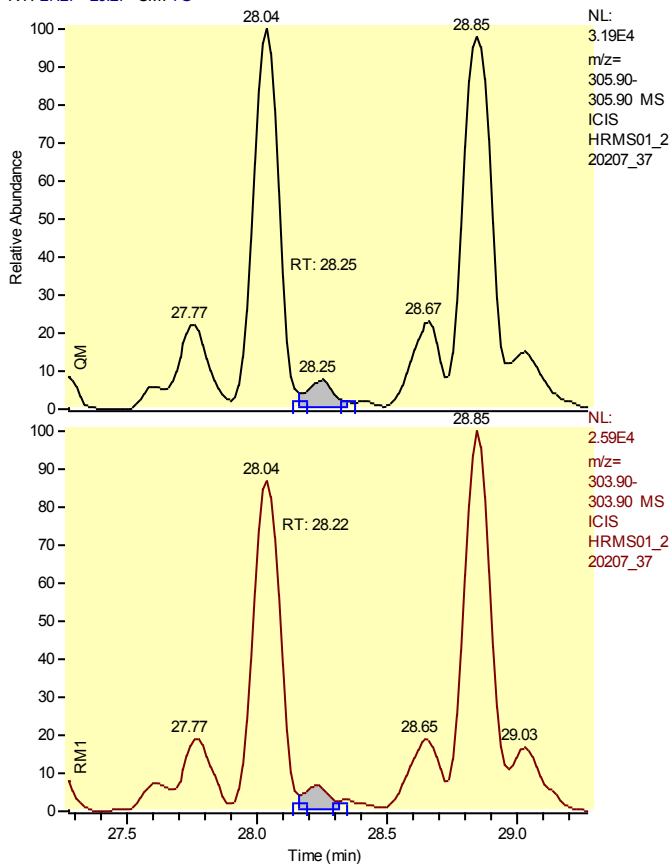
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 27.27 - 29.27 SM: 7G

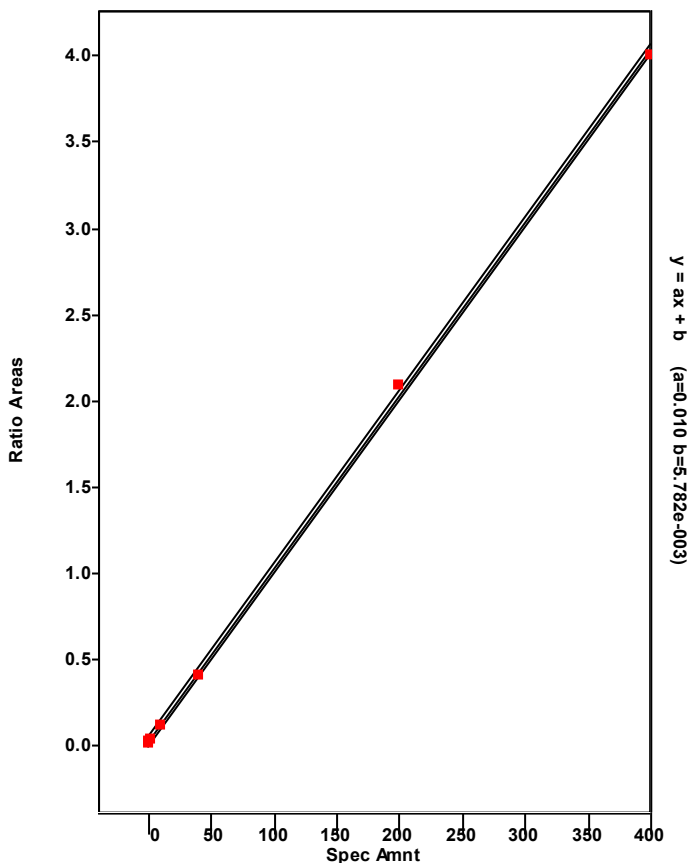


Entry Identifier	Total Tetrachlorodibenzofuran__10
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	16317
RM1 Area	10875
RM1 Ratio (A)	0.6665
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__10 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__10

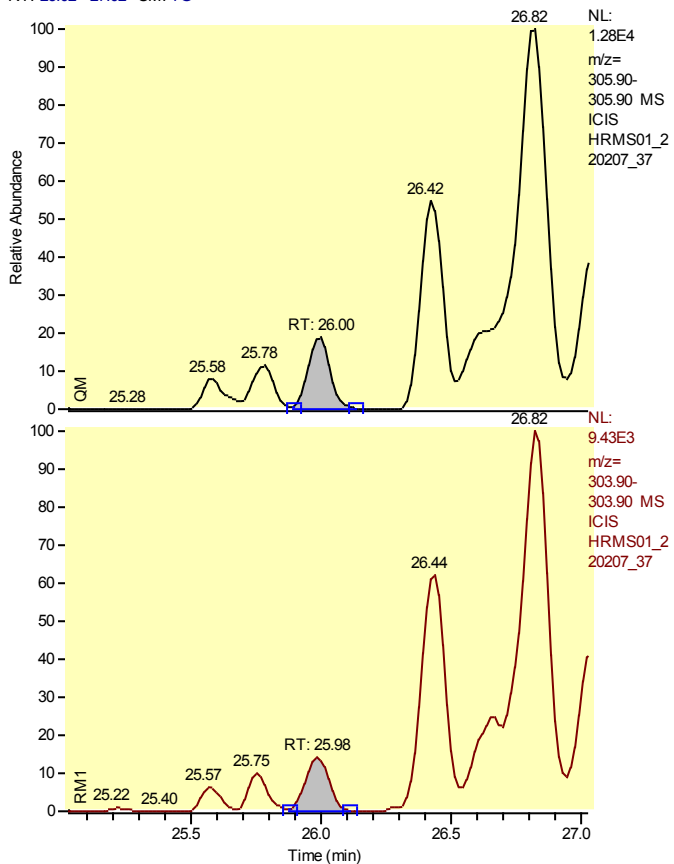
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 25.02 - 27.02 SM: 7G

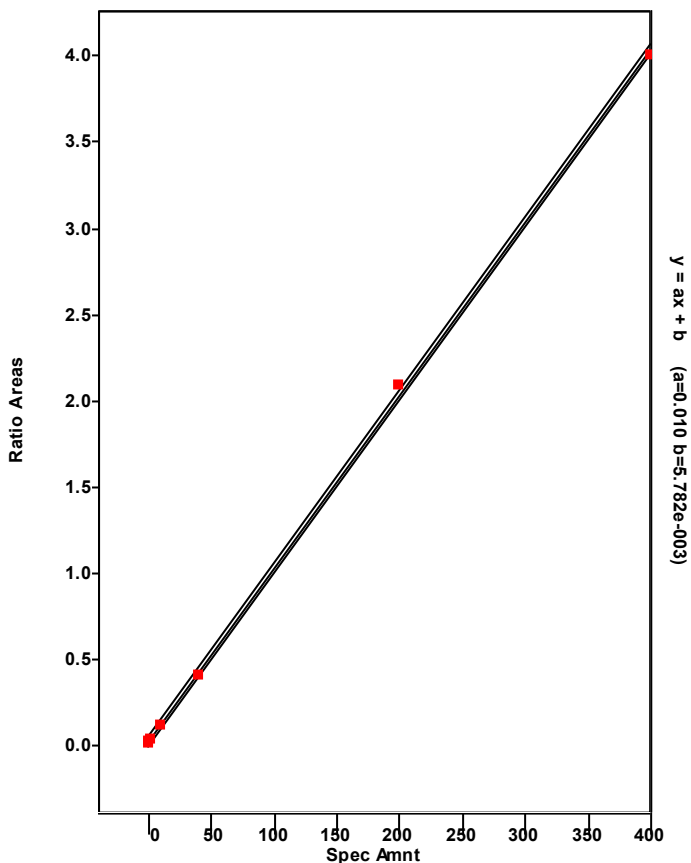


Entry Identifier	Total Tetrachlorodibenzofuran__11
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	14178
RM1 Area	8252
RM1 Ratio (A)	0.5820
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.94
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzofuran__11 IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__11

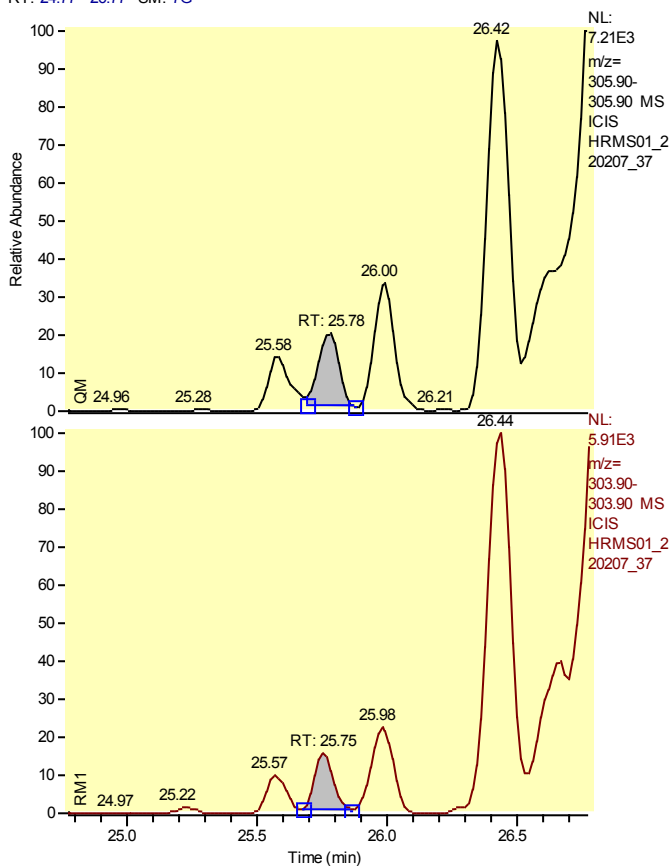
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 24.77 - 26.77 SM: 7G

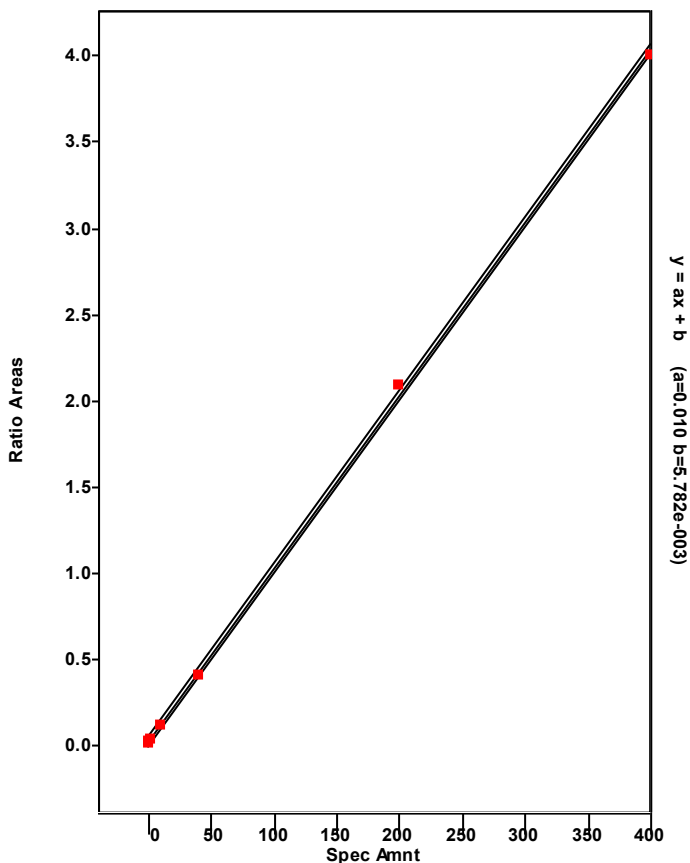


Entry Identifier	Total Tetrachlorodibenzofuran__12
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	7600
RM1 Area	4312
RM1 Ratio (A)	0.5674
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.50
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzofuran__12 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__12

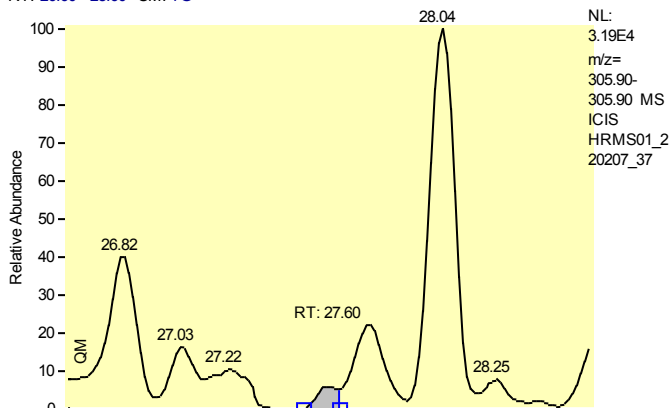
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



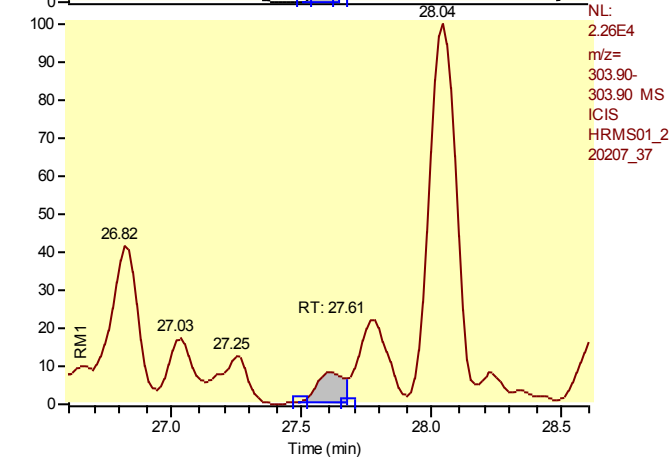
Chromatogram

Entry Parameters

RT: 26.60 - 28.60 SM: 7G



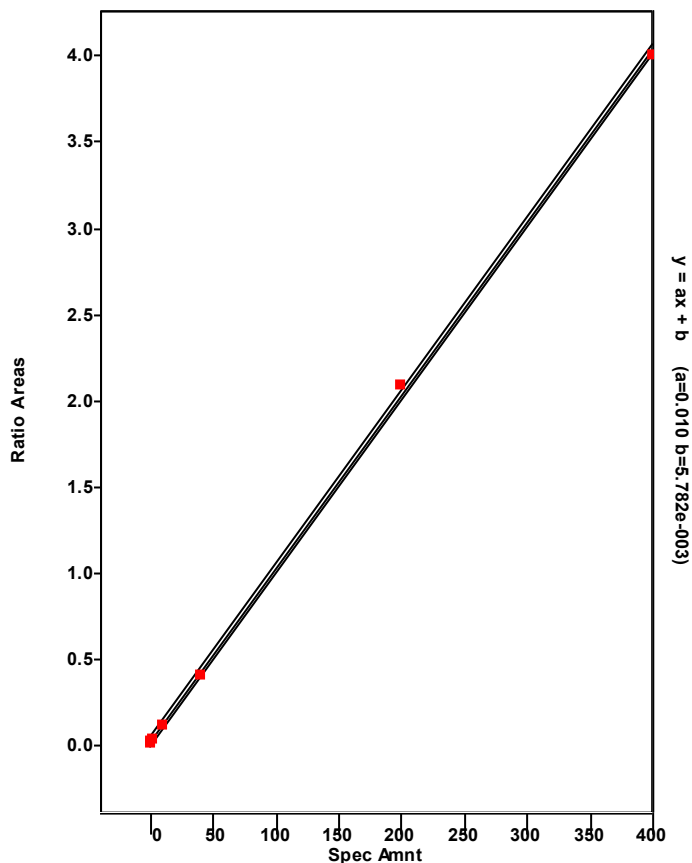
Entry Identifier	Total Tetrachlorodibenzofuran__13
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9507
RM1 Area	12889
RM1 Ratio (A)	1.3557
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.93
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: Total Tetrachlorodibenzofuran__13 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__13

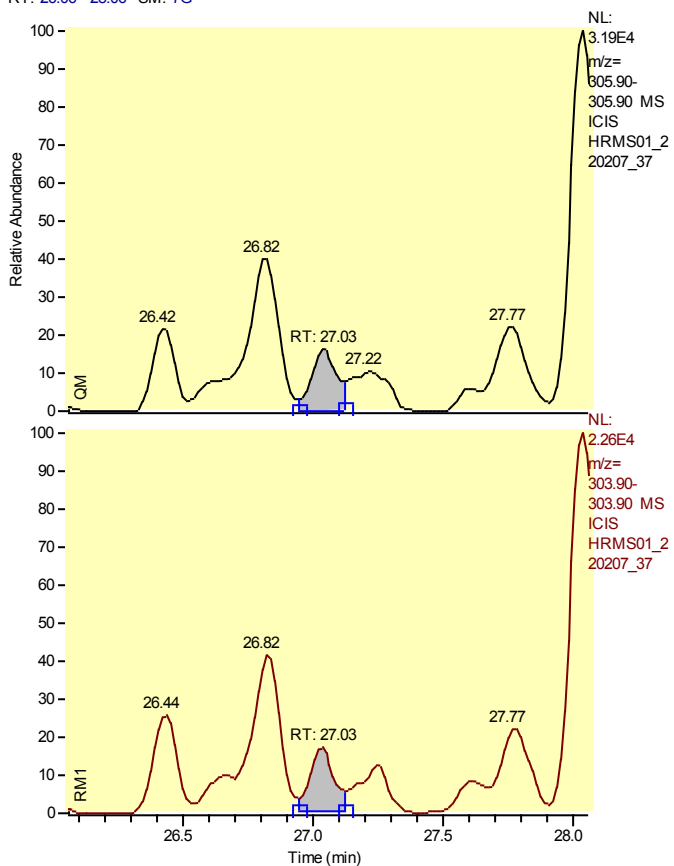
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.06 - 28.06 SM: 7G

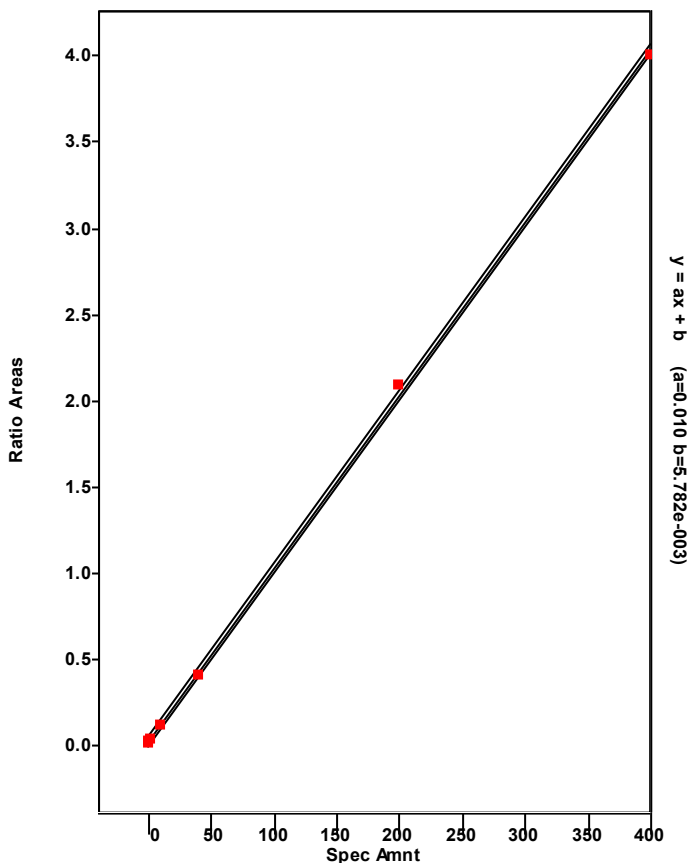


Entry Identifier	Total Tetrachlorodibenzofuran__14
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	34879
RM1 Area	24951
RM1 Ratio (A)	0.7154
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.49
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__14 IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__14

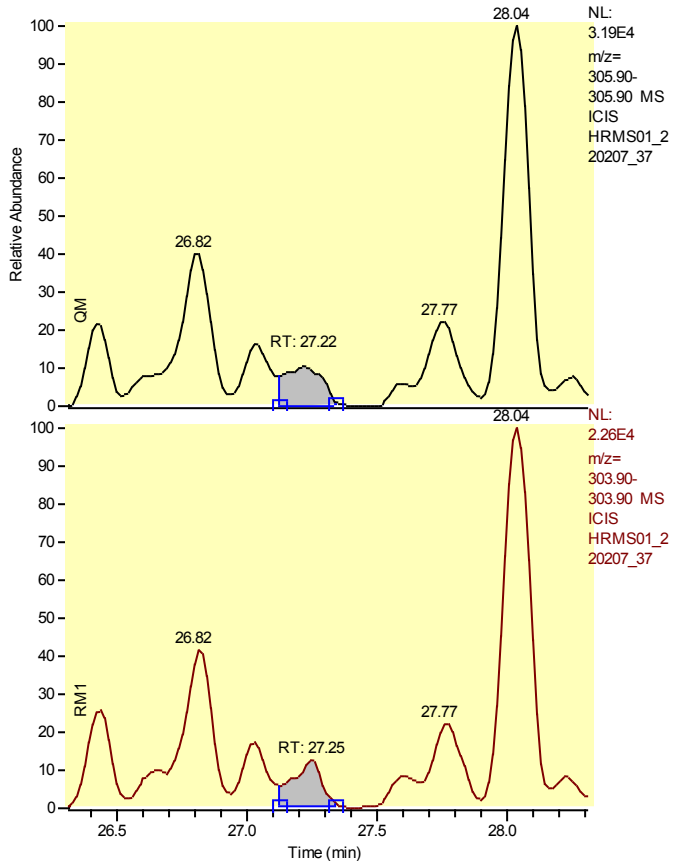
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

RT: 26.31 - 28.31 SM: 7G

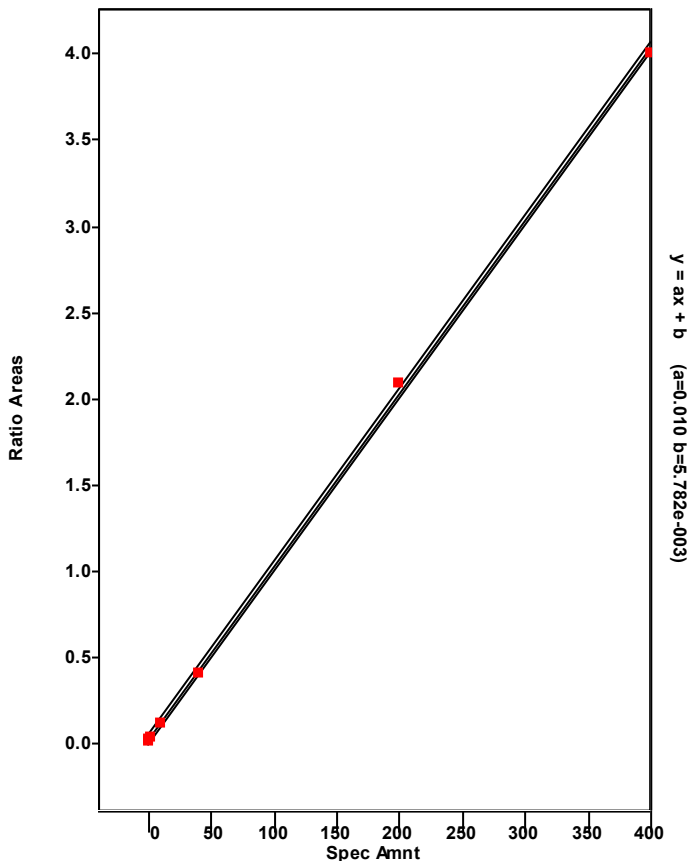


Entry Identifier	Total Tetrachlorodibenzofuran__15
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	31500
RM1 Area	21016
RM1 Ratio (A)	0.6672
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__15 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__15

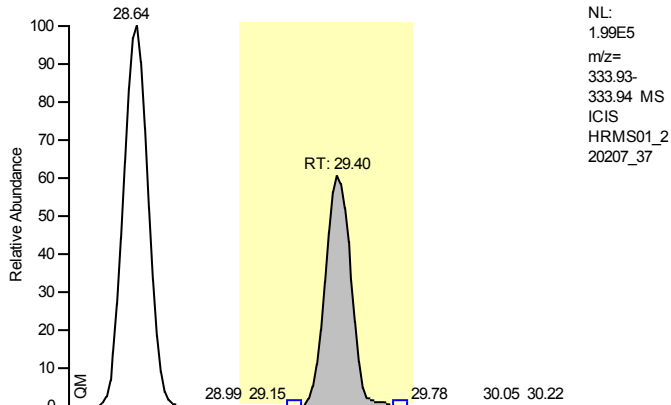
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

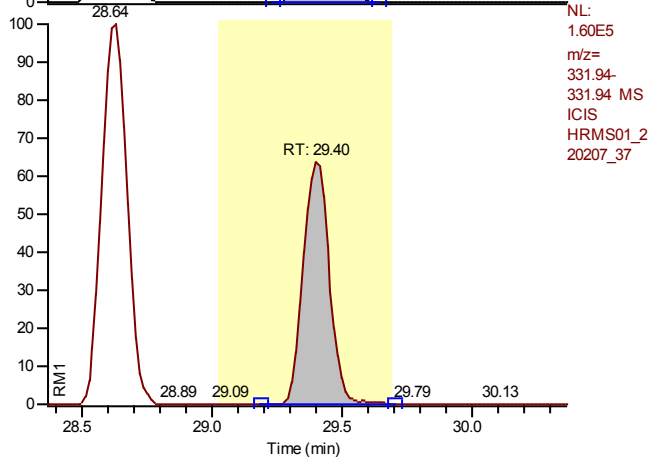
Entry Parameters

RT: 28.37 - 30.37 SM: 7G



NL:
 1.99E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	860456
RM1 Area	743275
RM1 Ratio (A)	0.8638
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	55.96
Percent Recovery (A)	56
TEQ (A)	0.0000
Label2	

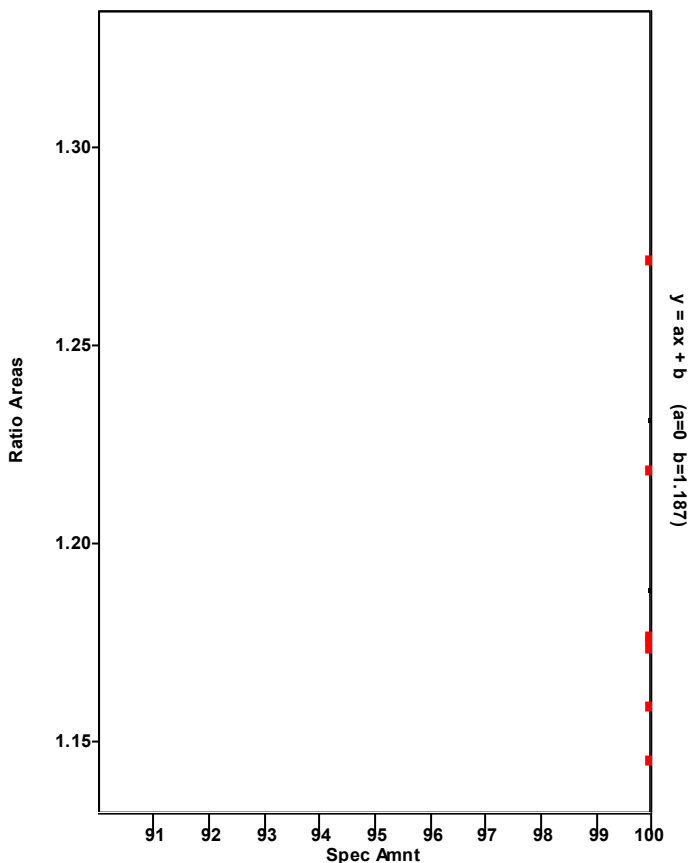


NL:
 1.60E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

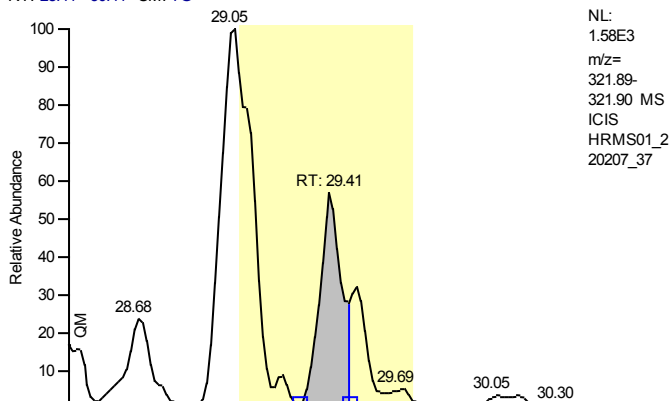
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



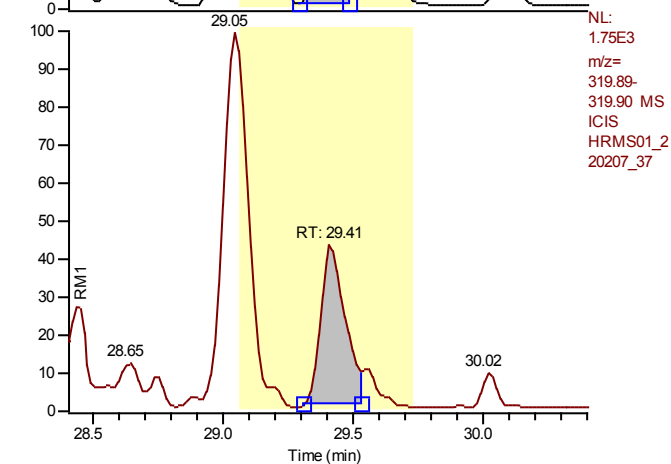
Chromatogram

Entry Parameters

RT: 28.41 - 30.41 SM: 7G



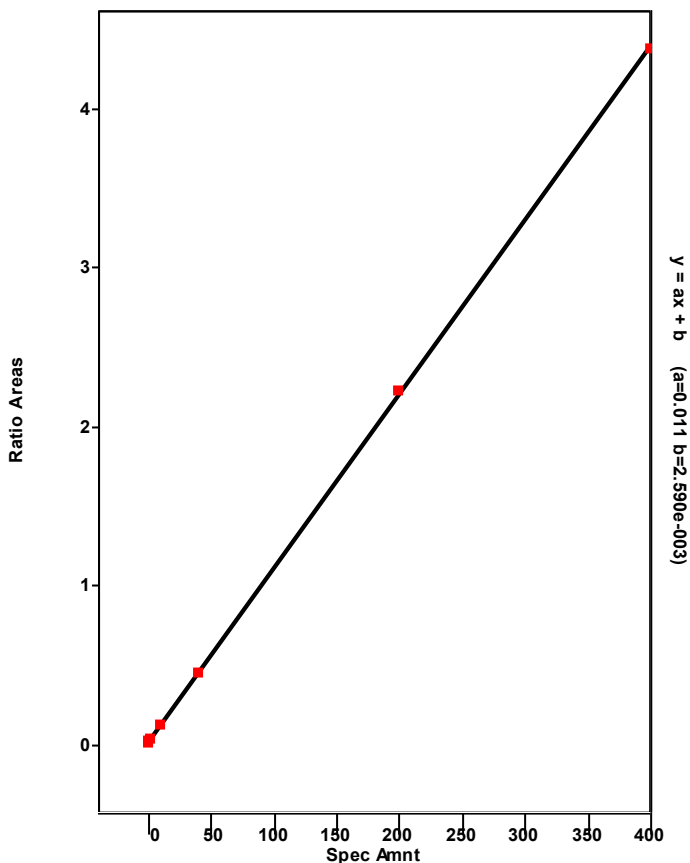
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	5243
RM1 Area	5031
RM1 Ratio (A)	0.9596
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.58
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

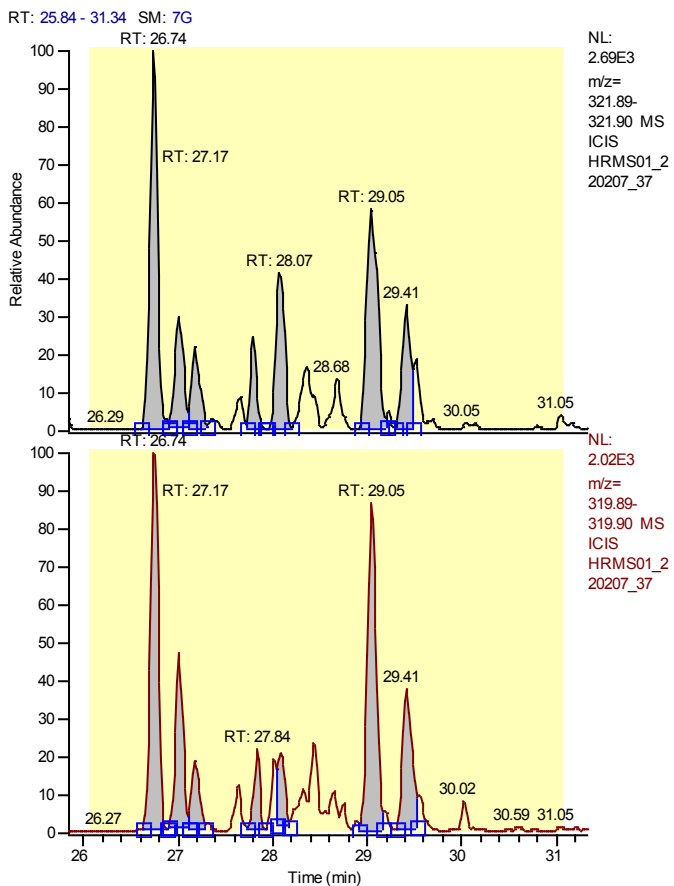
Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

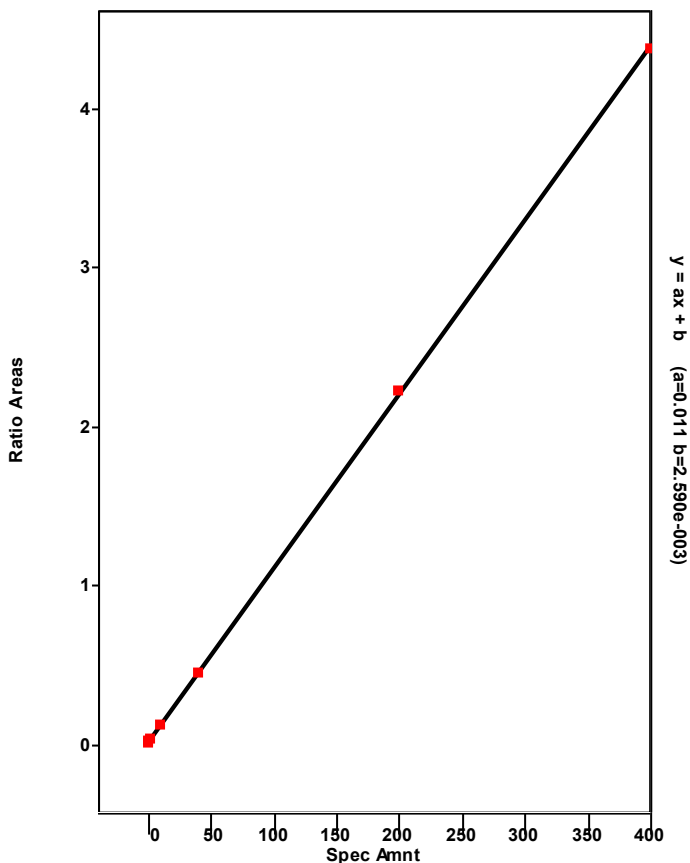


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	51906
RM1 Area	39890
RM1 Ratio (A)	0.7724
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

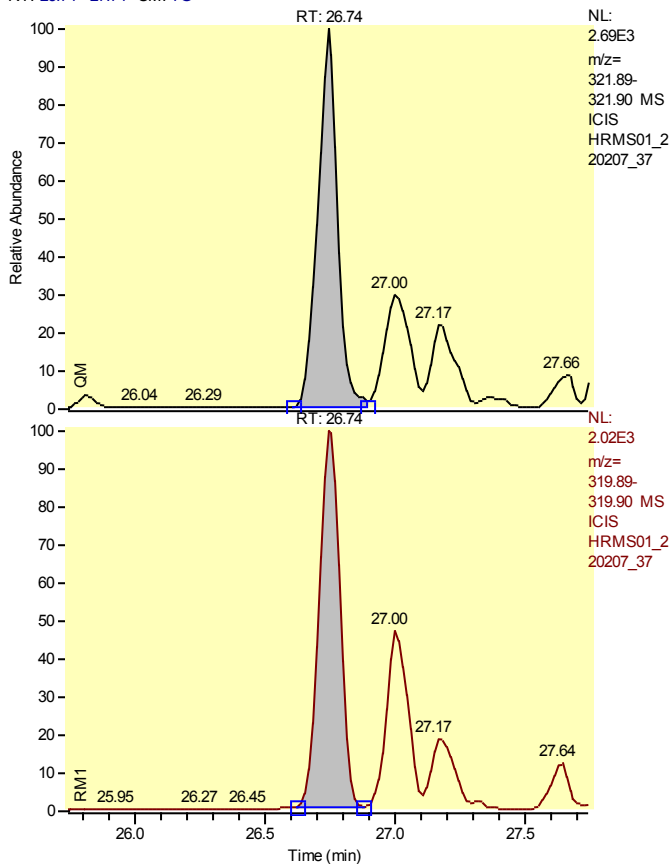
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.74 - 27.74 SM: 7G

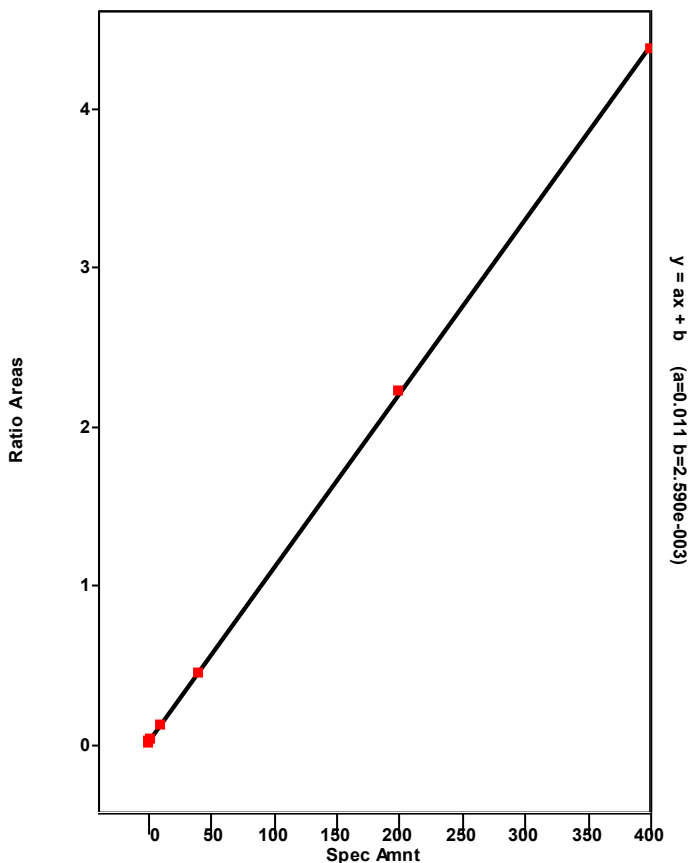


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	15013
RM1 Area	11895
RM1 Ratio (A)	0.7923
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.52
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

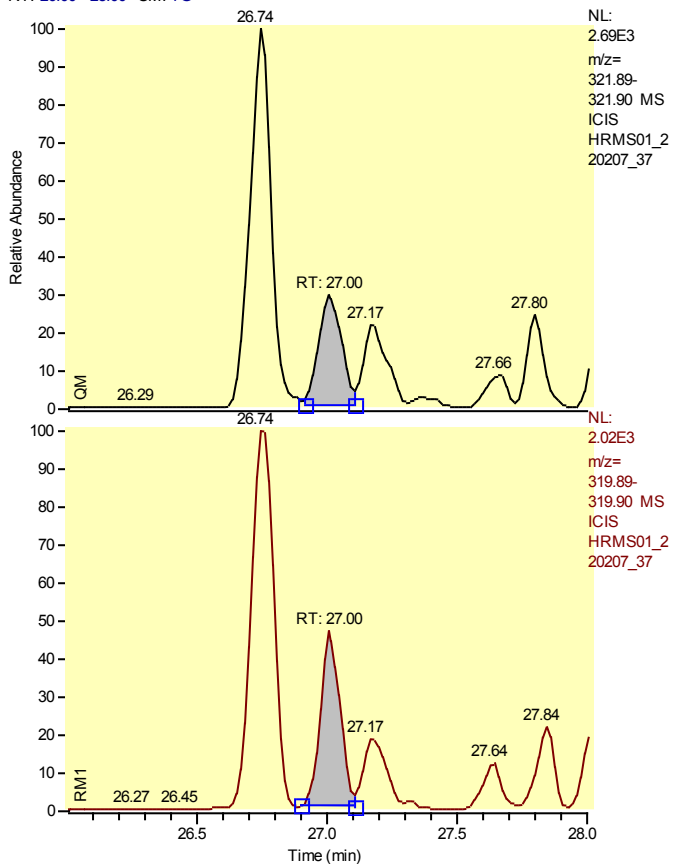
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 26.00 - 28.00 SM: 7G

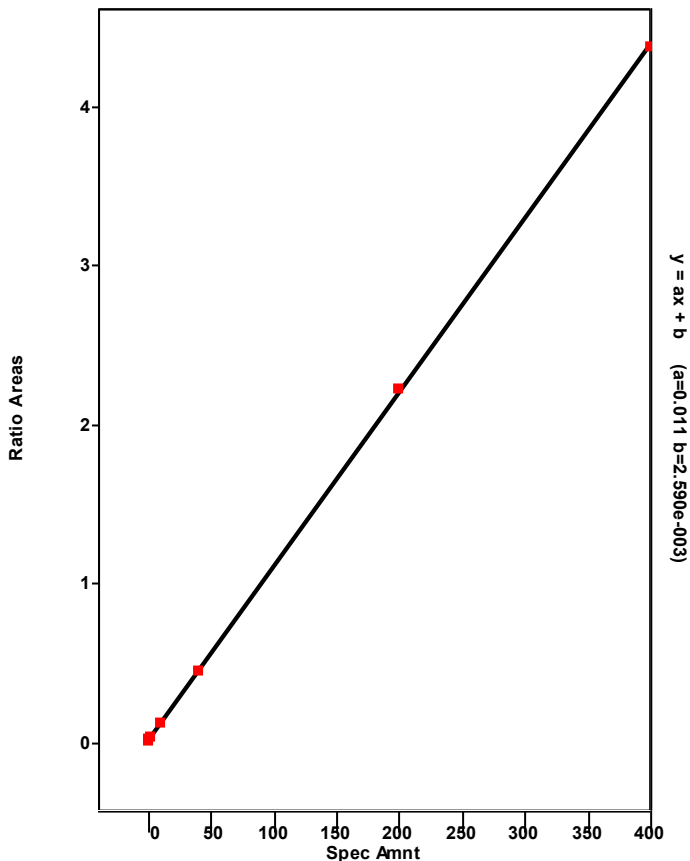


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	5029
RM1 Area	5184
RM1 Ratio (A)	1.0307
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.58
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

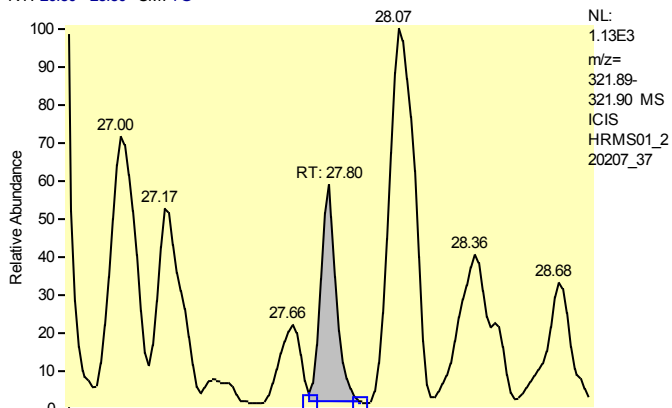
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



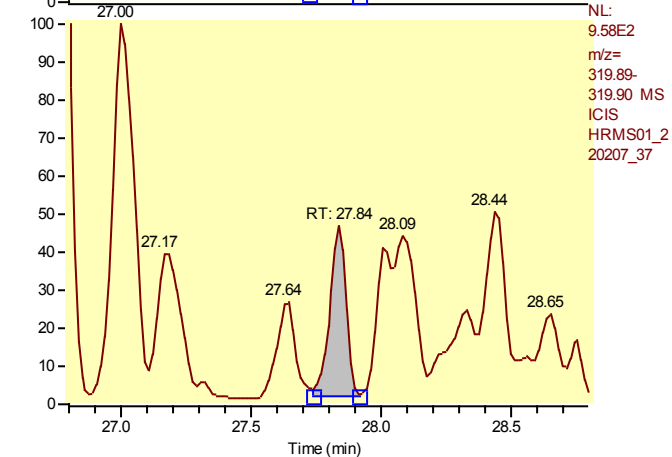
Chromatogram

Entry Parameters

RT: 26.80 - 28.80 SM: 7G



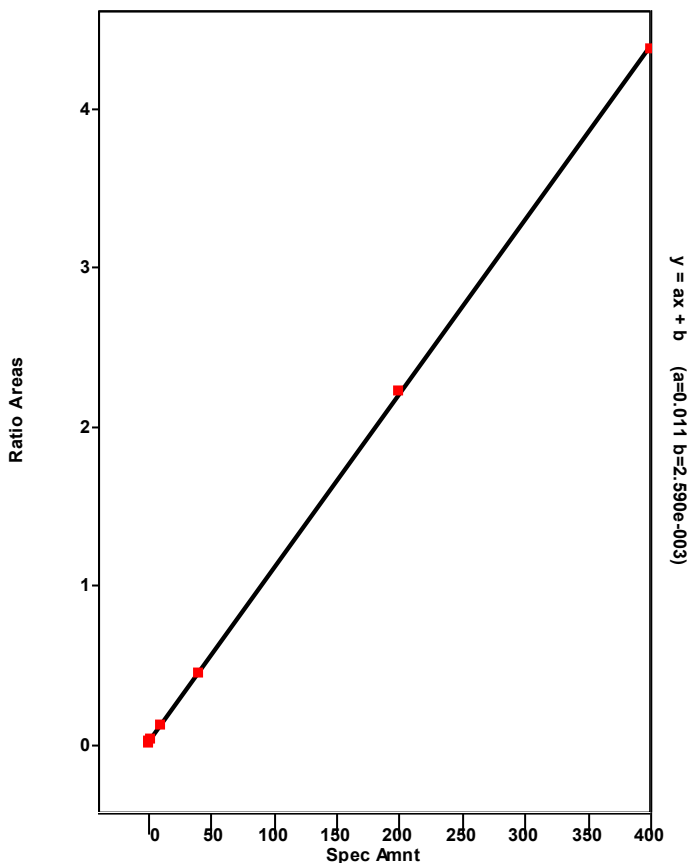
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	2917
RM1 Area	1954
RM1 Ratio (A)	0.6701
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.28
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

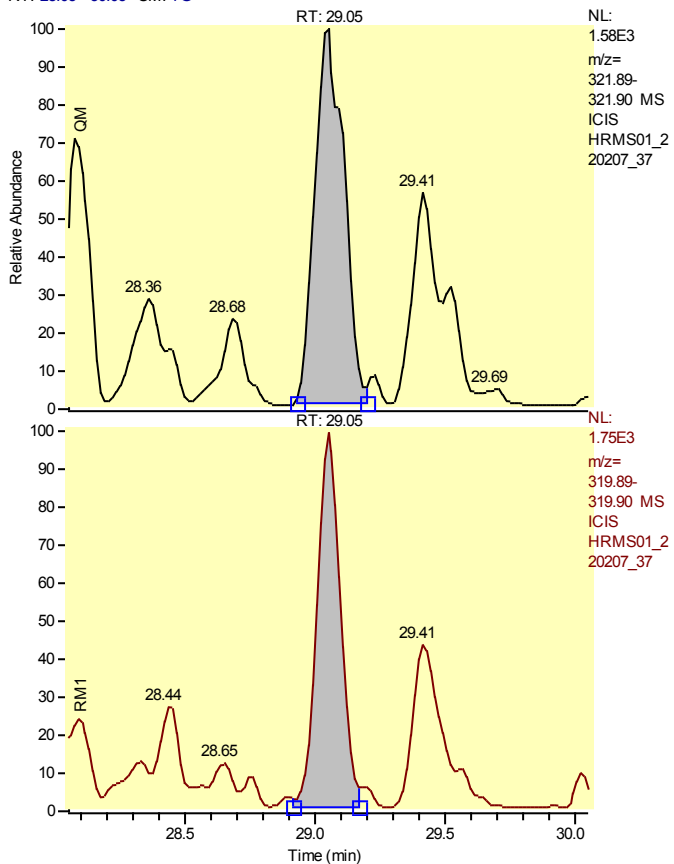
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 28.05 - 30.05 SM: 7G

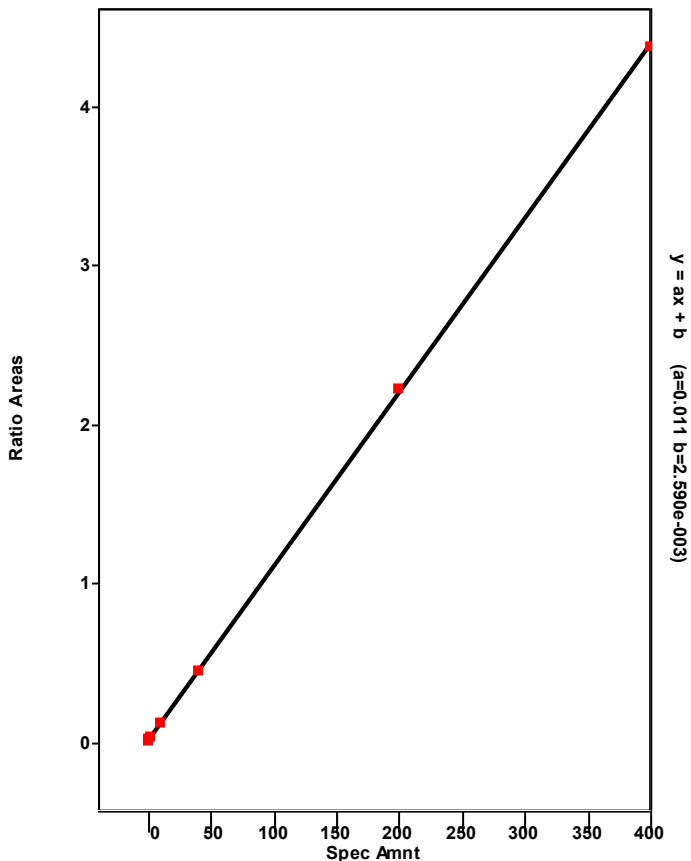


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	12727
RM1 Area	11387
RM1 Ratio (A)	0.8947
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 1.36
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

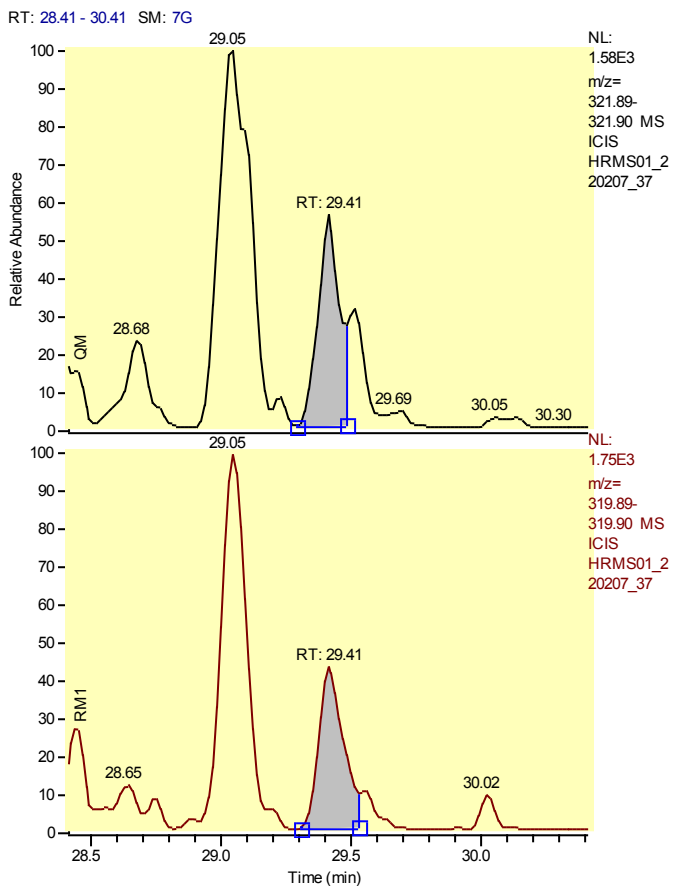
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

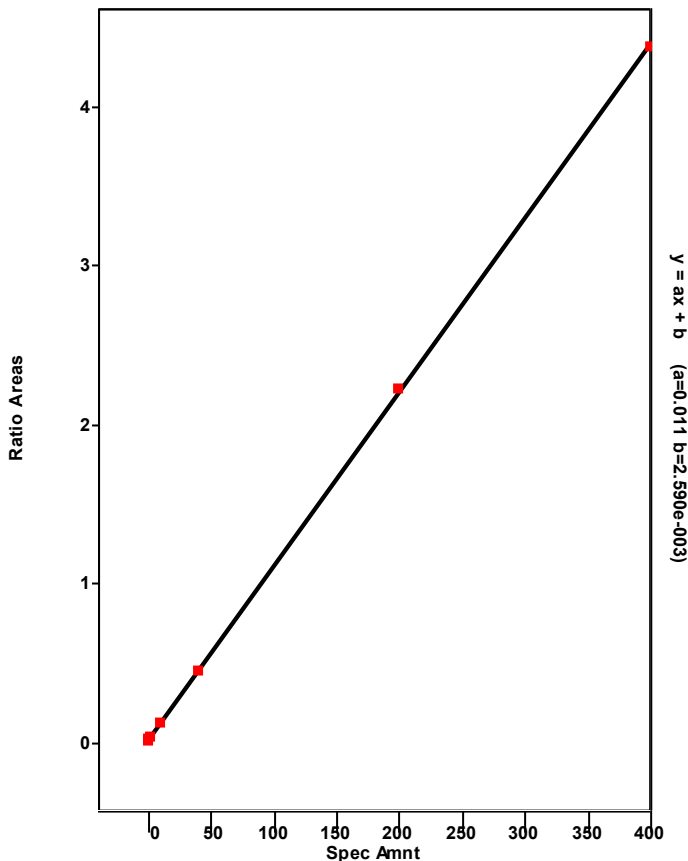


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__6
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	5297
RM1 Area	5099
RM1 Ratio (A)	0.9626
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.59
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__6 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

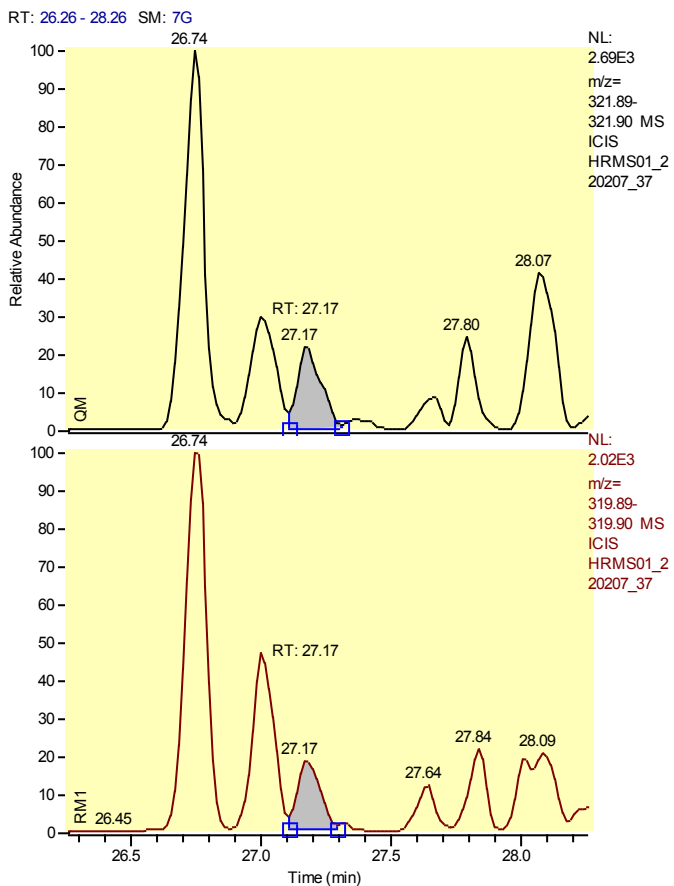
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__6

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

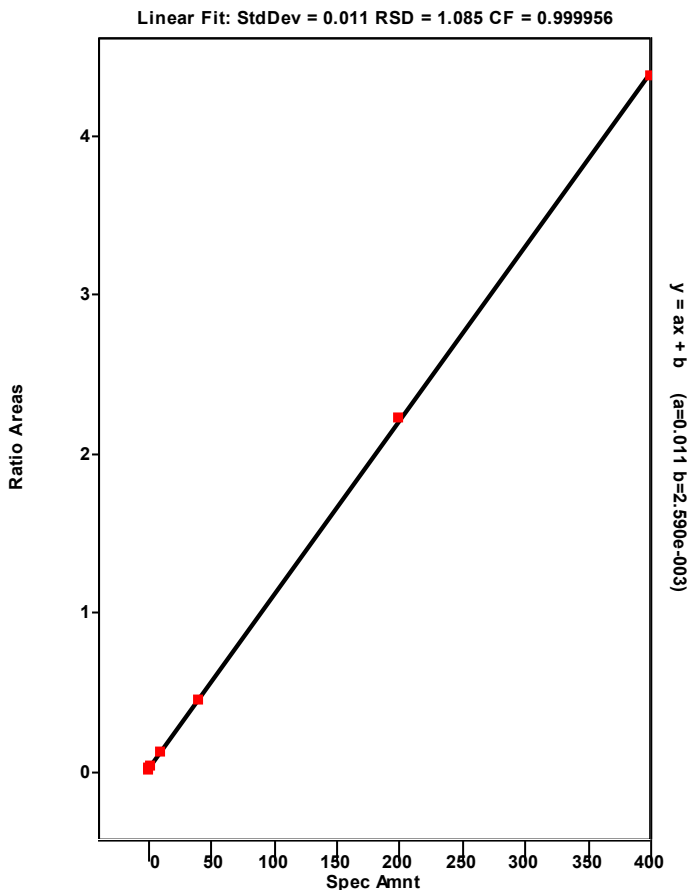
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__7
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	3599
RM1 Area	2216
RM1 Ratio (A)	0.6157
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.33
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__7 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

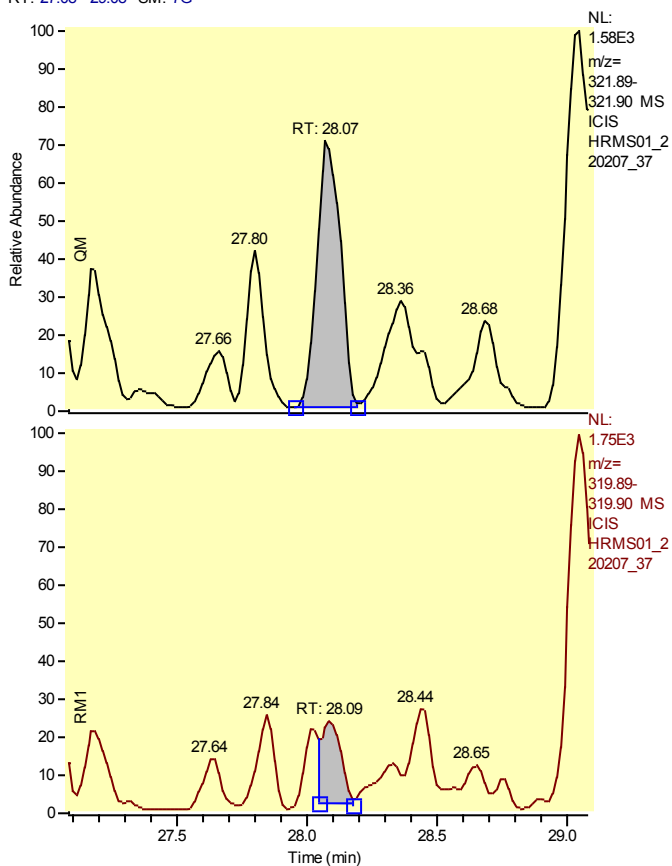
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__7



Chromatogram

Entry Parameters

RT: 27.08 - 29.08 SM: 7G

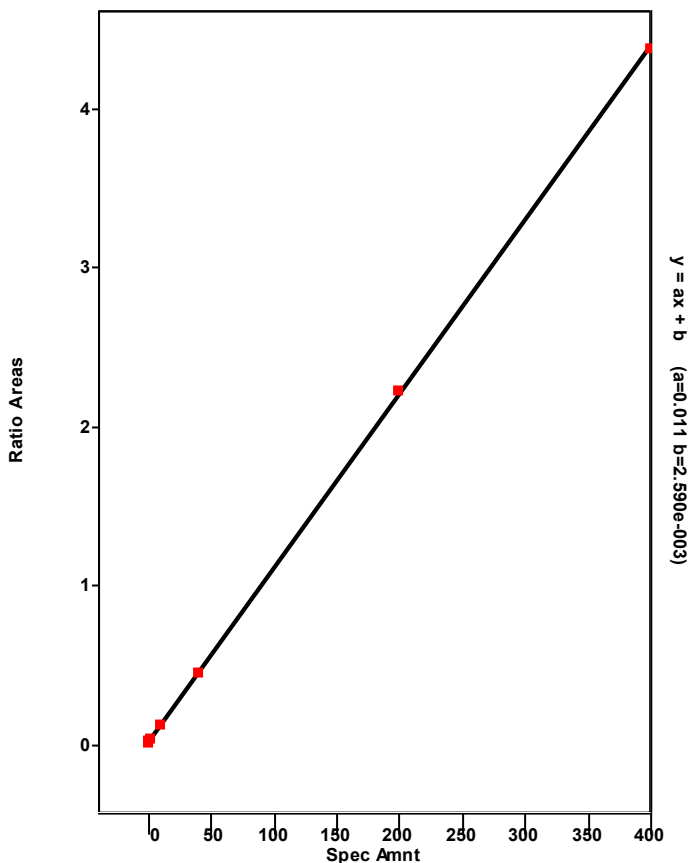


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__8
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	7324
RM1 Area	2156
RM1 Ratio (A)	0.2943
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.54
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__8 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__8

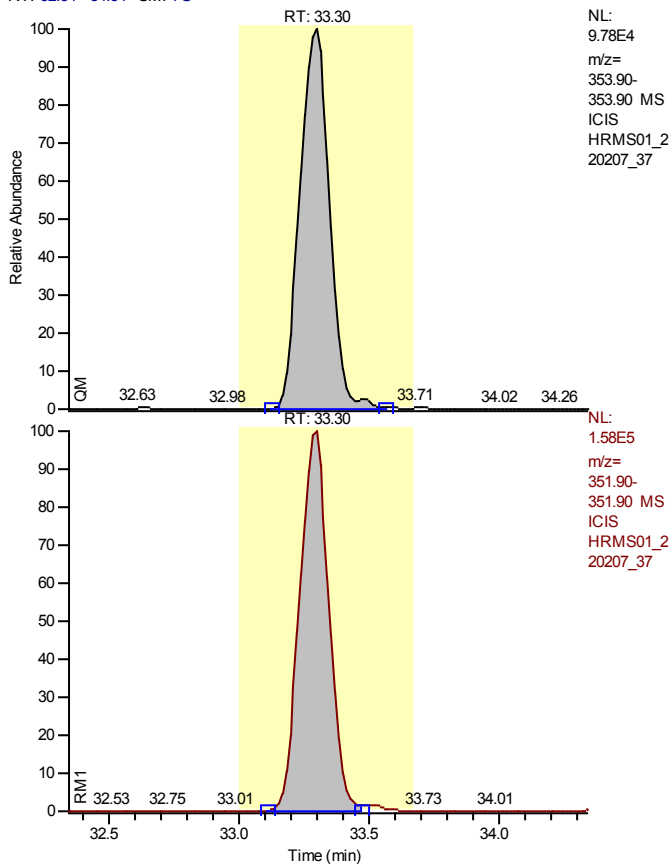
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 32.34 - 34.34 SM: 7G

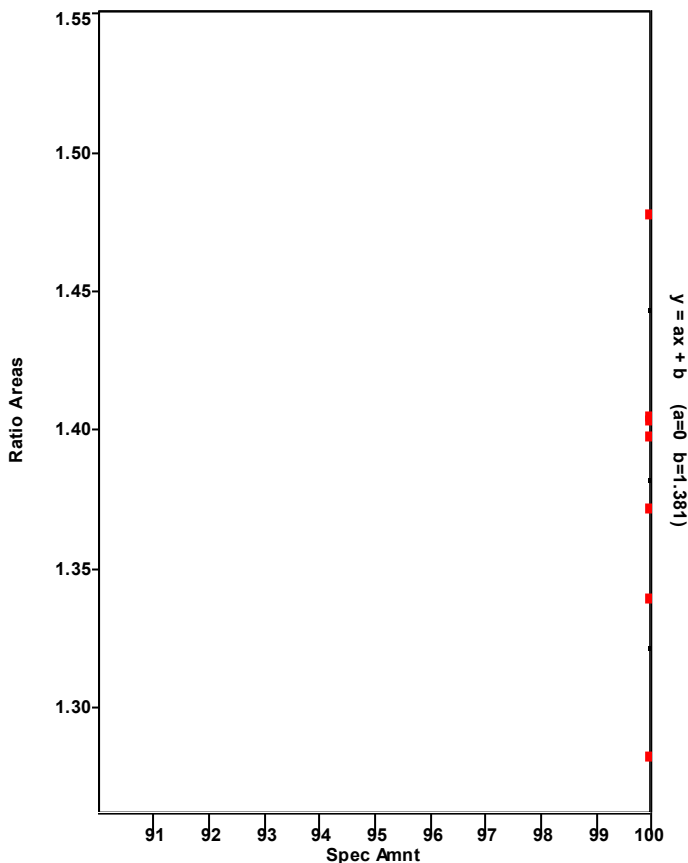


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	779848
RM1 Area	1235587
RM1 Ratio (A)	1.5844
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	60.45
Percent Recovery (A)	60
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

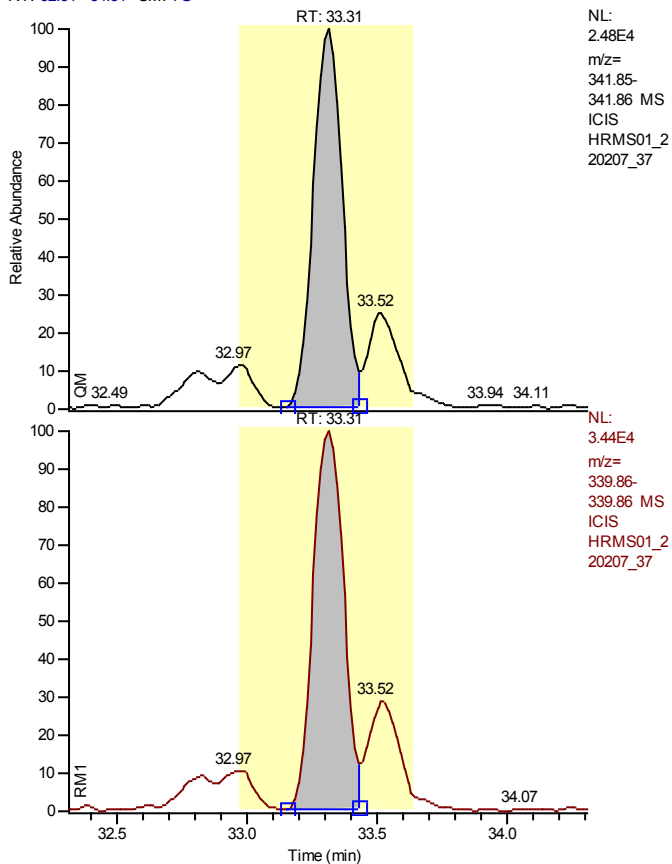
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G



NL:
 2.48E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_37

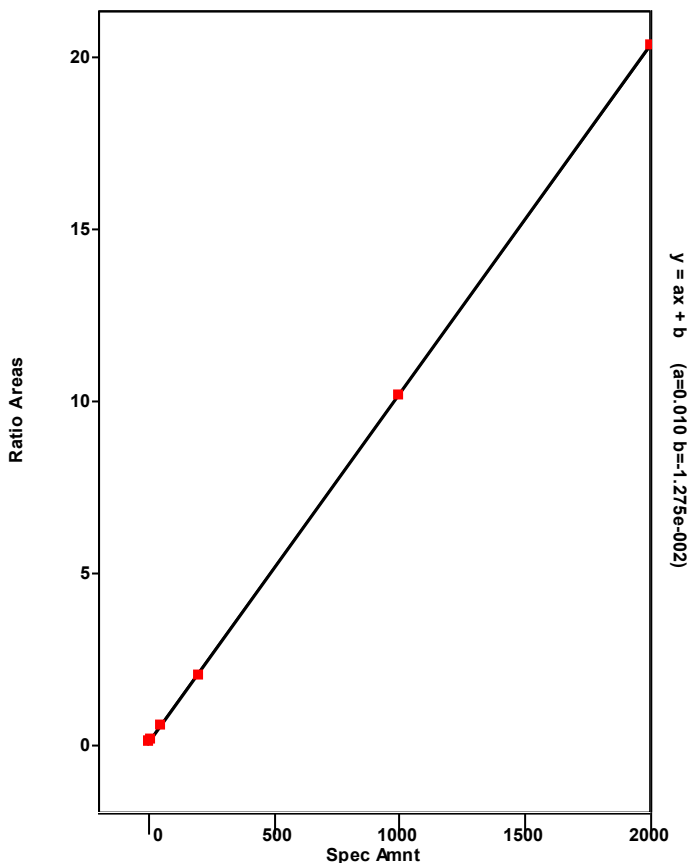
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	187263
RM1 Area	274622
RM1 Ratio (A)	1.4665
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	22.78
Percent Recovery (A)	---
TEQ (A)	0.6834
Label2	

NL:
 3.44E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

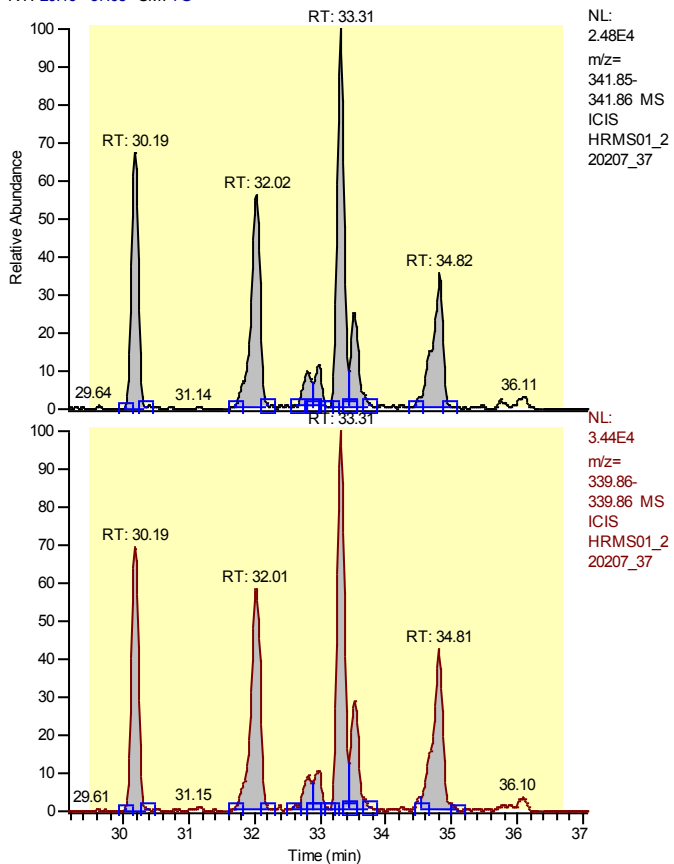
Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

Entry Parameters

RT: 29.16 - 37.08 SM: 7G

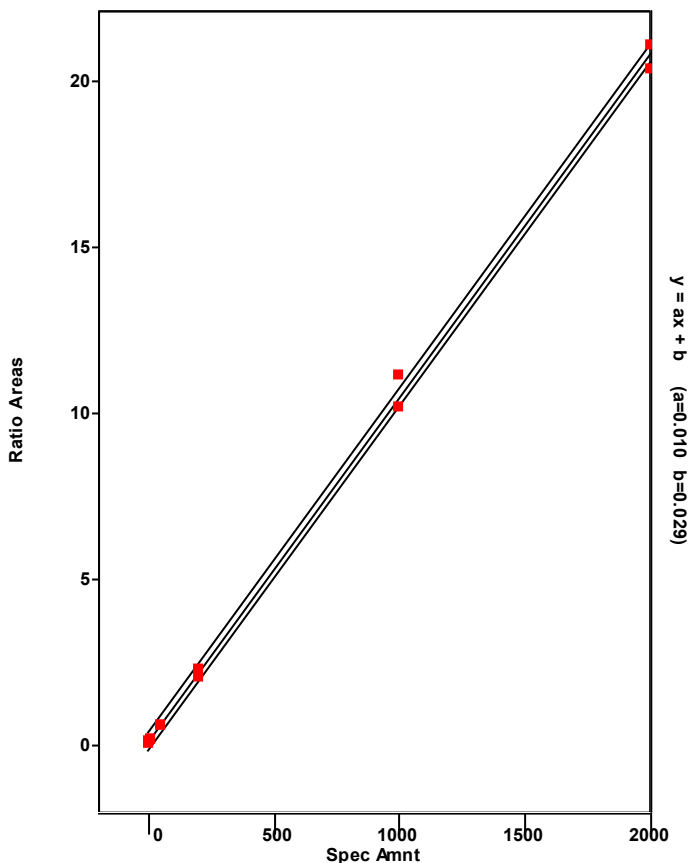


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	633934
RM1 Area	961022
RM1 Ratio (A)	1.5160
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	74.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

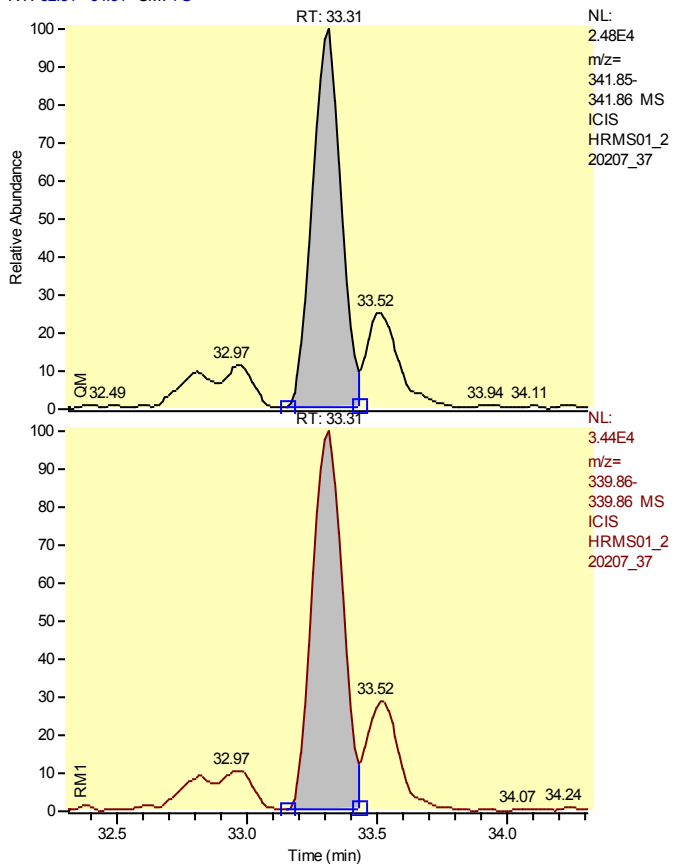
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.31 - 34.31 SM: 7G

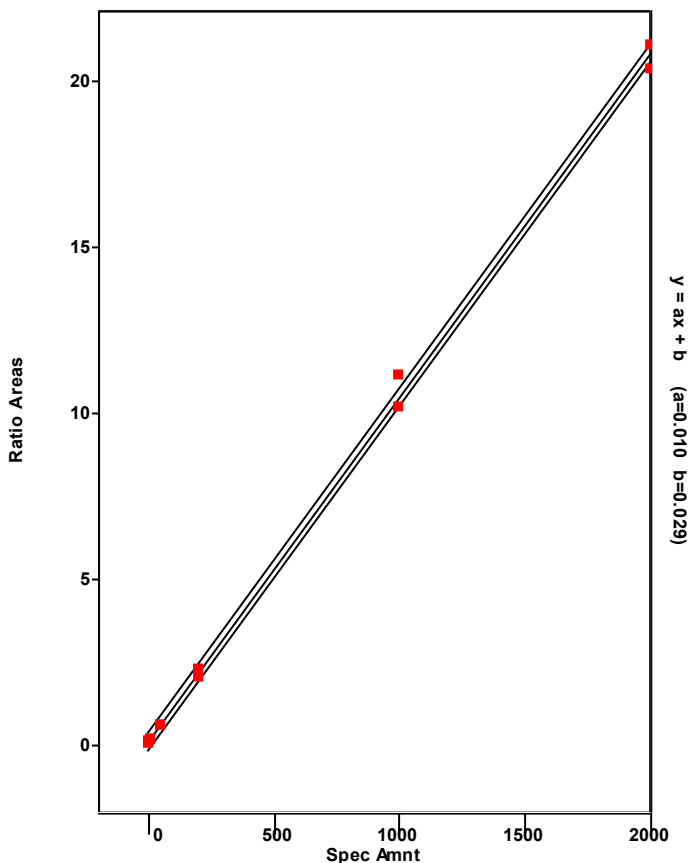


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	187263
RM1 Area	274622
RM1 Ratio (A)	1.4665
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	21.63
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

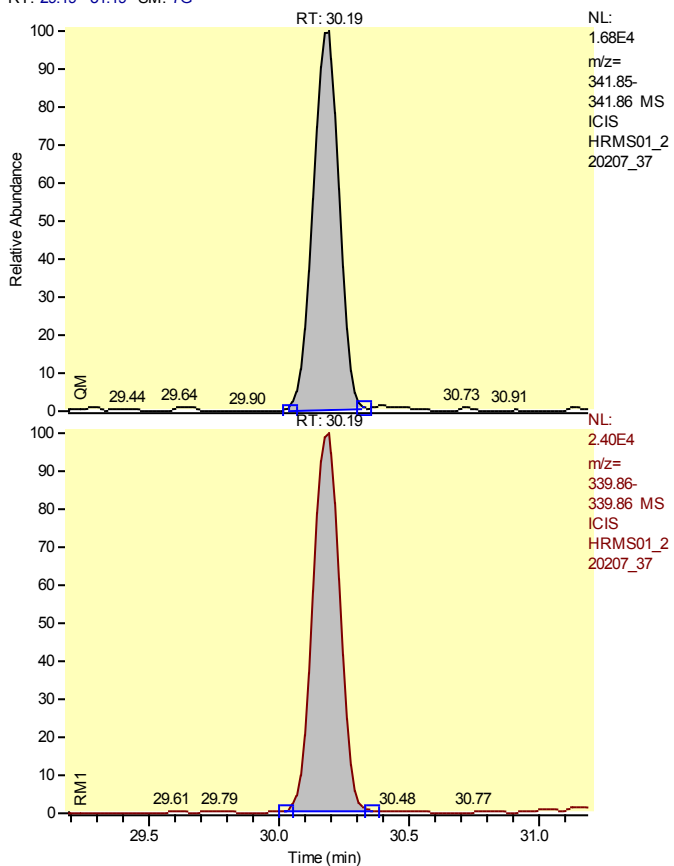
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 29.19 - 31.19 SM: 7G

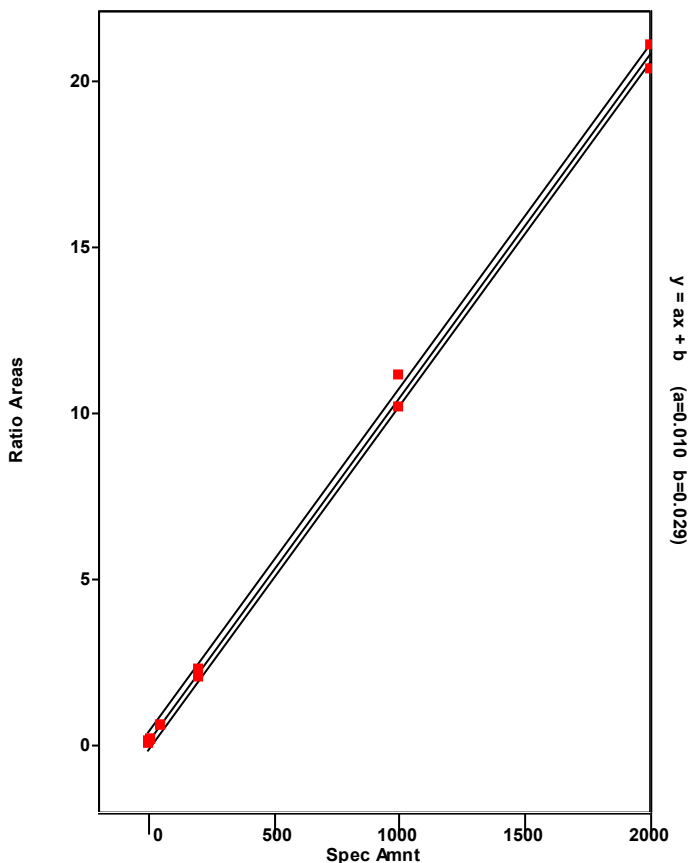


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	122188
RM1 Area	180367
RM1 Ratio (A)	1.4761
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	14.17
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

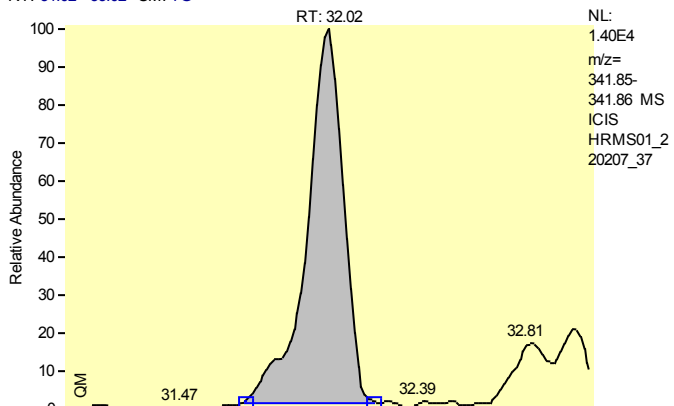
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

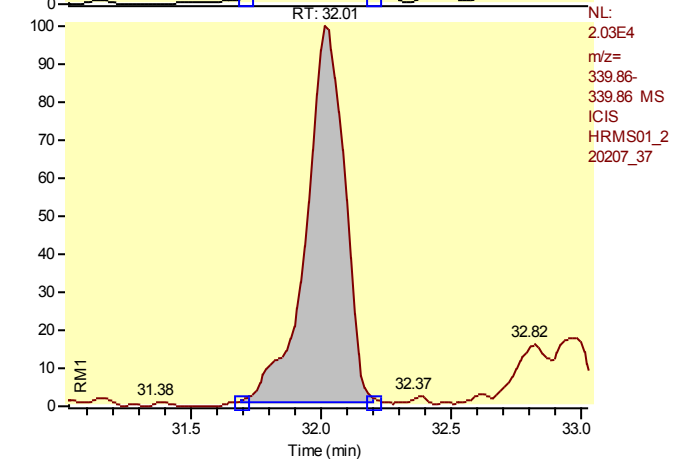
Entry Parameters

RT: 31.02- 33.02 SM: 7G



NL:
 1.40E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	134876
RM1 Area	206319
RM1 Ratio (A)	1.5297
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	15.98
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

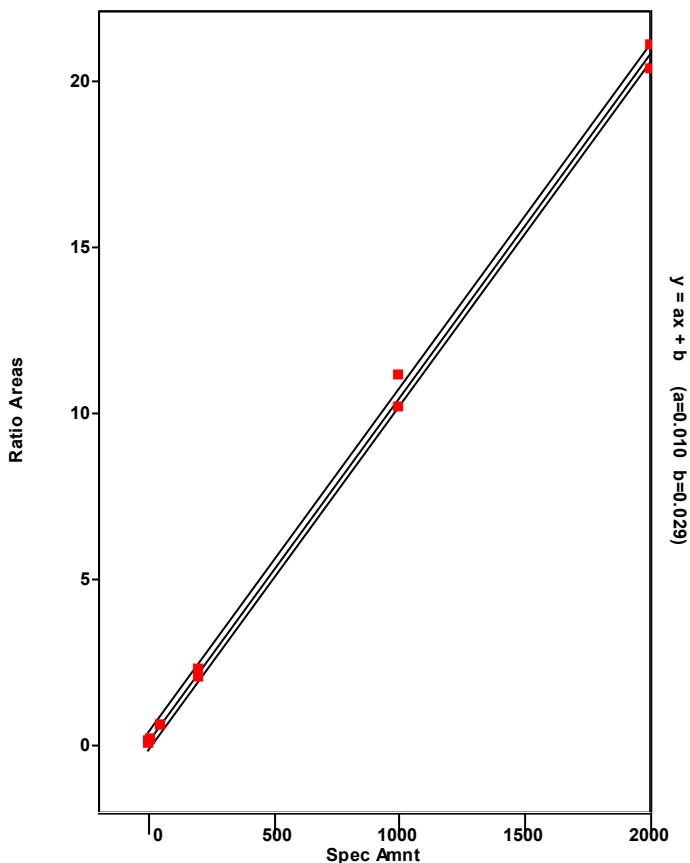


NL:
 2.03E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

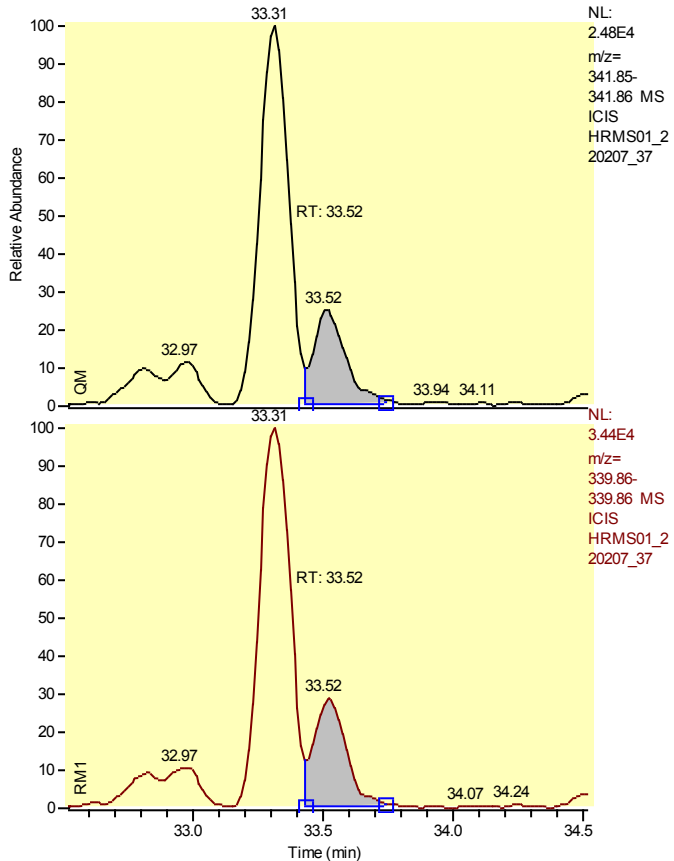
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.52 - 34.52 SM: 7G

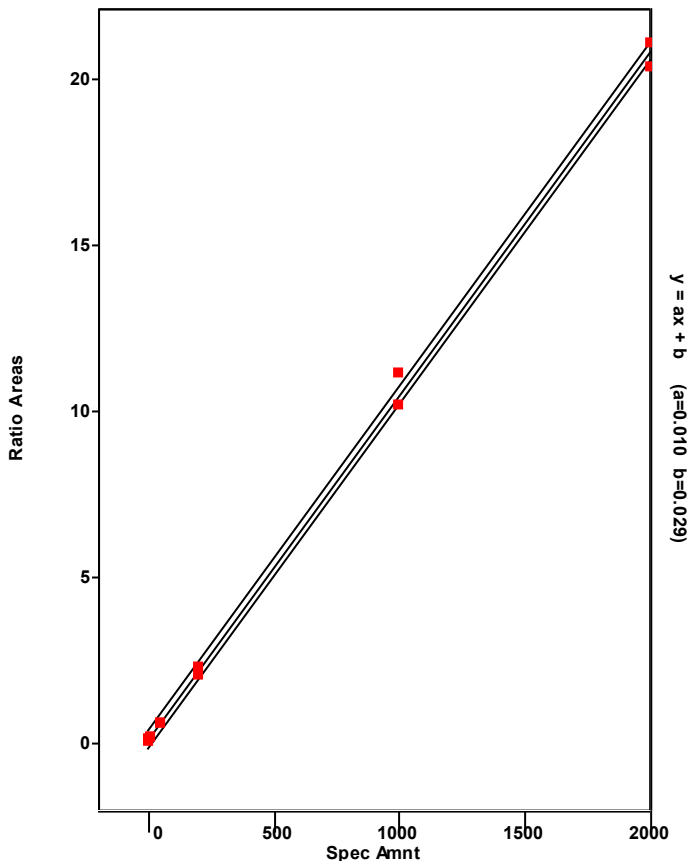


Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	50433
RM1 Area	82274
RM1 Ratio (A)	1.6313
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	6.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

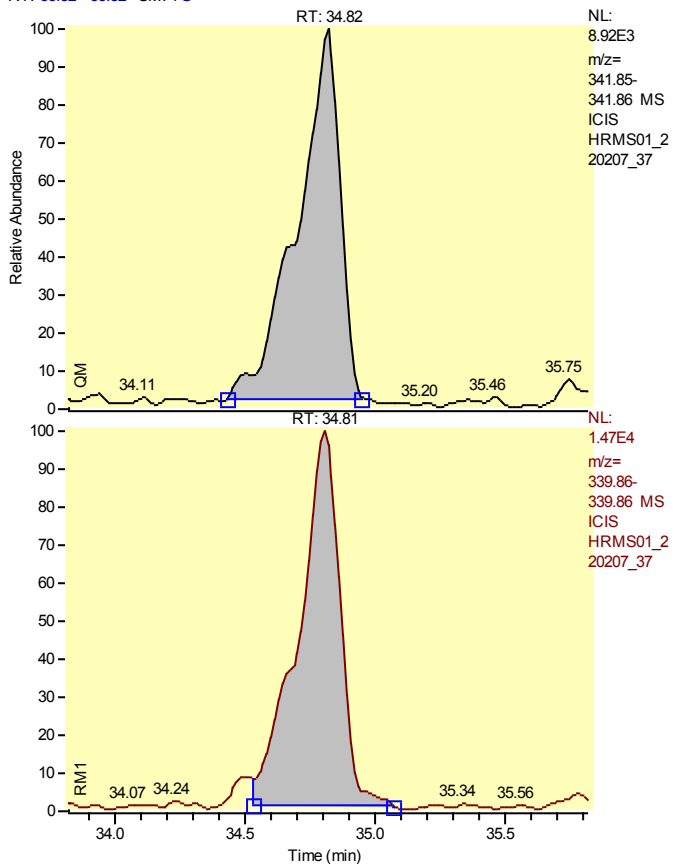
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.82 - 35.82 SM: 7G

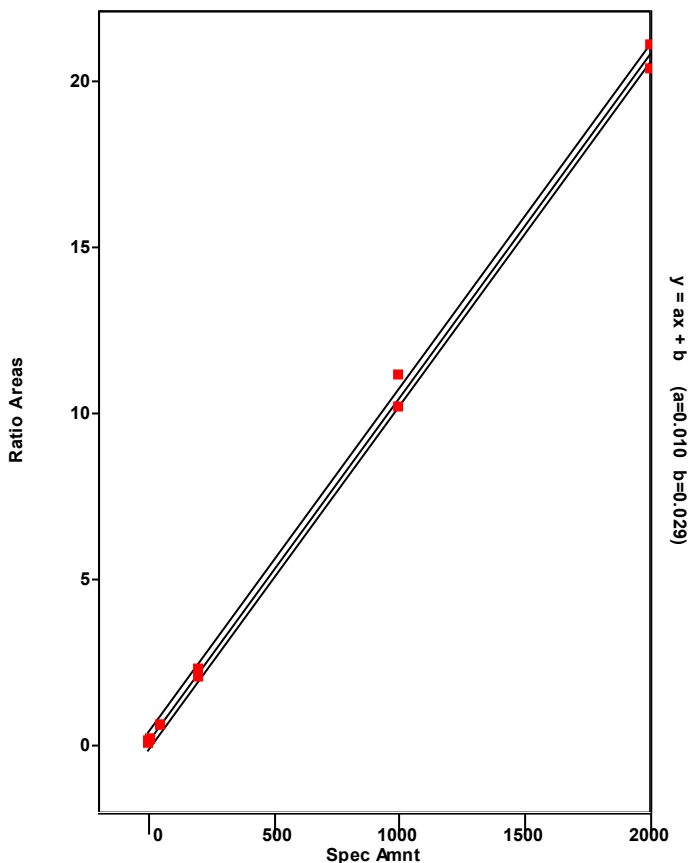


Entry Identifier	Total Pentachlorodibenzofuran__5
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	99308
RM1 Area	162084
RM1 Ratio (A)	1.6321
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	12.24
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__5 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__5

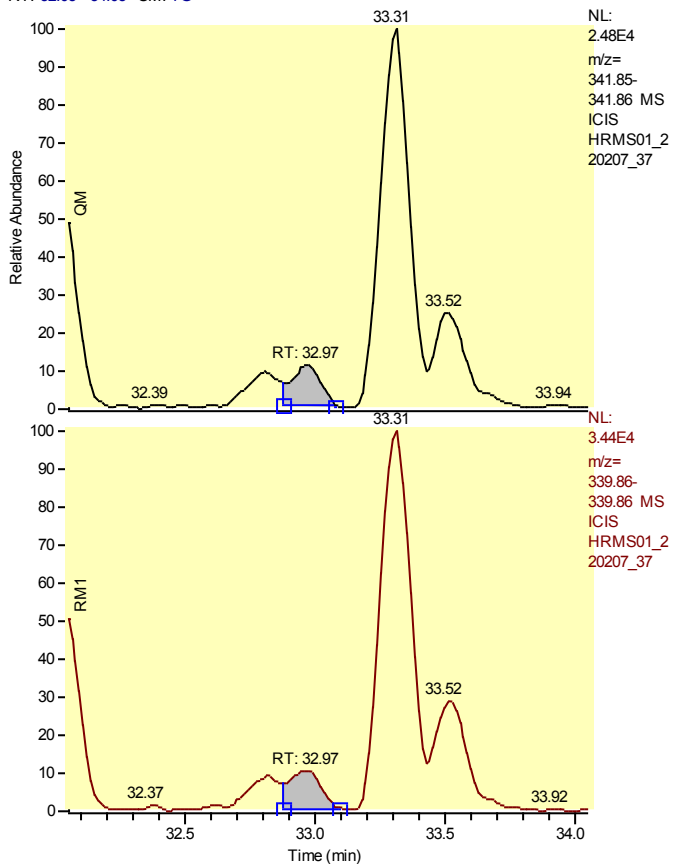
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 32.05 - 34.05 SM: 7G

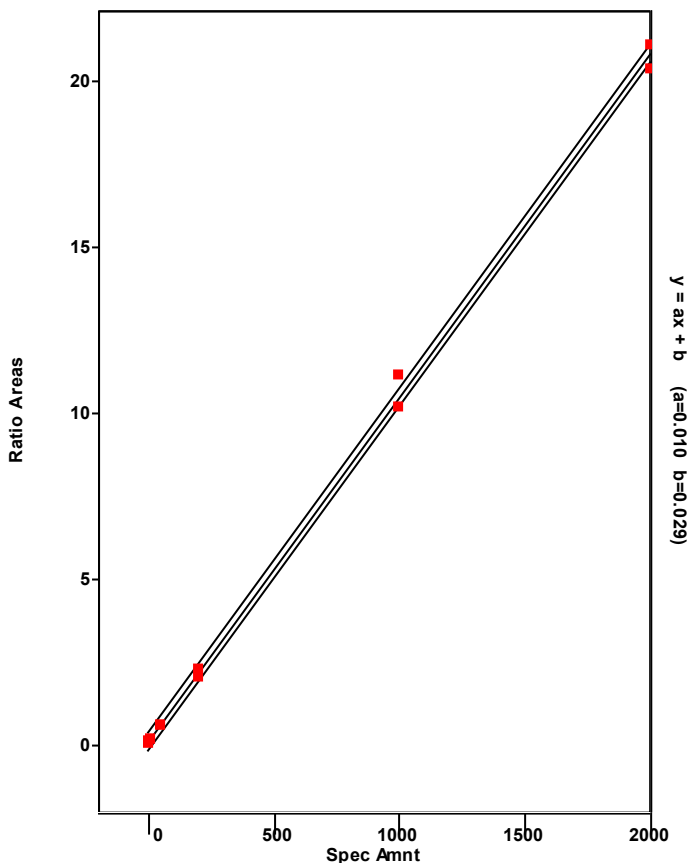


Entry Identifier	Total Pentachlorodibenzofuran__6
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	20921
RM1 Area	29198
RM1 Ratio (A)	1.3956
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.35
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__6 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__6

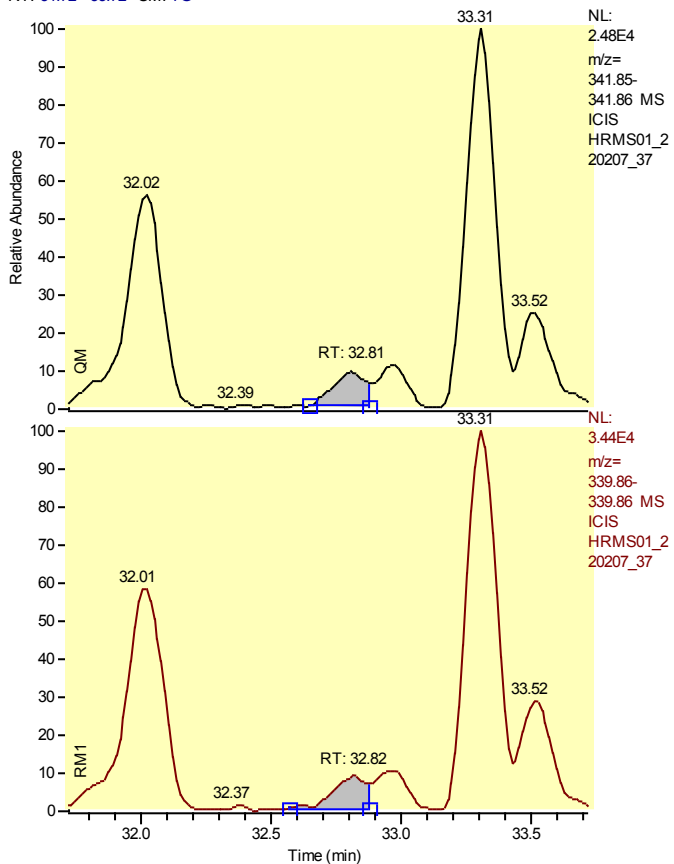
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 31.72 - 33.72 SM: 7G

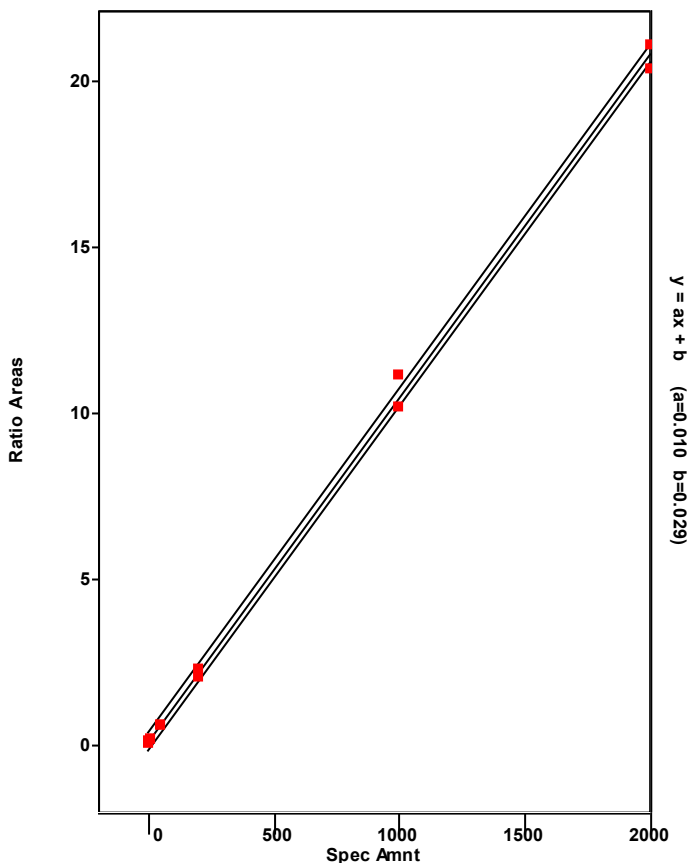


Entry Identifier	Total Pentachlorodibenzofuran__7
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	18945
RM1 Area	26160
RM1 Ratio (A)	1.3808
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__7 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__7

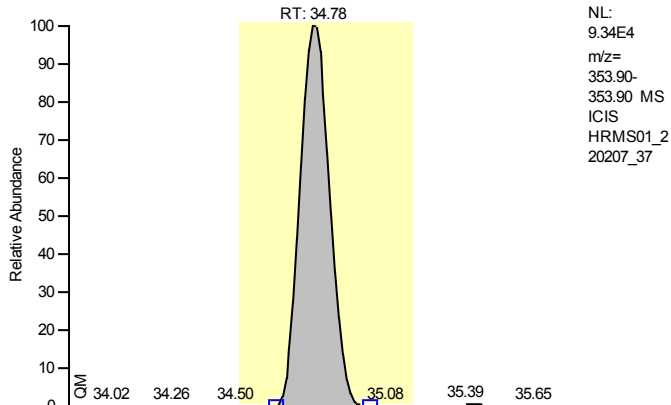
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



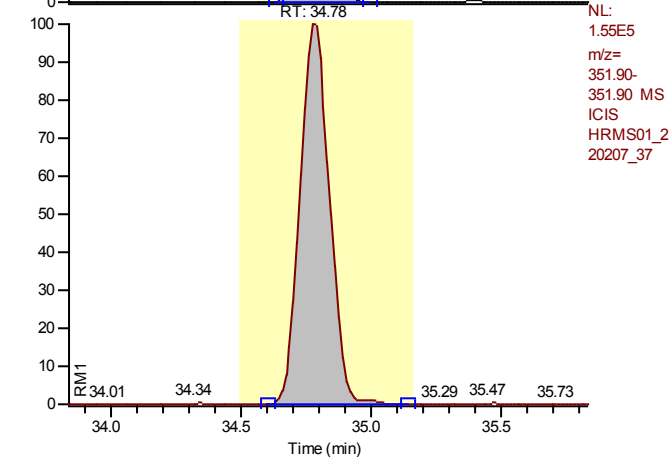
Chromatogram

Entry Parameters

RT: 33.84 - 35.84 SM: 7G



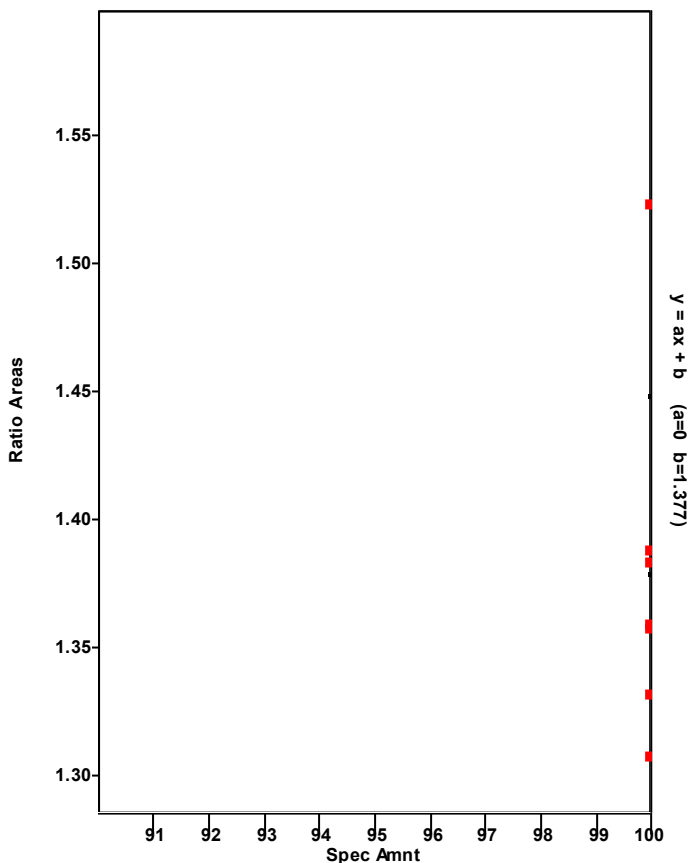
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	743295
RM1 Area	1224318
RM1 Ratio (A)	1.6471
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	59.19
Percent Recovery (A)	59
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

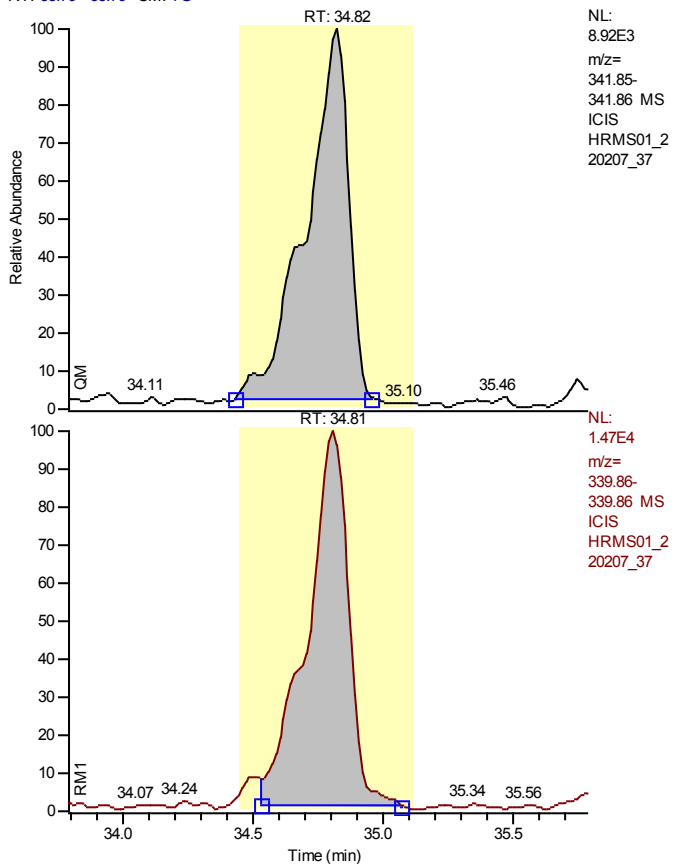
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.79 - 35.79 SM: 7G

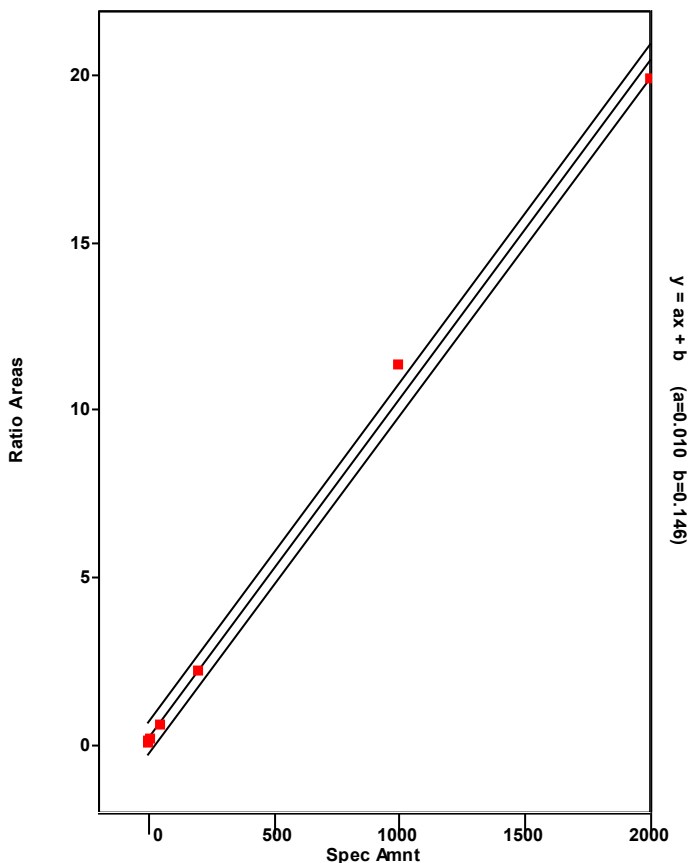


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	99308
RM1 Area	162084
RM1 Ratio (A)	1.6321
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	11.89
Percent Recovery (A)	---
TEQ (A)	3.5658
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

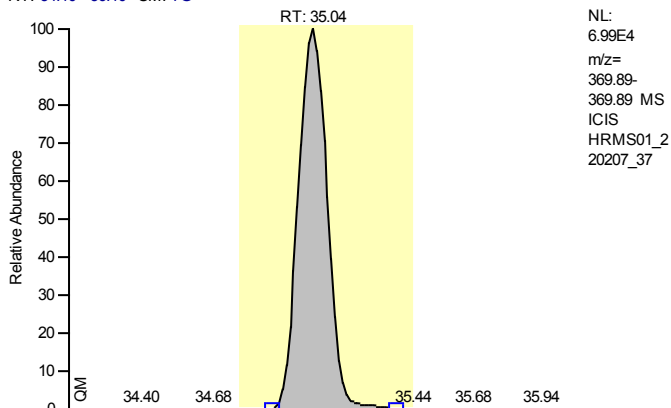
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



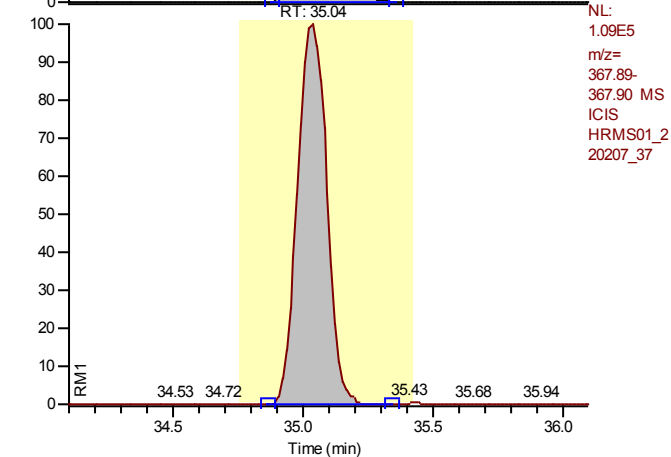
Chromatogram

Entry Parameters

RT: 34.10 - 36.10 SM: 7G



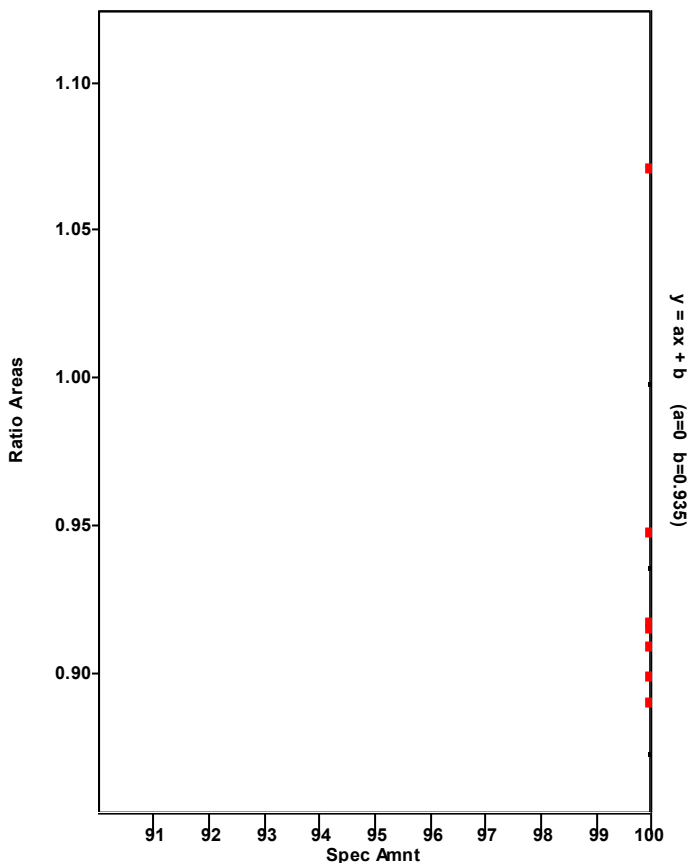
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	539463
RM1 Area	852473
RM1 Ratio (A)	1.5802
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	61.71
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

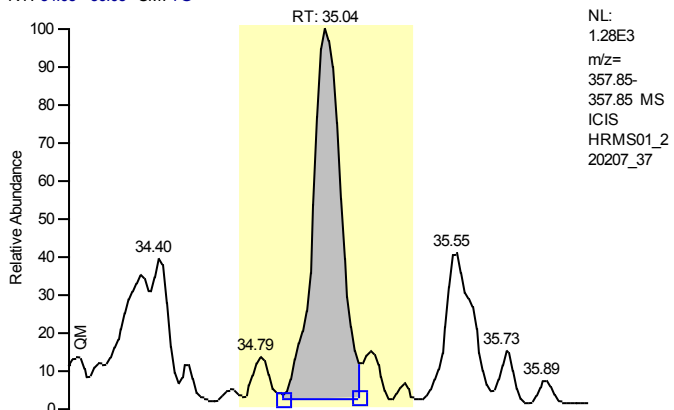
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



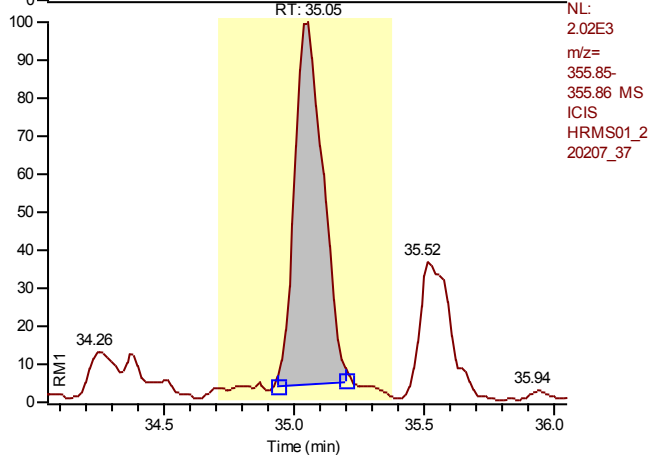
Chromatogram

Entry Parameters

RT: 34.05 - 36.05 SM: 7G



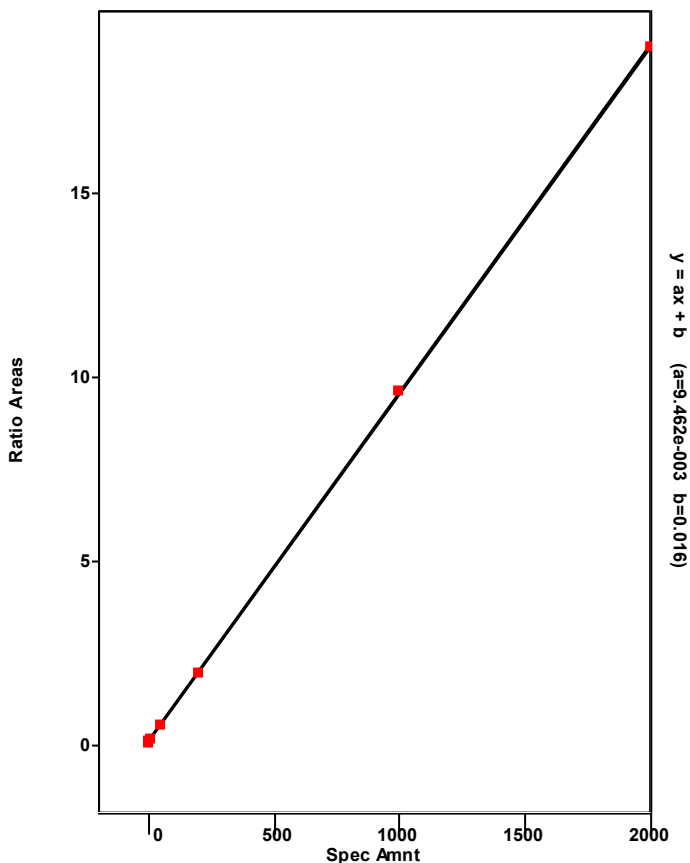
Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	9195
RM1 Area	14424
RM1 Ratio (A)	1.5687
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

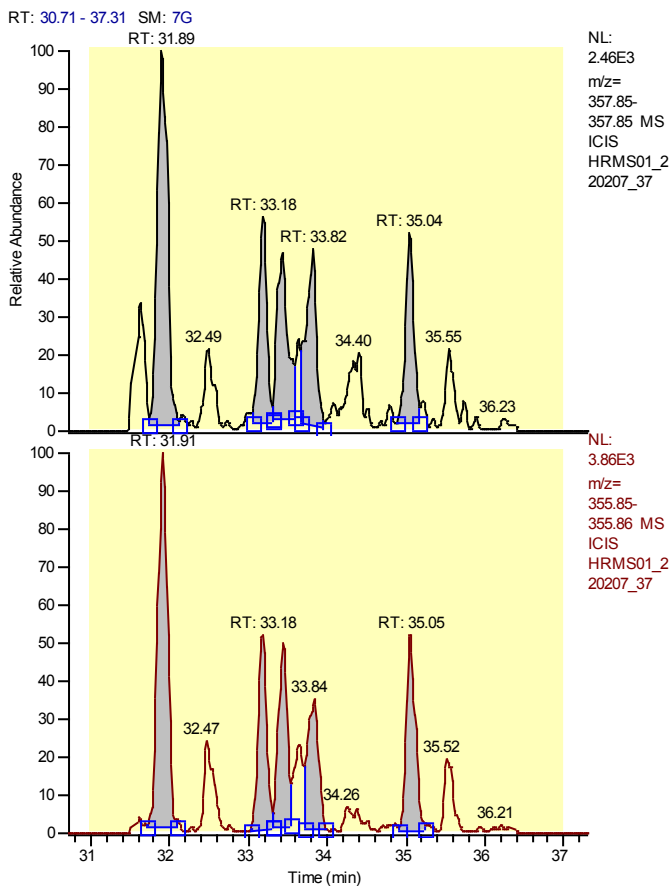
Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

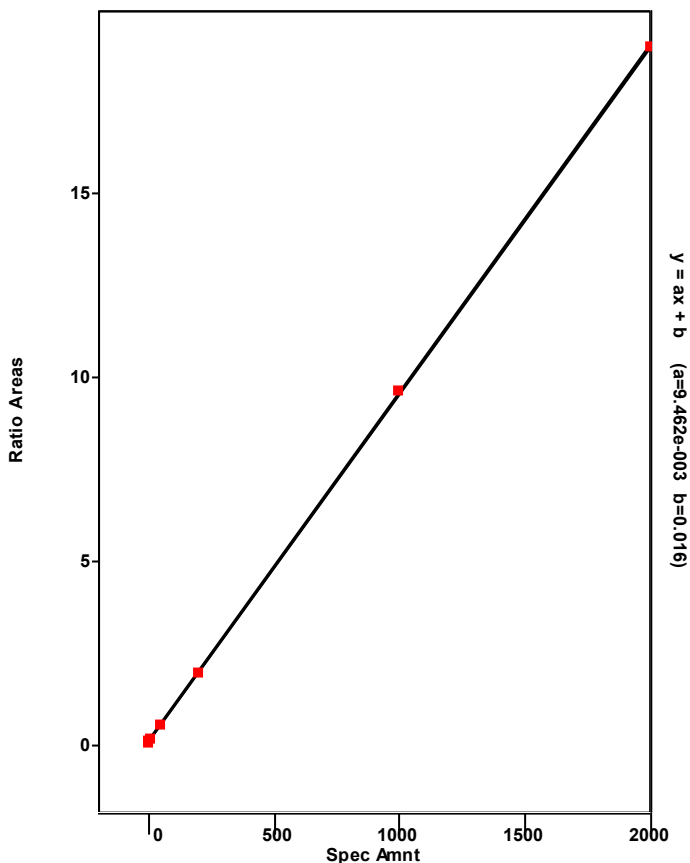


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	60996
RM1 Area	91050
RM1 Ratio (A)	1.5484
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	10.95
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

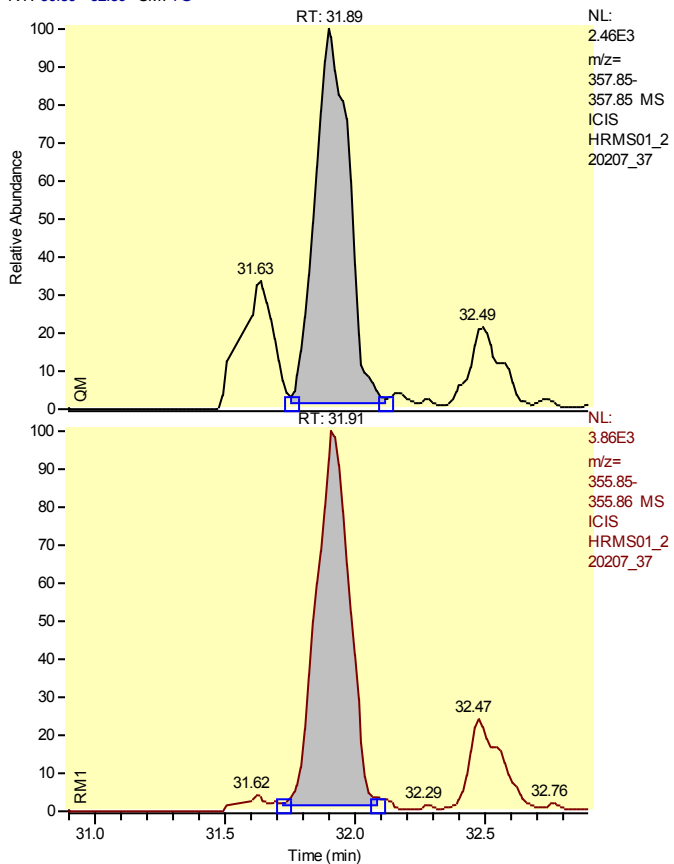
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 30.89 - 32.89 SM: 7G

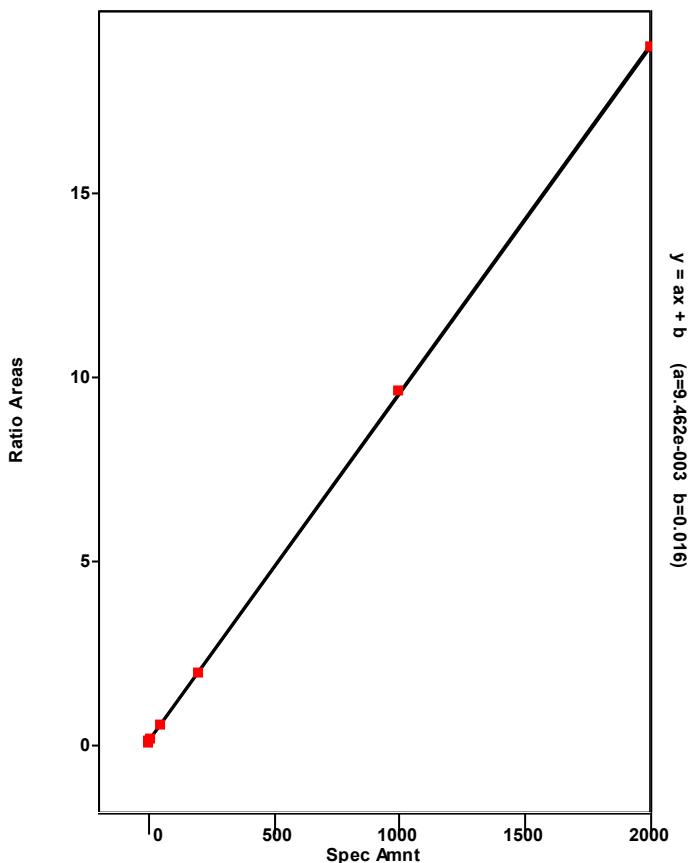


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	21780
RM1 Area	33411
RM1 Ratio (A)	1.5340
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	3.98
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

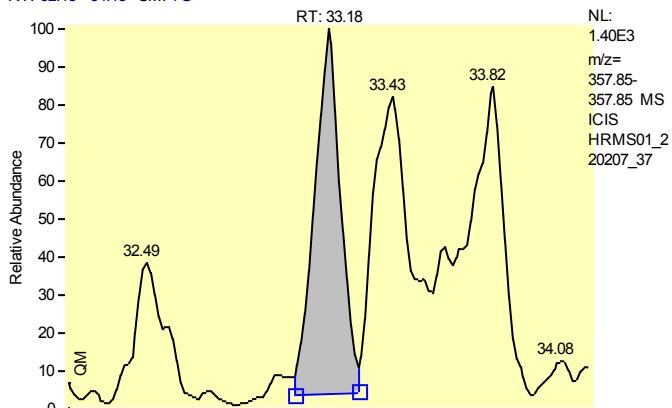
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



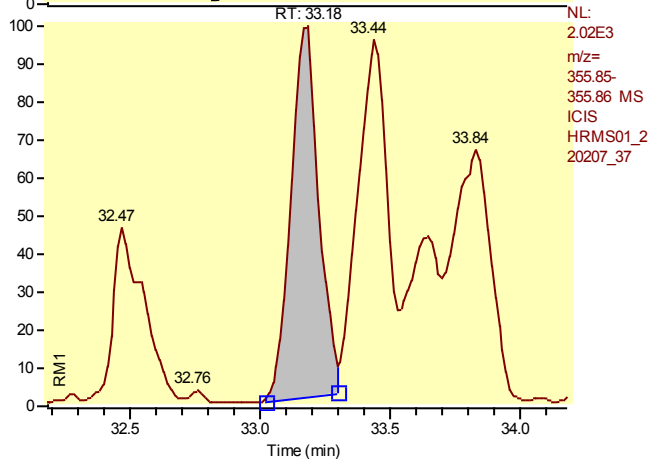
Chromatogram

Entry Parameters

RT: 32.18 - 34.18 SM: 7G



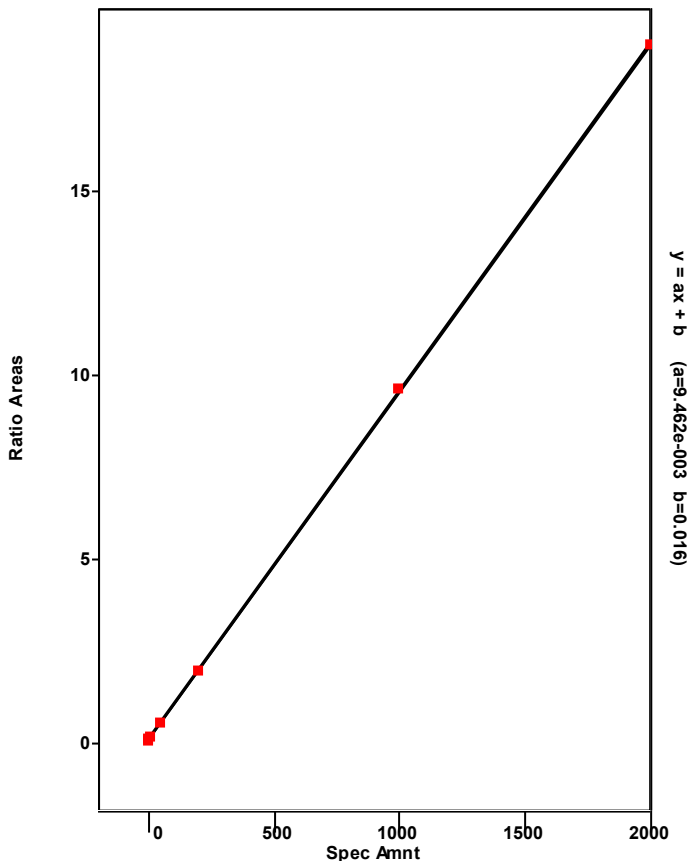
Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	9277
RM1 Area	14579
RM1 Ratio (A)	1.5716
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.72
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

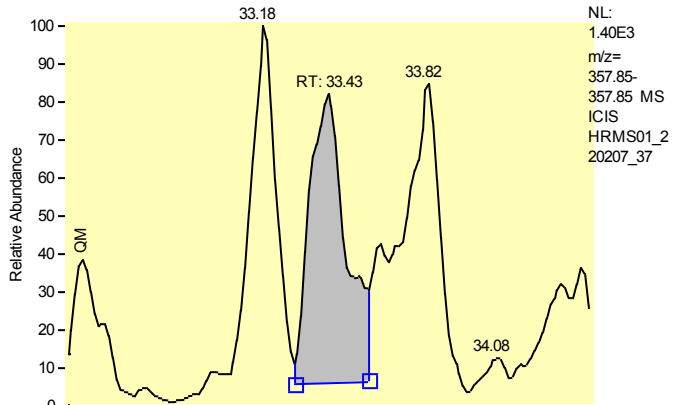
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



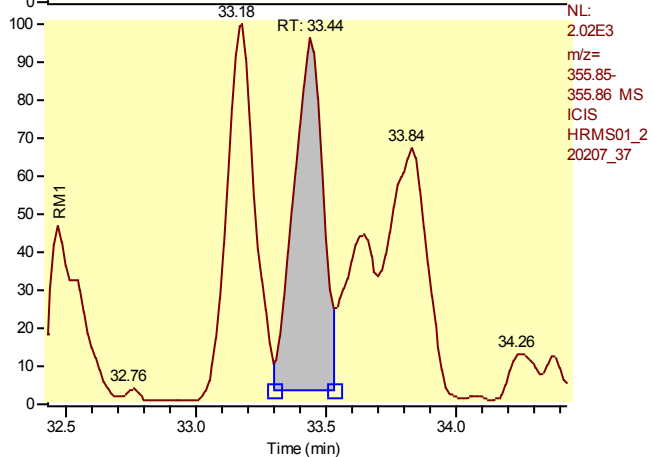
Chromatogram

Entry Parameters

RT: 32.43 - 34.43 SM: 7G



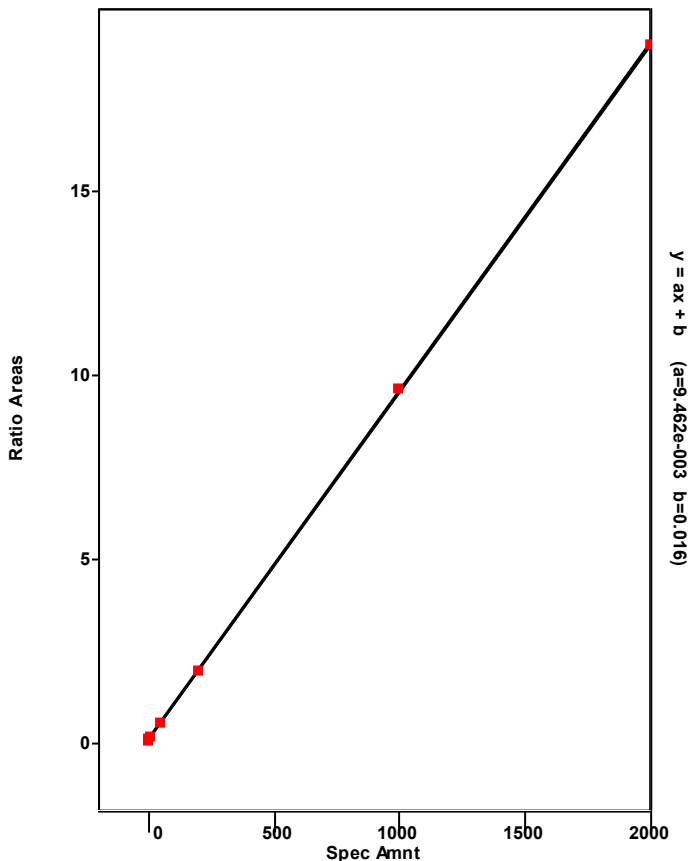
Entry Identifier	Total Pentachlorodibenzo-p-dioxin__4
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	10393
RM1 Area	14461
RM1 Ratio (A)	1.3913
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.79
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

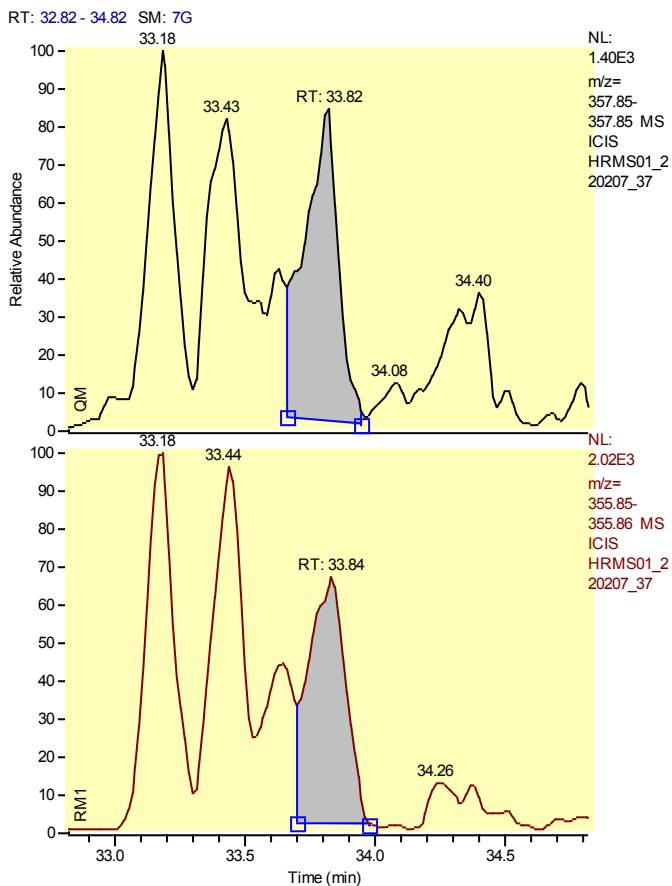
Calibration Points of Total Pentachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

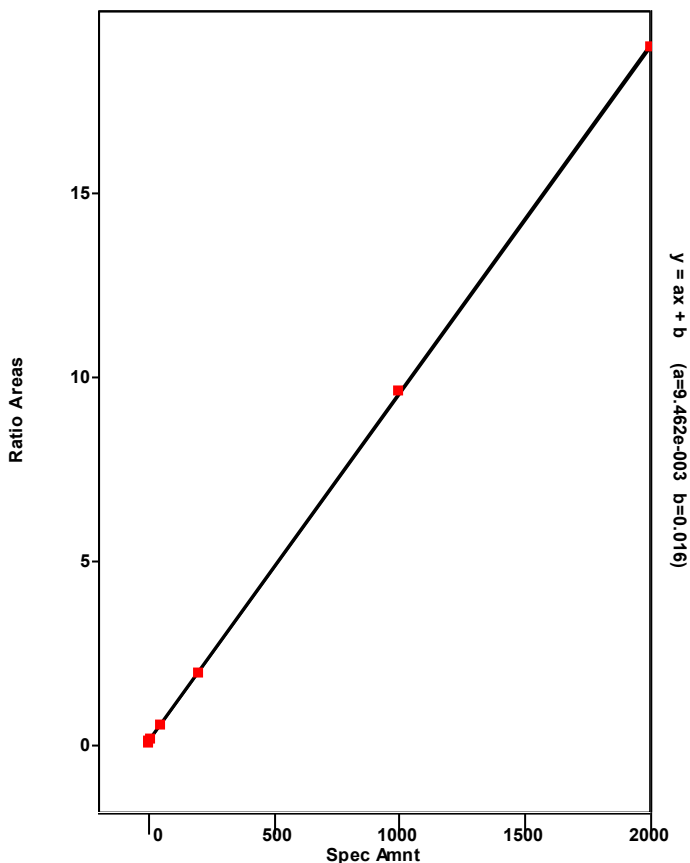


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__5
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	10579
RM1 Area	12981
RM1 Ratio (A)	1.2271
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d. < 1.70
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__5 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__5

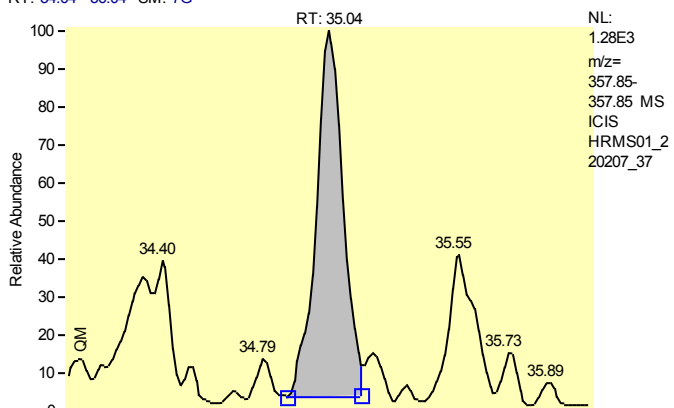
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



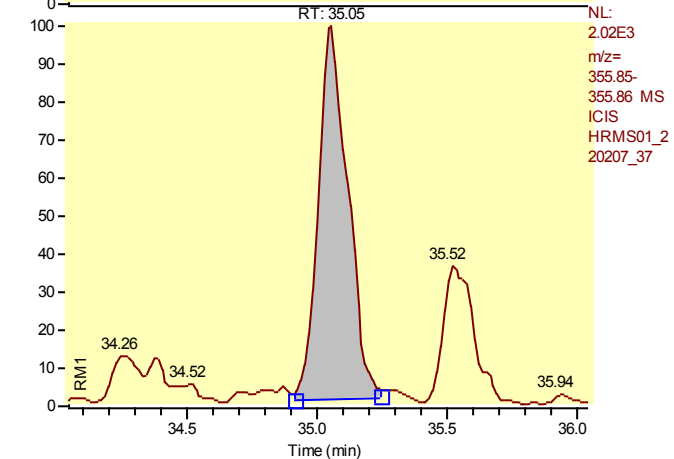
Chromatogram

Entry Parameters

RT: 34.04 - 36.04 SM: 7G



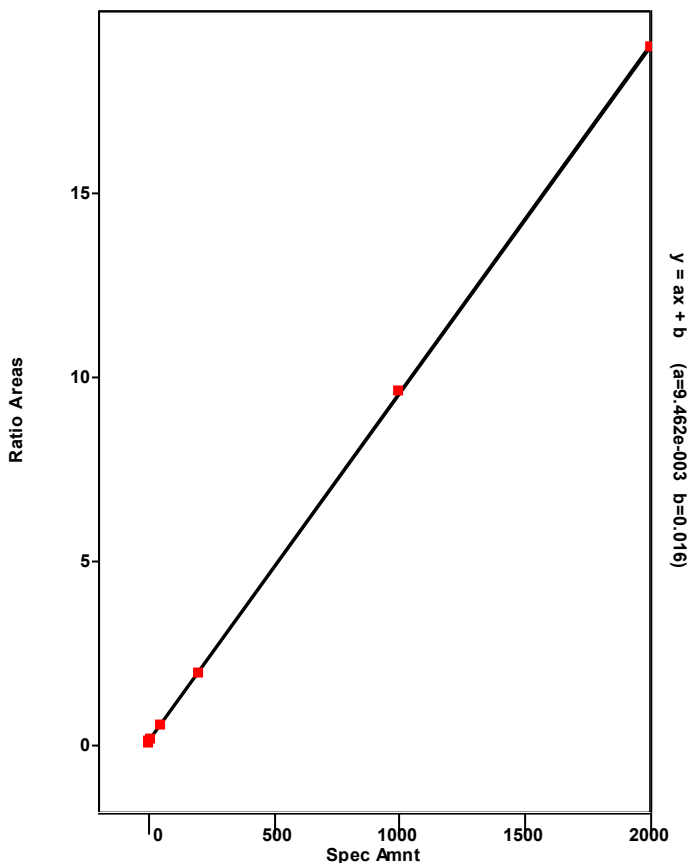
Entry Identifier	Total Pentachlorodibenzo-p-dioxin__6
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	8967
RM1 Area	15618
RM1 Ratio (A)	1.7417
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.77
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Pentachlorodibenzo-p-dioxin__6 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__6

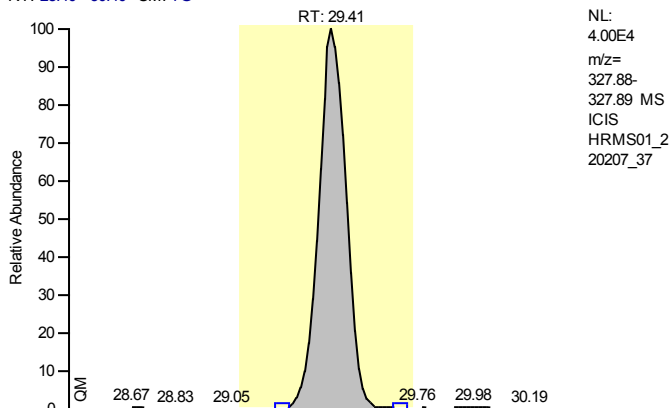
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



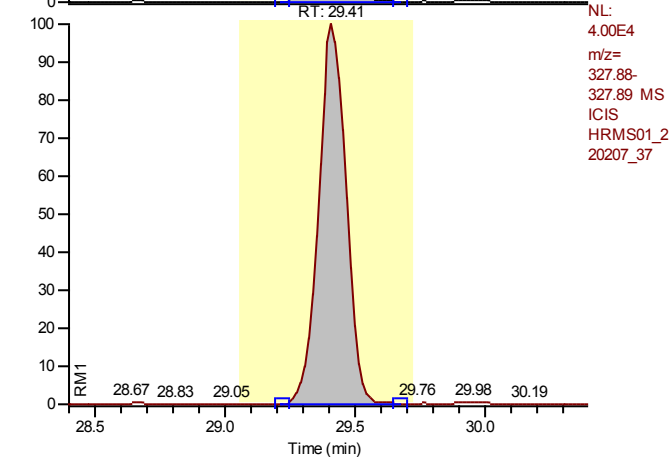
Chromatogram

Entry Parameters

RT: 28.40 - 30.40 SM: 7G



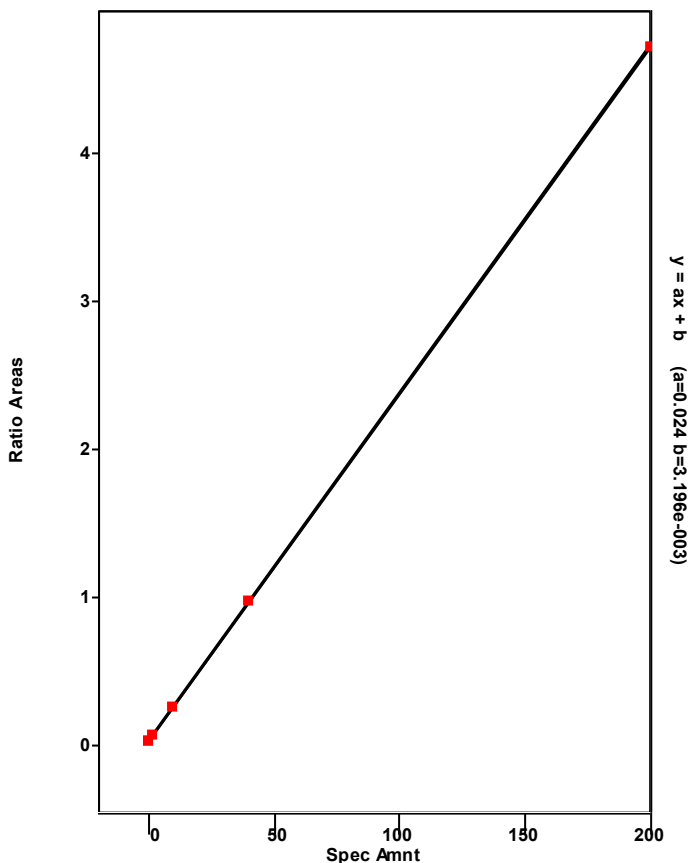
Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	306930
RM1 Area	306930
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.55
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	



Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

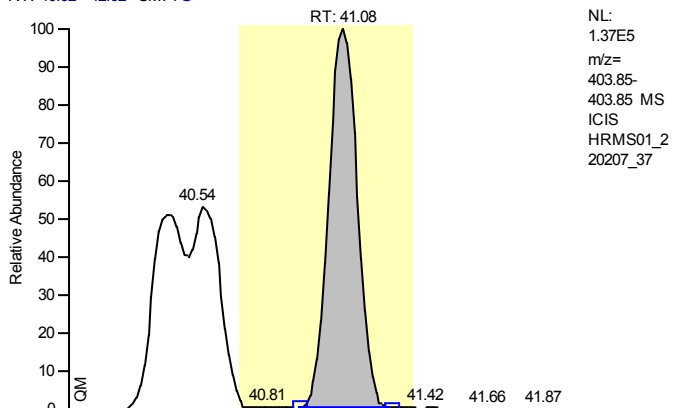
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

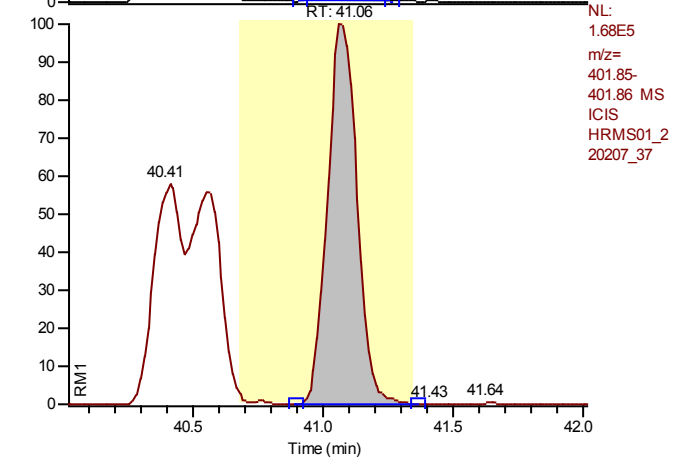
Entry Parameters

RT: 40.02- 42.02 SM: 7G



NL:
 1.37E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1057829
RM1 Area	1340820
RM1 Ratio (A)	1.2675
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

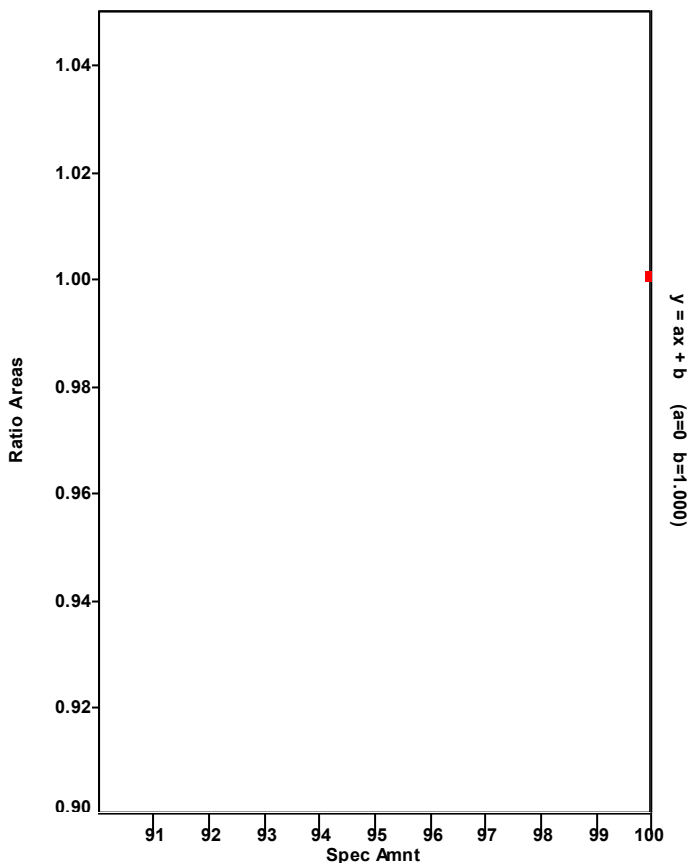


NL:
 1.68E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

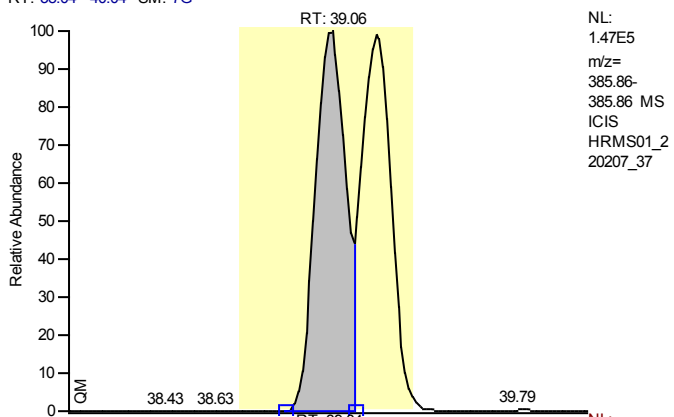
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

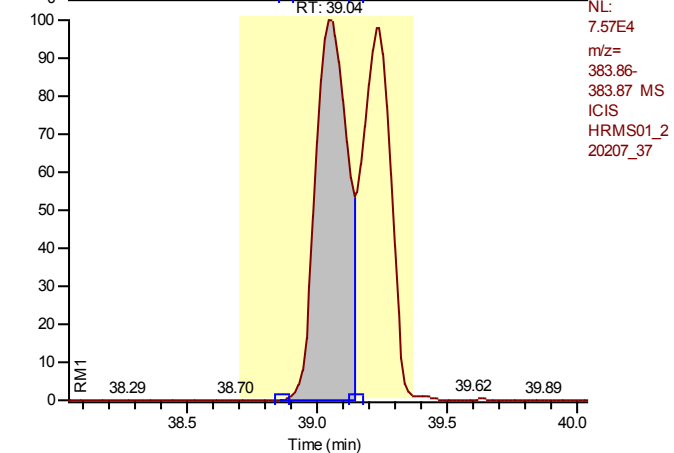
Entry Parameters

RT: 38.04 - 40.04 SM: 7G



NL:
 1.47E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1179948
RM1 Area	628517
RM1 Ratio (A)	0.5327
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	65.54
Percent Recovery (A)	66
TEQ (A)	0.0000
Label2	

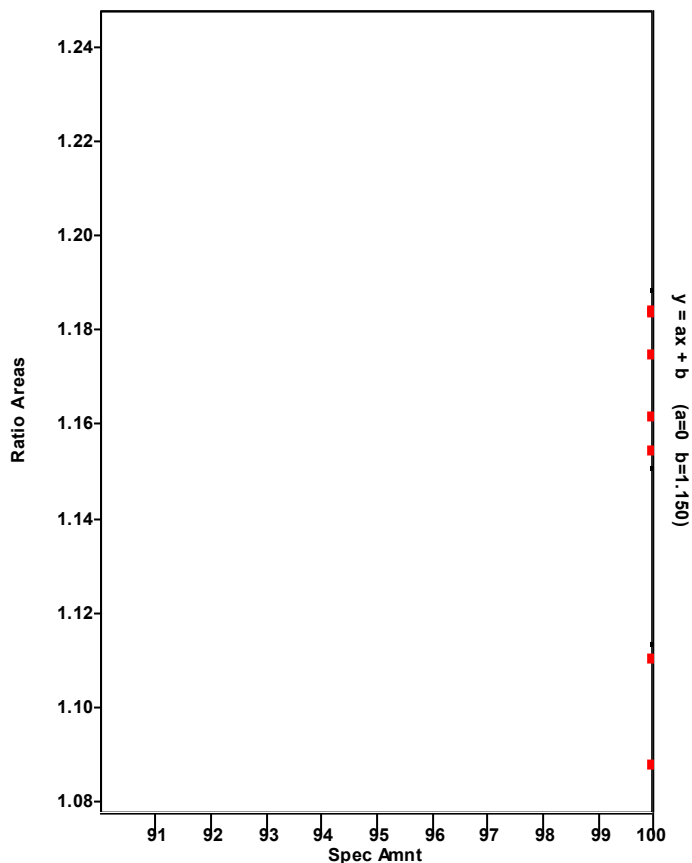


NL:
 7.57E4
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

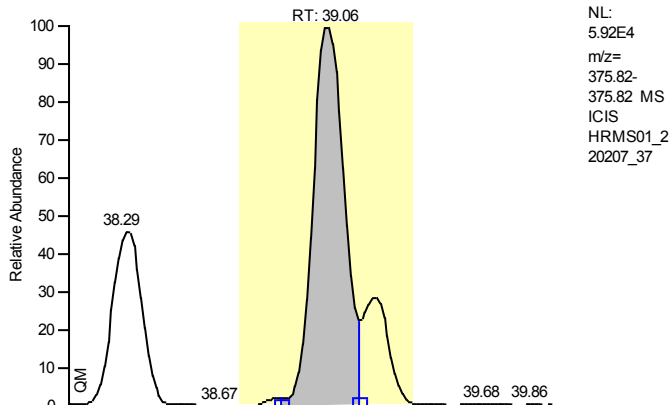
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



Chromatogram

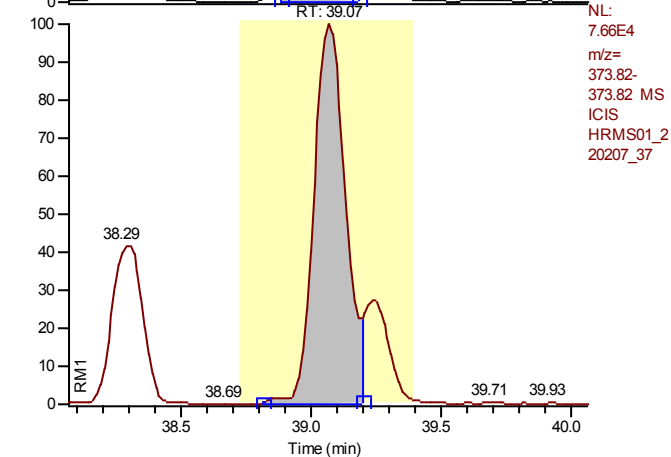
Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
 5.92E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	493103
RM1 Area	638107
RM1 Ratio (A)	1.2941
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	50.17
Percent Recovery (A)	---
TEQ (A)	5.0168
Label2	

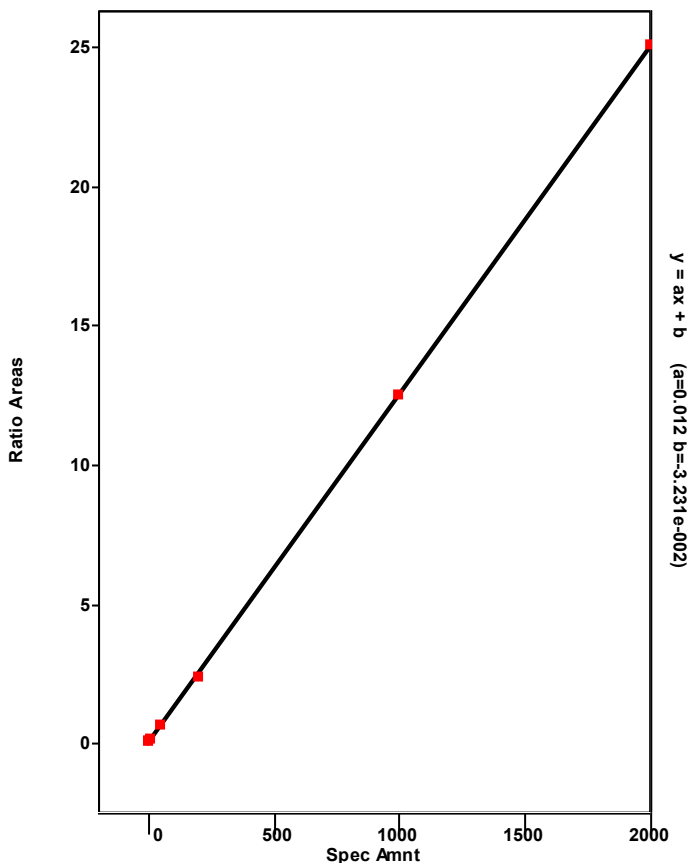


NL:
 7.66E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

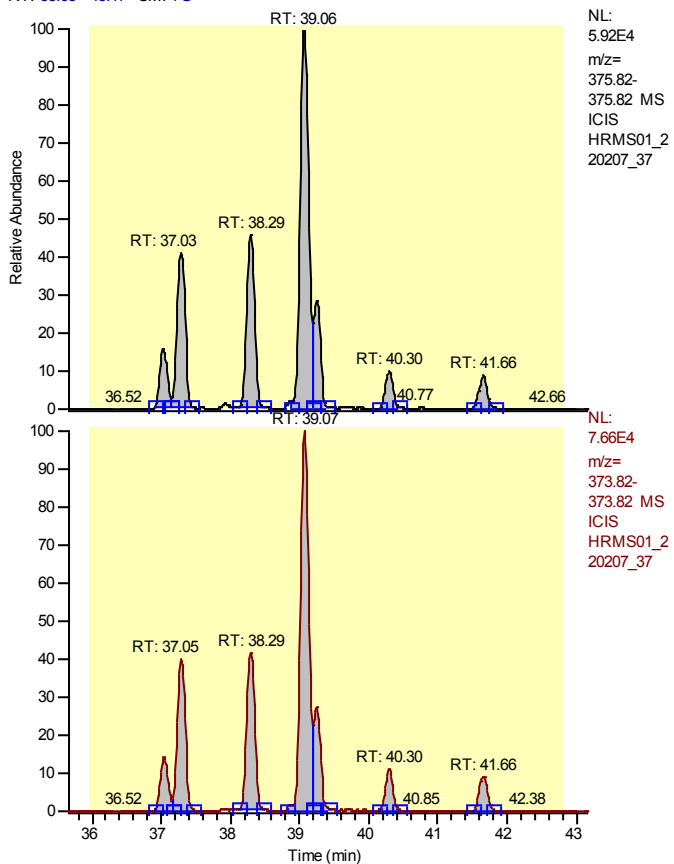
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

RT: 35.65 - 43.17 SM: 7G

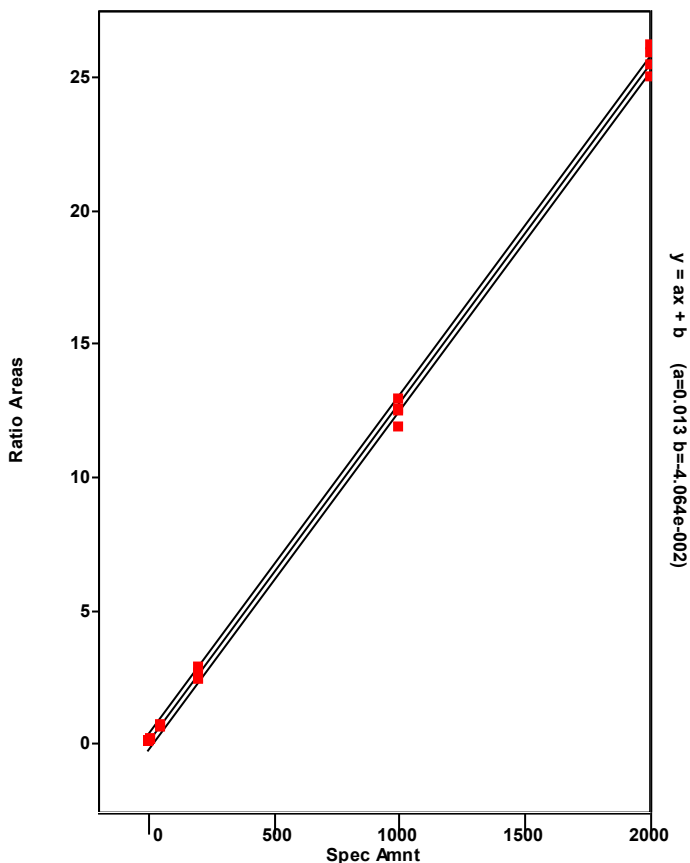


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	1178899
RM1 Area	1482405
RM1 Ratio (A)	1.2574
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	115.98
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

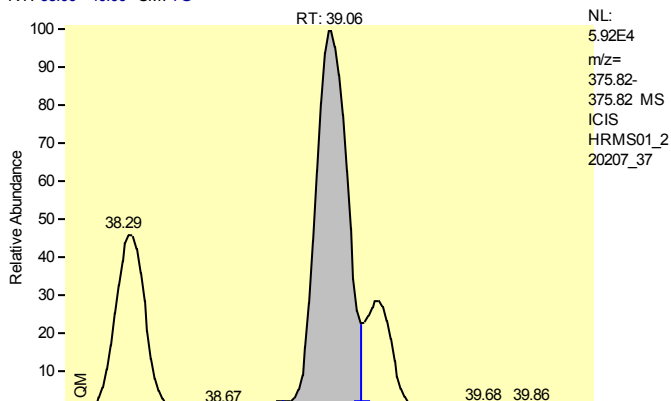
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

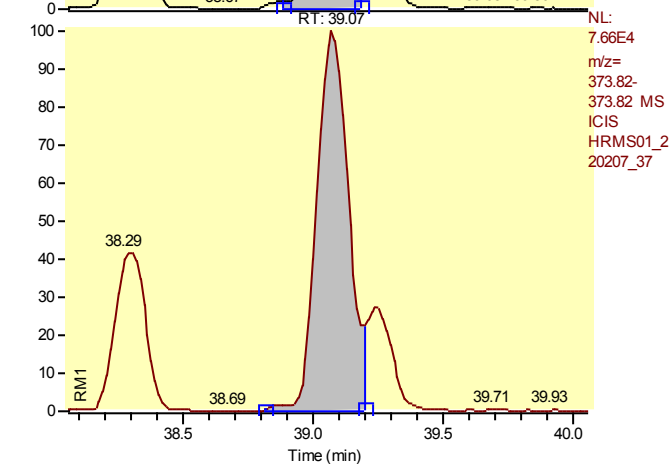
Entry Parameters

RT: 38.06 - 40.06 SM: 7G



NL:
 5.92E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	493103
RM1 Area	638107
RM1 Ratio (A)	1.2941
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	49.30
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

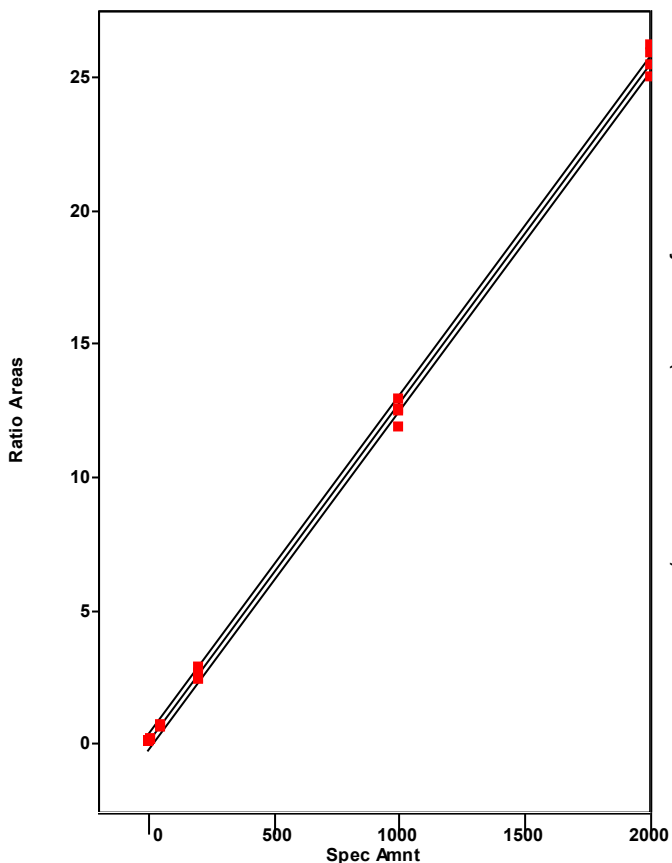


NL:
 7.66E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

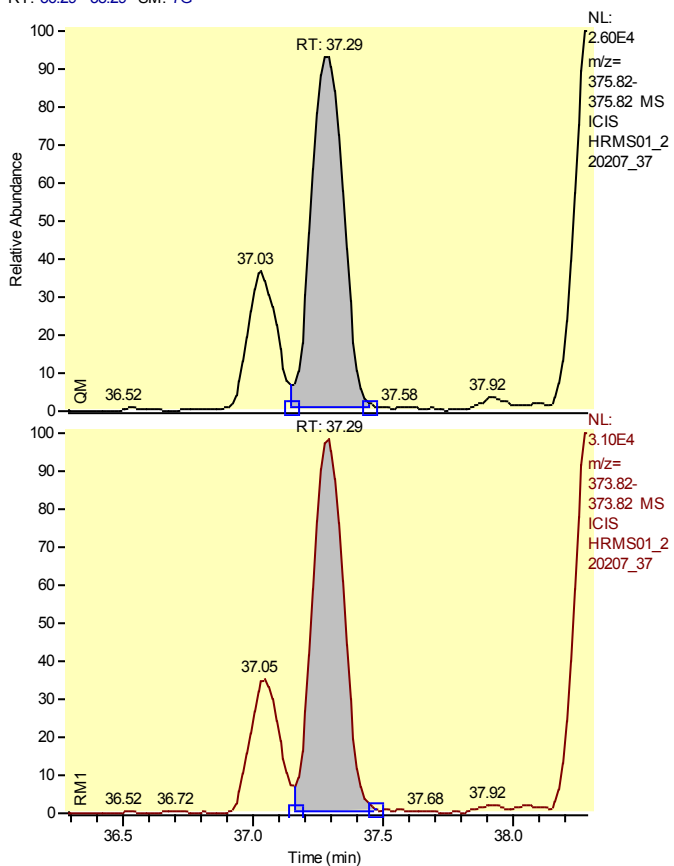
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 36.29 - 38.29 SM: 7G

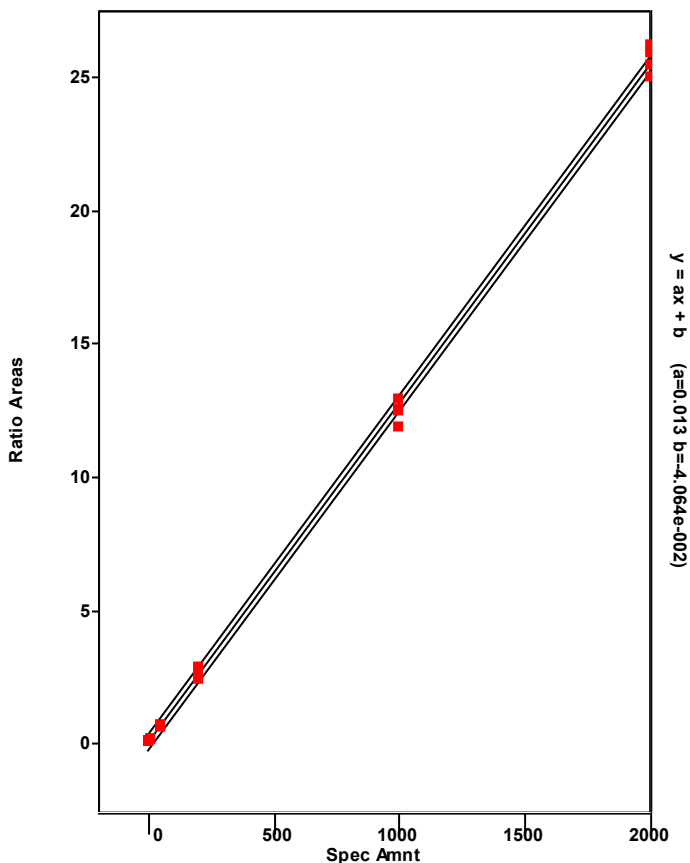


Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	203468
RM1 Area	249253
RM1 Ratio (A)	1.2250
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	19.73
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

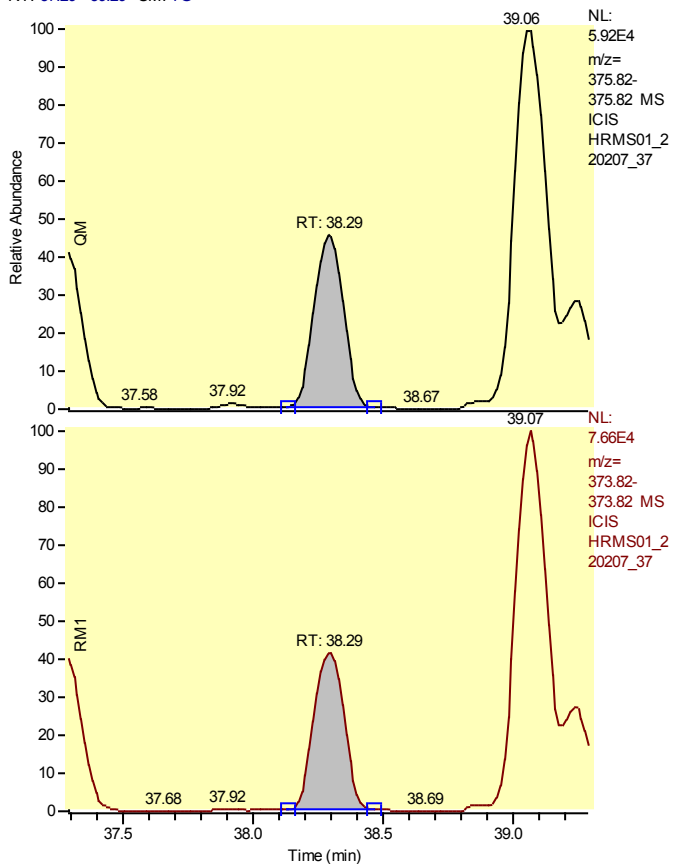
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 37.29 - 39.29 SM: 7G

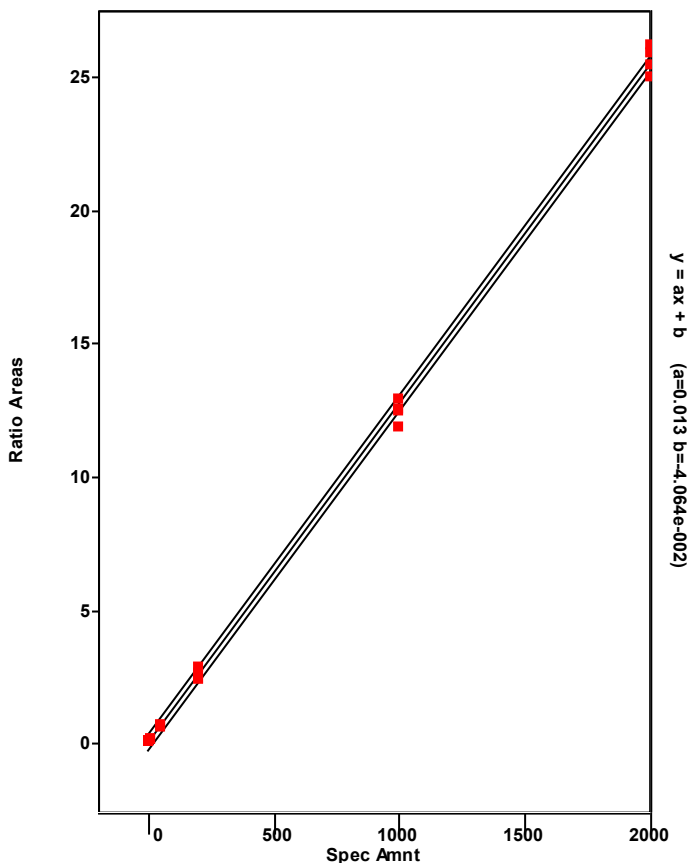


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	208801
RM1 Area	255670
RM1 Ratio (A)	1.2245
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	20.24
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

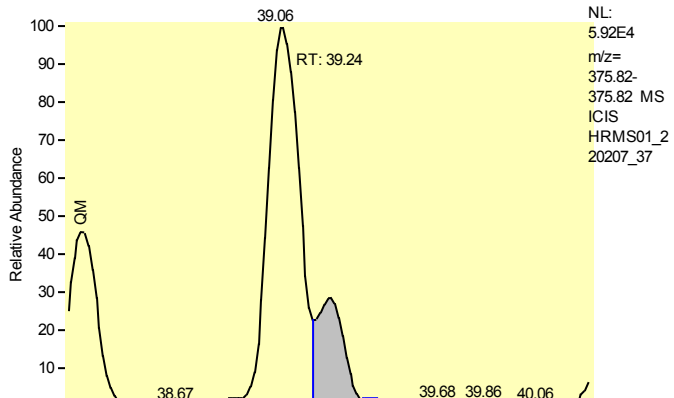
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



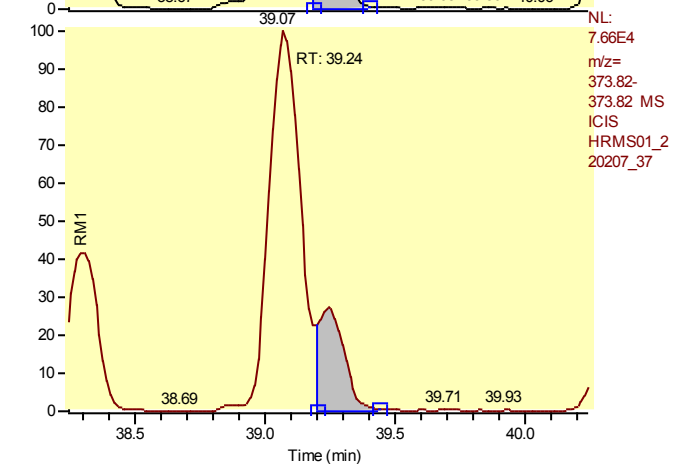
Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G



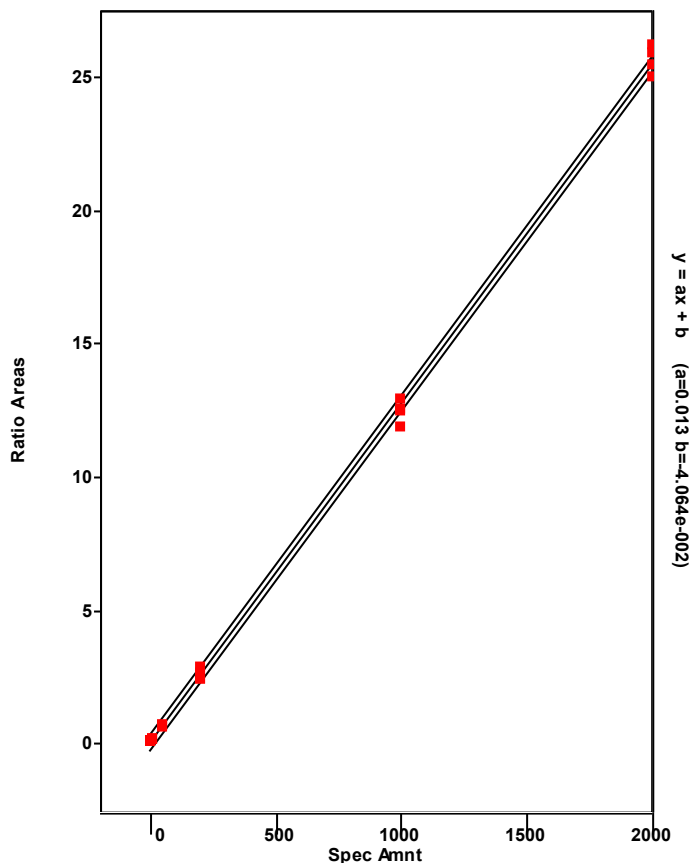
Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	119413
RM1 Area	136440
RM1 Ratio (A)	1.1426
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	11.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

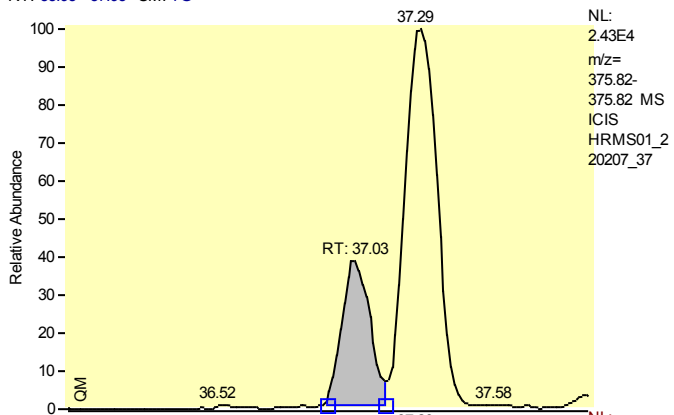
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



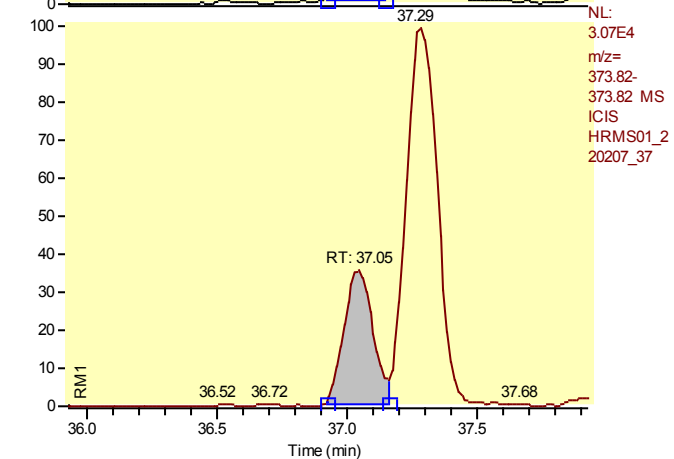
Chromatogram

Entry Parameters

RT: 35.93 - 37.93 SM: 7G



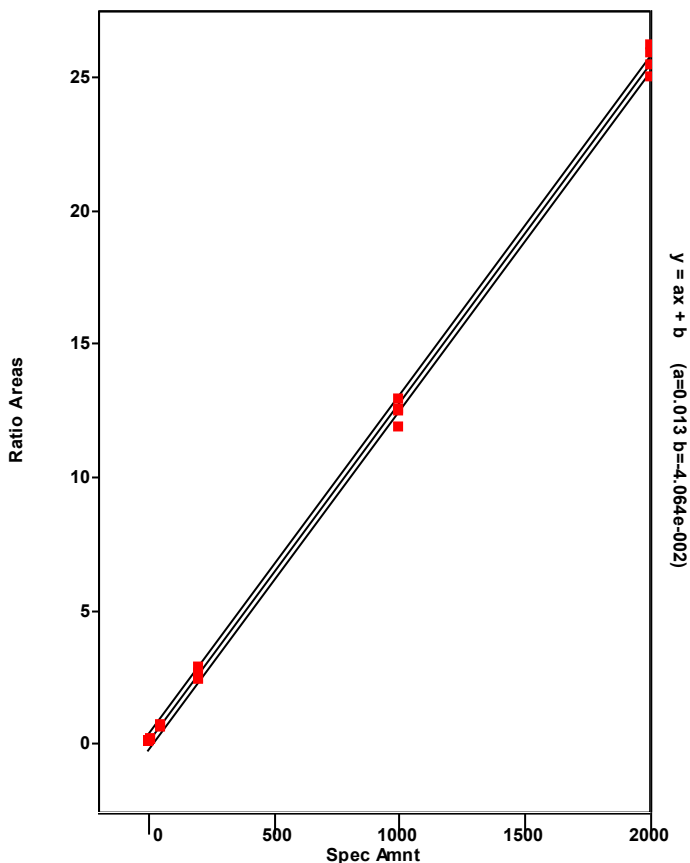
Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	69249
RM1 Area	83883
RM1 Ratio (A)	1.2113
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.67
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

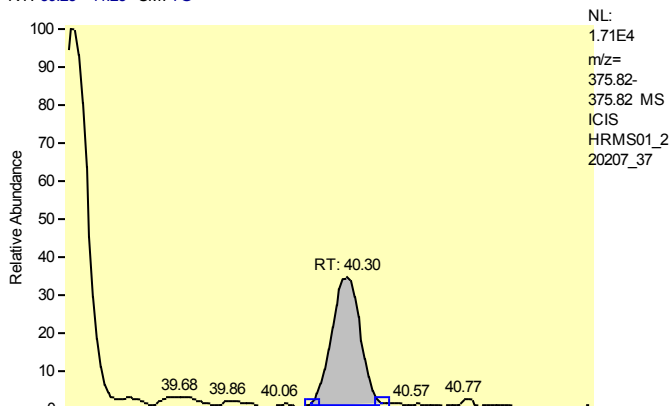
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



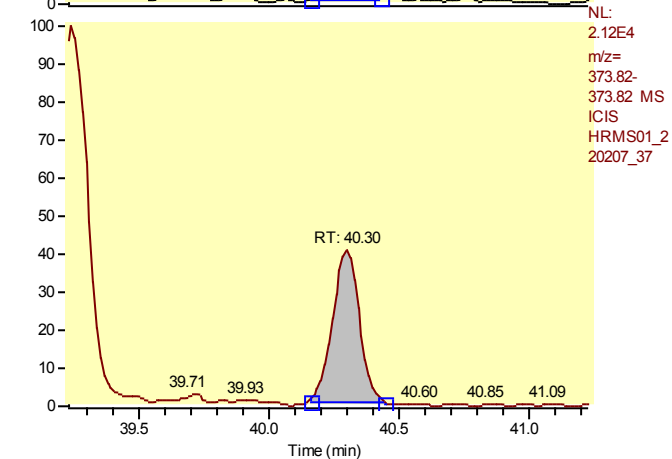
Chromatogram

Entry Parameters

RT: 39.23 - 41.23 SM: 7G



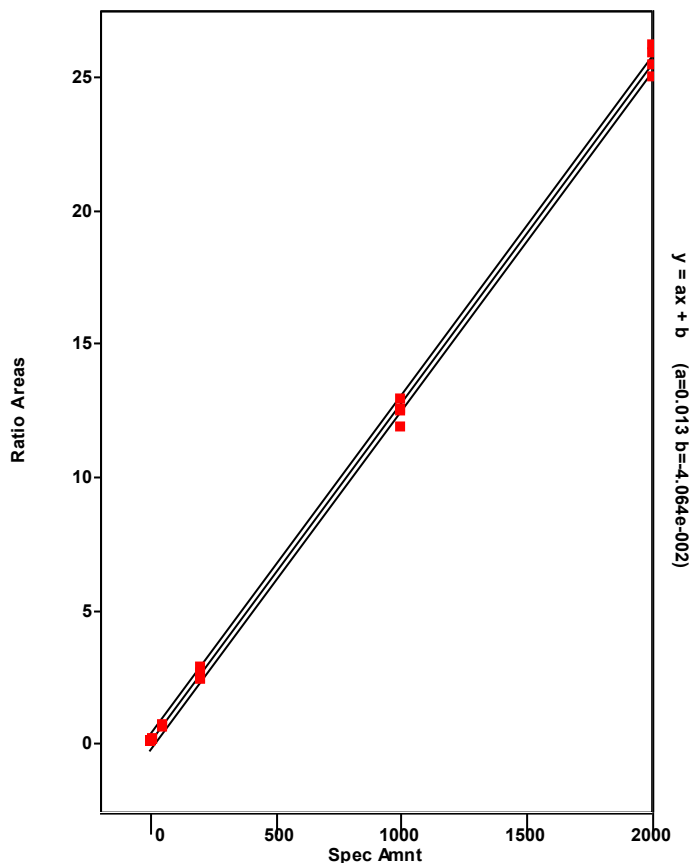
Entry Identifier	Total Hexachlorodibenzofuran__6
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	43778
RM1 Area	61793
RM1 Ratio (A)	1.4115
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.60
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__6 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__6

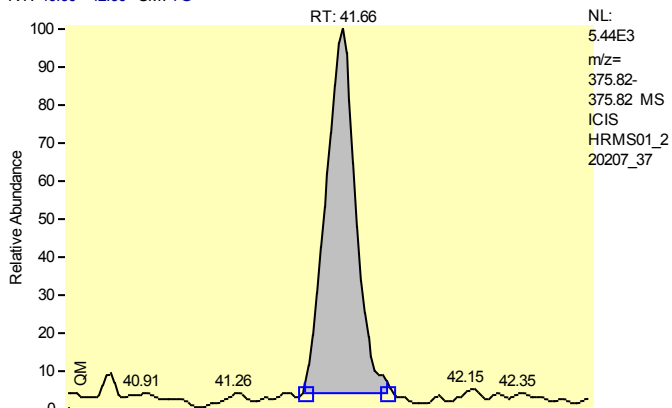
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



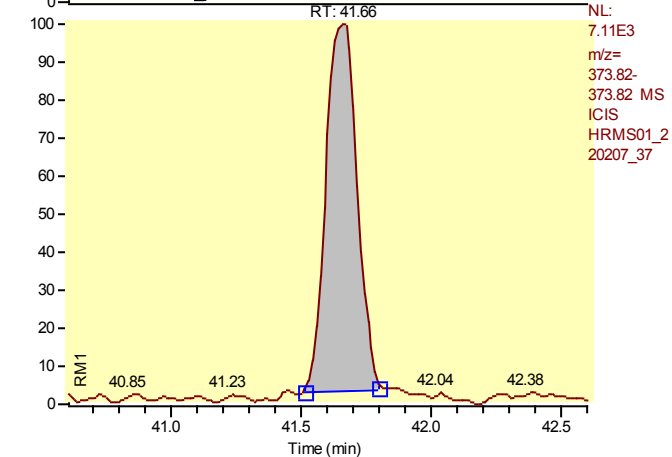
Chromatogram

Entry Parameters

RT: 40.60 - 42.60 SM: 7G



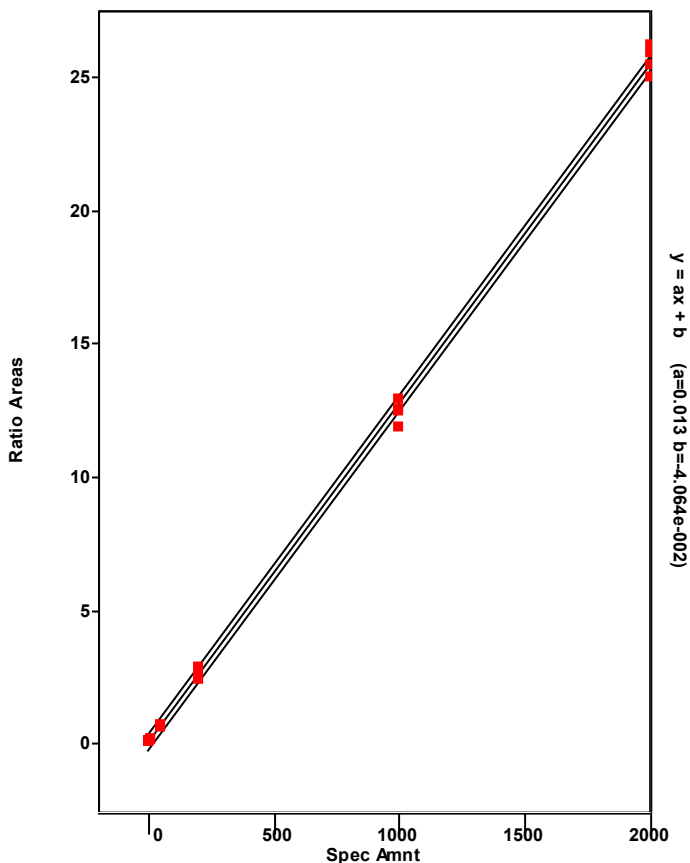
Entry Identifier	Total Hexachlorodibenzofuran__7
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	41088
RM1 Area	57259
RM1 Ratio (A)	1.3936
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.29
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__7 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__7

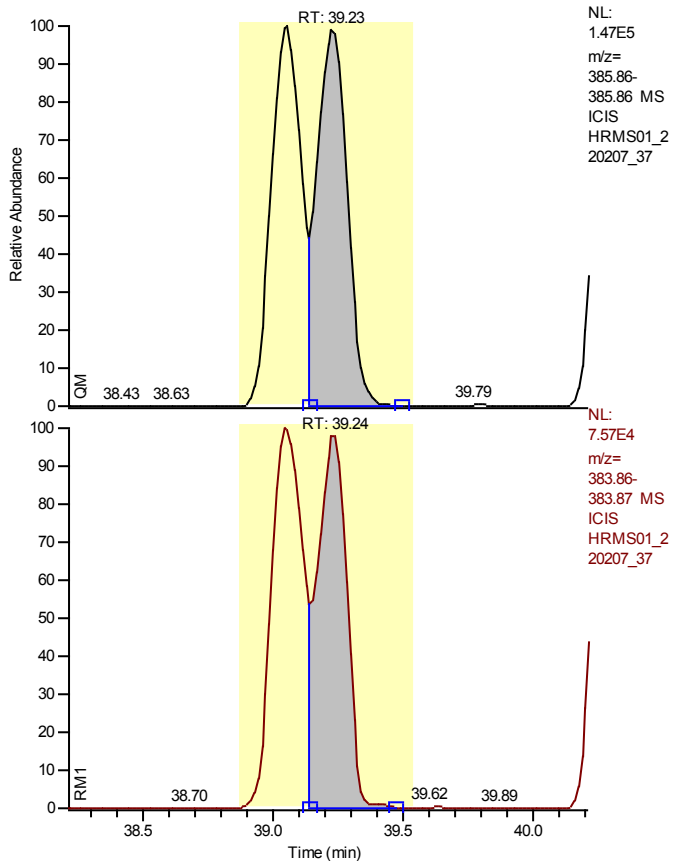
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

RT: 38.21 - 40.21 SM: 7G

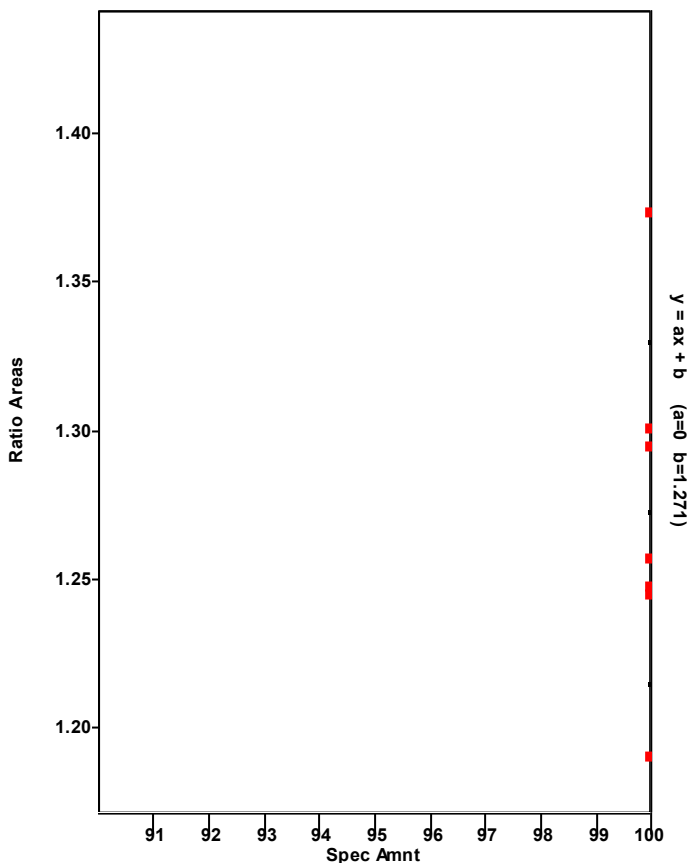


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1165908
RM1 Area	581763
RM1 Ratio (A)	0.4990
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	57.31
Percent Recovery (A)	57
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

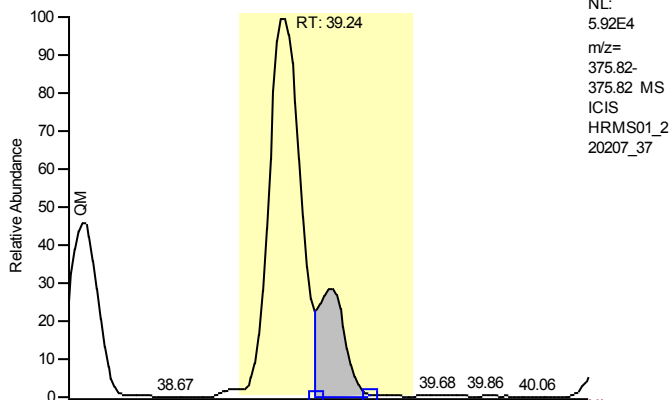
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

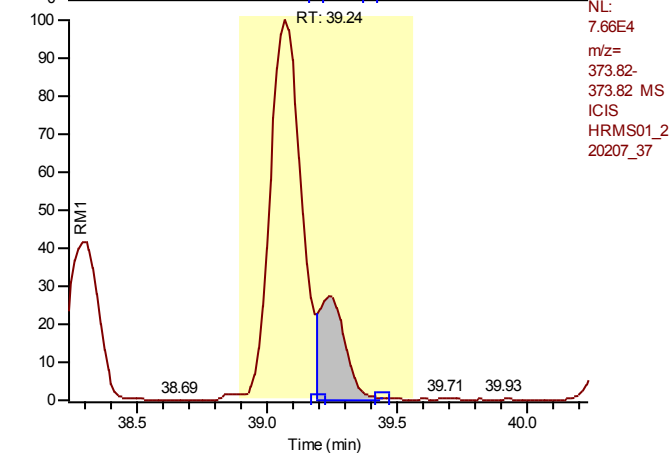
Entry Parameters

RT: 38.24 - 40.24 SM: 7G



NL:
 5.92E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	119413
RM1 Area	136440
RM1 Ratio (A)	1.1426
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	12.33
Percent Recovery (A)	---
TEQ (A)	1.2330
Label2	

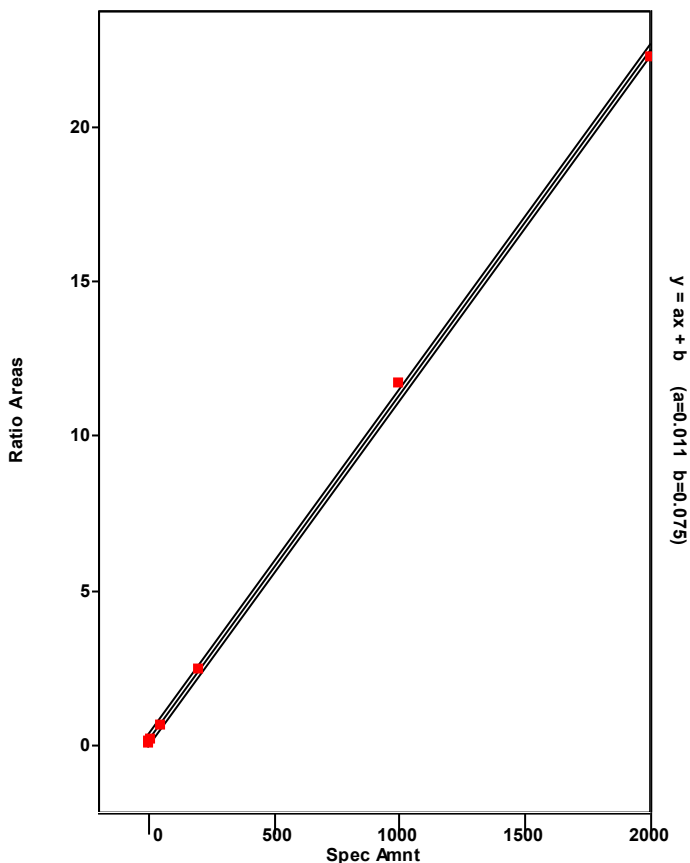


NL:
 7.66E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

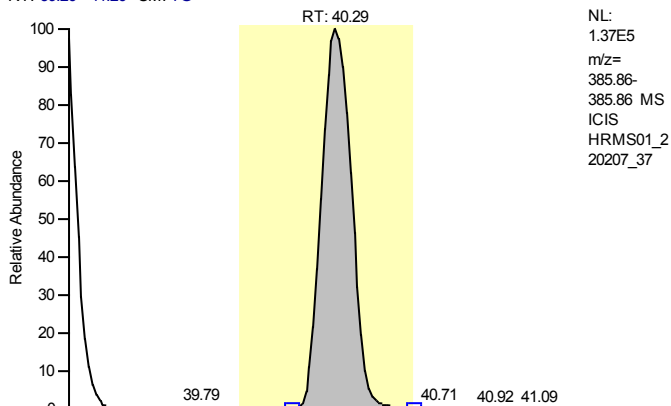
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

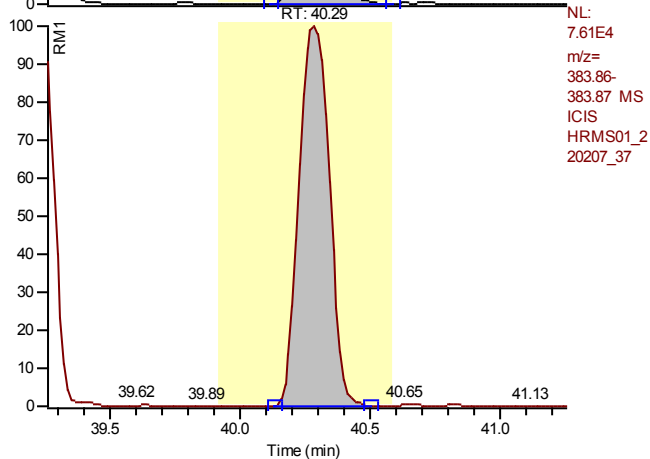
Entry Parameters

RT: 39.26 - 41.26 SM: 7G



NL:
 1.37E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1095989
RM1 Area	615584
RM1 Ratio (A)	0.5617
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	58.06
Percent Recovery (A)	58
TEQ (A)	0.0000
Label2	

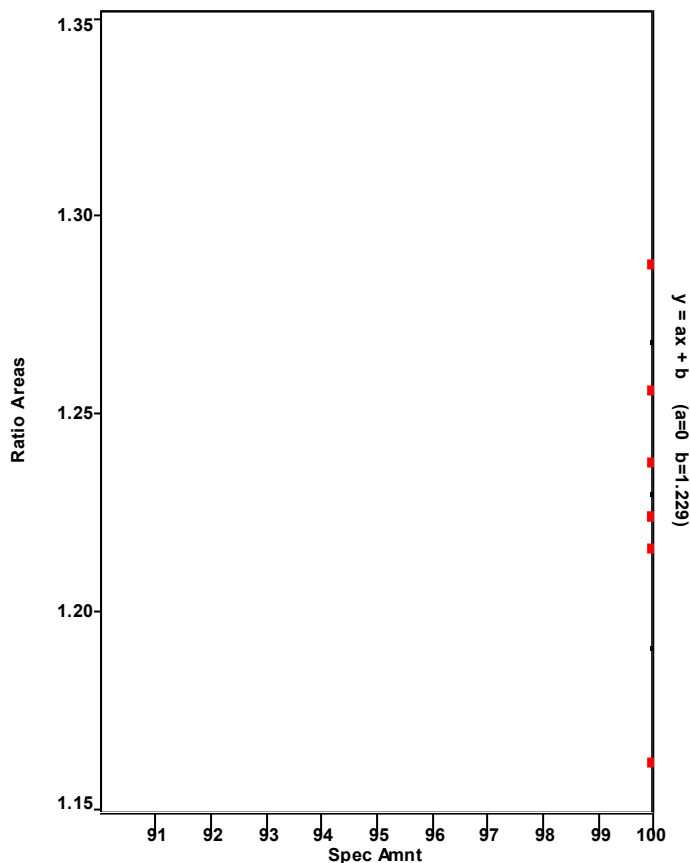


NL:
 7.61E4
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

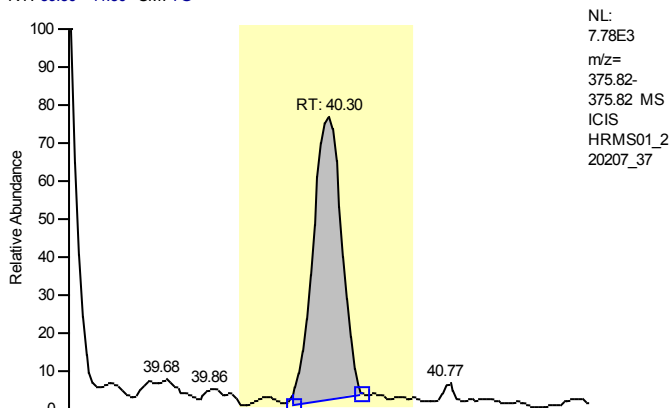
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



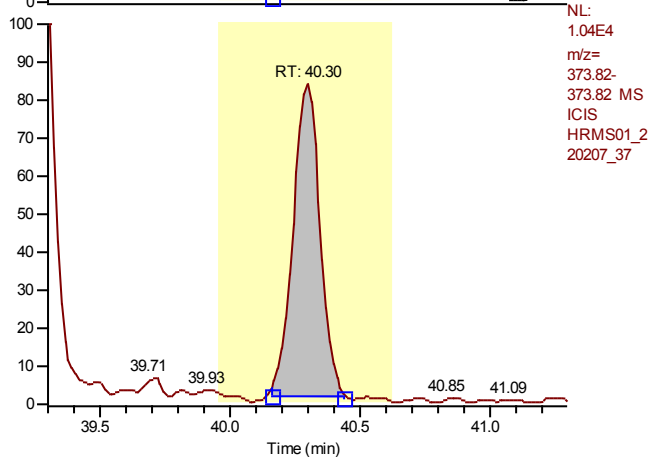
Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G



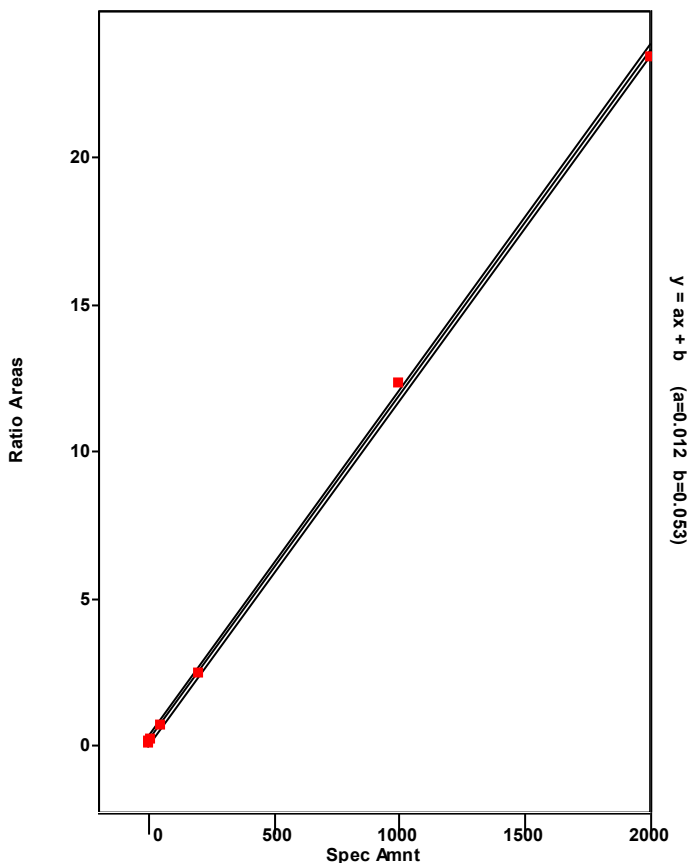
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	44317
RM1 Area	61793
RM1 Ratio (A)	1.3943
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.02
Percent Recovery (A)	---
TEQ (A)	0.5019
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

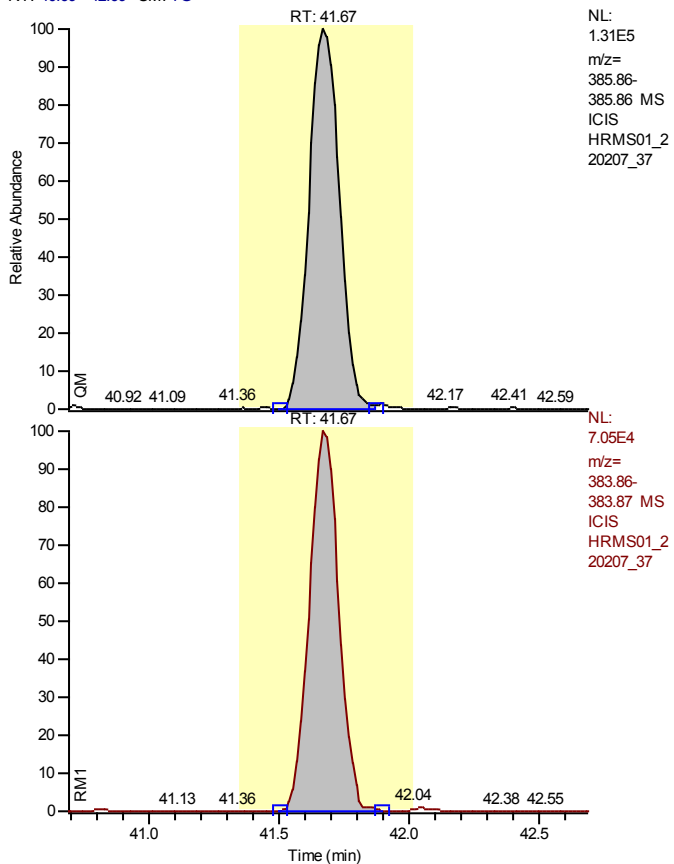
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



Chromatogram

Entry Parameters

RT: 40.69 - 42.69 SM: 7G

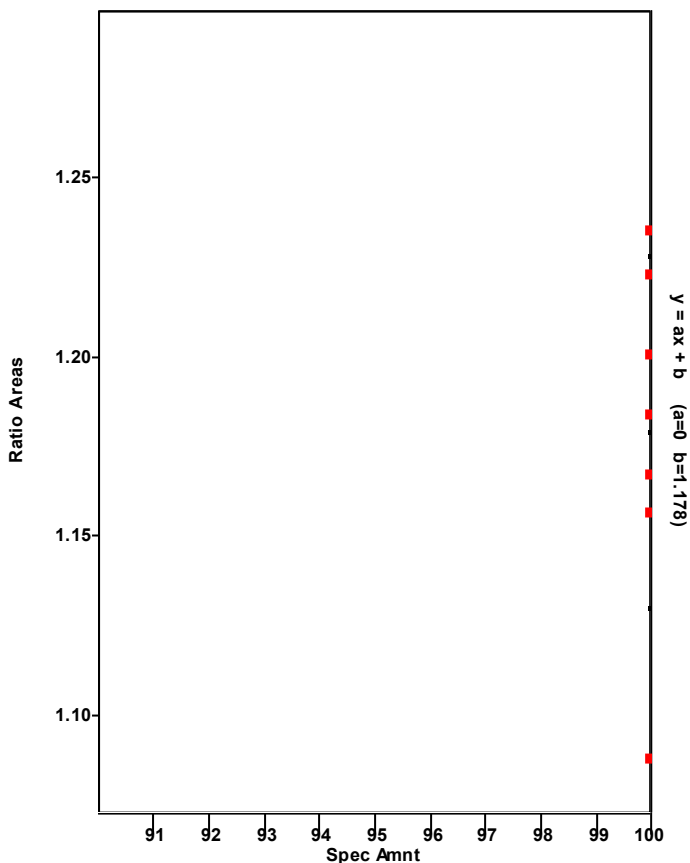


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1057971
RM1 Area	551111
RM1 Ratio (A)	0.5209
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	56.93
Percent Recovery (A)	57
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

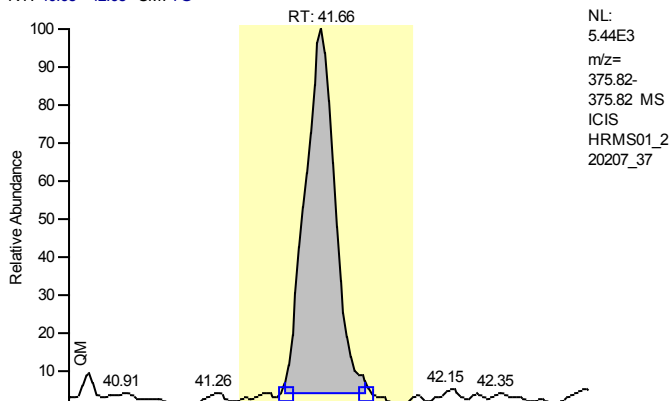
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

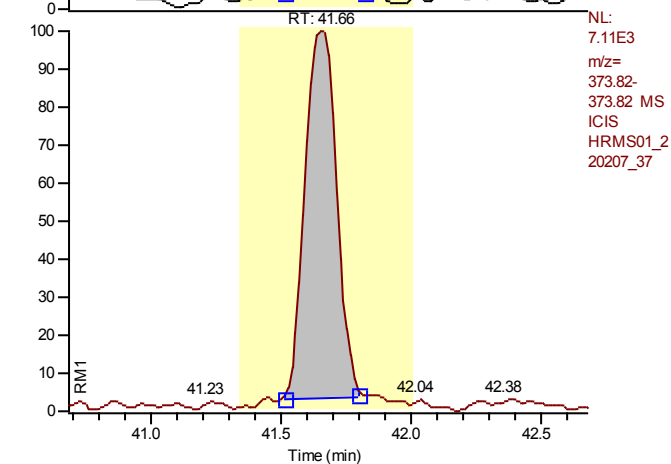
Entry Parameters

RT: 40.68 - 42.68 SM: 7G



NL:
 5.44E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	41088
RM1 Area	57259
RM1 Ratio (A)	1.3936
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.23
Percent Recovery (A)	---
TEQ (A)	0.5228
Label2	

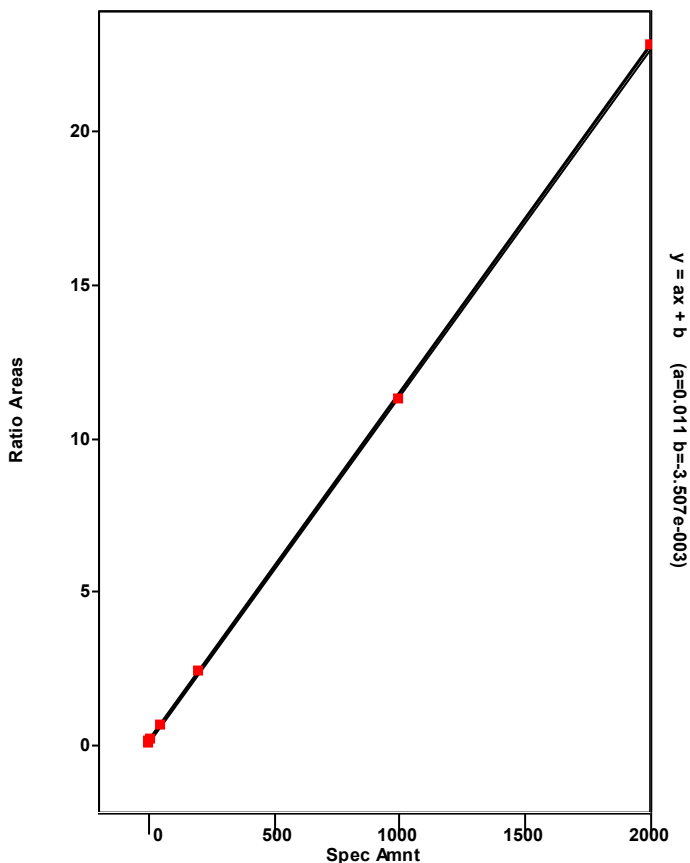


NL:
 7.11E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

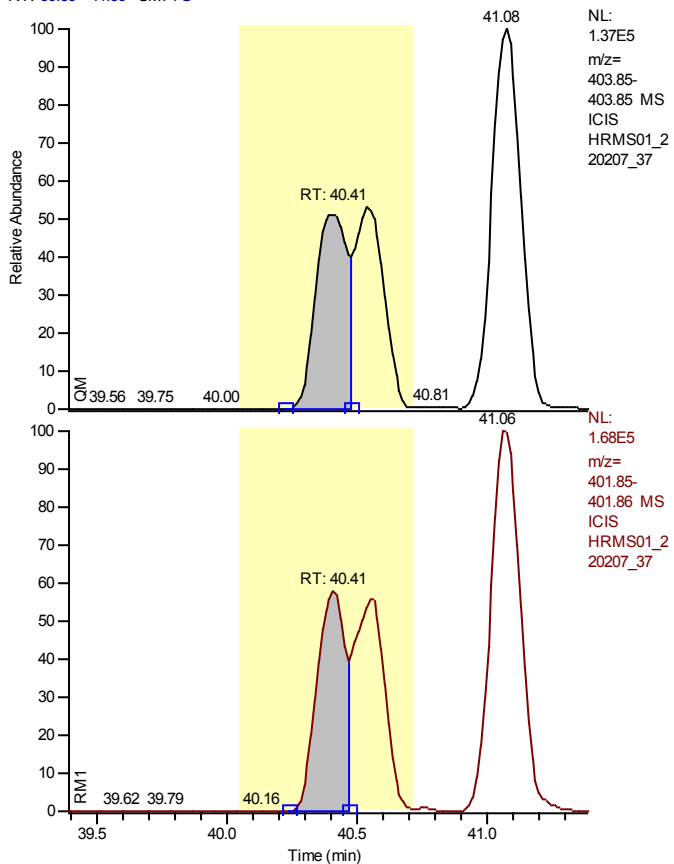
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

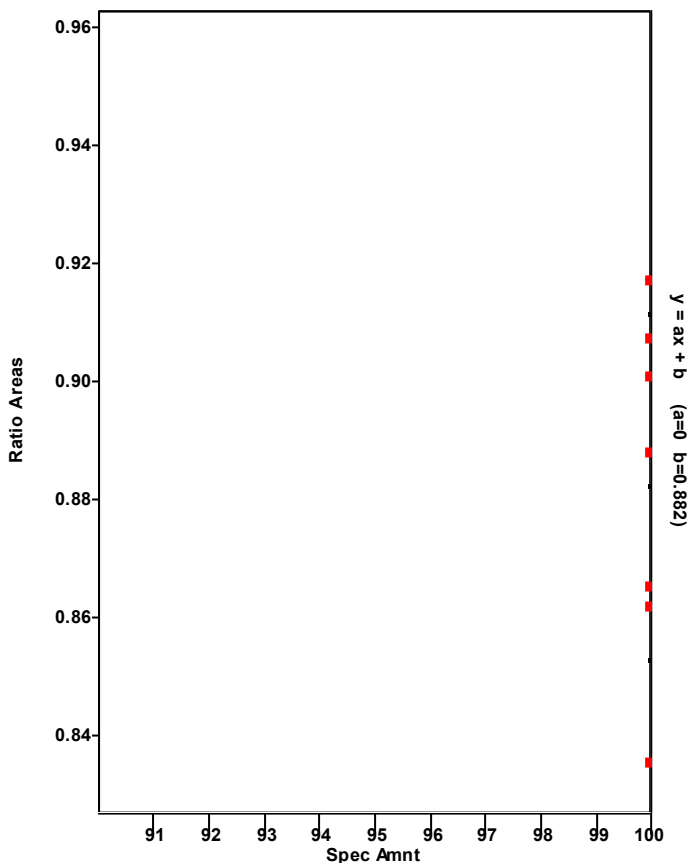
RT: 39.39 - 41.39 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	597428
RM1 Area	713650
RM1 Ratio (A)	1.1945
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	62.00
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

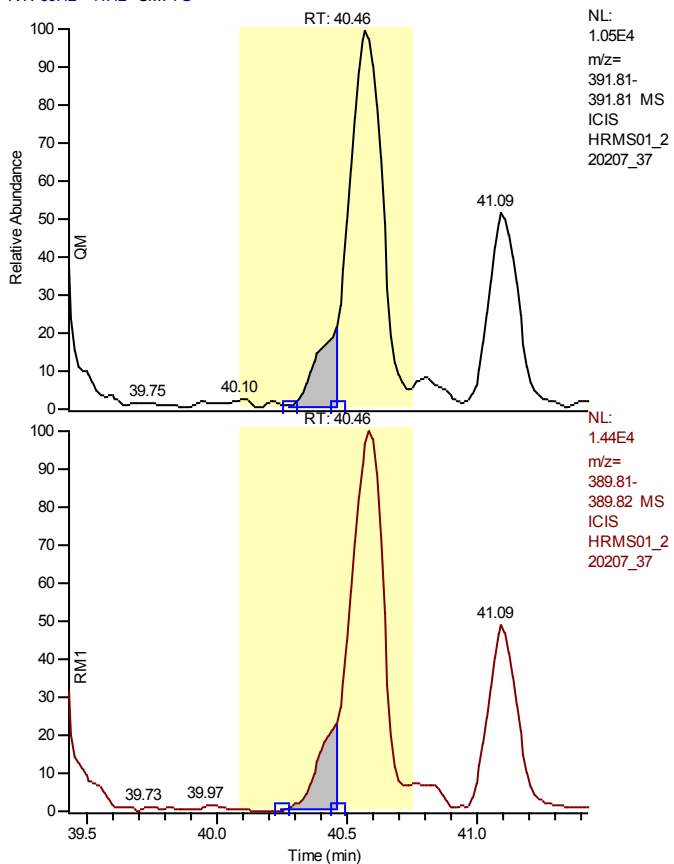
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.42 - 41.42 SM: 7G

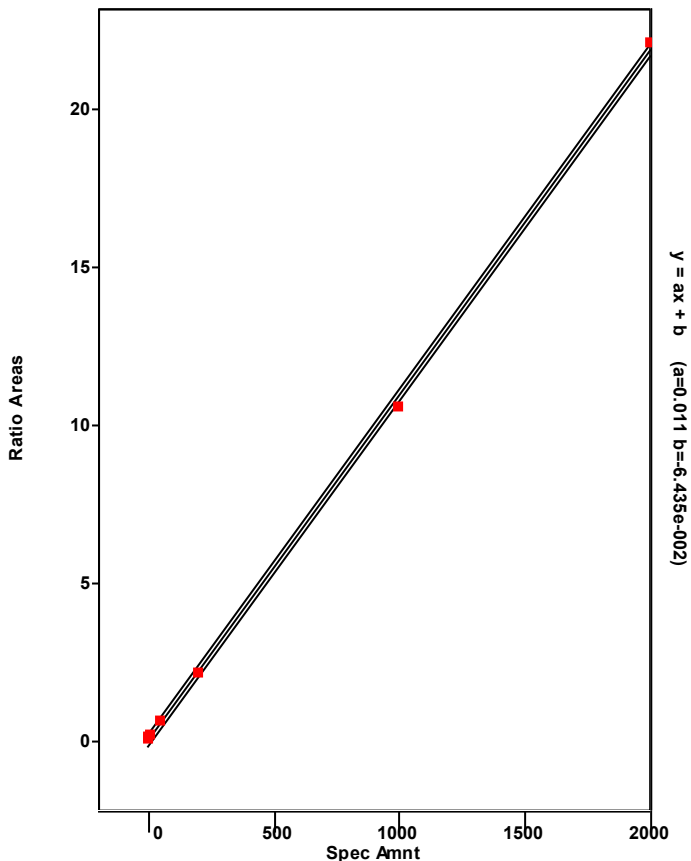


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	11533
RM1 Area	15462
RM1 Ratio (A)	1.3407
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.88
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

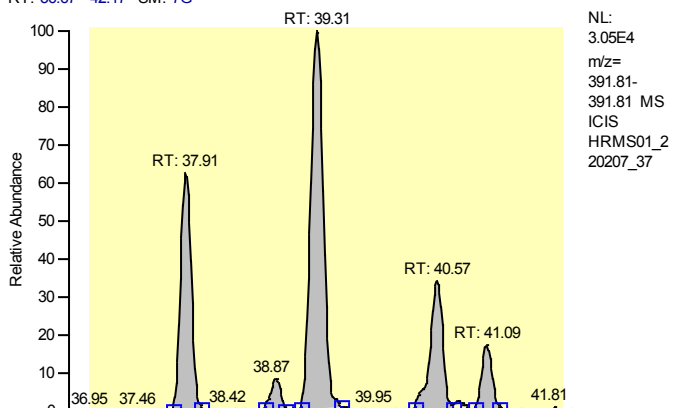
Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



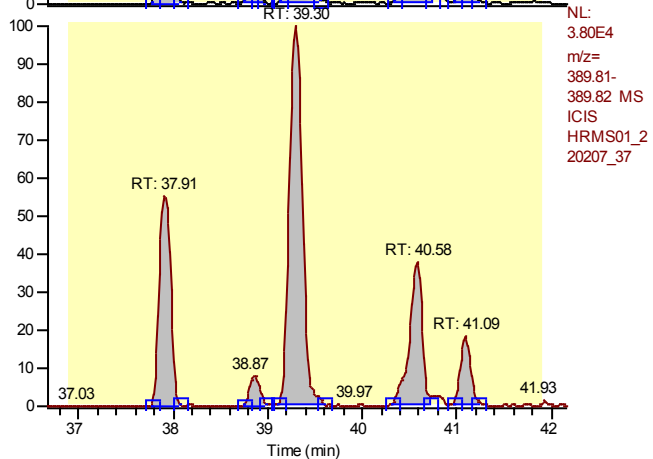
Chromatogram

Entry Parameters

RT: 36.67 - 42.17 SM: 7G



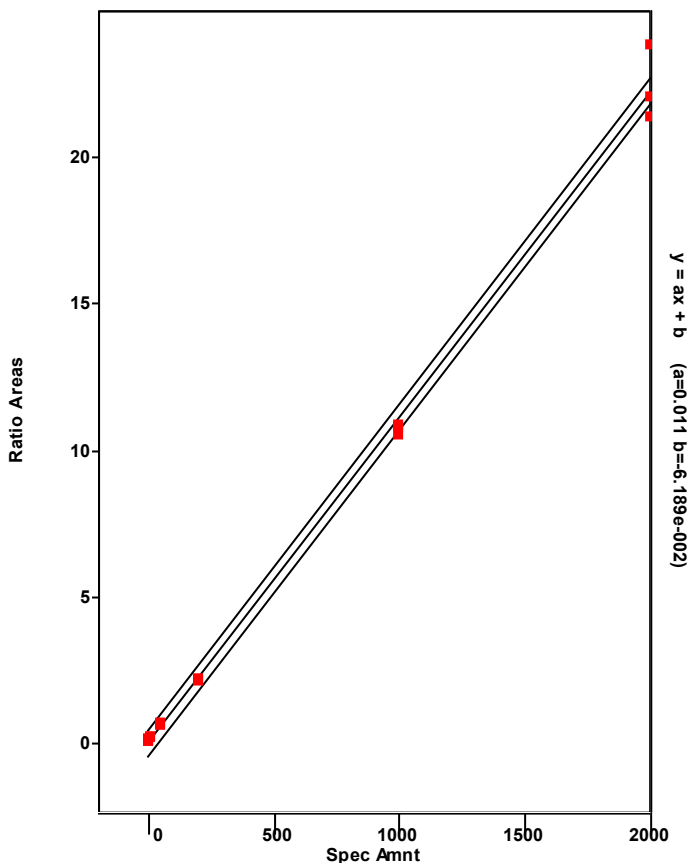
Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	581208
RM1 Area	744317
RM1 Ratio (A)	1.2806
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	90.69
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

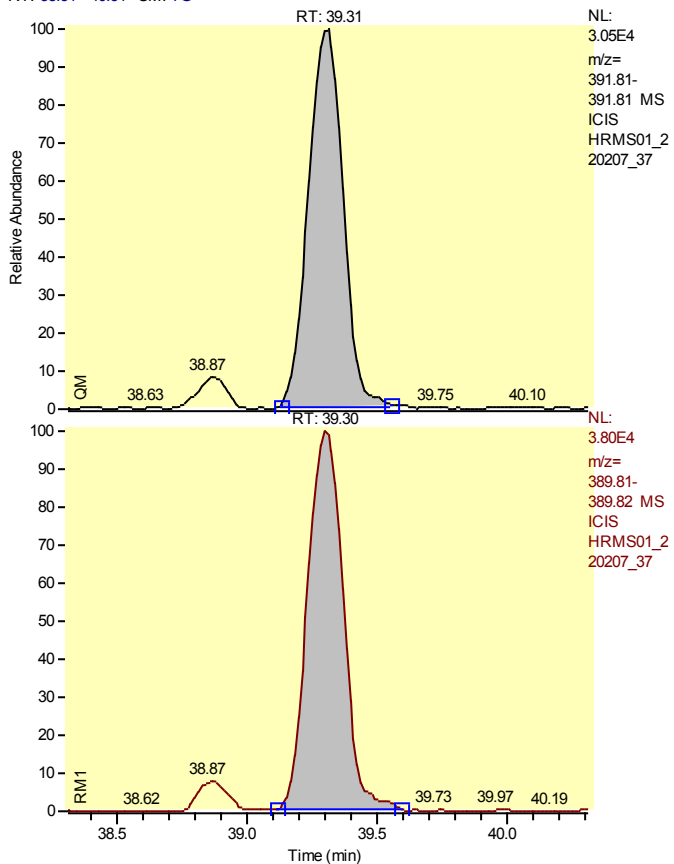
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 38.31 - 40.31 SM: 7G

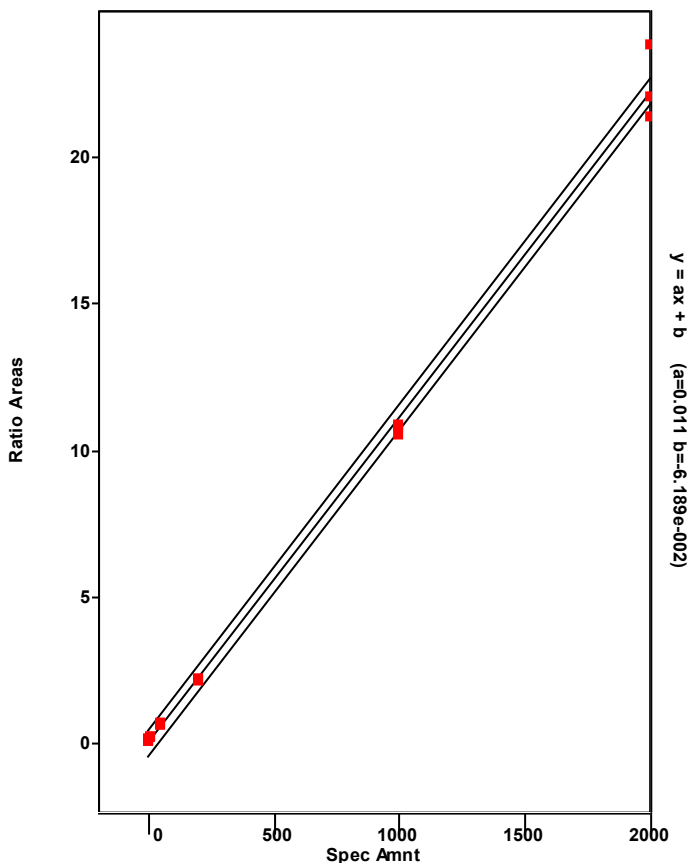


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	278683
RM1 Area	357914
RM1 Ratio (A)	1.2843
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	43.55
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

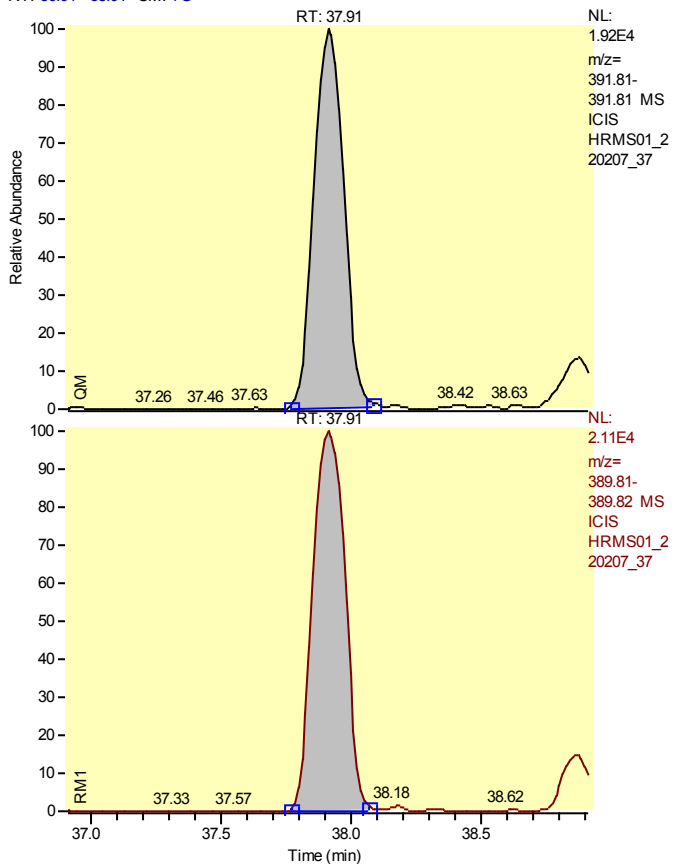
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

RT: 36.91 - 38.91 SM: 7G

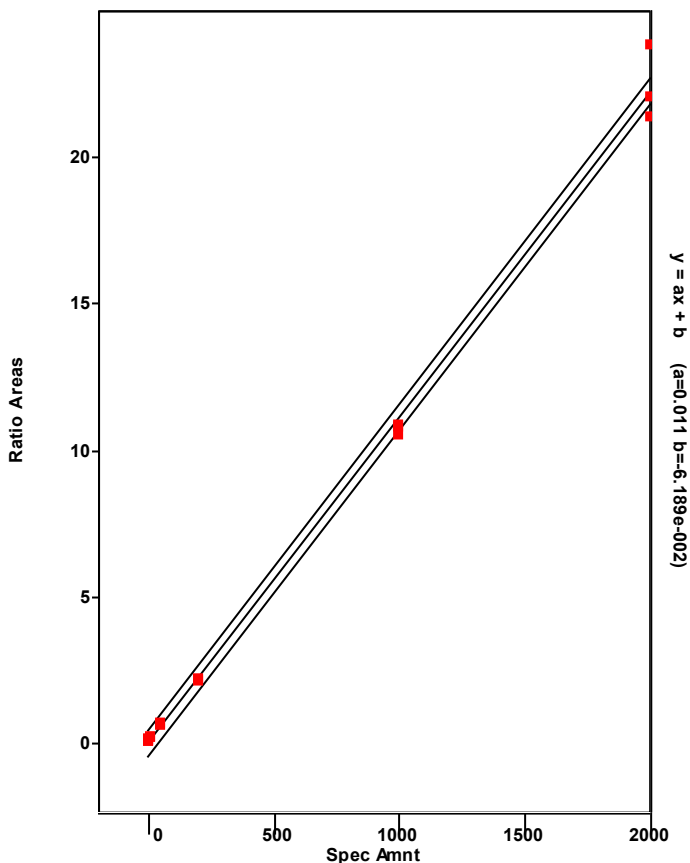


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	150413
RM1 Area	179281
RM1 Ratio (A)	1.1919
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	22.56
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

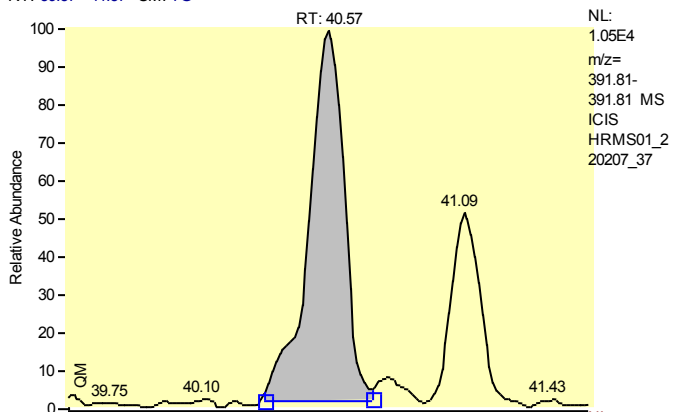
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



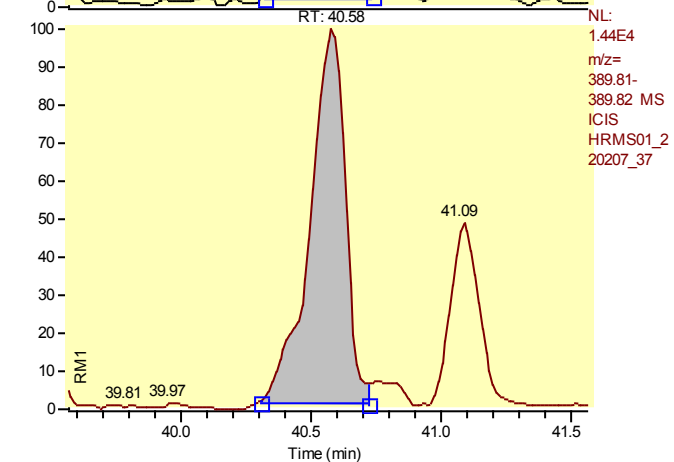
Chromatogram

Entry Parameters

RT: 39.57 - 41.57 SM: 7G



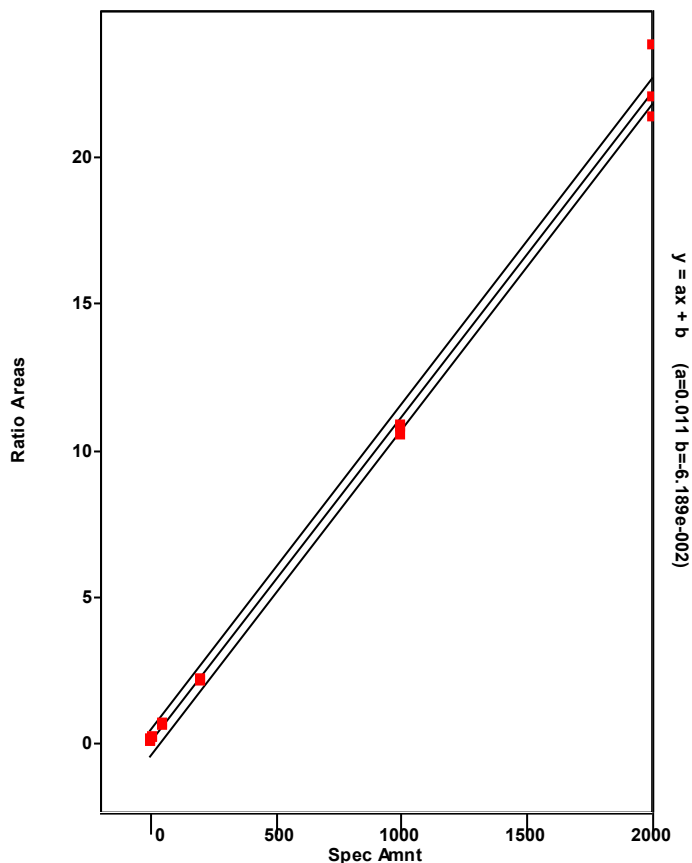
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	95780
RM1 Area	134490
RM1 Ratio (A)	1.4042
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	15.75
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

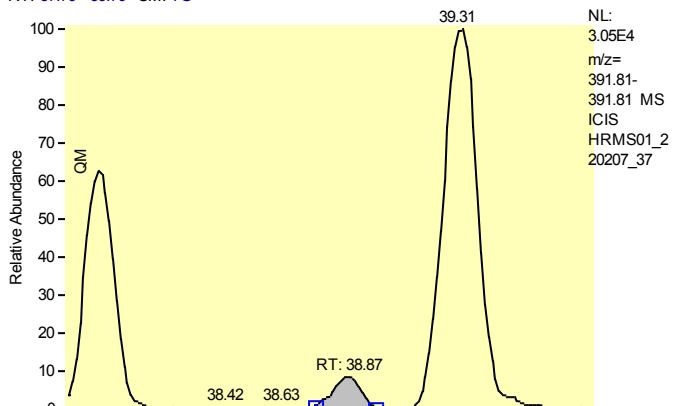
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

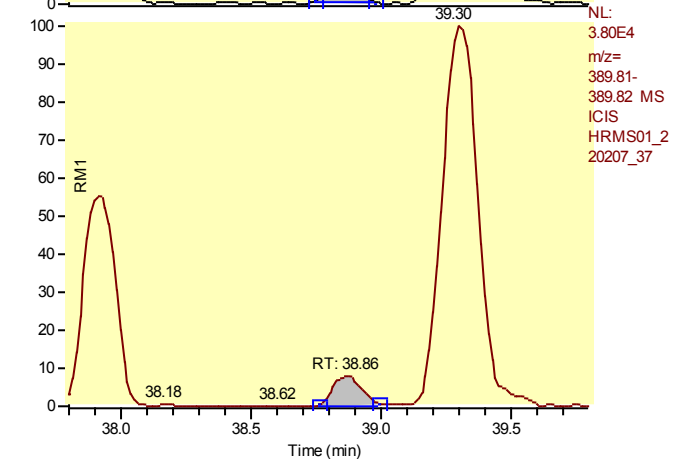
Entry Parameters

RT: 37.79 - 39.79 SM: 7G



NL:
3.05E4
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20207_37

Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	18354
RM1 Area	22455
RM1 Ratio (A)	1.2234
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.79
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

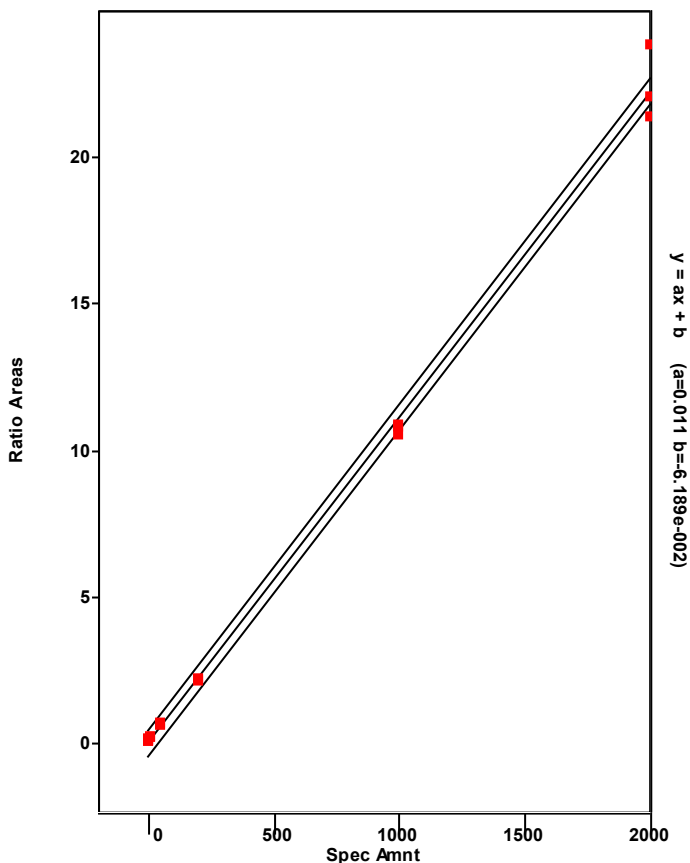


NL:
3.80E4
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20207_37

Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

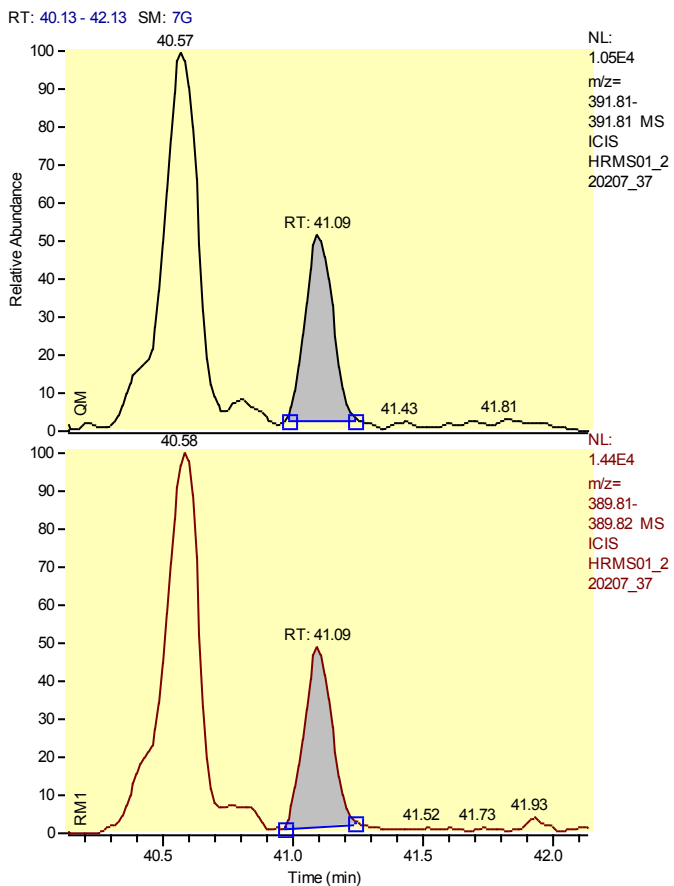
Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

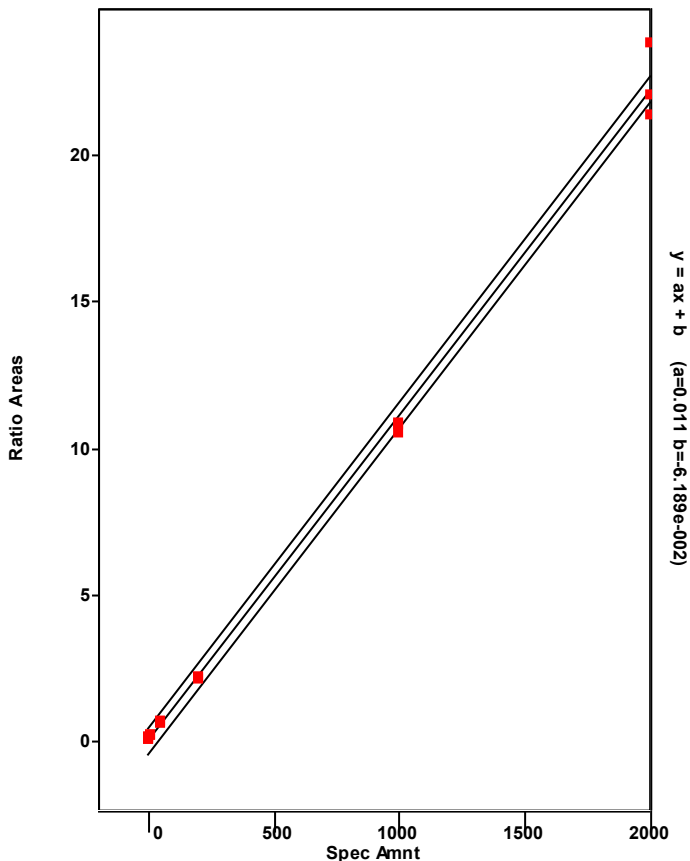


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__5
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	37978
RM1 Area	50178
RM1 Ratio (A)	1.3212
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.03
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__5

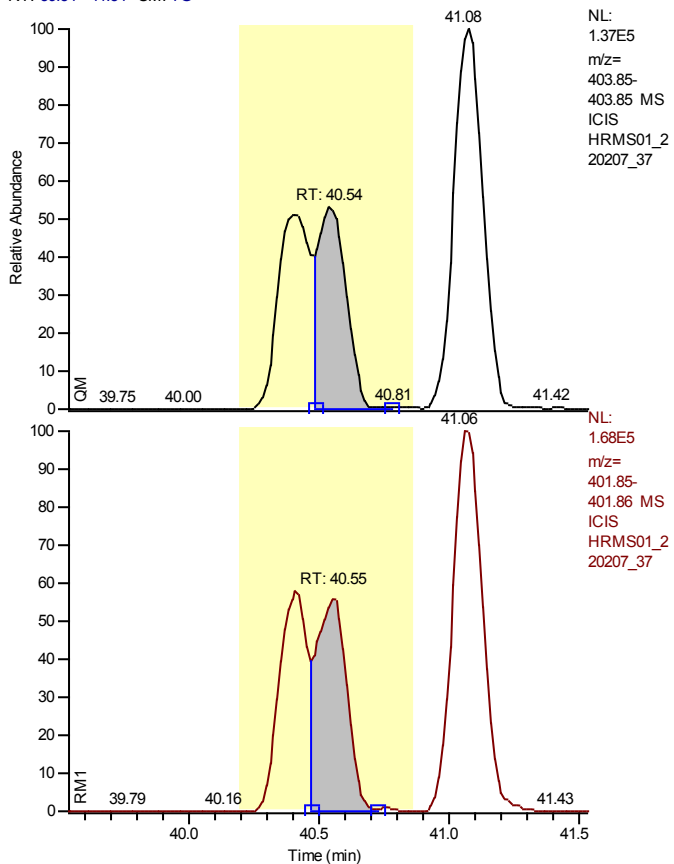
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

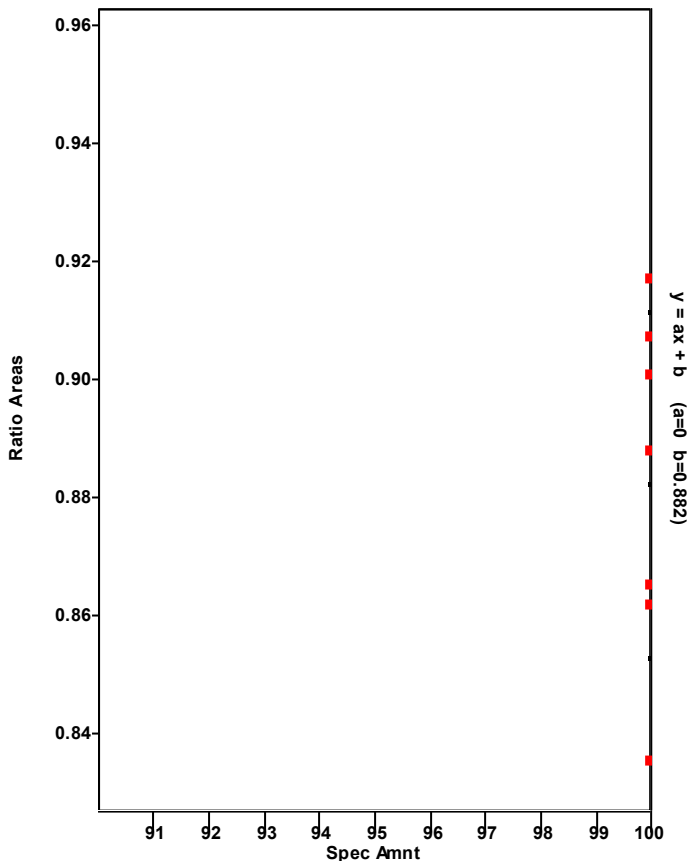
RT: 39.54 - 41.54 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	557764
RM1 Area	786505
RM1 Ratio (A)	1.4101
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	63.57
Percent Recovery (A)	64
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

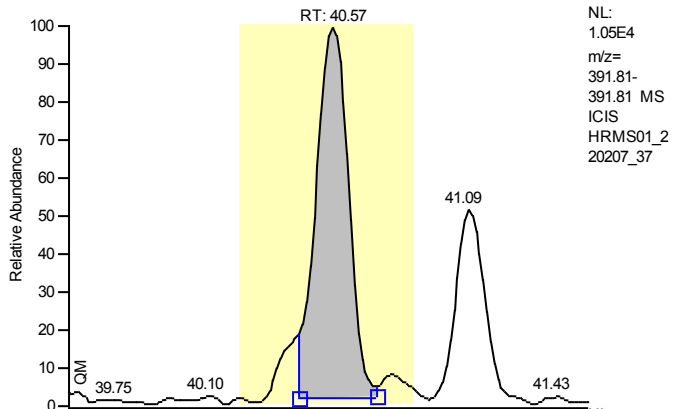
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

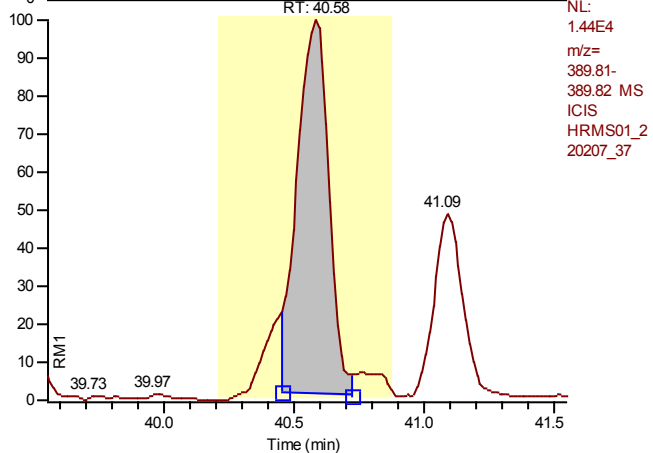
Entry Parameters

RT: 39.55 - 41.55 SM: 7G



NL:
 1.05E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_37

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	88172
RM1 Area	120106
RM1 Ratio (A)	1.3622
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	14.14
Percent Recovery (A)	---
TEQ (A)	1.4140
Label2	

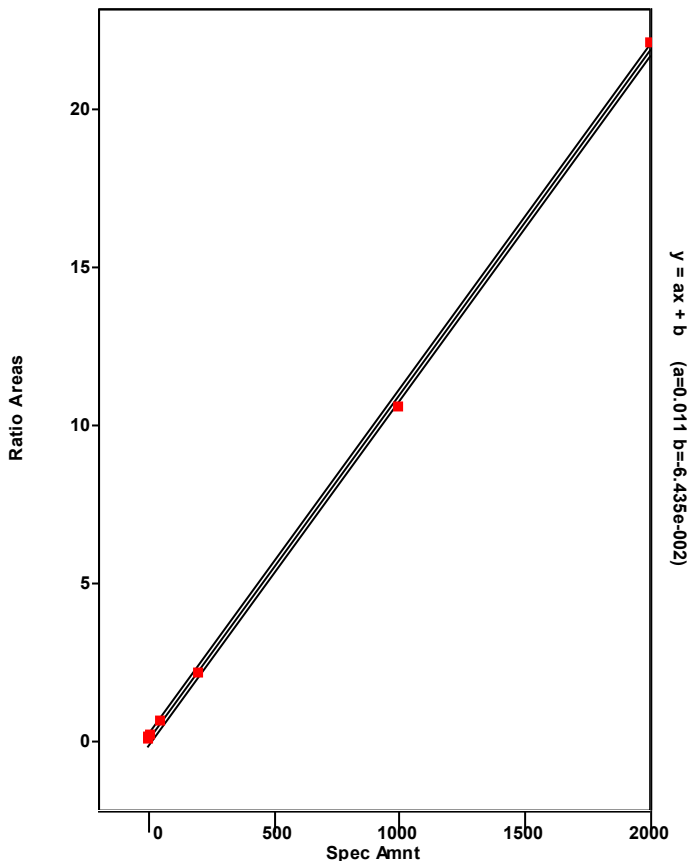


NL:
 1.44E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_37

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

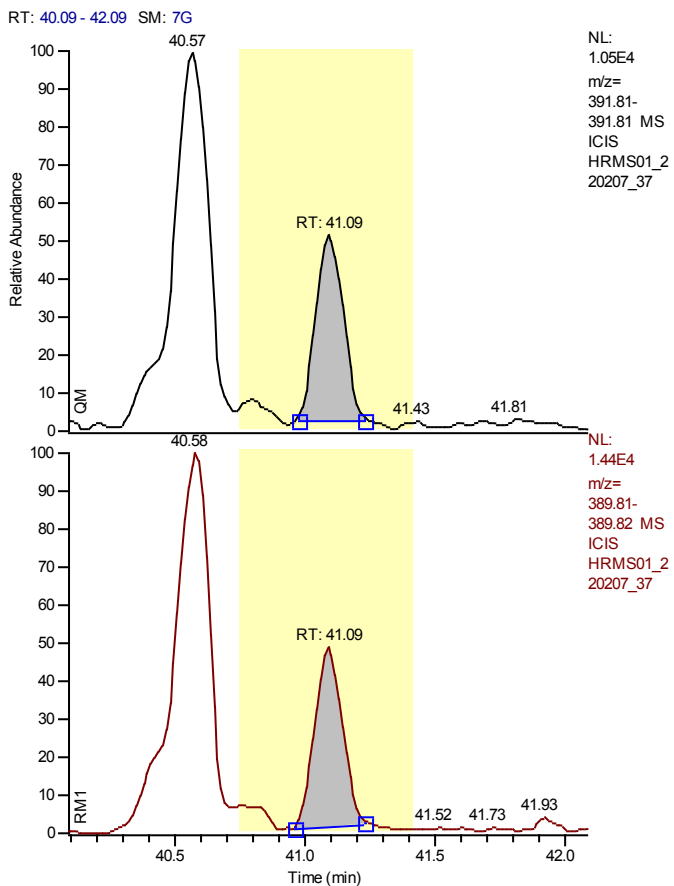
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

Entry Parameters

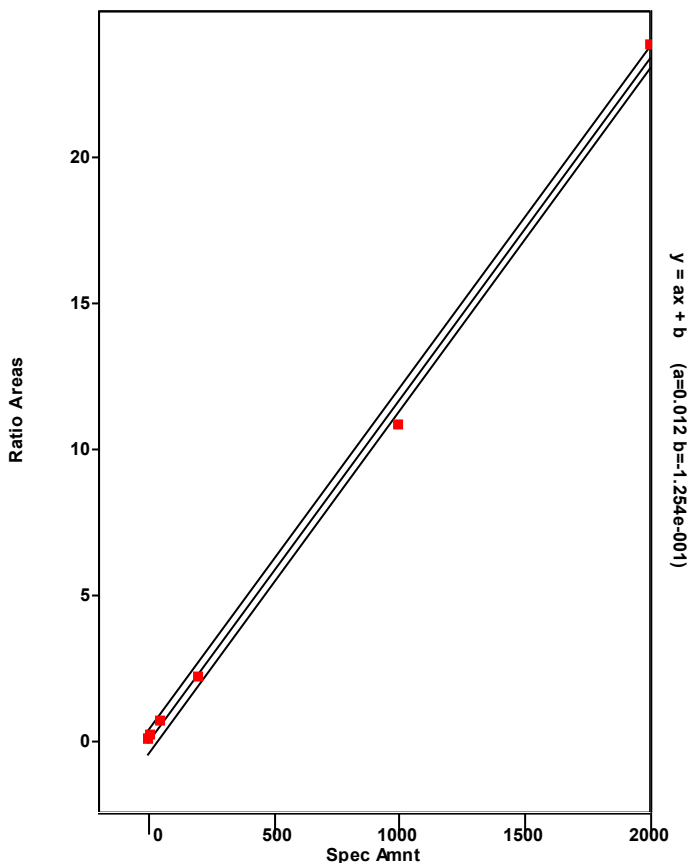


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	37978
RM1 Area	50178
RM1 Ratio (A)	1.3212
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.68
Percent Recovery (A)	---
TEQ (A)	0.5676
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

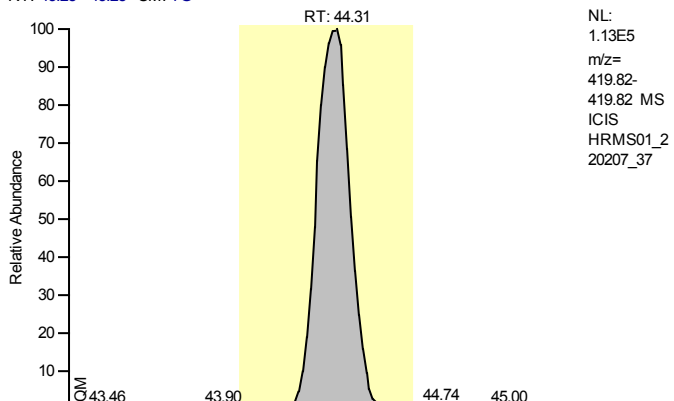
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



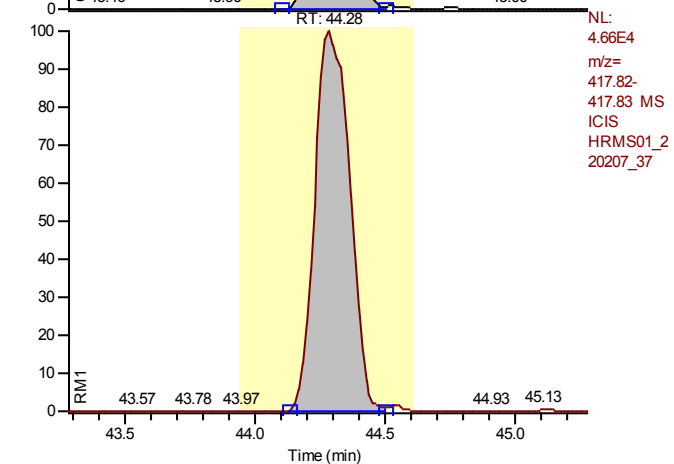
Chromatogram

Entry Parameters

RT: 43.28 - 45.28 SM: 7G

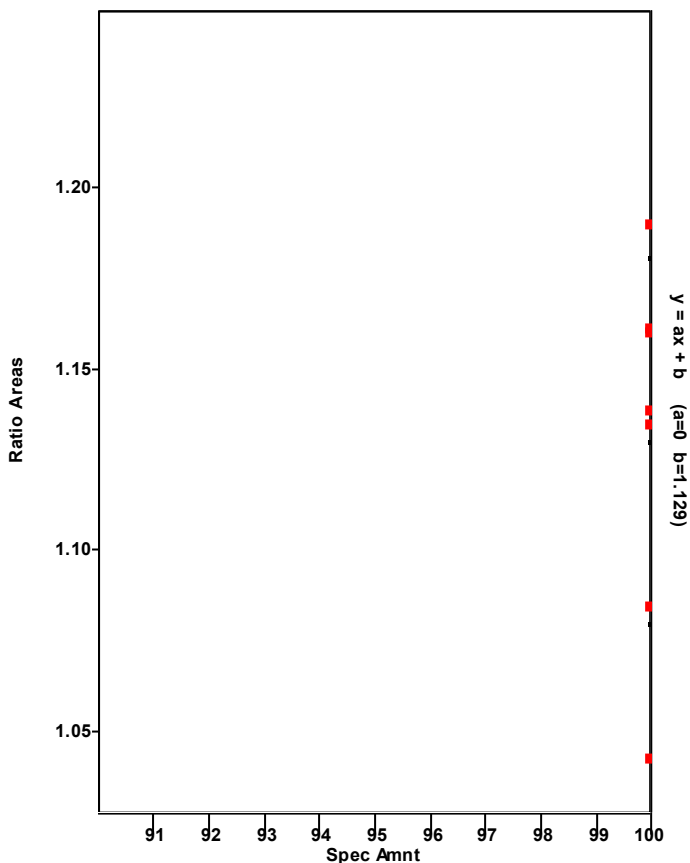


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1016304
RM1 Area	436864
RM1 Ratio (A)	0.4299
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	53.65
Percent Recovery (A)	54
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

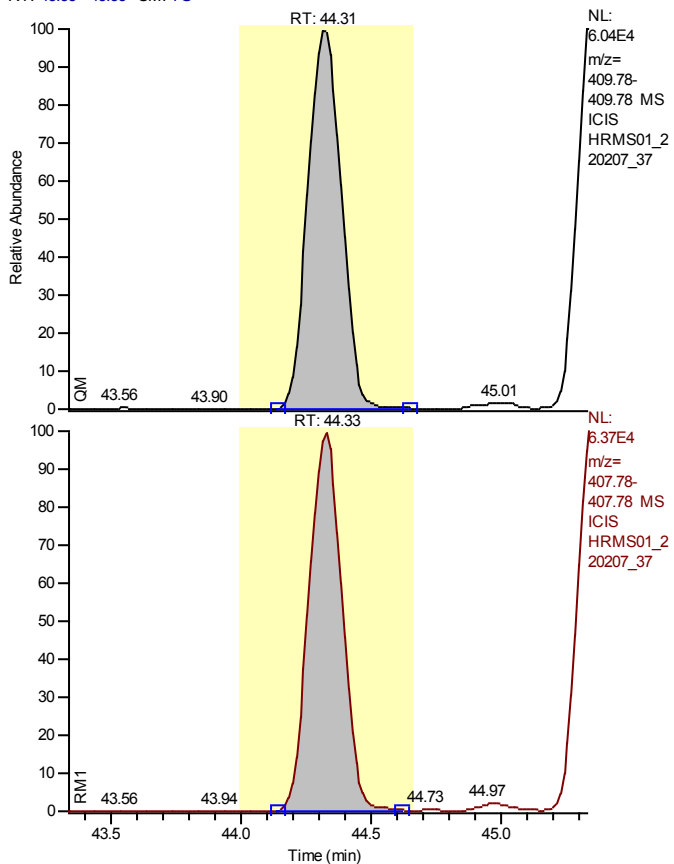
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.33 - 45.33 SM: 7G

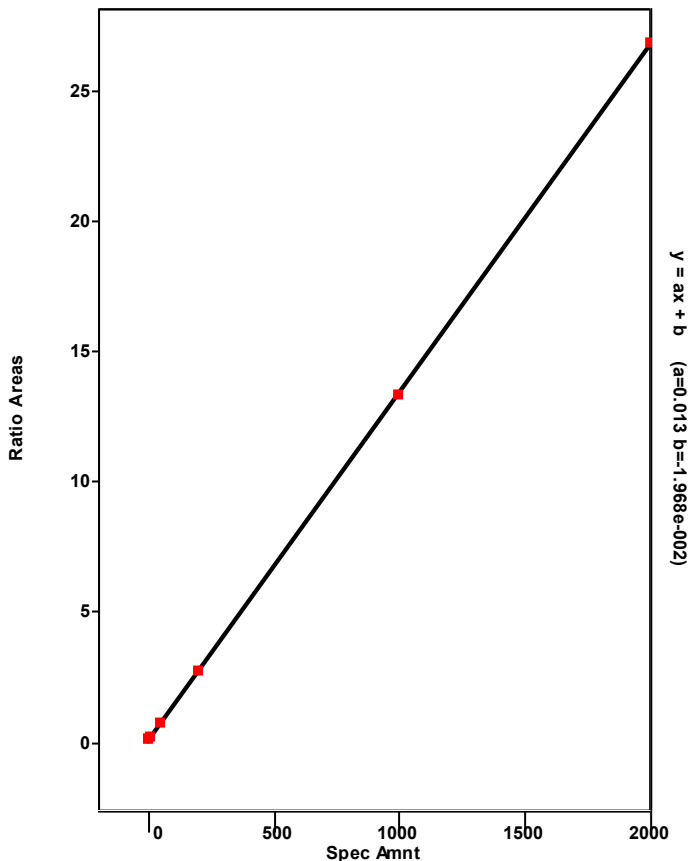


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	538039
RM1 Area	556641
RM1 Ratio (A)	1.0346
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	55.83
Percent Recovery (A)	---
TEQ (A)	0.5583
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

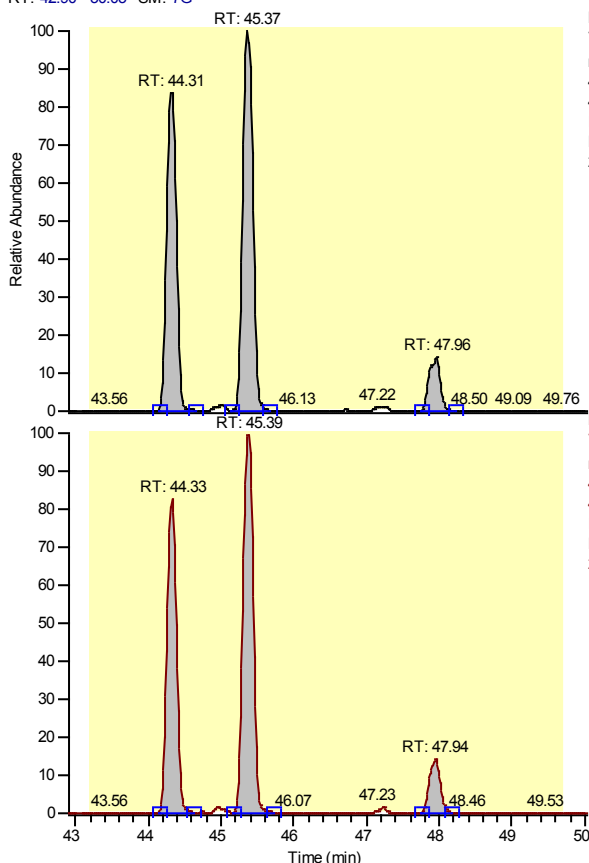
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



Chromatogram

Entry Parameters

RT: 42.90 - 50.05 SM: 7G



NL:
7.16E4
m/z=
409.78-
409.78 MS
ICIS
HRMS01_2
20207_37

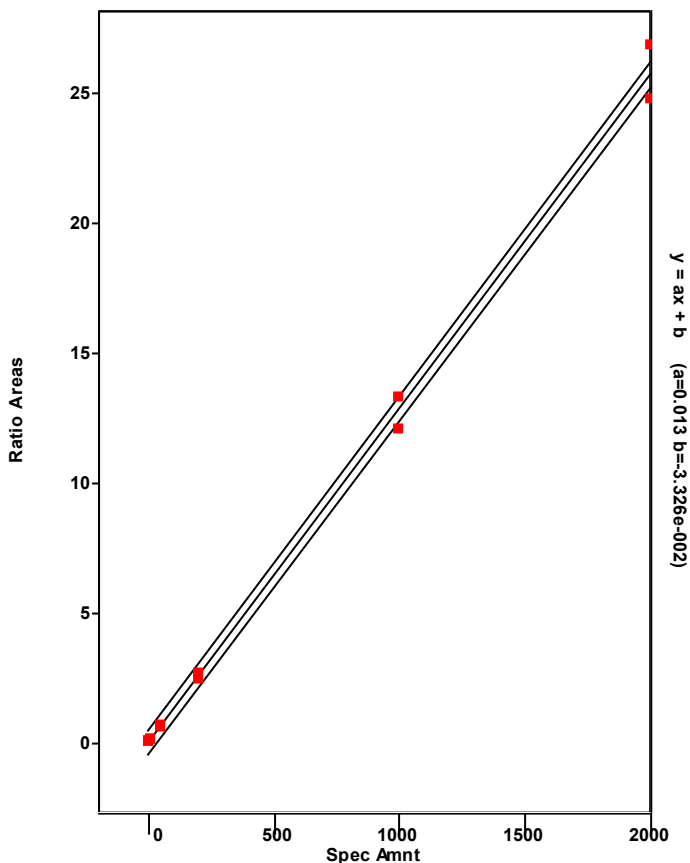
NL:
7.70E4
m/z=
407.78-
407.78 MS
ICIS
HRMS01_2
20207_37

Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1313818
RM1 Area	1389456
RM1 Ratio (A)	1.0576
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	144.80
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

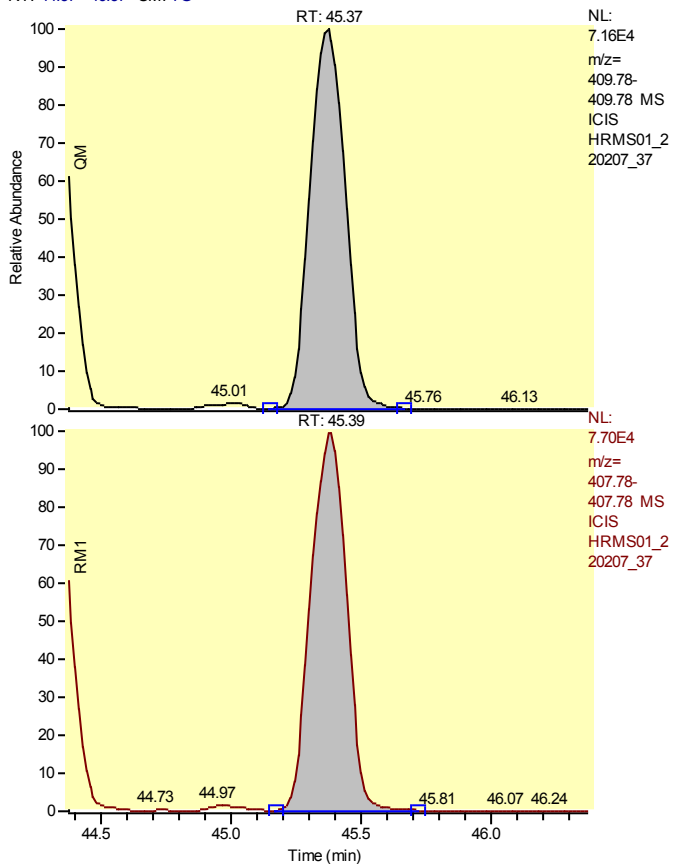
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 44.37 - 46.37 SM: 7G

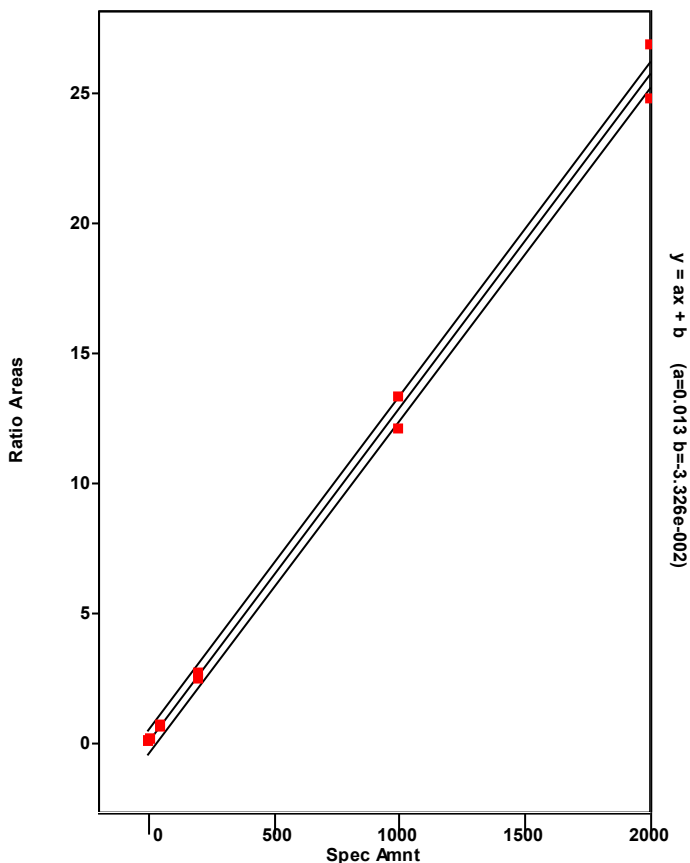


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	669292
RM1 Area	721961
RM1 Ratio (A)	1.0787
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	74.52
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

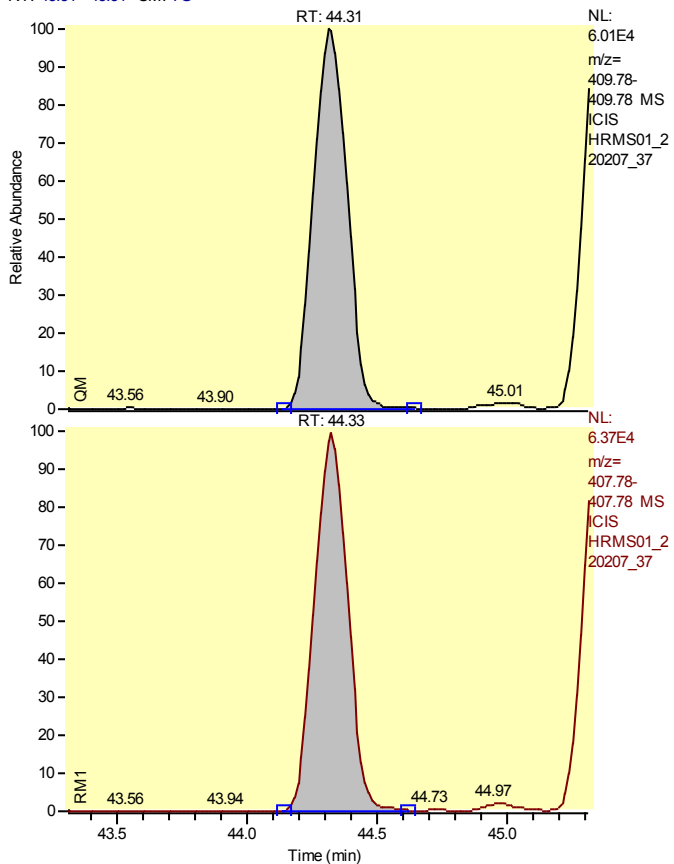
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 43.31 - 45.31 SM: 7G

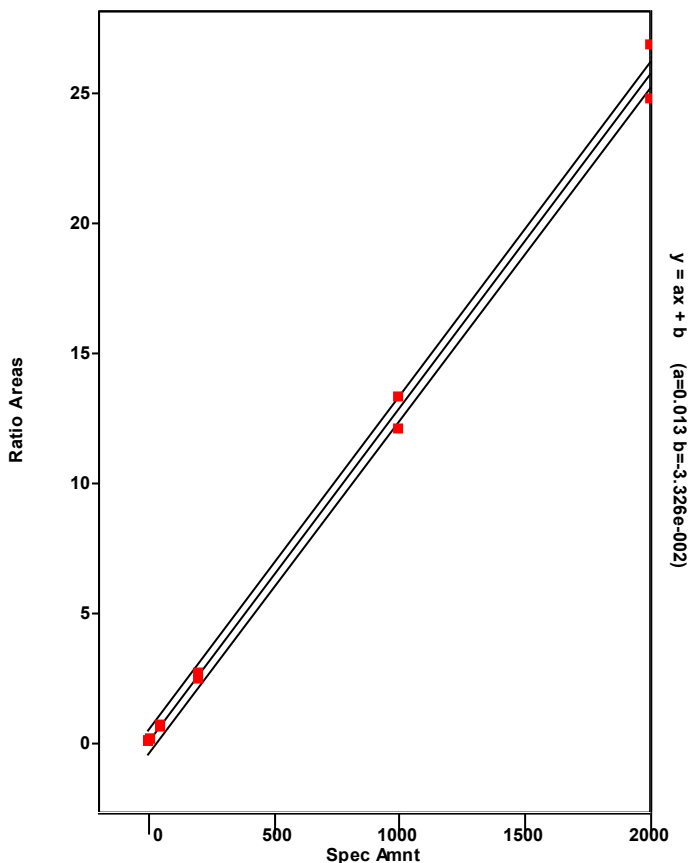


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	538039
RM1 Area	556641
RM1 Ratio (A)	1.0346
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	58.64
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

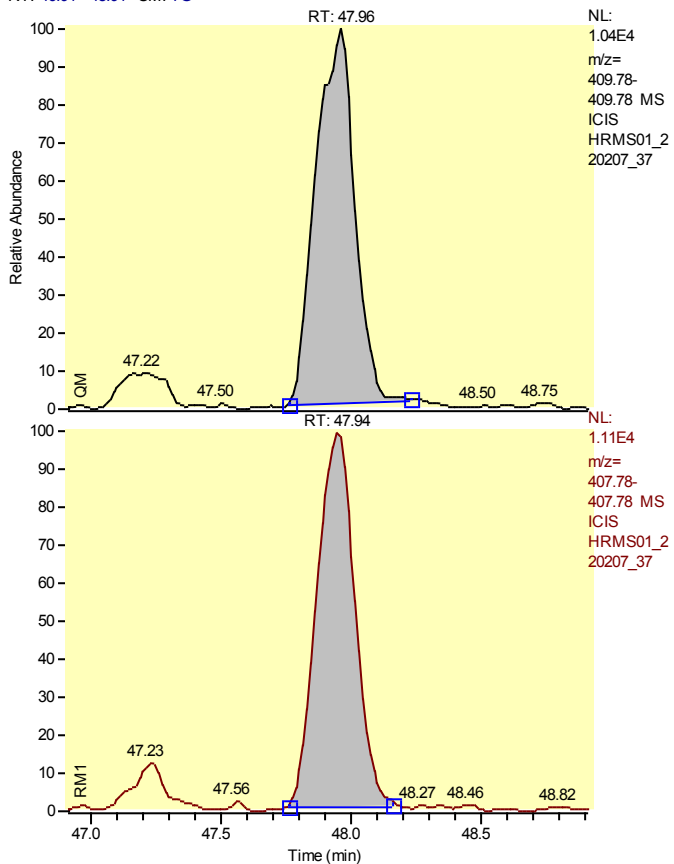
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

RT: 46.91 - 48.91 SM: 7G

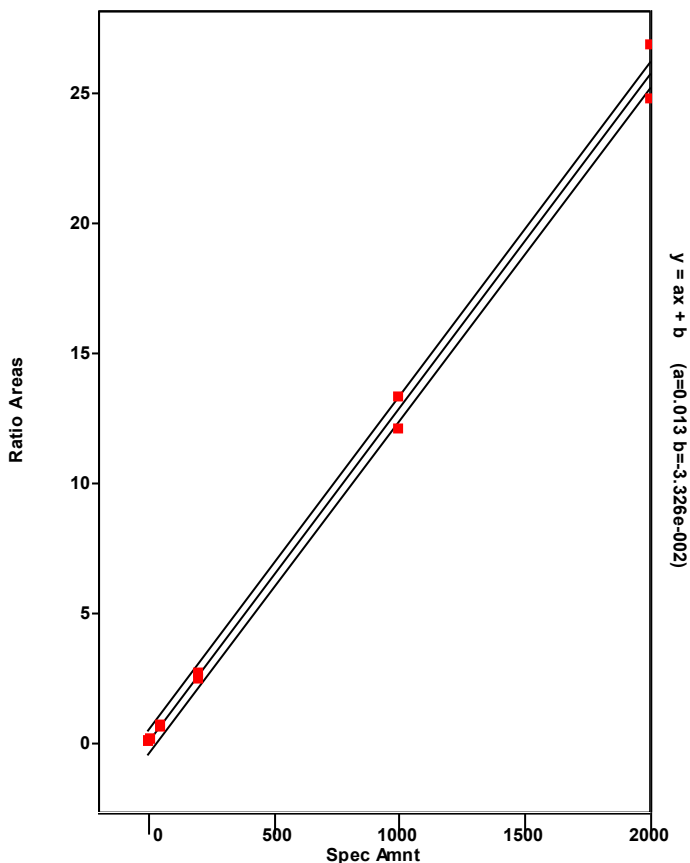


Entry Identifier	Total Heptachlorodibenzofuran__3
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	106487
RM1 Area	110854
RM1 Ratio (A)	1.0410
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	11.64
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__3 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__3

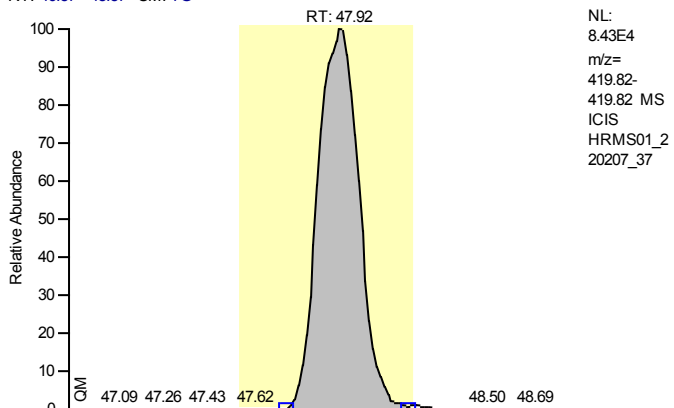
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



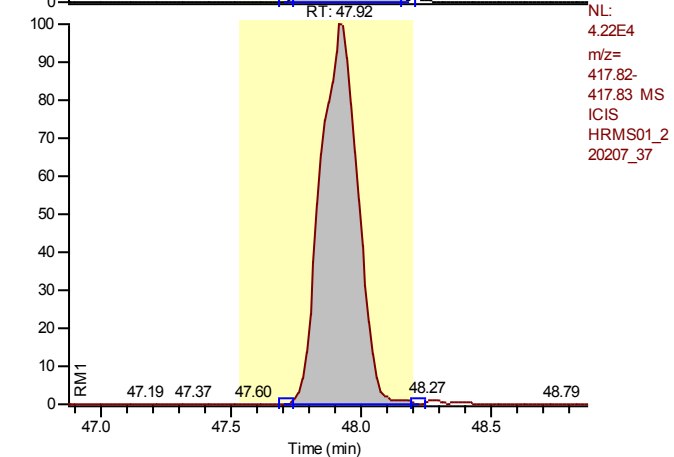
Chromatogram

Entry Parameters

RT: 46.87 - 48.87 SM: 7G

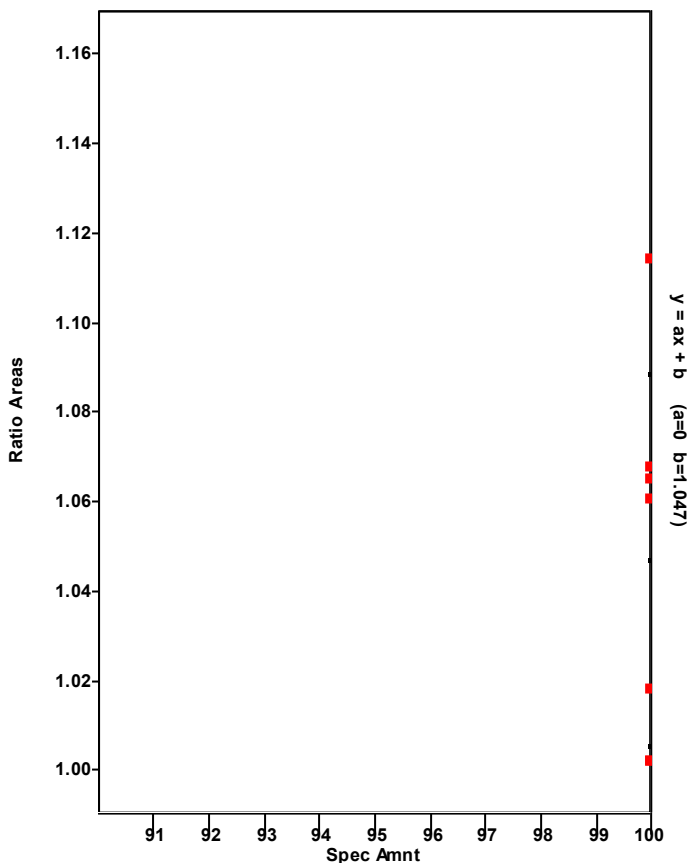


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	926694
RM1 Area	418363
RM1 Ratio (A)	0.4515
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	53.58
Percent Recovery (A)	54
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

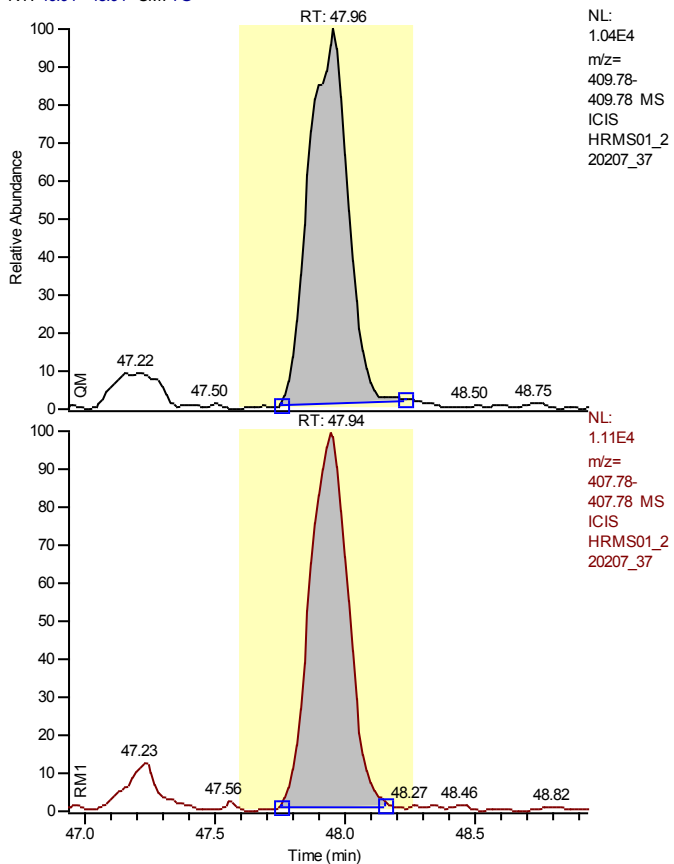
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.94 - 48.94 SM: 7G

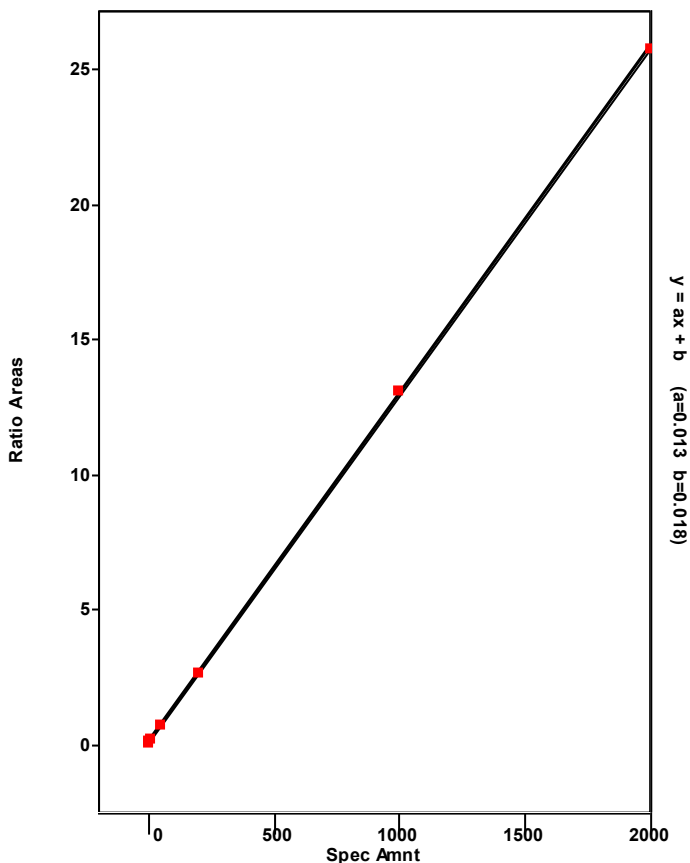


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	106487
RM1 Area	110854
RM1 Ratio (A)	1.0410
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	12.28
Percent Recovery (A)	---
TEQ (A)	0.1228
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

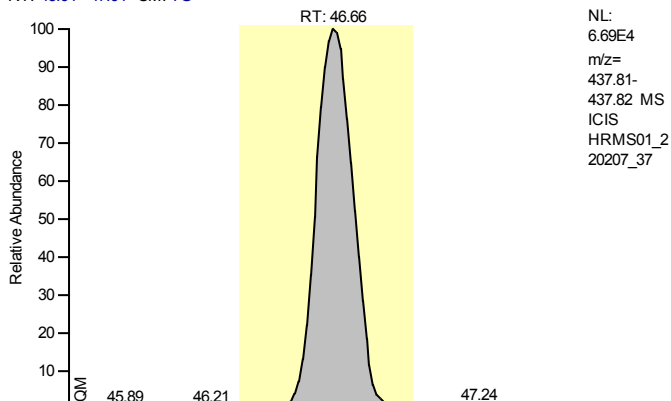
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



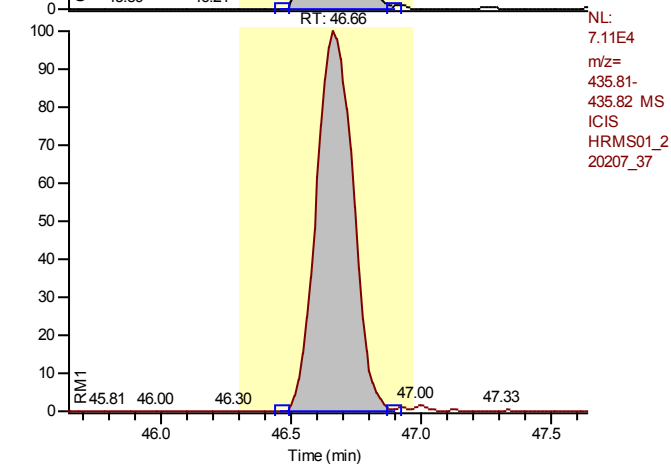
Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

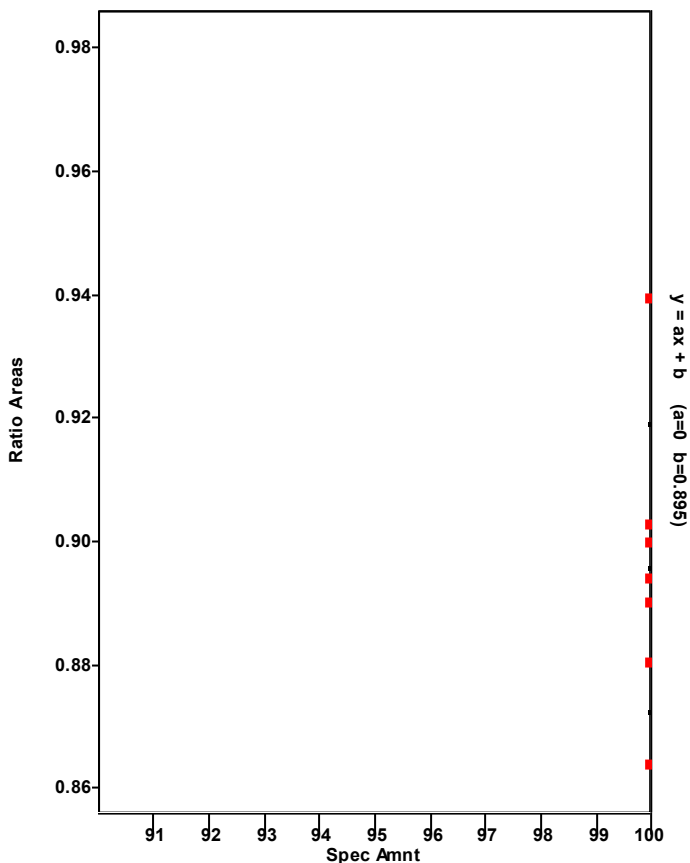


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	665137
RM1 Area	701048
RM1 Ratio (A)	1.0540
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	63.62
Percent Recovery (A)	64
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

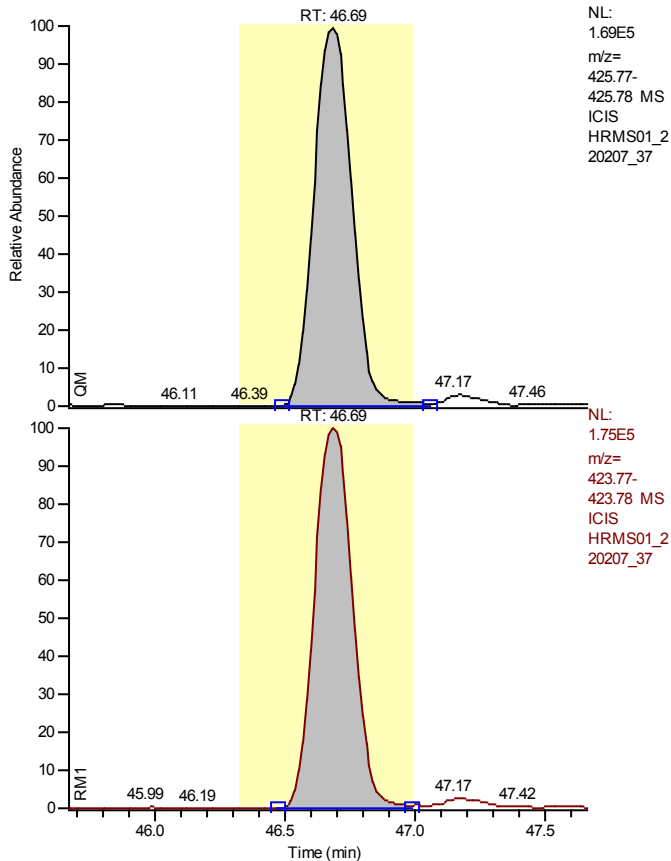
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

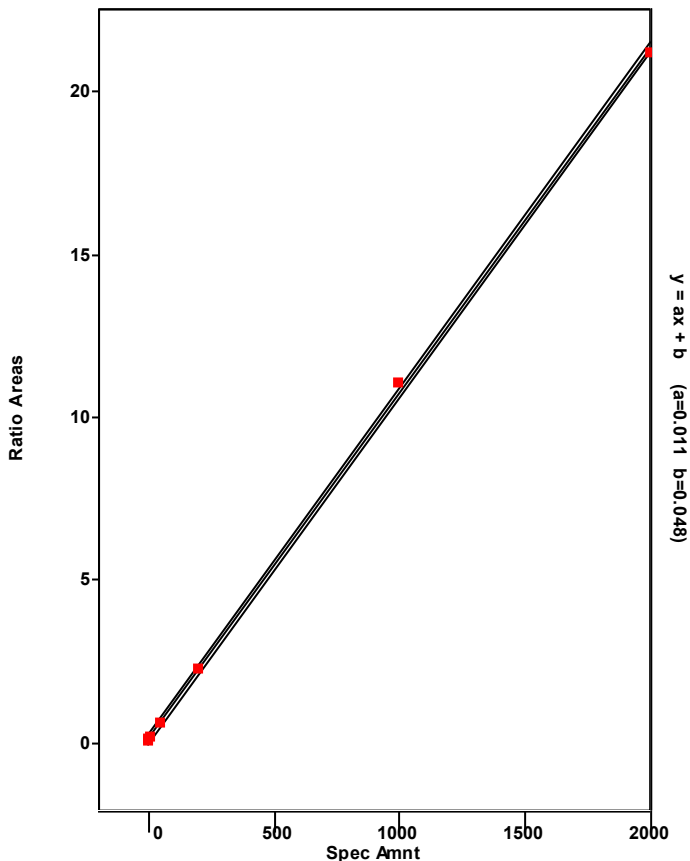


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1700527
RM1 Area	1775965
RM1 Ratio (A)	1.0444
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	229.60
Percent Recovery (A)	---
TEQ (A)	2.2960
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

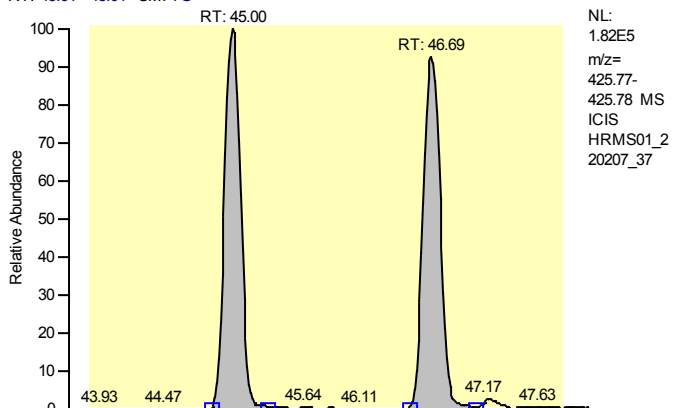
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



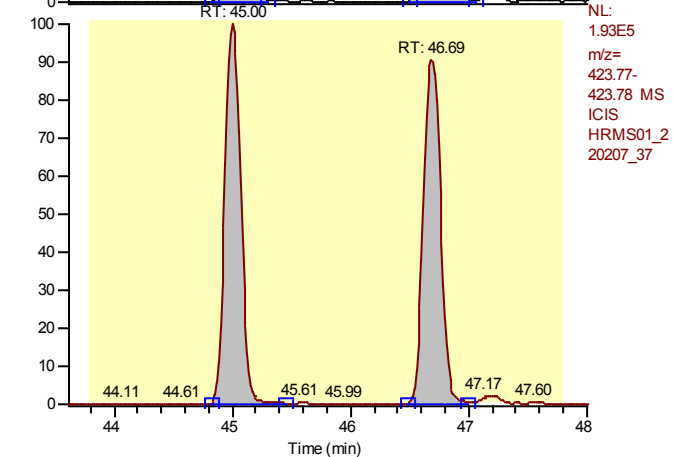
Chromatogram

Entry Parameters

RT: 43.61 - 48.01 SM: 7G



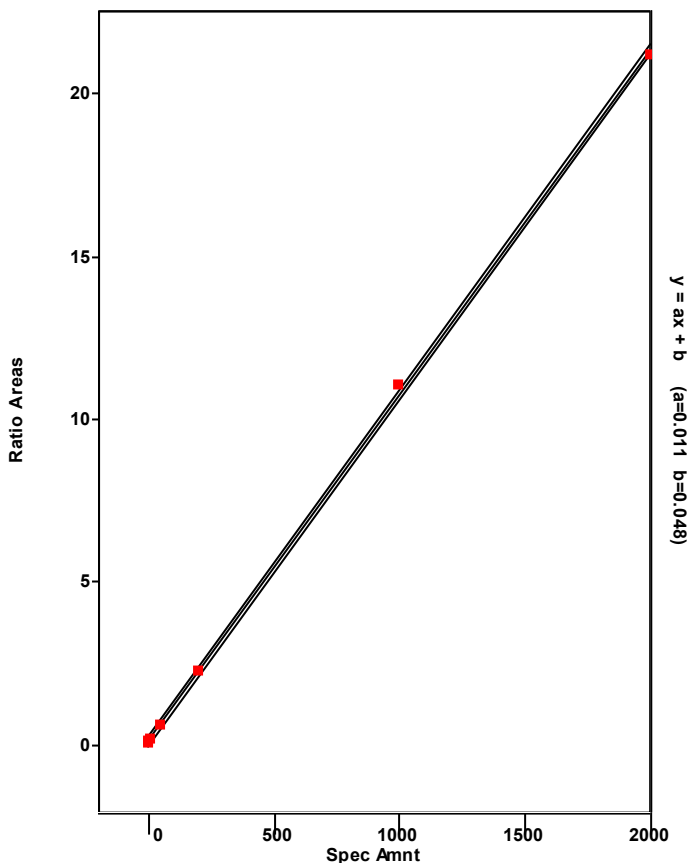
Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	3405462
RM1 Area	3575496
RM1 Ratio (A)	1.0499
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	461.06
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

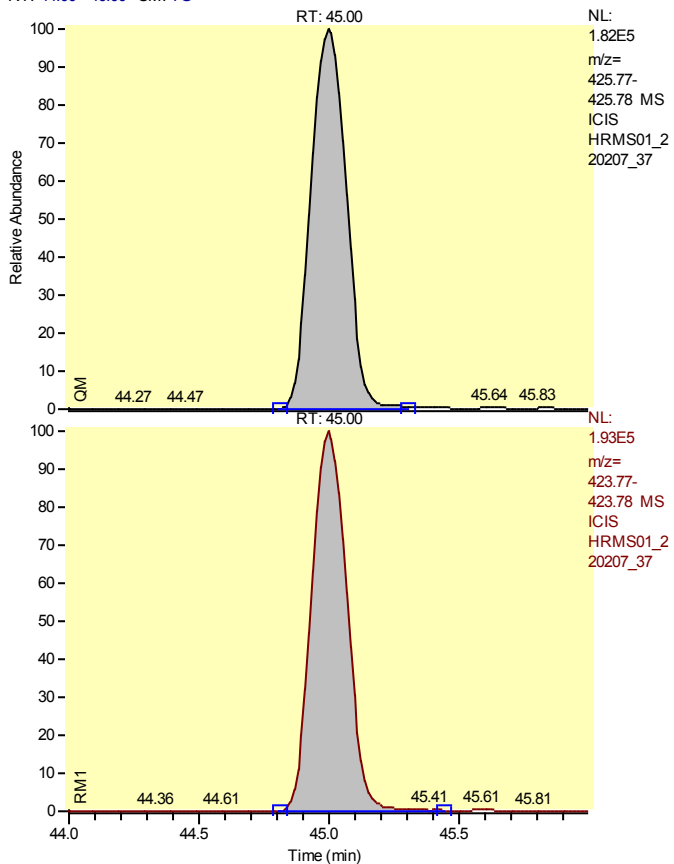
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 44.00 - 46.00 SM: 7G

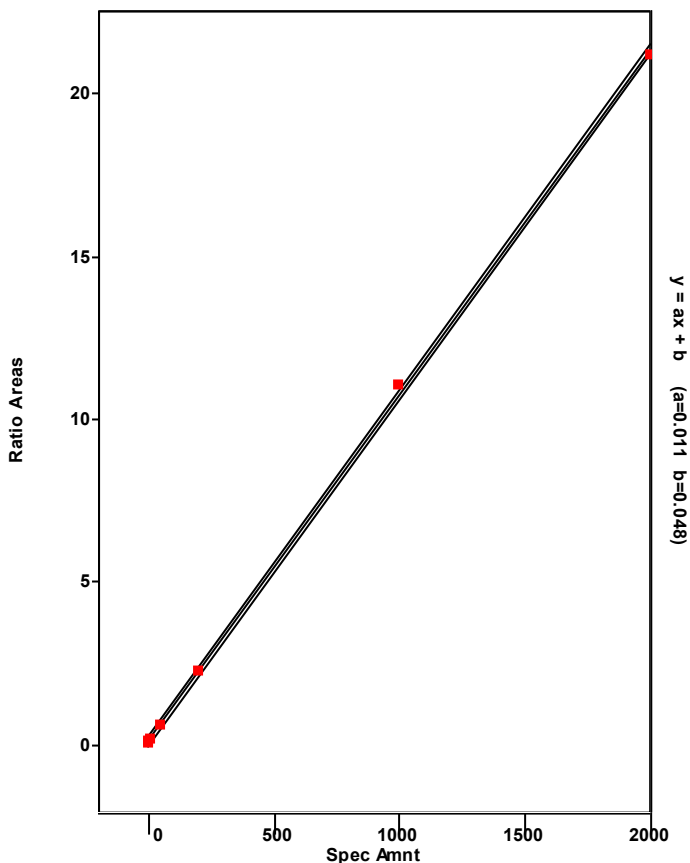


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1704935
RM1 Area	1799531
RM1 Ratio (A)	1.0555
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	231.45
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

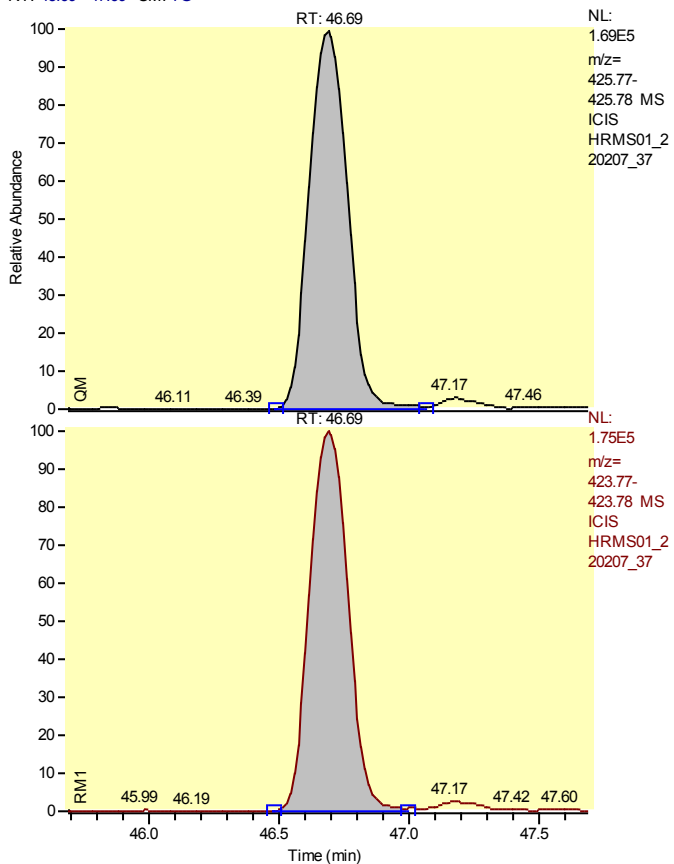
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

RT: 45.69 - 47.69 SM: 7G

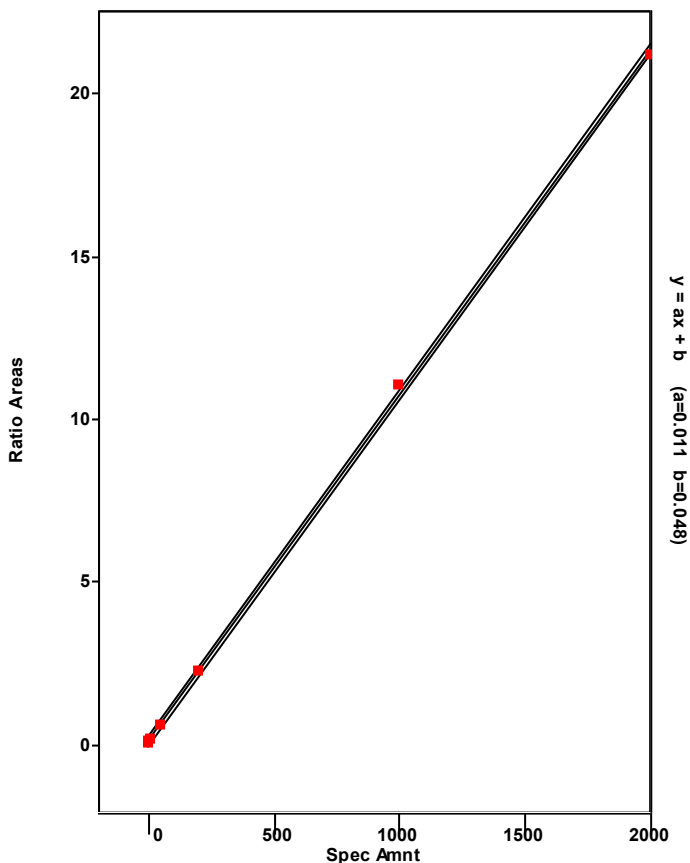


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1700527
RM1 Area	1775965
RM1 Ratio (A)	1.0444
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	229.60
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

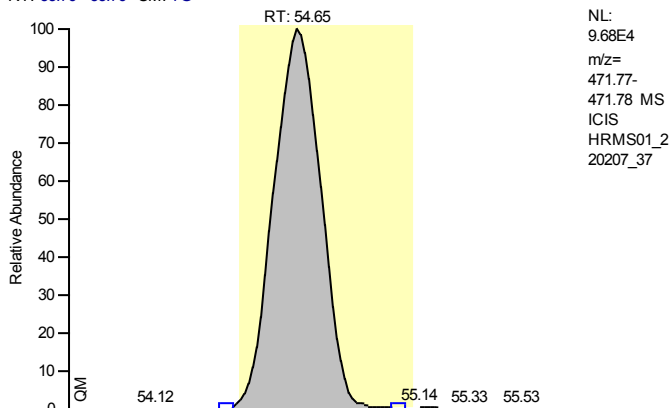
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



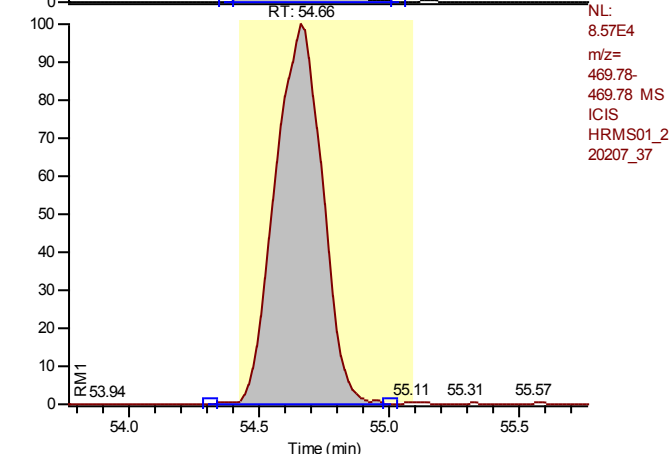
Chromatogram

Entry Parameters

RT: 53.76 - 55.76 SM: 7G



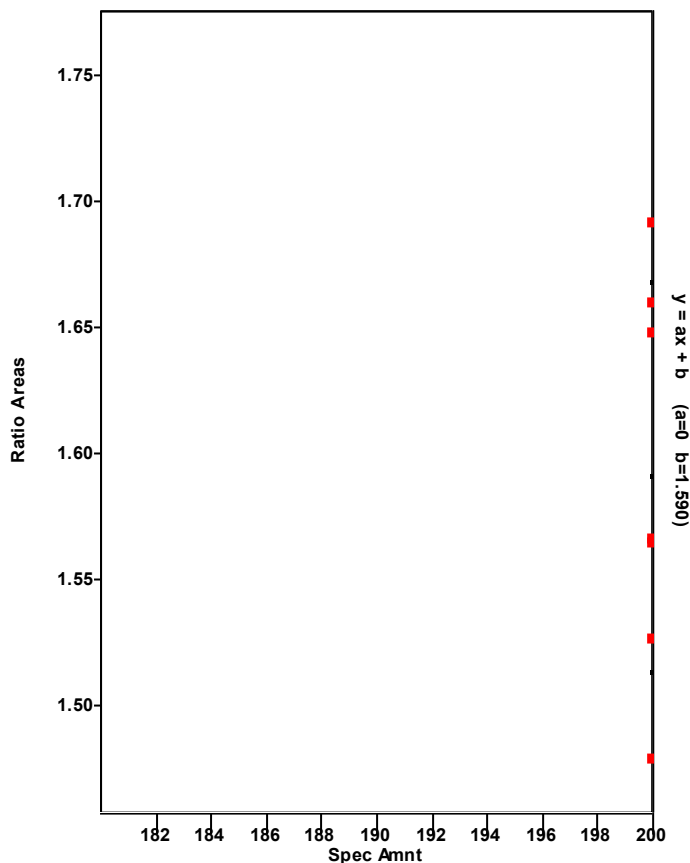
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1224313
RM1 Area	1088472
RM1 Ratio (A)	0.8890
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	121.31
Percent Recovery (A)	61
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

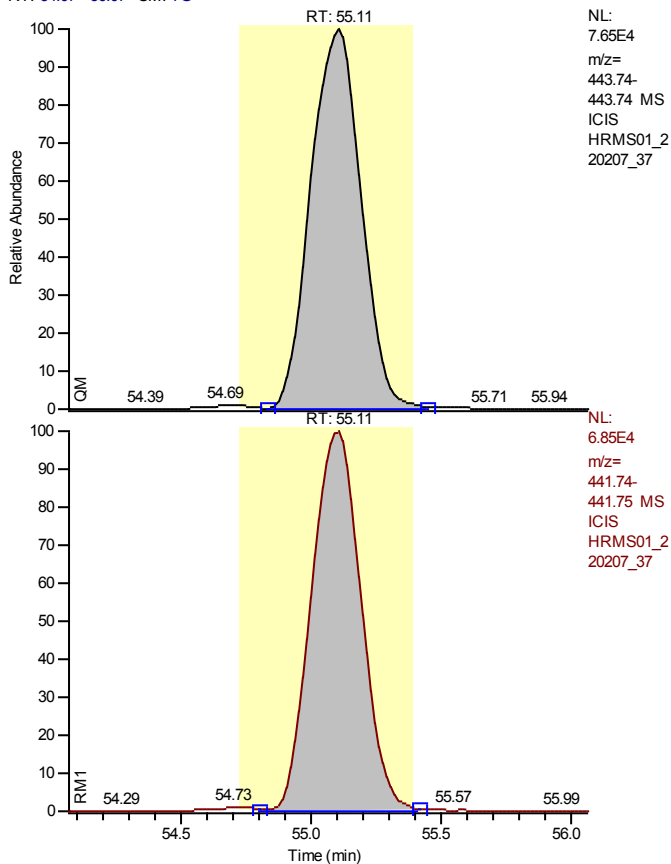
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.07 - 56.07 SM: 7G

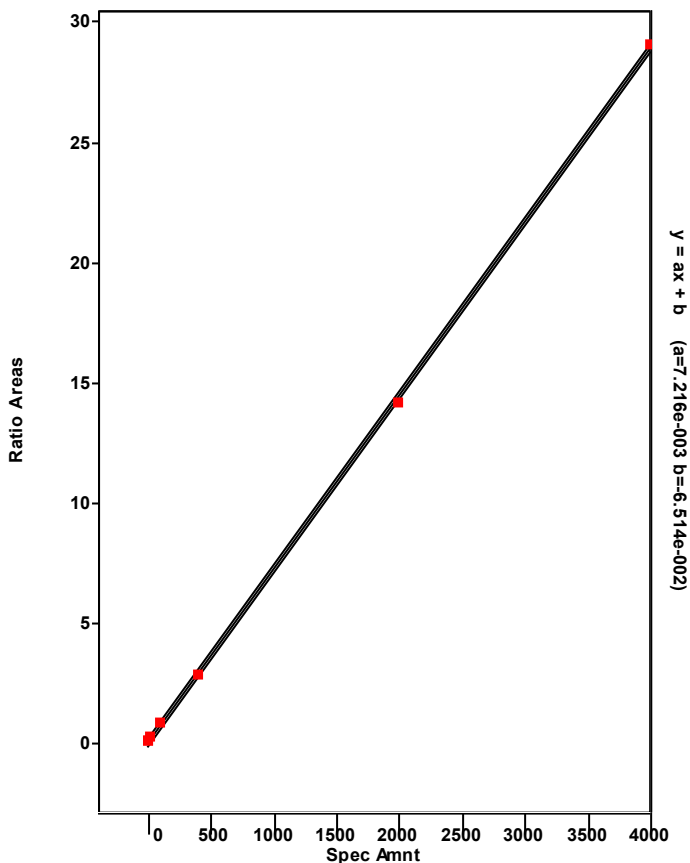


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1032143
RM1 Area	901750
RM1 Ratio (A)	0.8737
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	118.81
Percent Recovery (A)	---
TEQ (A)	0.0356
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

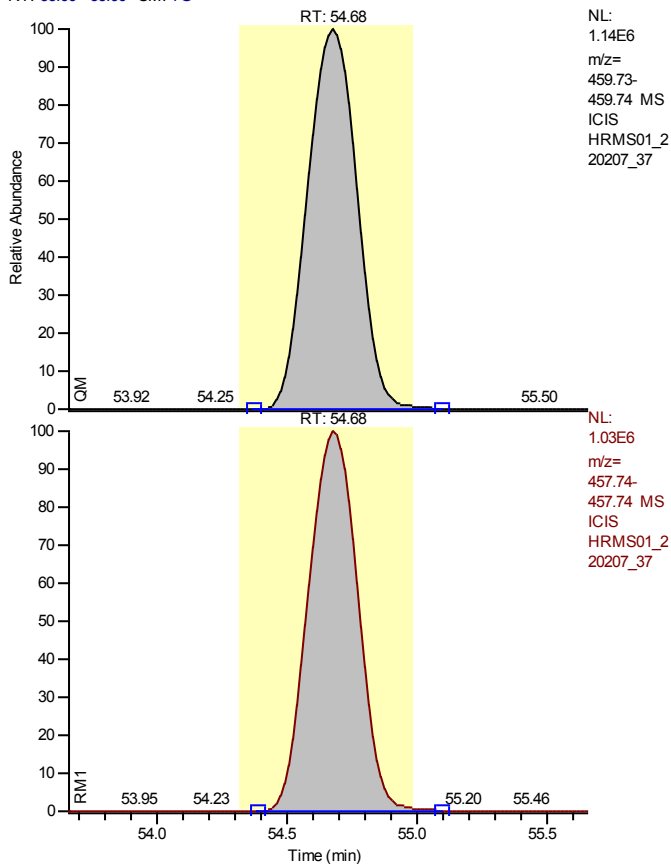
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



Chromatogram

Entry Parameters

RT: 53.66 - 55.66 SM: 7G

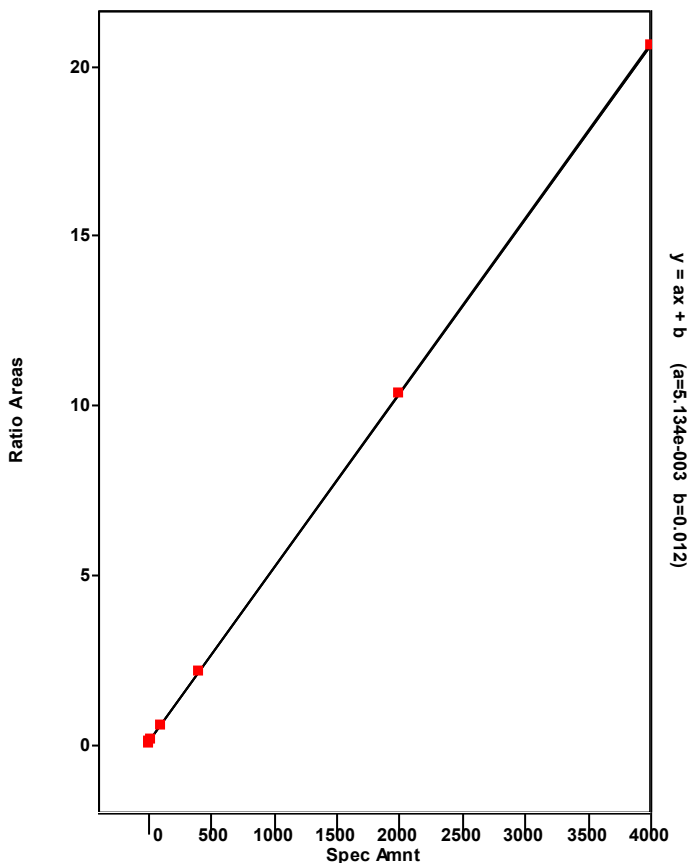


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	15065438
RM1 Area	13491420
RM1 Ratio (A)	0.8955
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	2330.46
Percent Recovery (A)	---
TEQ (A)	0.6991
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

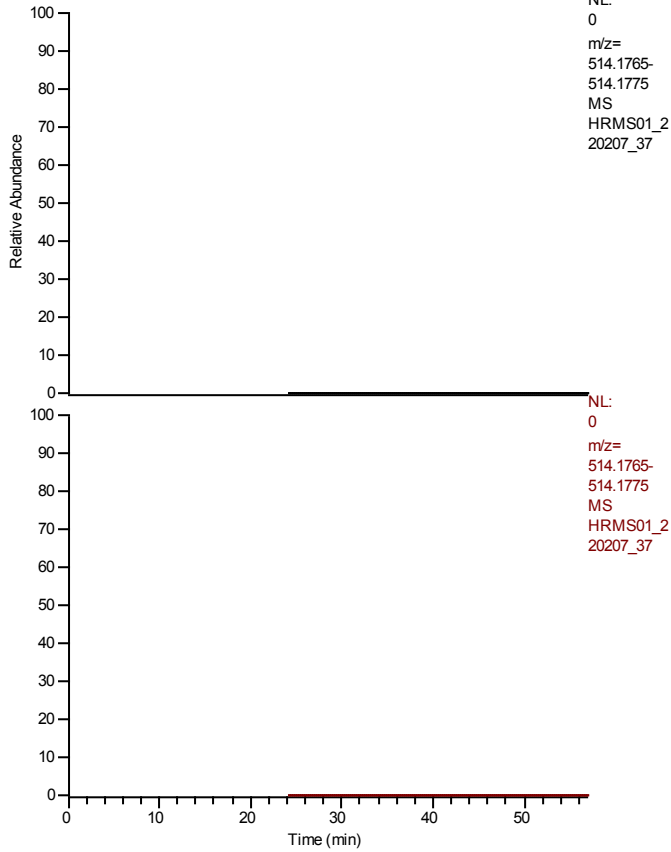
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

Entry Parameters

RT: 0.00 - 57.01 SM: 5G



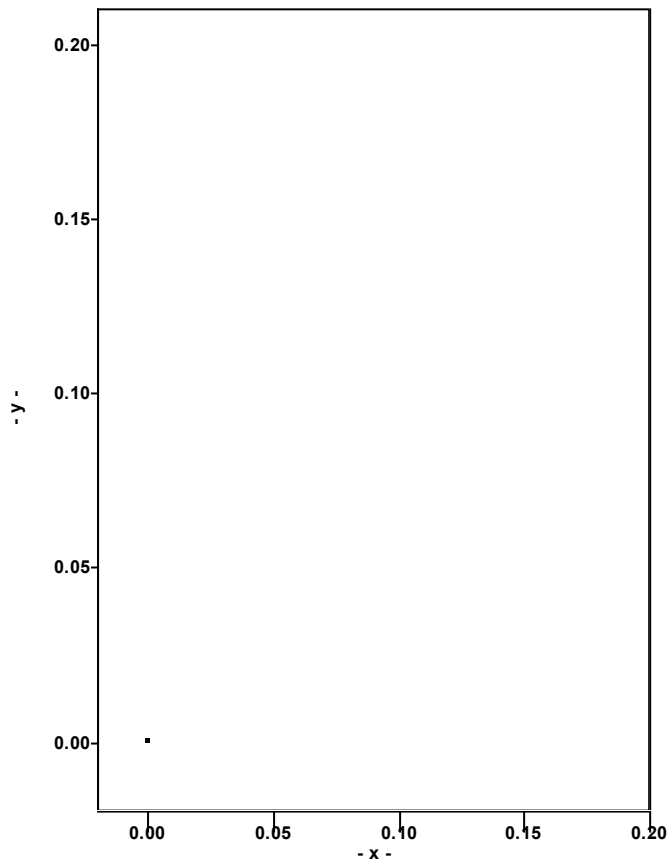
NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20207_37

NL:
0
m/z=
514.1765-
514.1775
MS
HRMS01_2
20207_37

Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	19806890
RM1 Area	18547213
RM1 Ratio (A)	0.9364
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	2895.01
Percent Recovery (A)	---
TEQ (A)	18.9389
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/09 08:05
Number of Entries	97
Comment	
Vial	119
Sample Name	L2202953-11
Sample ID	HRMS01A,PB,WG1602294,WG1600060,ICAL18729,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_39_seq
Data	hrms01_220207_39
Response	220204_1613b_gca
Quan Method File	epa1613b_samples_gc1
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1833368	1405101	0.7664	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		2014245	1673742	0.8310	0.6500 - 0.8900	100.00	67.37	67	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	240147	185131	0.7709	0.6500 - 0.8900	0.00	11.19	---	1.1188
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	1195160	961515	0.8000	0.6500 - 0.8900	0.00	56.74	---	0.0000
5	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	89741	79315	0.8838	0.6500 - 0.8900	0.00	4.45	---	0.0000
6	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	133445	101701	0.7621	0.6500 - 0.8900	0.00	6.19	---	0.0000
7	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	75504	60297	0.7986	0.6500 - 0.8900	0.00	3.57	---	0.0000
8	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	104382	92786	0.8889	0.6500 - 0.8900	0.00	5.19	---	0.0000
9	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	237360	199537	0.8407	0.6500 - 0.8900	0.00	11.49	---	0.0000
10	Total Tetrachlorodibenzofuran__7	Single native TCDF	CAS# 55722-27-5	240147	185131	0.7709	0.6500 - 0.8900	0.00	11.19	---	0.0000
11	Total Tetrachlorodibenzofuran__8	Single native TCDF	CAS# 55722-27-5	10658	9168	0.8602	0.6500 - 0.8900	0.00	0.52	---	0.0000
12	Total Tetrachlorodibenzofuran__9	Single native TCDF	CAS# 55722-27-5	15983	12501	0.7822	0.6500 - 0.8900	0.00	0.75	---	0.0000
13	Total Tetrachlorodibenzofuran__10	Single native TCDF	CAS# 55722-27-5	24453	19308	0.7896	0.6500 - 0.8900	0.00	1.15	---	0.0000
14	Total Tetrachlorodibenzofuran__11	Single native TCDF	CAS# 55722-27-5	18365	12761	0.6948	0.6500 - 0.8900	0.00	0.82	---	0.0000
15	Total Tetrachlorodibenzofuran__12	Single native TCDF	CAS# 55722-27-5	27004	21164	0.7837	0.6500 - 0.8900	0.00	1.27	---	0.0000
16	Total Tetrachlorodibenzofuran__13	Single native TCDF	CAS# 55722-27-5	70887	52116	0.7352	0.6500 - 0.8900	0.00	3.24	---	0.0000
17	Total Tetrachlorodibenzofuran__14	Single native TCDF	CAS# 55722-27-5	92923	71331	0.7676	0.6500 - 0.8900	0.00	4.32	---	0.0000
18	Total Tetrachlorodibenzofuran__15	Single native TCDF	CAS# 55722-27-5	12112	7883	0.6508	0.6500 - 0.8900	0.00	0.53	---	0.0000
19	Total Tetrachlorodibenzofuran__16	Single native TCDF	CAS# 55722-27-5	9652	13090	1.3562	0.6500 - 0.8900	0.00	n.d. < 0.60	---	n.d.
20	Total Tetrachlorodibenzofuran__17	Single native TCDF	CAS# 55722-27-5	19473	12956	0.6653	0.6500 - 0.8900	0.00	0.85	---	0.0000
21	Total Tetrachlorodibenzofuran__18	Single native TCDF	CAS# 55722-27-5	13071	10469	0.8009	0.6500 - 0.8900	0.00	0.62	---	0.0000
22	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1434205	1153829	0.8045	0.6500 - 0.8900	100.00	67.30	67	0.0000
23	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	7853	6429	0.8186	0.6500 - 0.8900	0.00	0.50	---	0.5007
24	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	73145	58041	0.7557	0.6500 - 0.8900	0.00	4.60	---	0.0000
25	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	33419	25857	0.7737	0.6500 - 0.8900	0.00	2.08	---	0.0000
26	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	8281	5764	0.6961	0.6500 - 0.8900	0.00	0.49	---	0.0000
27	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	3428	2828	0.8249	0.6500 - 0.8900	0.00	0.22	---	0.0000
28	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	6626	4390	0.6626	0.6500 - 0.8900	0.00	0.39	---	0.0000
29	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	6088	6059	0.9953	0.6500 - 0.8900	0.00	n.d. < 0.43	---	n.d.
30	Total Tetrachlorodibenzo-p-dioxin__6	Single native TCDD	CAS# 41903-57-5	7301	6824	0.9347	0.6500 - 0.8900	0.00	n.d. < 0.50	---	n.d.
31	Total Tetrachlorodibenzo-p-dioxin__7	Single native TCDD	CAS# 41903-57-5	8003	6317	0.7894	0.6500 - 0.8900	0.00	0.50	---	0.0000
32	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1196059	1988367	1.6624	1.3200 - 1.7800	100.00	71.18	71	0.0000
33	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	225598	352192	1.5612	1.3200 - 1.7800	0.00	18.04	---	0.5411
34	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	1045626	1668361	1.5956	1.3200 - 1.7800	0.00	80.44	---	0.0000
35	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	236804	388218	1.6394	1.3200 - 1.7800	0.00	18.53	---	0.0000
36	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	232513	384903	1.6554	1.3200 - 1.7800	0.00	18.30	---	0.0000
37	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	225598	352192	1.5612	1.3200 - 1.7800	0.00	17.13	---	0.0000
38	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	91273	139541	1.5288	1.3200 - 1.7800	0.00	6.84	---	0.0000

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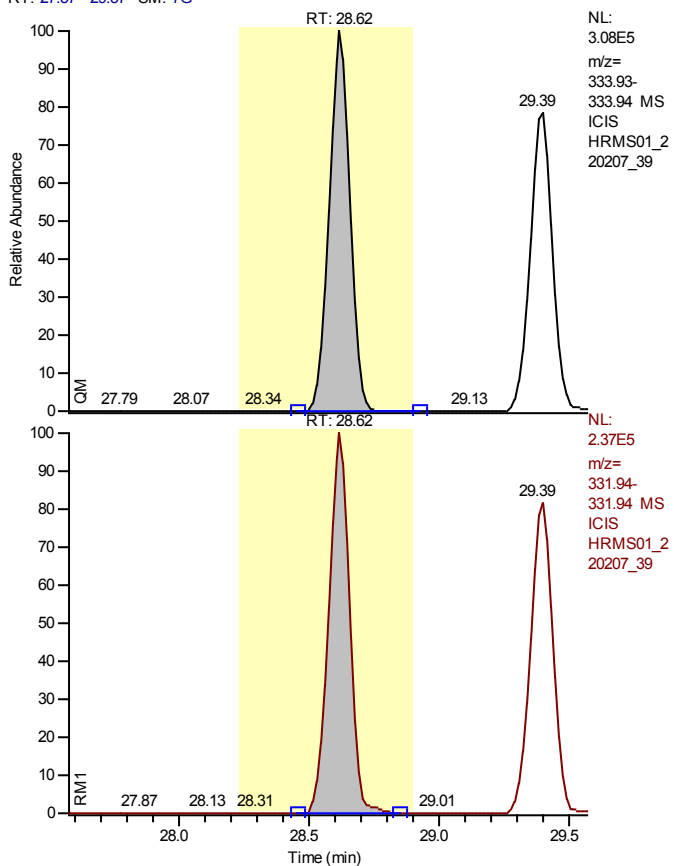
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)	
39		Total Pentachlorodibenzofuran_5	Single native PeCDF	CAS# 30402-15-4	64507	92157	1.4286	1.3200 - 1.7800	0.00	4.64	---	0.0000
40		Total Pentachlorodibenzofuran_6	Single native PeCDF	CAS# 30402-15-4	108915	175004	1.6068	1.3200 - 1.7800	0.00	8.42	---	0.0000
41		Total Pentachlorodibenzofuran_7	Single native PeCDF	CAS# 30402-15-4	32643	52758	1.6162	1.3200 - 1.7800	0.00	2.53	---	0.0000
42		Total Pentachlorodibenzofuran_8	Single native PeCDF	CAS# 30402-15-4	53375	83587	1.5660	1.3200 - 1.7800	0.00	4.06	---	0.0000
43		13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1225116	1976605	1.6134	1.3200 - 1.7800	100.00	71.78	72	0.0000
44		2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	108915	175004	1.6068	1.3200 - 1.7800	0.00	7.93	---	2.3802
45		13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		835859	1332195	1.5938	1.3200 - 1.7800	100.00	71.63	72	0.0000
46		1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	10116	14667	1.4499	1.3200 - 1.7800	0.00	1.15	---	0.0000
47		Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	49323	68317	1.3851	1.3200 - 1.7800	0.00	5.44	---	0.0000
48		Total Pentachlorodibenzo-p-dioxin_1	Single native PeCDD	CAS# 36088-22-9	22778	31416	1.3792	1.3200 - 1.7800	0.00	2.51	---	0.0000
49		Total Pentachlorodibenzo-p-dioxin_3	Single native PeCDD	CAS# 36088-22-9	14907	21294	1.4284	1.3200 - 1.7800	0.00	1.67	---	0.0000
50		Total Pentachlorodibenzo-p-dioxin_7	Single native PeCDD	CAS# 36088-22-9	11638	15607	1.3411	1.3200 - 1.7800	0.00	1.26	---	0.0000
51		37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		370715	370715	1.0000	0.8500 - 1.1500	10.00	9.50	95	0.0000
52		13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1513905	1912660	1.2634	1.0500 - 1.4300	100.00	100.00	100	0.0000
53		13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1902408	1041548	0.5475	0.4300 - 0.5900	100.00	74.69	75	0.0000
54		1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	493534	621235	1.2587	1.0500 - 1.4300	0.00	30.37	---	3.0370
55		Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	1661176	2090719	1.2586	1.0500 - 1.4300	0.00	100.44	---	0.0000
56		Total Hexachlorodibenzofuran_1	Single native HxCDF	CAS# 55684-94-1	493534	621235	1.2587	1.0500 - 1.4300	0.00	29.84	---	0.0000
57		Total Hexachlorodibenzofuran_2	Single native HxCDF	CAS# 55684-94-1	122869	155119	1.2625	1.0500 - 1.4300	0.00	7.44	---	0.0000
58		Total Hexachlorodibenzofuran_3	Single native HxCDF	CAS# 55684-94-1	332351	428725	1.2900	1.0500 - 1.4300	0.00	20.38	---	0.0000
59		Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	419809	518808	1.2358	1.0500 - 1.4300	0.00	25.13	---	0.0000
60		Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	150925	189353	1.2546	1.0500 - 1.4300	0.00	9.11	---	0.0000
61		Total Hexachlorodibenzofuran_6	Single native HxCDF	CAS# 55684-94-1	74916	94492	1.2613	1.0500 - 1.4300	0.00	4.54	---	0.0000
62		Total Hexachlorodibenzofuran_7	Single native HxCDF	CAS# 55684-94-1	66772	82988	1.2429	1.0500 - 1.4300	0.00	4.01	---	0.0000
63		13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1963714	1055691	0.5376	0.4300 - 0.5900	100.00	69.30	69	0.0000
64		1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	150925	189353	1.2546	1.0500 - 1.4300	0.00	9.49	---	0.9492
65		13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		2006218	1052354	0.5245	0.4300 - 0.5900	100.00	72.63	73	0.0000
66		2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	74916	94492	1.2613	1.0500 - 1.4300	0.00	4.48	---	0.4484
67		13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1888617	972139	0.5147	0.4300 - 0.5900	100.00	70.86	71	0.0000
68		1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	66772	82988	1.2429	1.0500 - 1.4300	0.00	4.48	---	0.4478
69		13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		975528	1256629	1.2882	1.0500 - 1.4300	100.00	73.89	74	0.0000
70		1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	11857	14315	1.2073	1.0500 - 1.4300	0.00	1.07	---	0.0000
71		Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	483375	625645	1.2943	1.0500 - 1.4300	0.00	44.56	---	0.0000
72		Total Hexachlorodibenzo-p-dioxin_1	Single native HxCDD	CAS# 34465-46-8	170976	228640	1.3373	1.0500 - 1.4300	0.00	16.06	---	0.0000
73		Total Hexachlorodibenzo-p-dioxin_2	Single native HxCDD	CAS# 34465-46-8	199201	252137	1.2657	1.0500 - 1.4300	0.00	18.14	---	0.0000
74		Total Hexachlorodibenzo-p-dioxin_3	Single native HxCDD	CAS# 34465-46-8	55013	72085	1.3103	1.0500 - 1.4300	0.00	5.11	---	0.0000
75		Total Hexachlorodibenzo-p-dioxin_4	Single native HxCDD	CAS# 34465-46-8	21918	29018	1.3239	1.0500 - 1.4300	0.00	2.05	---	0.0000
76		Total Hexachlorodibenzo-p-dioxin_5	Single native HxCDD	CAS# 34465-46-8	11857	14315	1.2073	1.0500 - 1.4300	0.00	1.05	---	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
77	Total Hexachlorodibenzo-p-dioxin_6	Single native HxCDD	CAS# 34465-46-8	24411	29450	1.2064	1.0500 - 1.4300	0.00	2.16	---	0.0000
78	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		1014708	1268889	1.2505	1.0500 - 1.4300	100.00	75.59	76	0.0000
79	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	55013	72085	1.3103	1.0500 - 1.4300	0.00	5.08	---	0.5079
80	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	24411	29450	1.2064	1.0500 - 1.4300	0.00	2.04	---	0.0000
81	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1765884	754382	0.4272	0.3700 - 0.5100	100.00	65.13	65	0.0000
82	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	1213463	1277726	1.0530	0.8800 - 1.2000	0.00	73.26	---	0.7326
83	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	2651623	2799367	1.0557	0.8800 - 1.2000	0.00	168.36	---	0.0000
84	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	1330905	1401951	1.0534	0.8800 - 1.2000	0.00	84.41	---	0.0000
85	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	1213463	1277726	1.0530	0.8800 - 1.2000	0.00	76.94	---	0.0000
86	Total Heptachlorodibenzofuran__3	Single native HpCDF	CAS# 38998-75-3	107255	119690	1.1159	0.8800 - 1.2000	0.00	7.01	---	0.0000
87	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1702577	784805	0.4610	0.3700 - 0.5100	100.00	69.36	69	0.0000
88	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	107255	119690	1.1159	0.8800 - 1.2000	0.00	6.93	---	0.0693
89	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		1123367	1188360	1.0579	0.8800 - 1.2000	100.00	75.36	75	0.0000
90	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	1947712	2018366	1.0363	0.8800 - 1.2000	0.00	154.80	---	1.5480
91	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	4234753	4400616	1.0392	0.8800 - 1.2000	0.00	337.05	---	0.0000
92	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	2287041	2382251	1.0416	0.8800 - 1.2000	0.00	182.25	---	0.0000
93	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	1947712	2018366	1.0363	0.8800 - 1.2000	0.00	154.80	---	0.0000
94	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		2003621	1773337	0.8851	0.7600 - 1.0200	200.00	138.68	69	0.0000
95	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1353818	1212618	0.8957	0.7600 - 1.0200	0.00	96.55	---	0.0290
96	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	19289614	17534220	0.9090	0.7600 - 1.0200	0.00	1840.15	---	0.5520
97	overall TEQ	overall TEQ test		25381919	23999960	0.9456	0.0000 - 0.0000	0.00	2267.51	---	12.8621

Chromatogram

Entry Parameters

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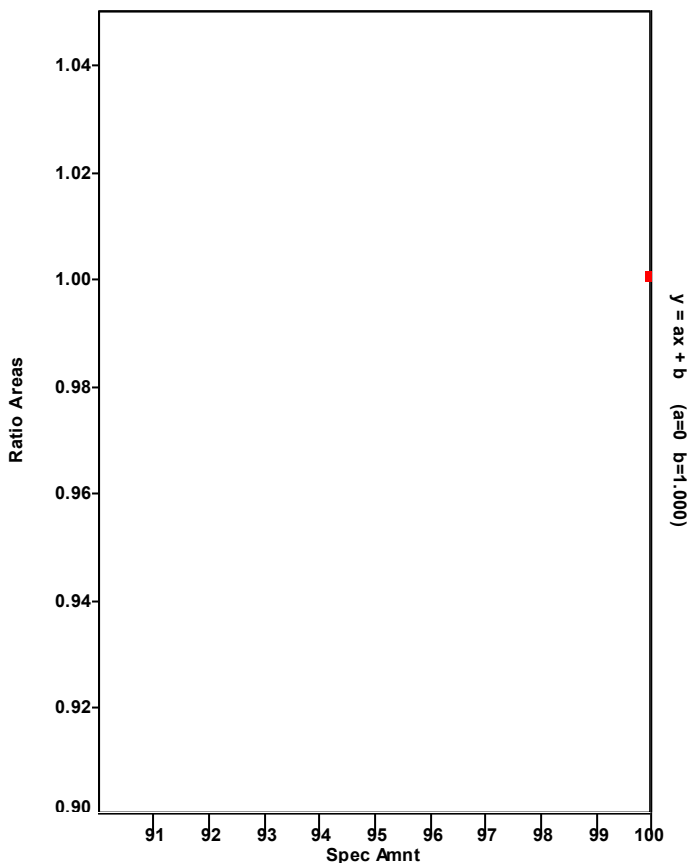
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Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1833368
RM1 Area	1405101
RM1 Ratio (A)	0.7664
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

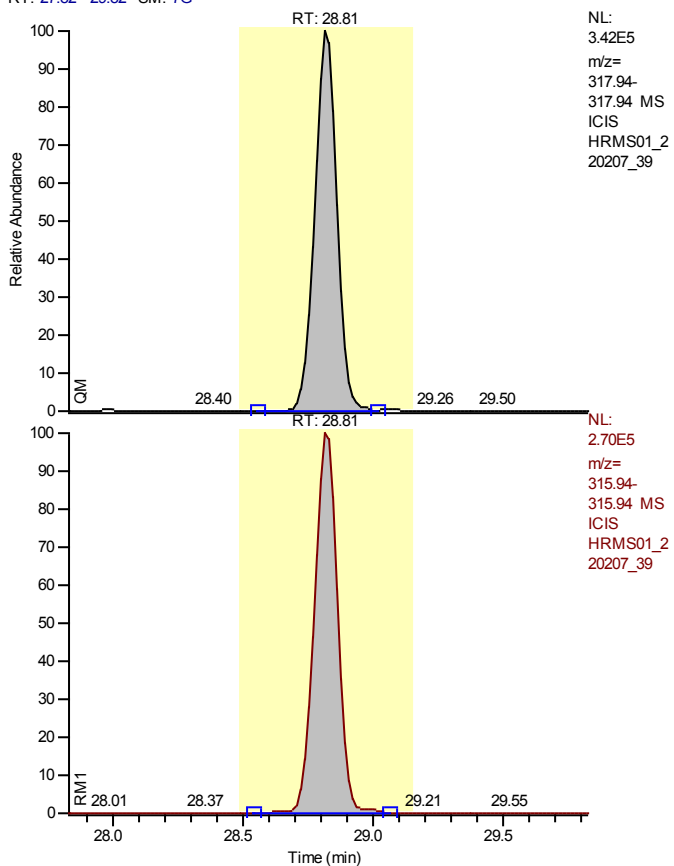
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Chromatogram

Entry Parameters

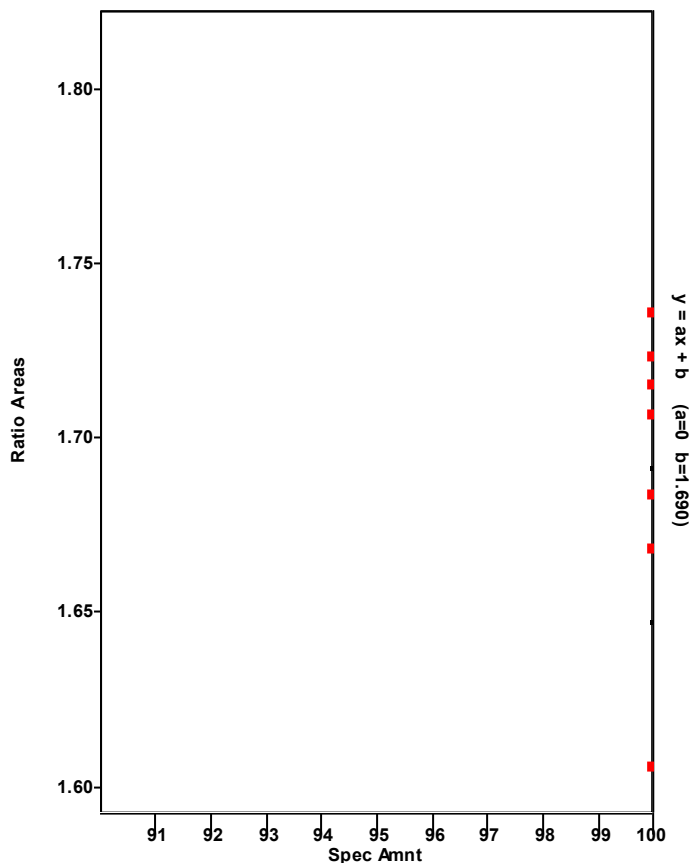
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Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	2014245
RM1 Area	1673742
RM1 Ratio (A)	0.8310
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	67.37
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

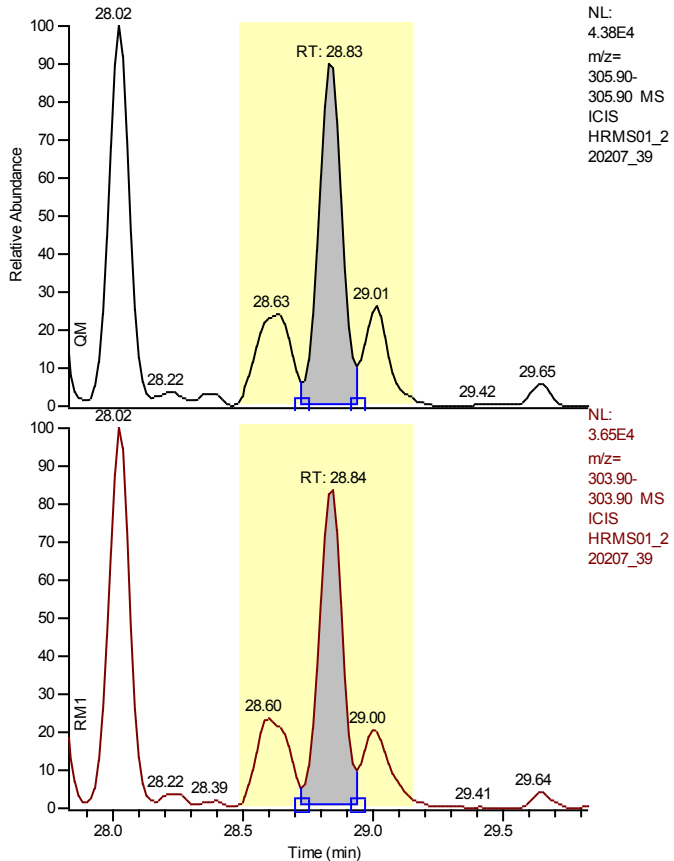
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Chromatogram

Entry Parameters

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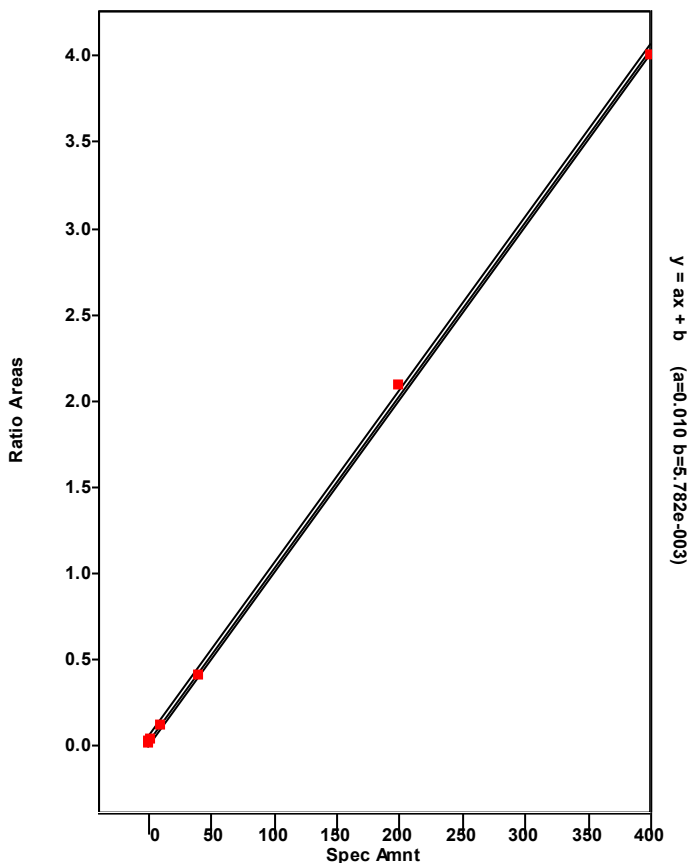
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Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	240147
RM1 Area	185131
RM1 Ratio (A)	0.7709
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	11.19
Percent Recovery (A)	---
TEQ (A)	1.1188
Label2	

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 20207_39

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

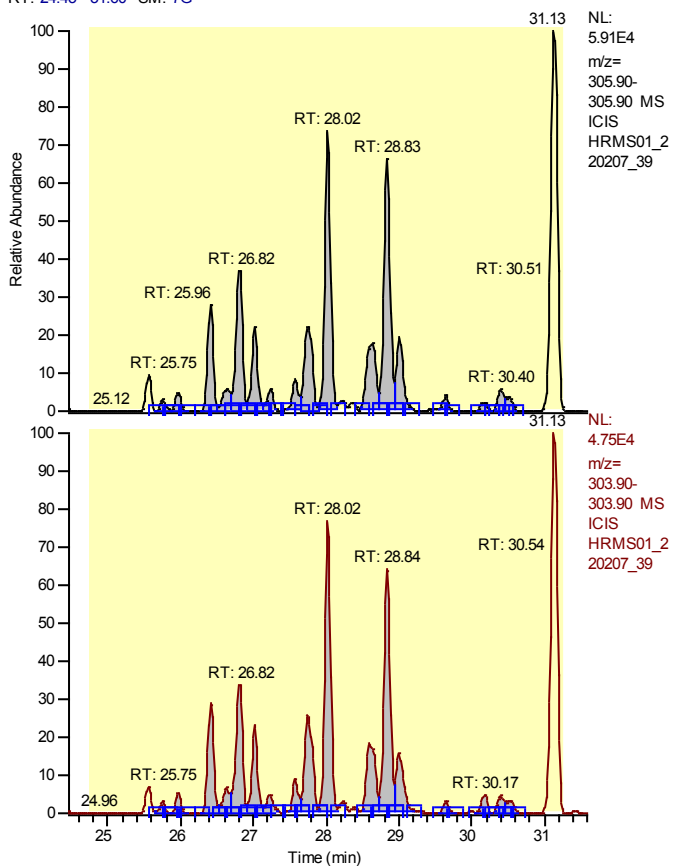
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Chromatogram

Entry Parameters

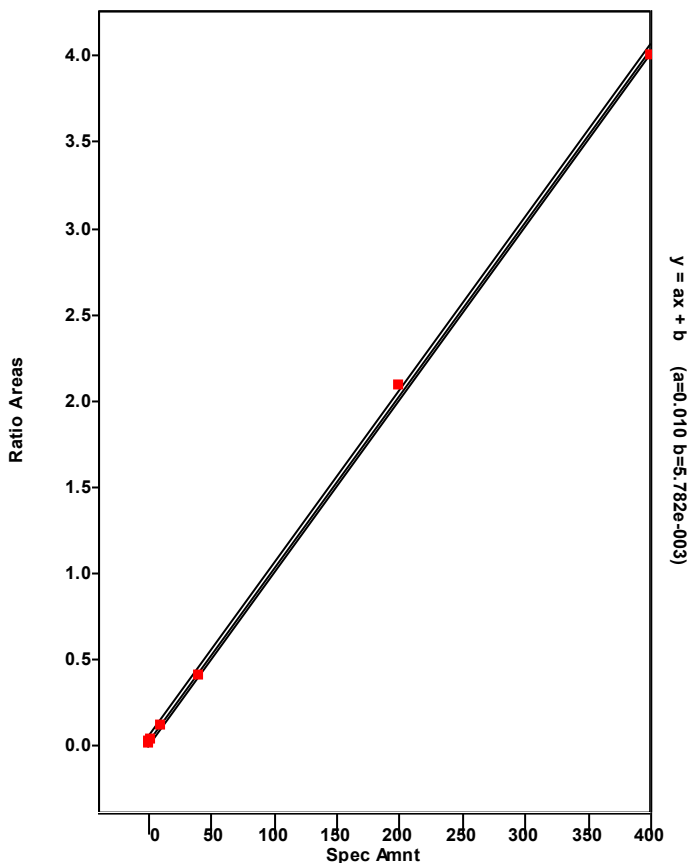
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Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	1195160
RM1 Area	961515
RM1 Ratio (A)	0.8000
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	56.74
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran

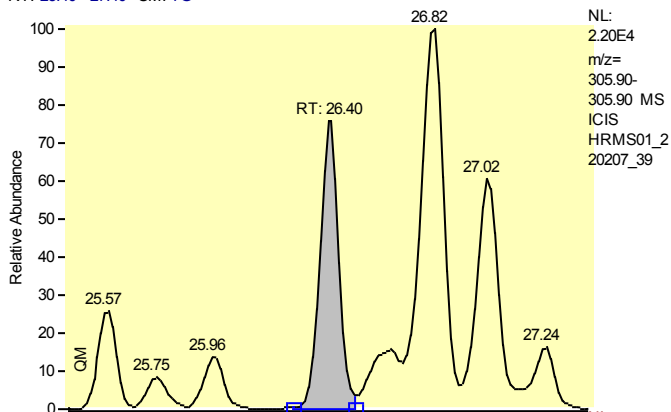
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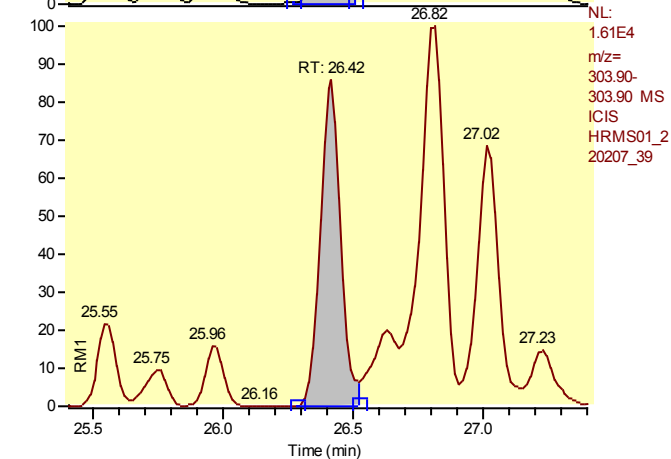
Chromatogram

Entry Parameters

RT: 25.40 - 27.40 SM: 7G

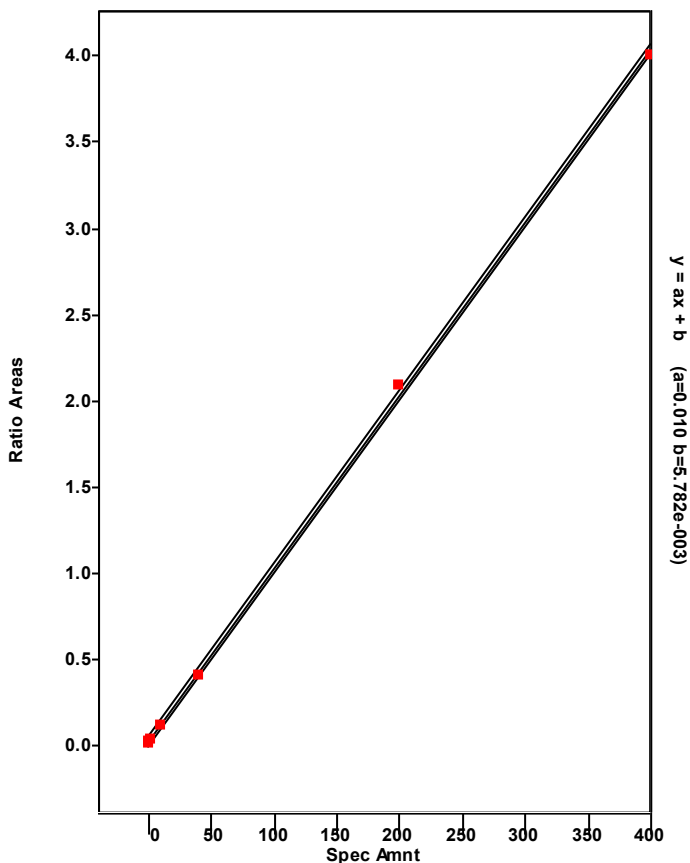


Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	89741
RM1 Area	79315
RM1 Ratio (A)	0.8838
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.45
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__2

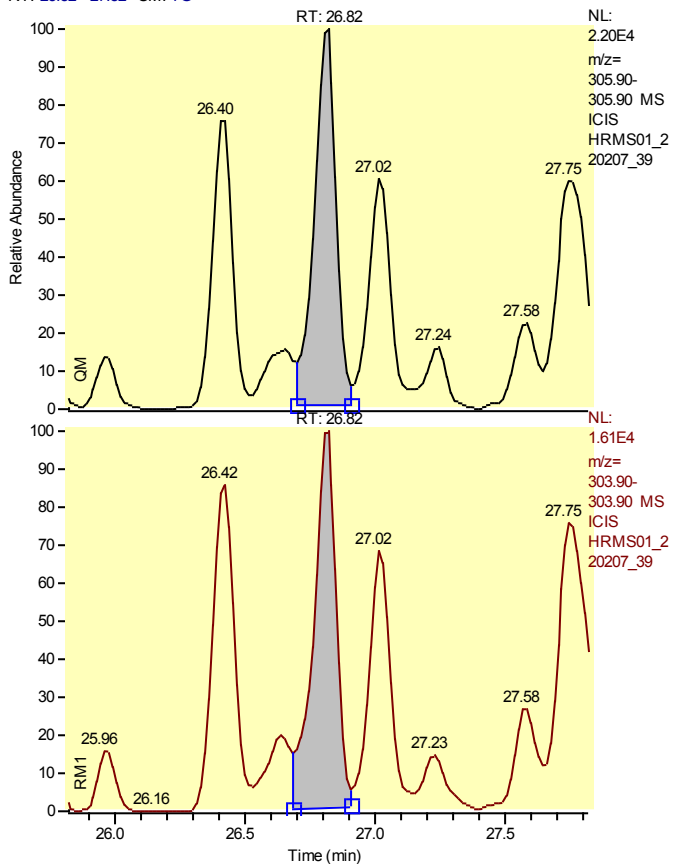
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Chromatogram

Entry Parameters

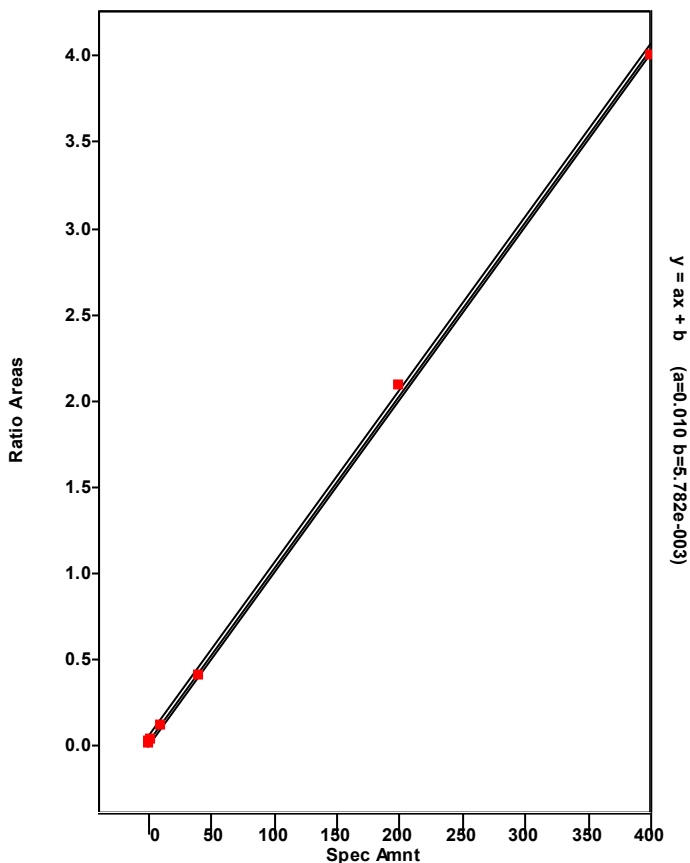
RT: 25.82 - 27.82 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	133445
RM1 Area	101701
RM1 Ratio (A)	0.7621
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	6.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__3

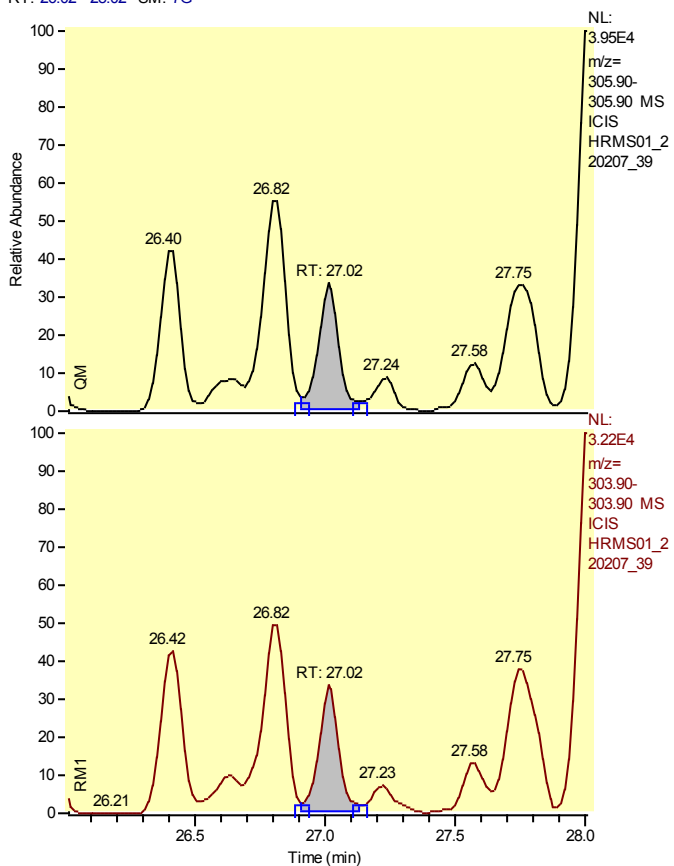
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

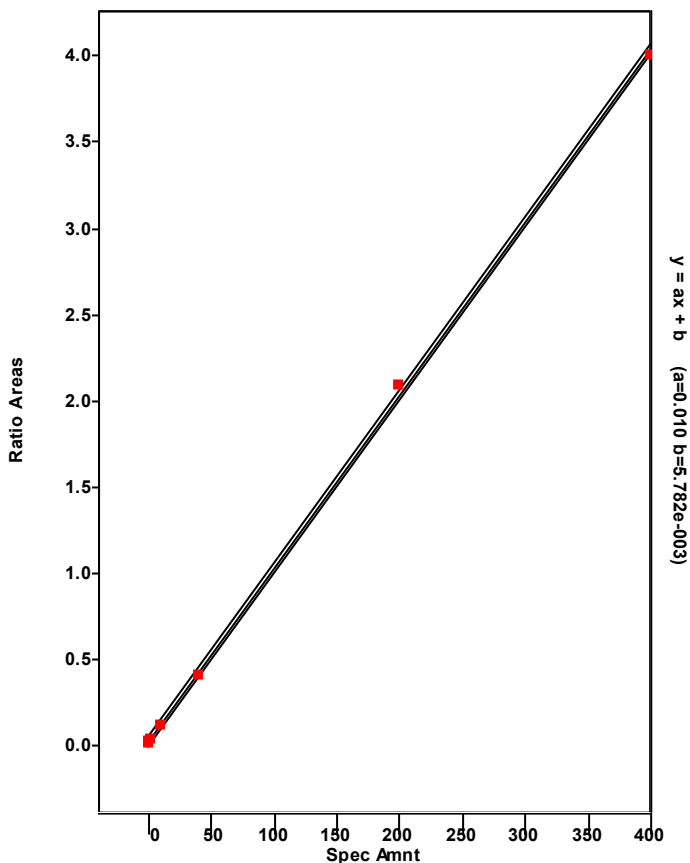
RT: 26.02 - 28.02 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	75504
RM1 Area	60297
RM1 Ratio (A)	0.7986
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.57
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__4

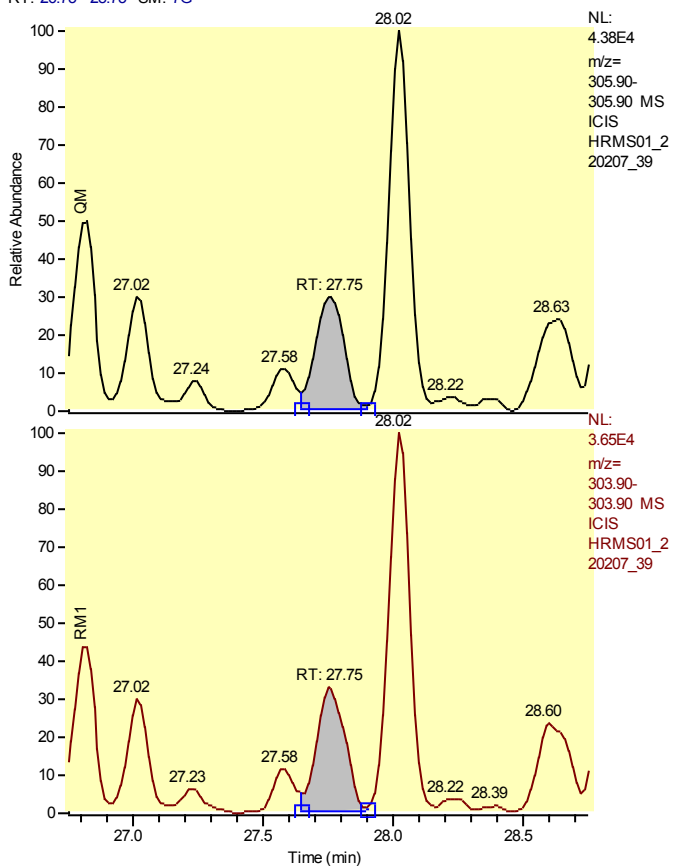
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

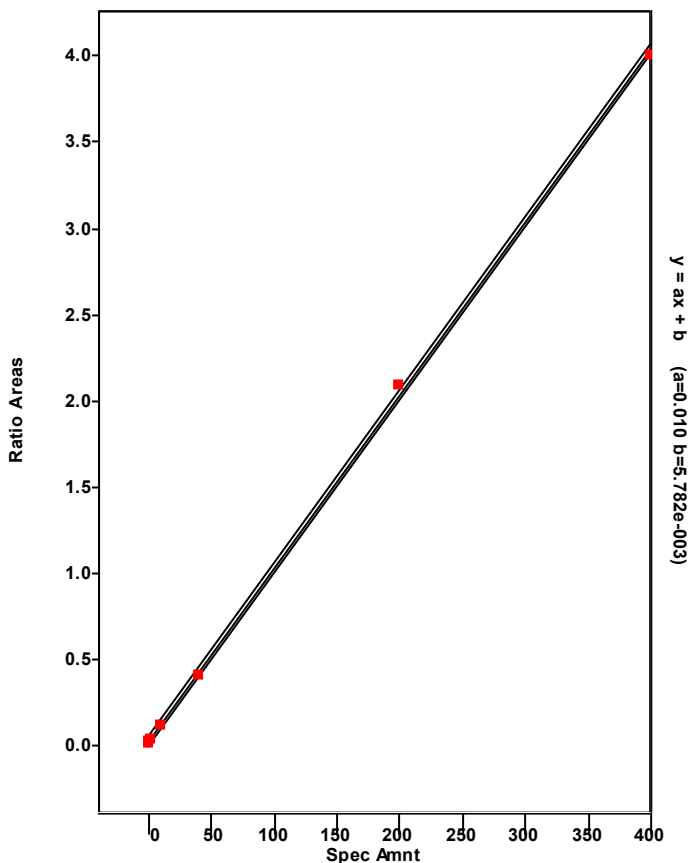
RT: 26.75-28.75 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	104382
RM1 Area	92786
RM1 Ratio (A)	0.8889
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__5

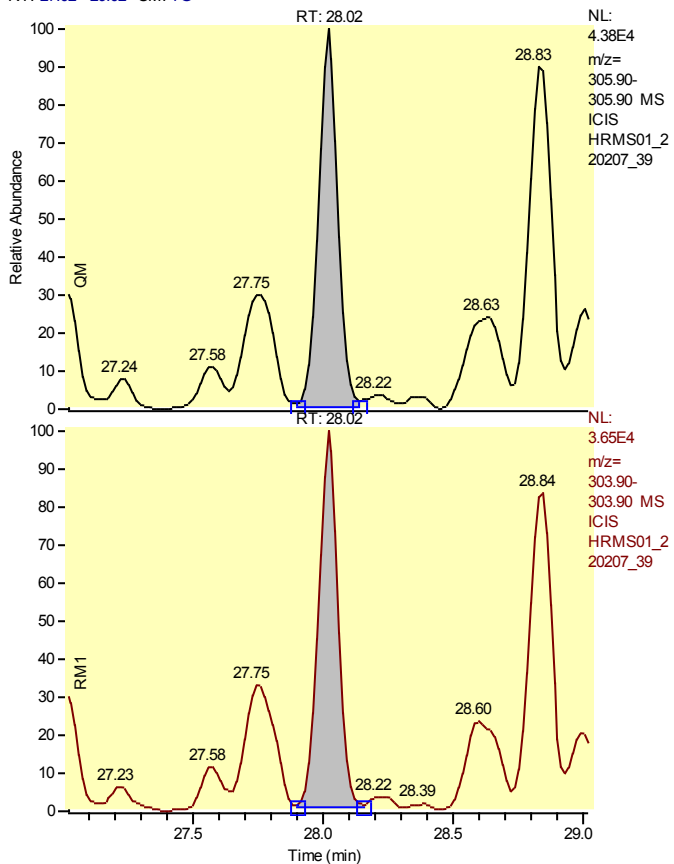
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

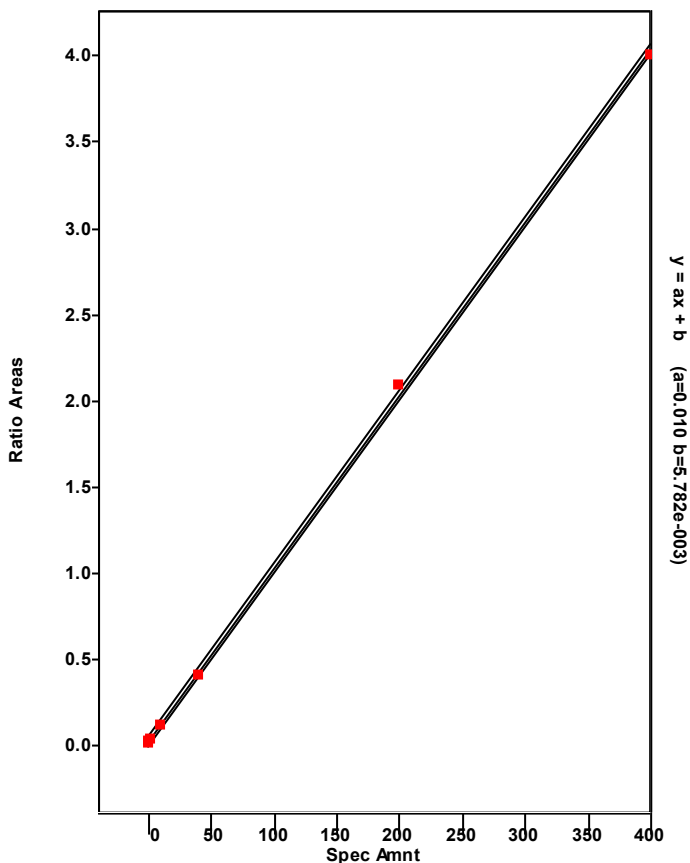
RT: 27.02 - 29.02 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	237360
RM1 Area	199537
RM1 Ratio (A)	0.8407
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	11.49
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__6

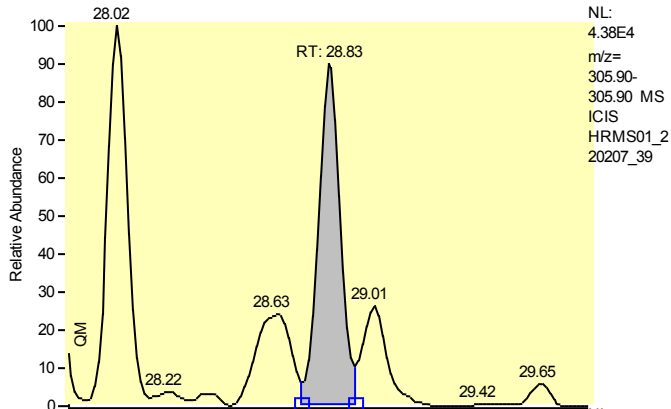
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



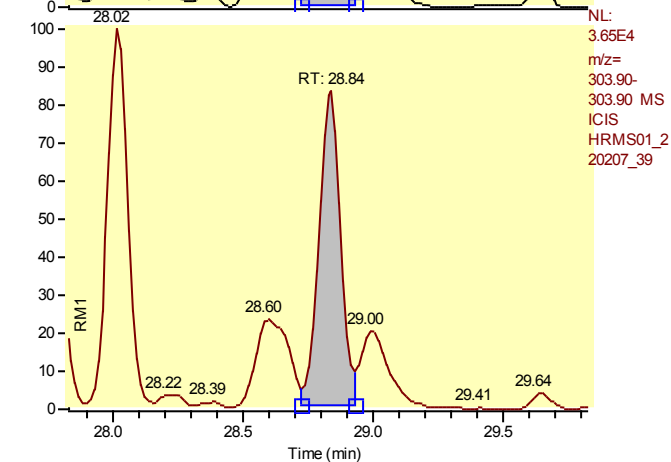
Chromatogram

Entry Parameters

RT: 27.83 - 29.83 SM: 7G

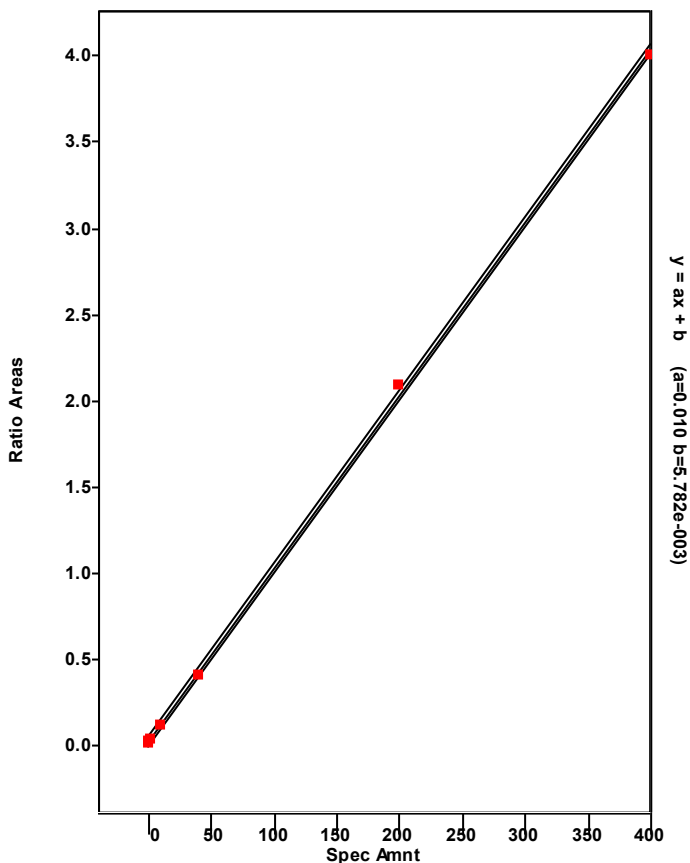


Entry Identifier	Total Tetrachlorodibenzofuran__7
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	240147
RM1 Area	185131
RM1 Ratio (A)	0.7709
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	11.19
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__7

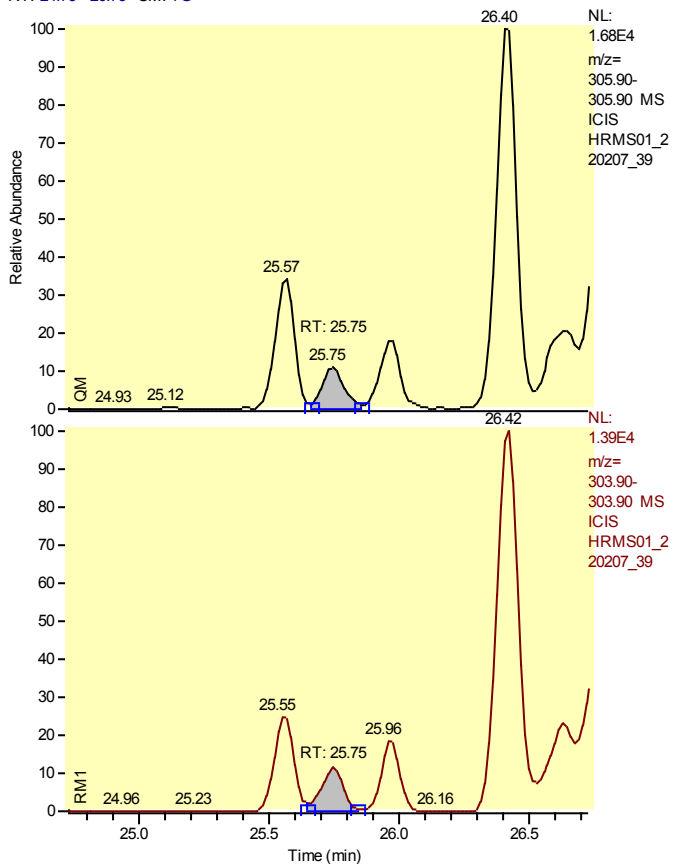
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

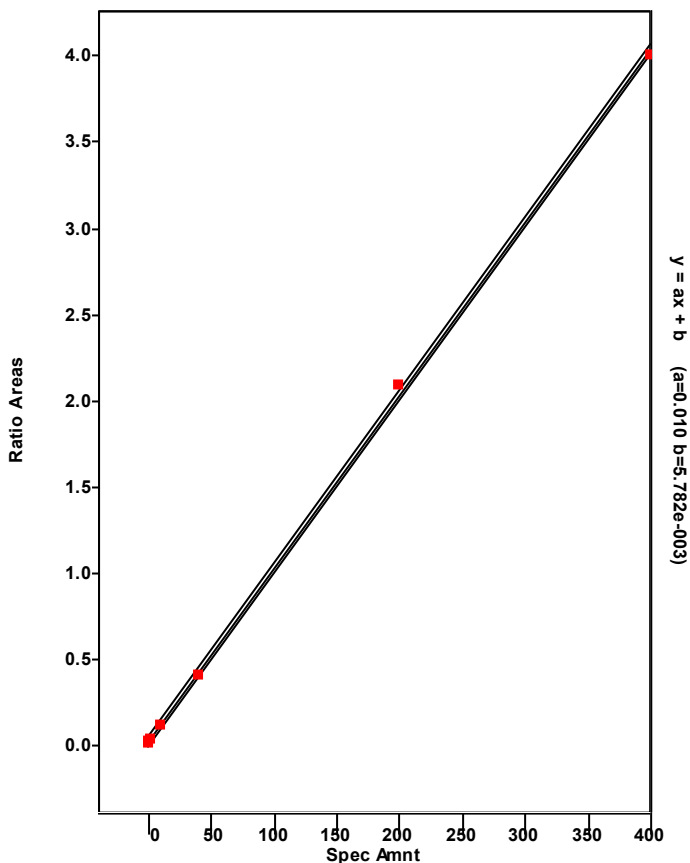
RT: 24.73 - 26.73 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__8
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	10658
RM1 Area	9168
RM1 Ratio (A)	0.8602
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.52
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__8

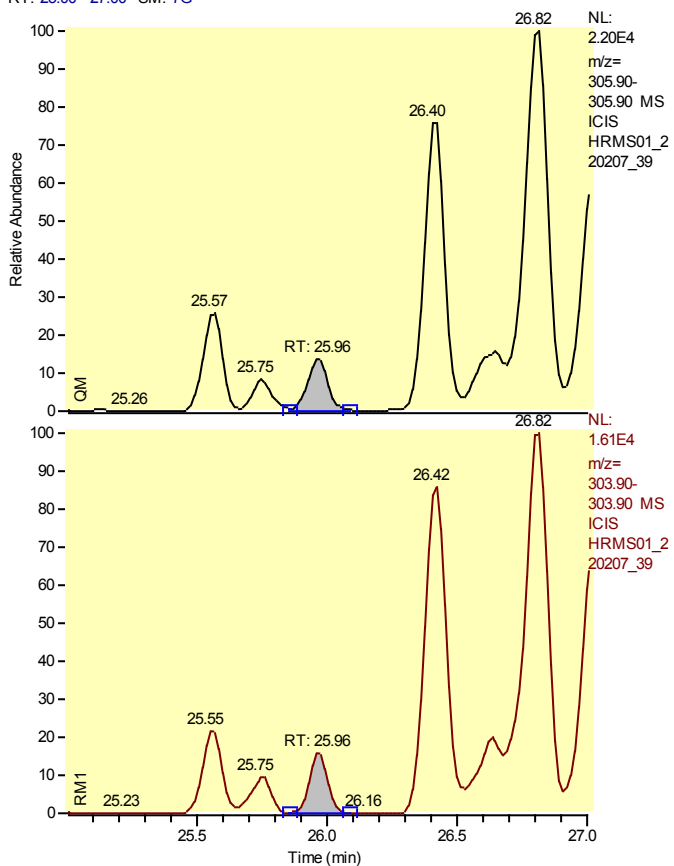
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

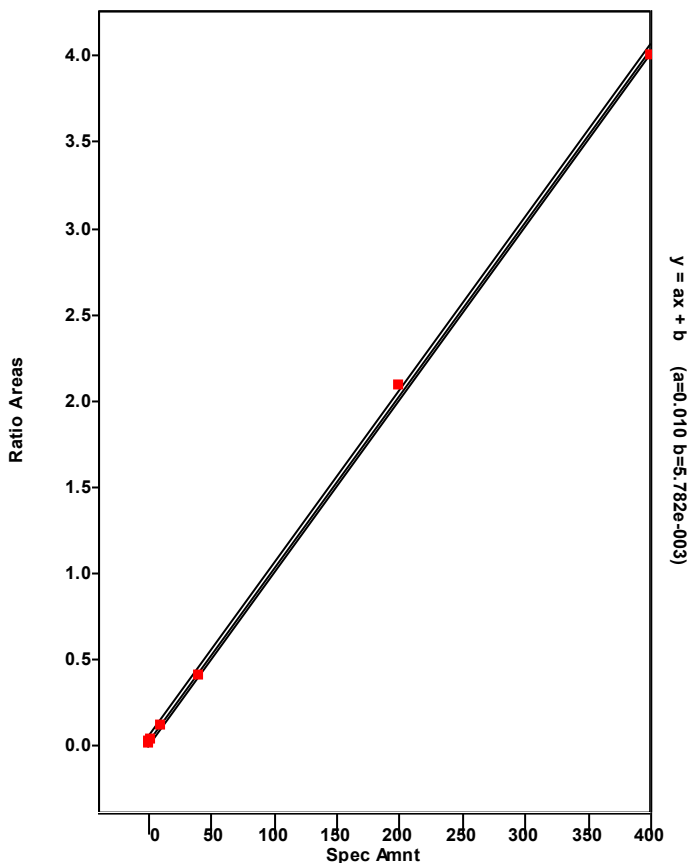
RT: 25.00 - 27.00 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__9
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	15983
RM1 Area	12501
RM1 Ratio (A)	0.7822
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.75
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__9

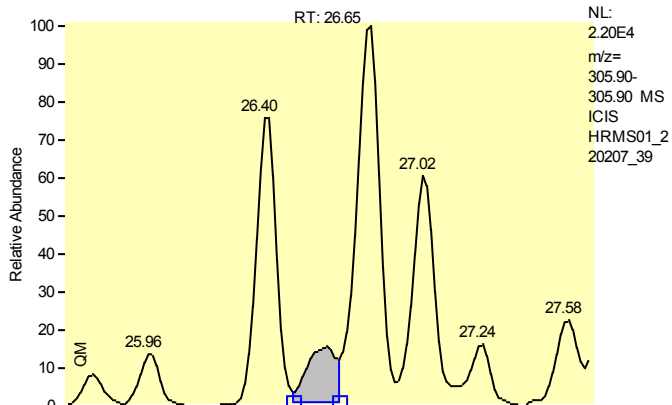
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



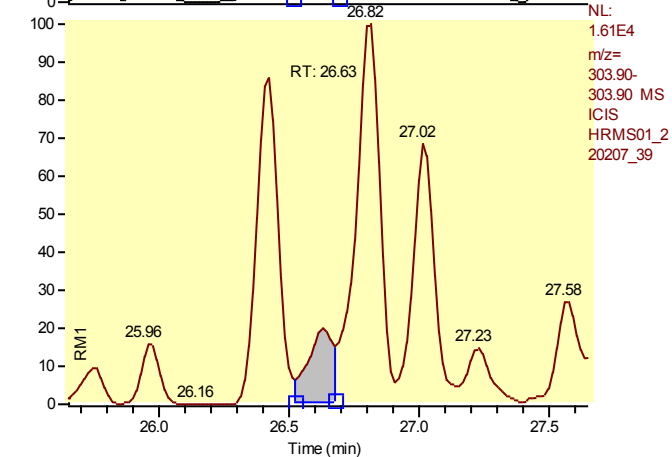
Chromatogram

Entry Parameters

RT: 25.65 - 27.65 SM: 7G

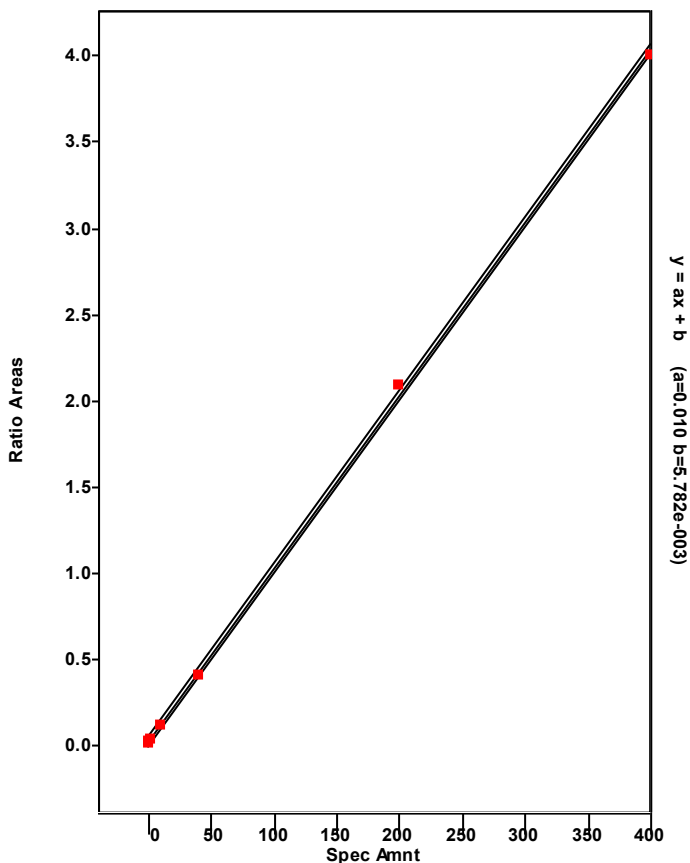


Entry Identifier	Total Tetrachlorodibenzofuran__10
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	24453
RM1 Area	19308
RM1 Ratio (A)	0.7896
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__10

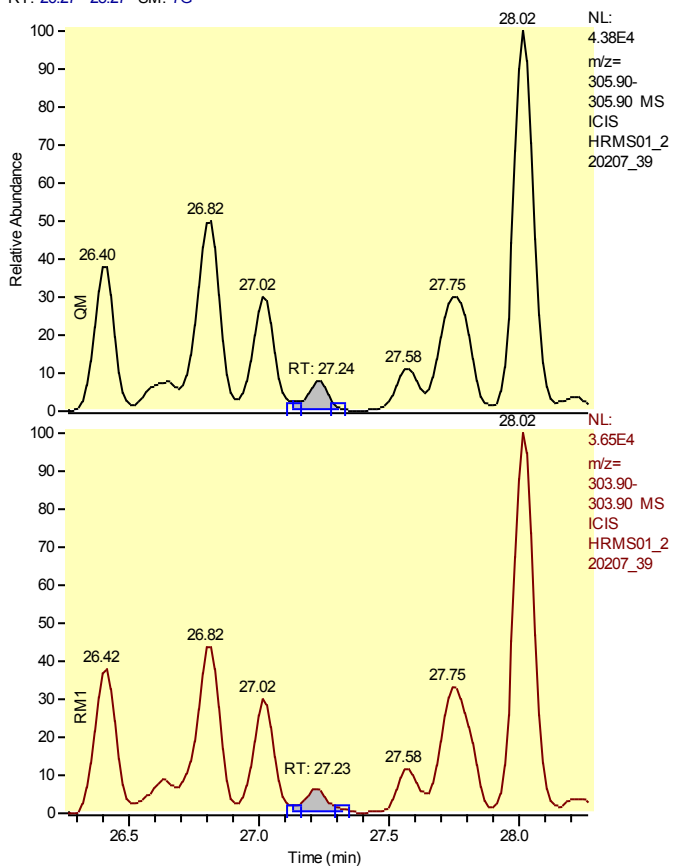
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

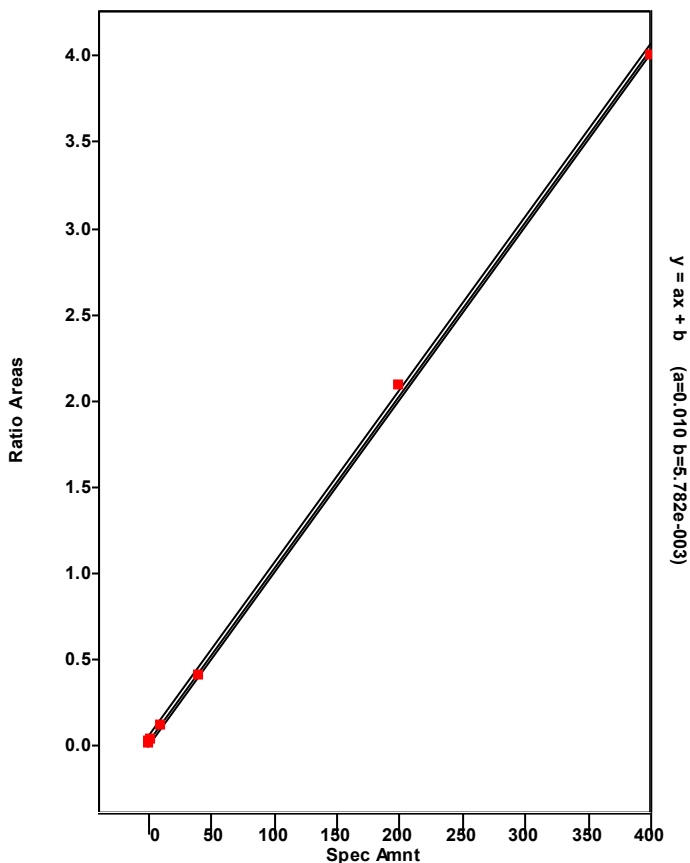
RT: 26.27 - 28.27 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__11
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	18365
RM1 Area	12761
RM1 Ratio (A)	0.6948
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.82
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__11

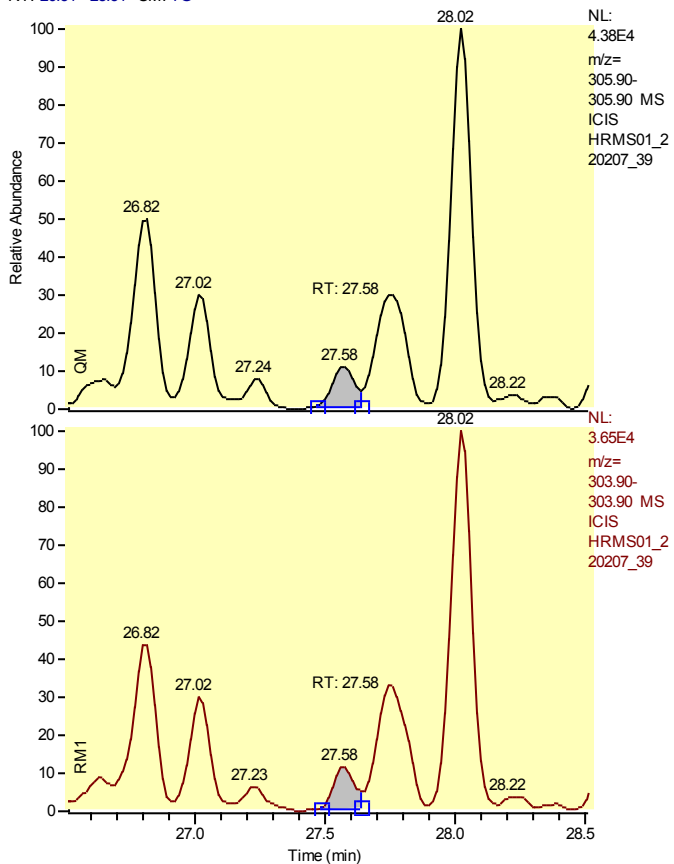
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

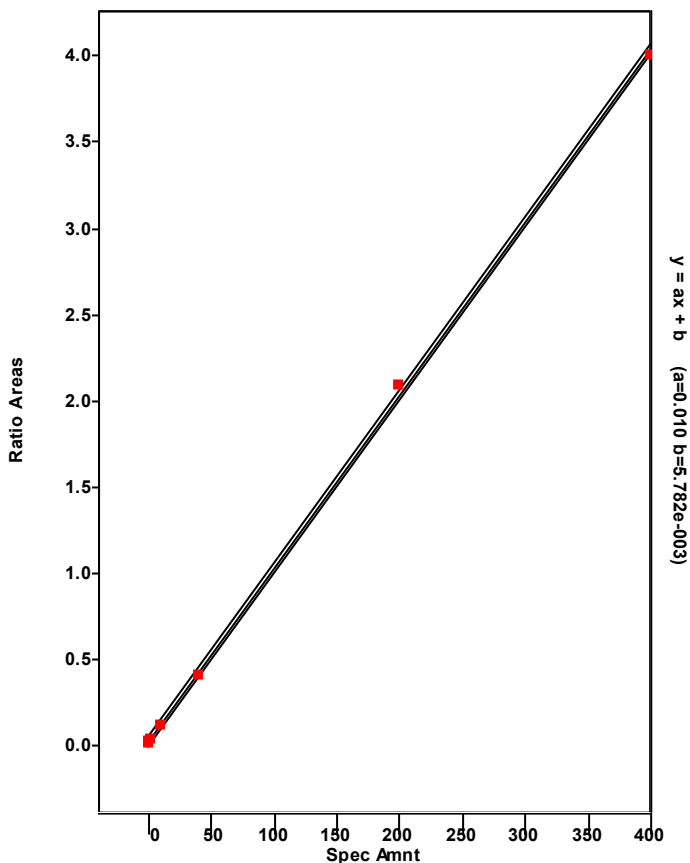
RT: 26.51 - 28.51 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__12
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	27004
RM1 Area	21164
RM1 Ratio (A)	0.7837
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.27
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__12

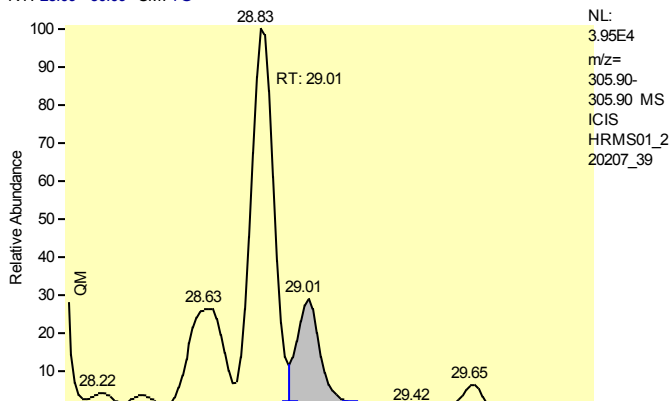
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



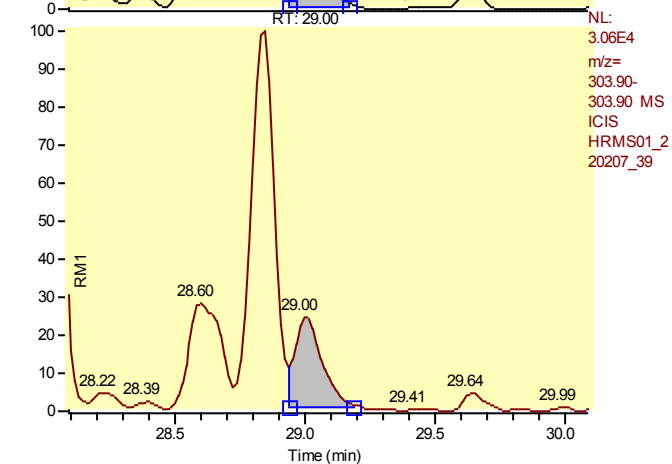
Chromatogram

Entry Parameters

RT: 28.09 - 30.09 SM: 7G

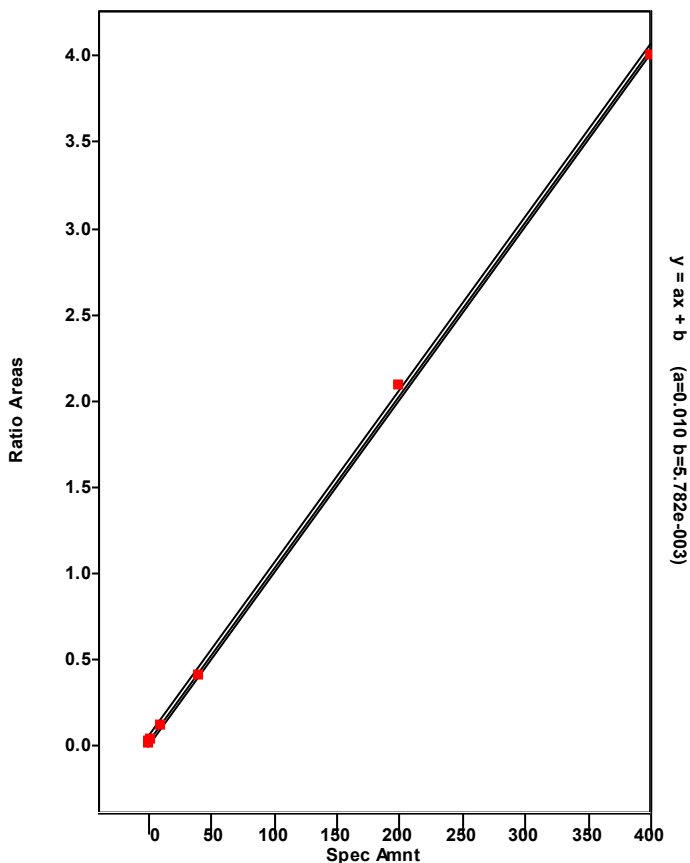


Entry Identifier	Total Tetrachlorodibenzofuran__13
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	70887
RM1 Area	52116
RM1 Ratio (A)	0.7352
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.24
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



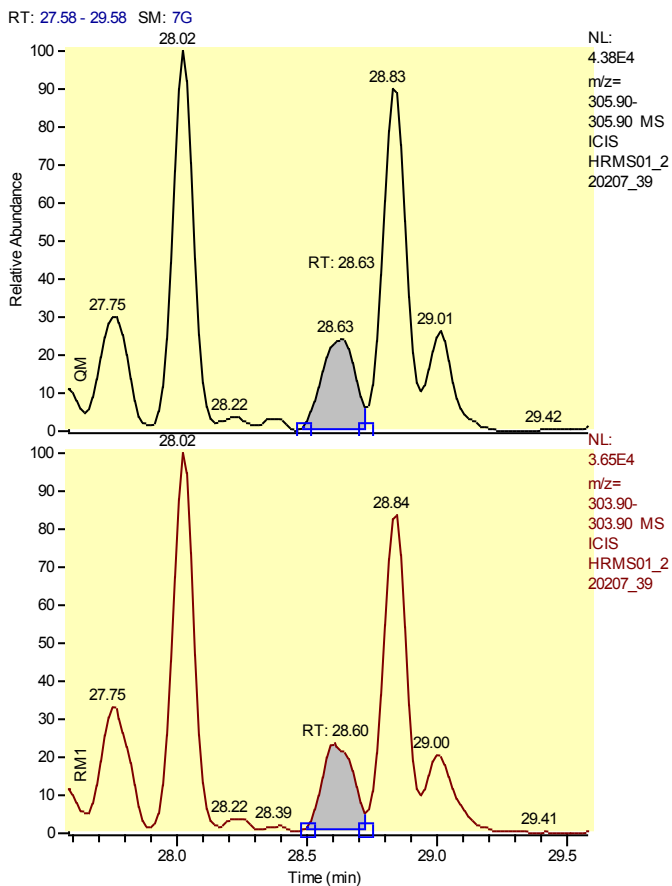
Calibration Points of Total Tetrachlorodibenzofuran__13

Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

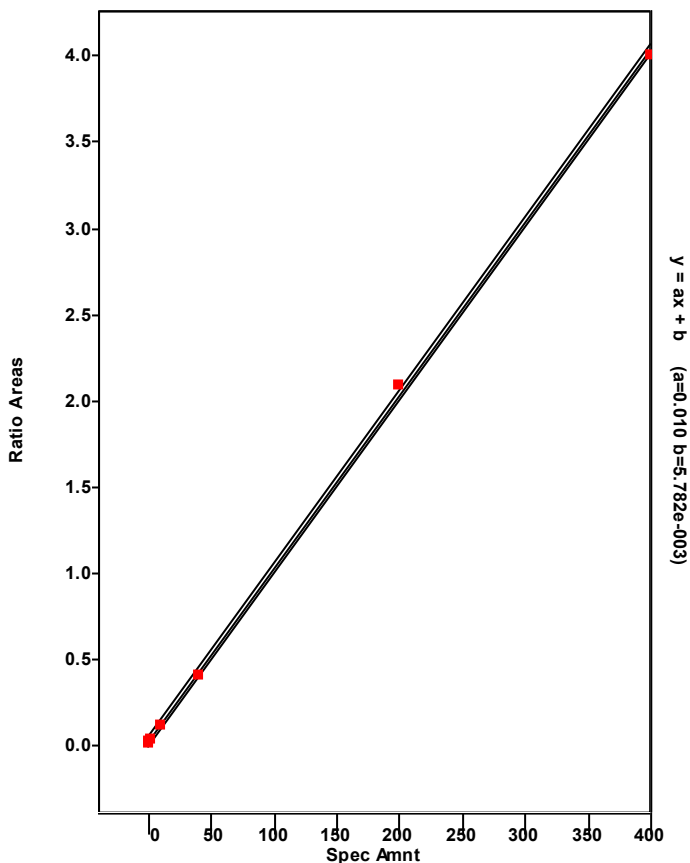
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzofuran__14
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	92923
RM1 Area	71331
RM1 Ratio (A)	0.7676
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.32
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__14

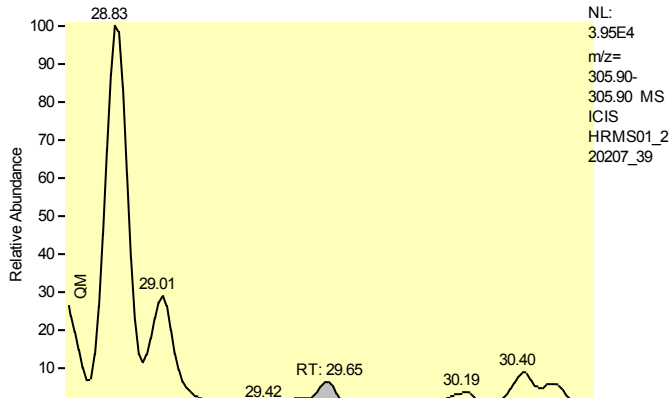
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

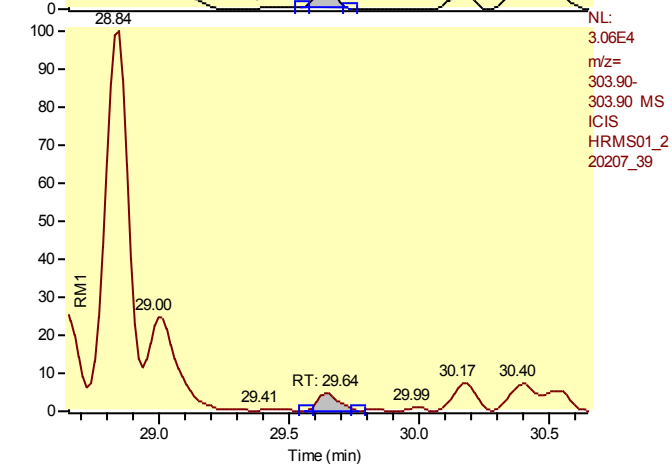
Entry Parameters

RT: 28.65 - 30.65 SM: 7G



NL:
 3.95E4
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_39

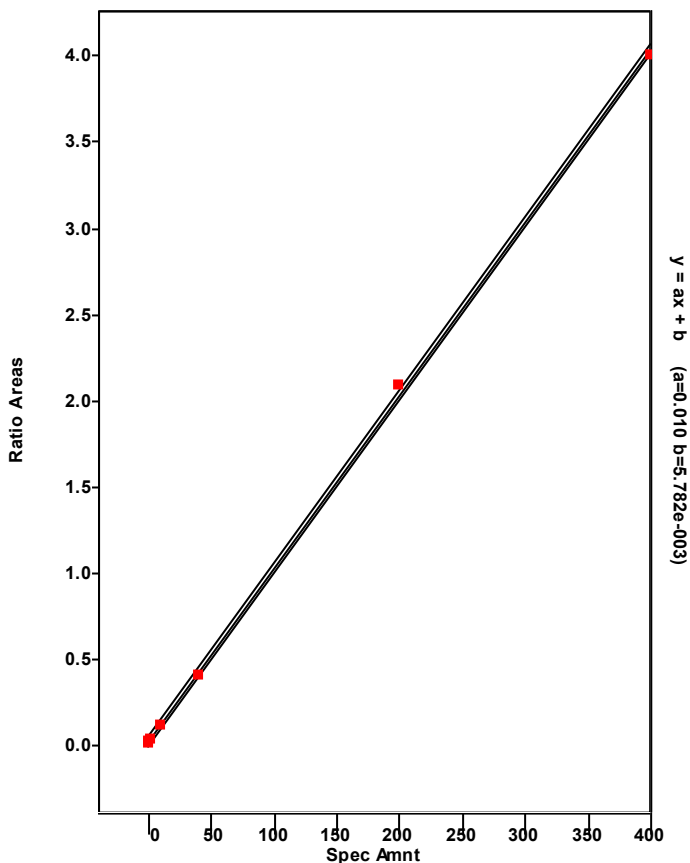
Entry Identifier	Total Tetrachlorodibenzofuran__15
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	12112
RM1 Area	7883
RM1 Ratio (A)	0.6508
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.53
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 3.06E4
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of Total Tetrachlorodibenzofuran__15

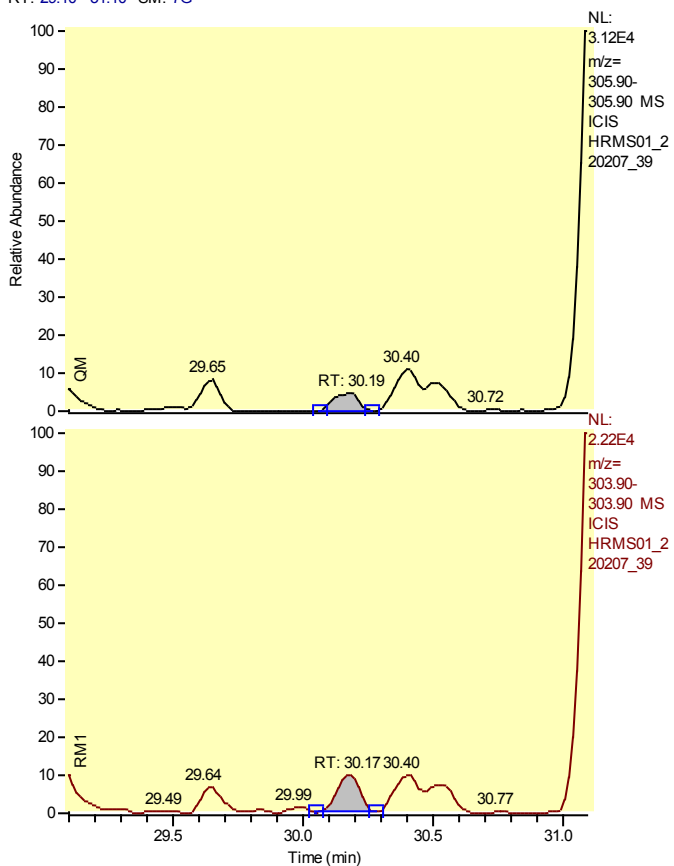
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

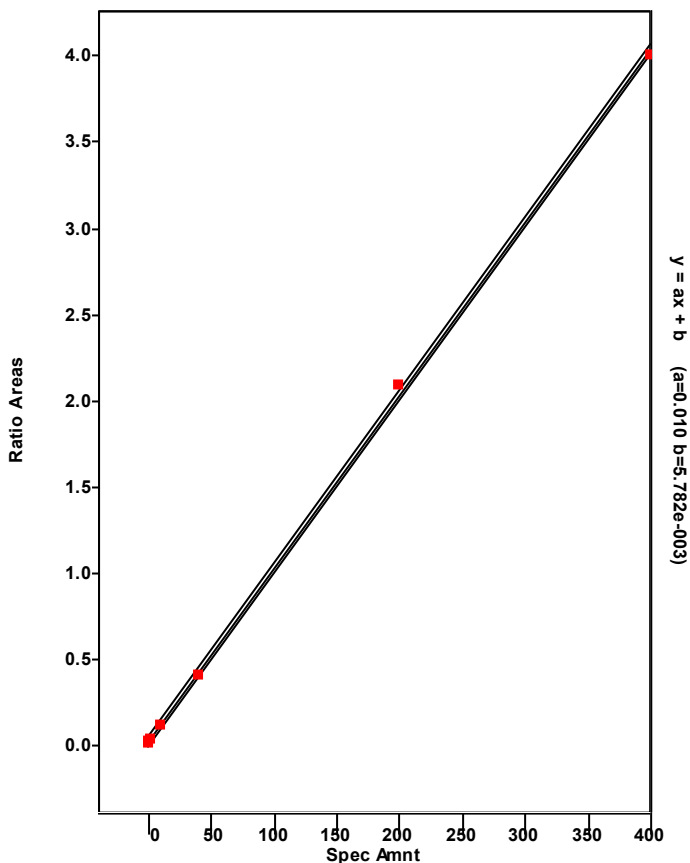
RT: 29.10 - 31.10 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__16
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	9652
RM1 Area	13090
RM1 Ratio (A)	1.3562
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.60
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__16

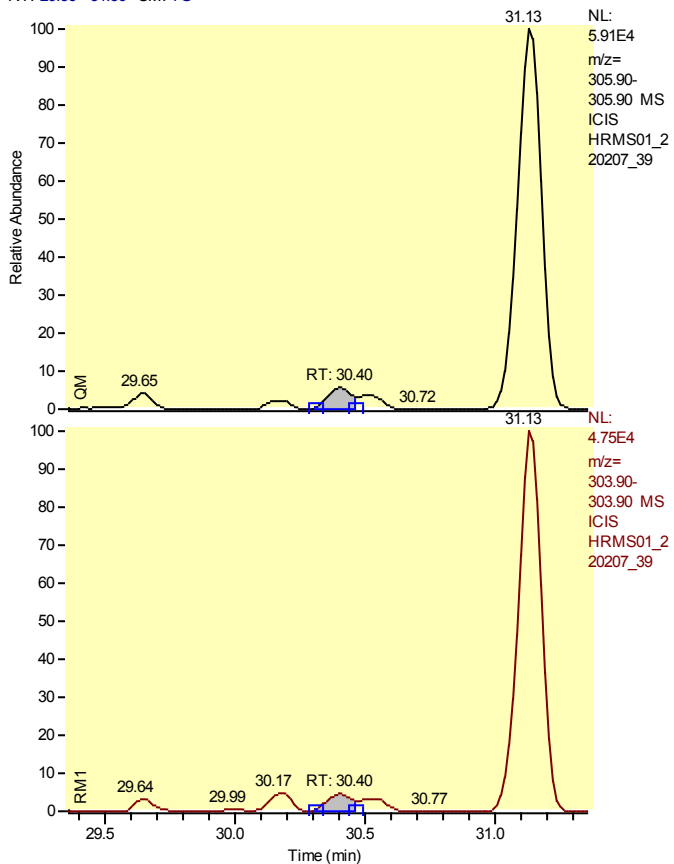
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

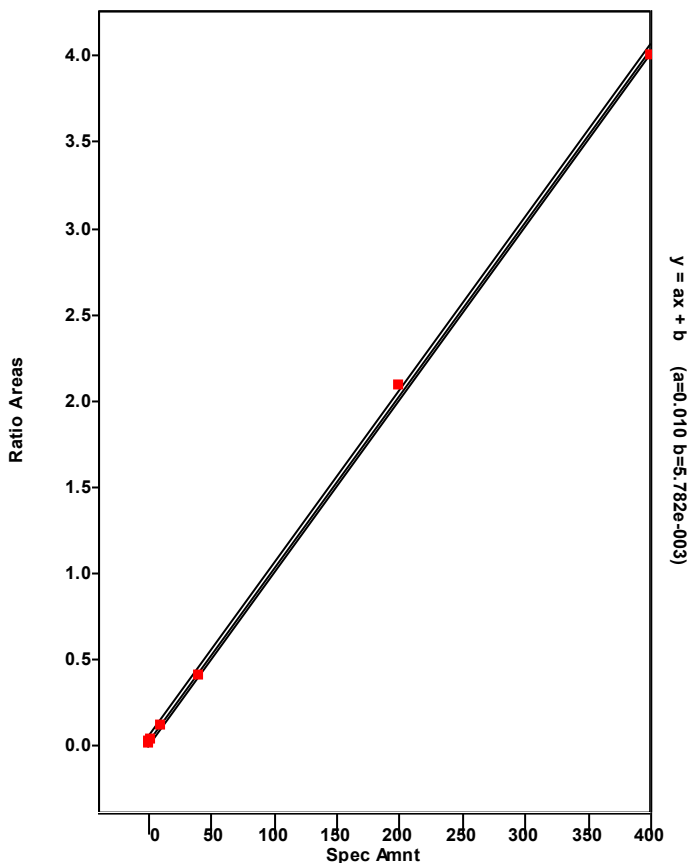
RT: 29.36 - 31.36 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__17
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	19473
RM1 Area	12956
RM1 Ratio (A)	0.6653
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.85
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__17

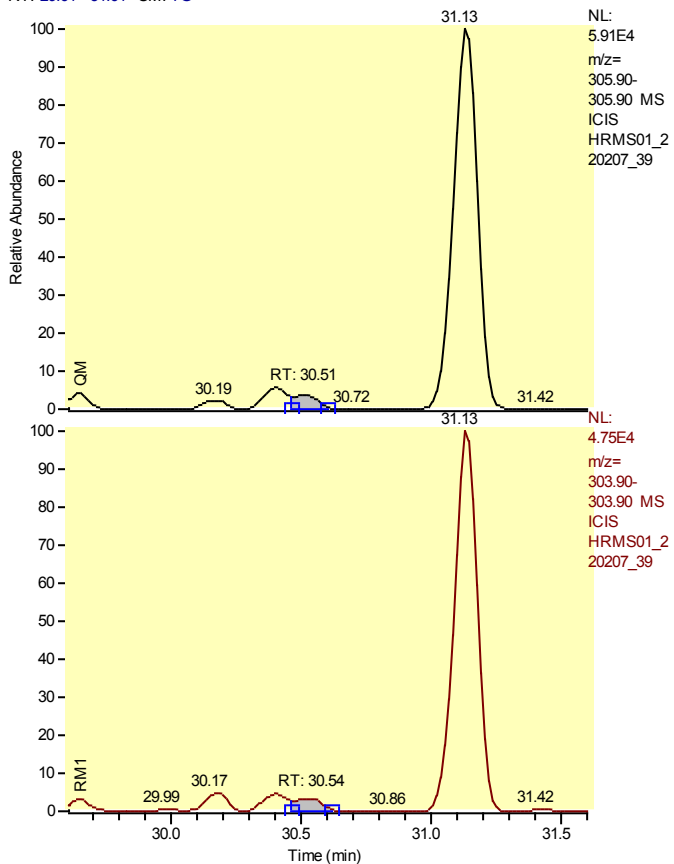
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

Entry Parameters

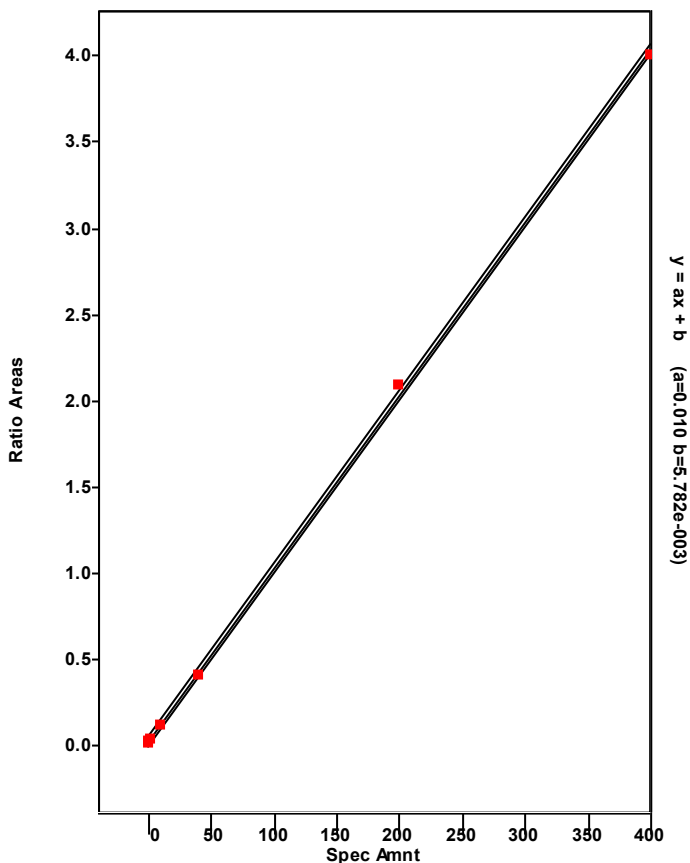
RT: 29.61 - 31.61 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__18
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	13071
RM1 Area	10469
RM1 Ratio (A)	0.8009
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.62
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__18

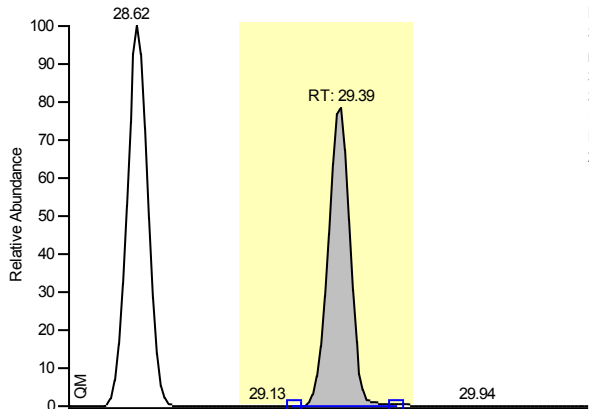
Linear Fit: StdDev = 0.027 RSD = 2.811 CF = 0.999704



Chromatogram

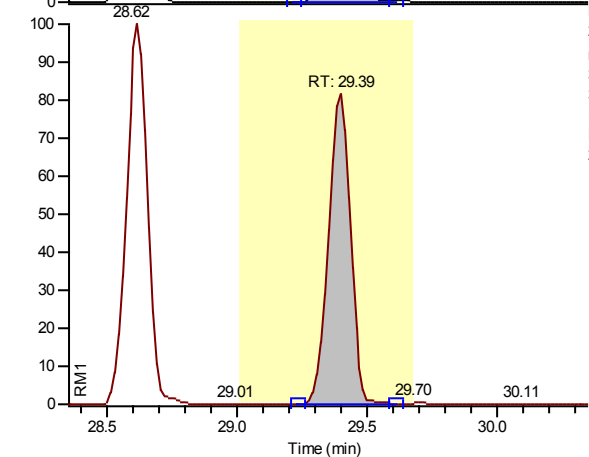
Entry Parameters

RT: 28.35 - 30.35 SM: 7G



NL:
 3.08E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_39

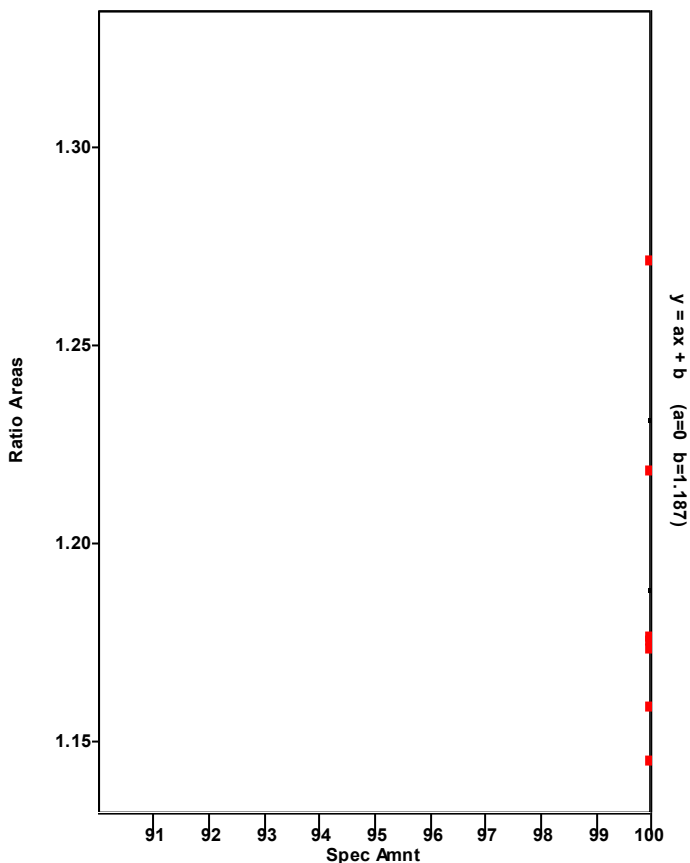
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1434205
RM1 Area	1153829
RM1 Ratio (A)	0.8045
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	67.30
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	



NL:
 2.37E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

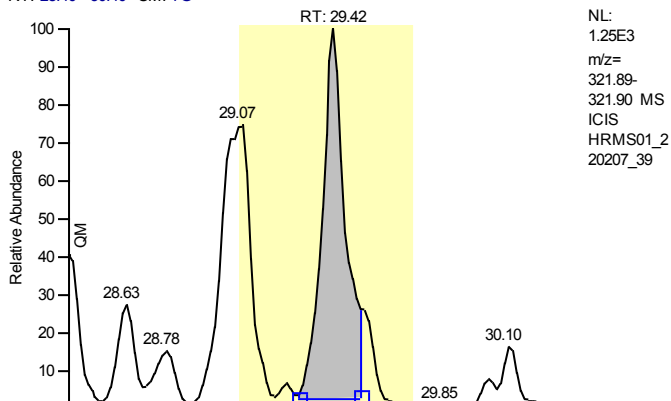
Linear Fit: StdDev = 0.043 RSD = 3.620 CF = 0.000000



Chromatogram

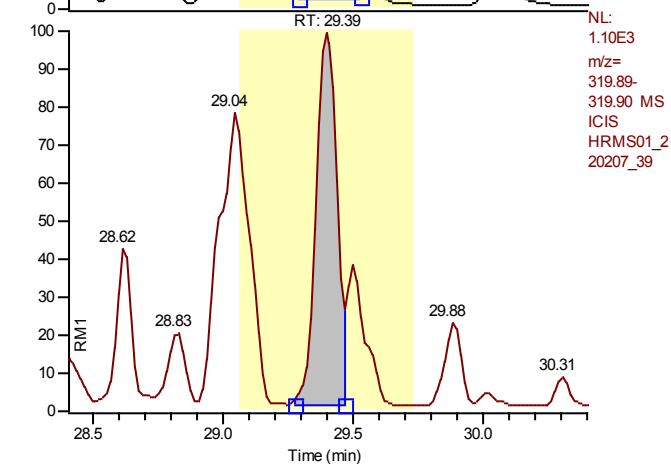
Entry Parameters

RT: 28.40 - 30.40 SM: 7G



NL:
 1.25E3
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20207_39

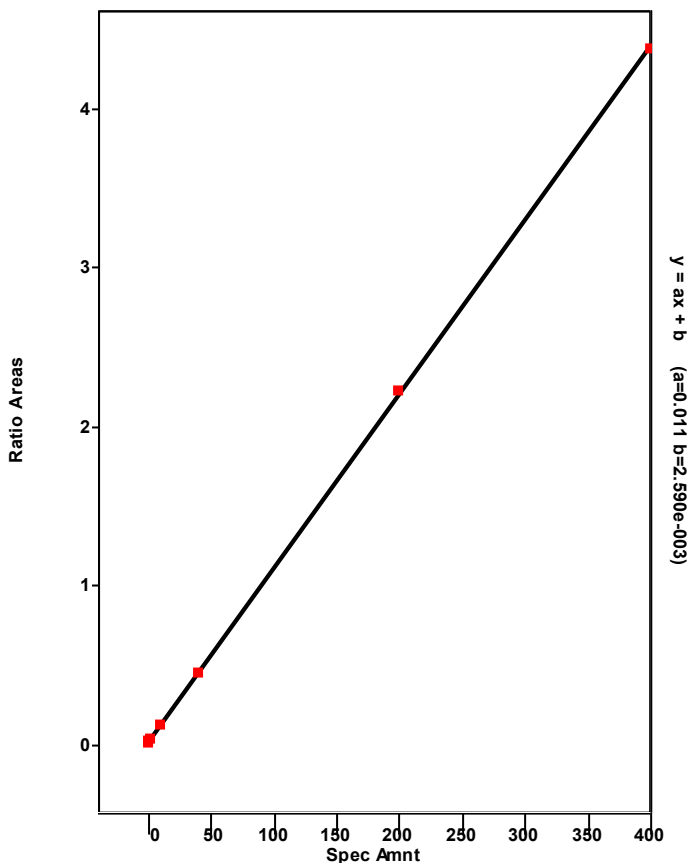
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	7853
RM1 Area	6429
RM1 Ratio (A)	0.8186
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.50
Percent Recovery (A)	---
TEQ (A)	0.5007
Label2	



NL:
 1.10E3
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

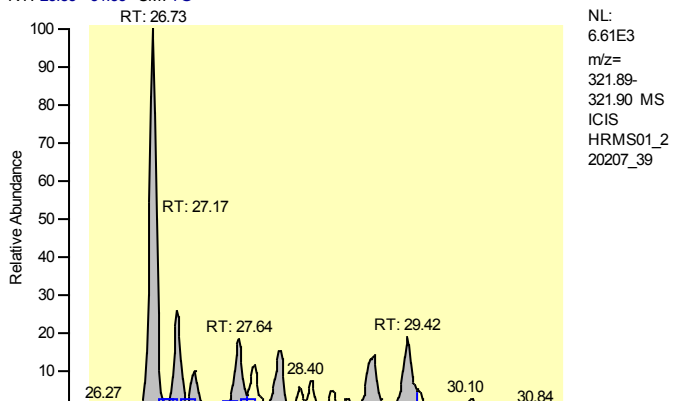
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



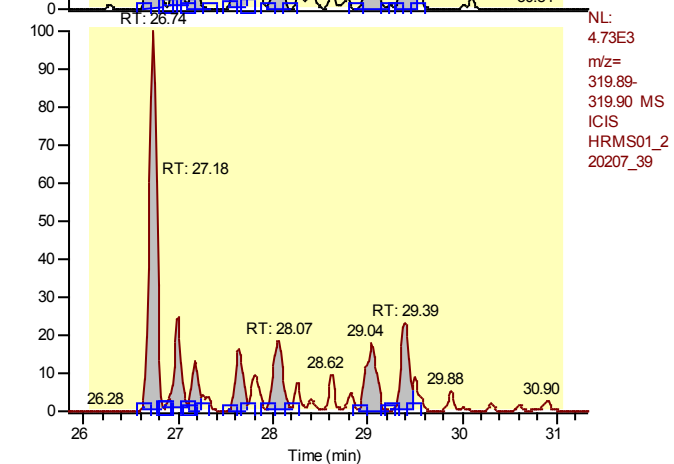
Chromatogram

Entry Parameters

RT: 25.83 - 31.33 SM: 7G

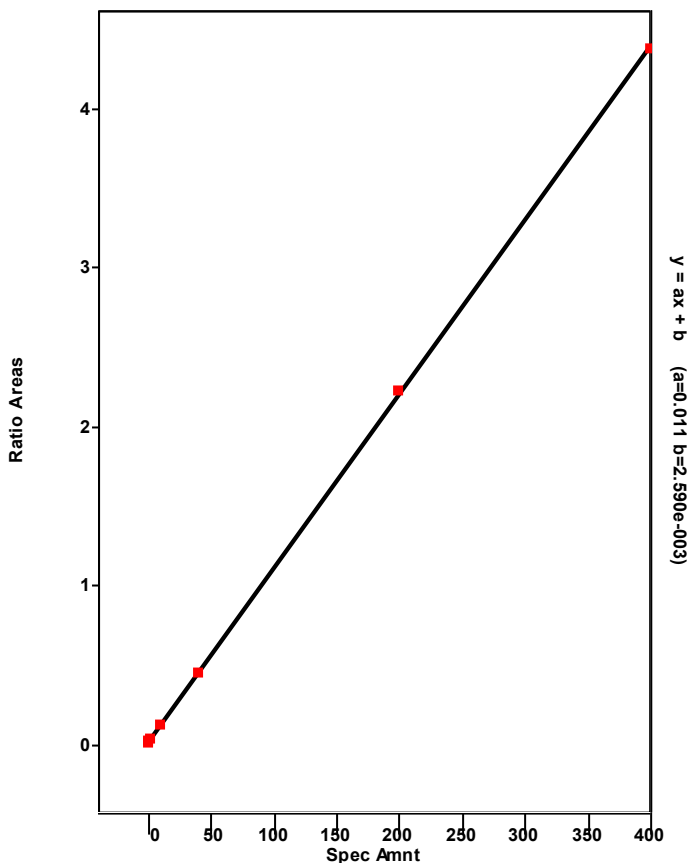


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	73145
RM1 Area	58041
RM1 Ratio (A)	0.7557
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.60
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzo-p-dioxin

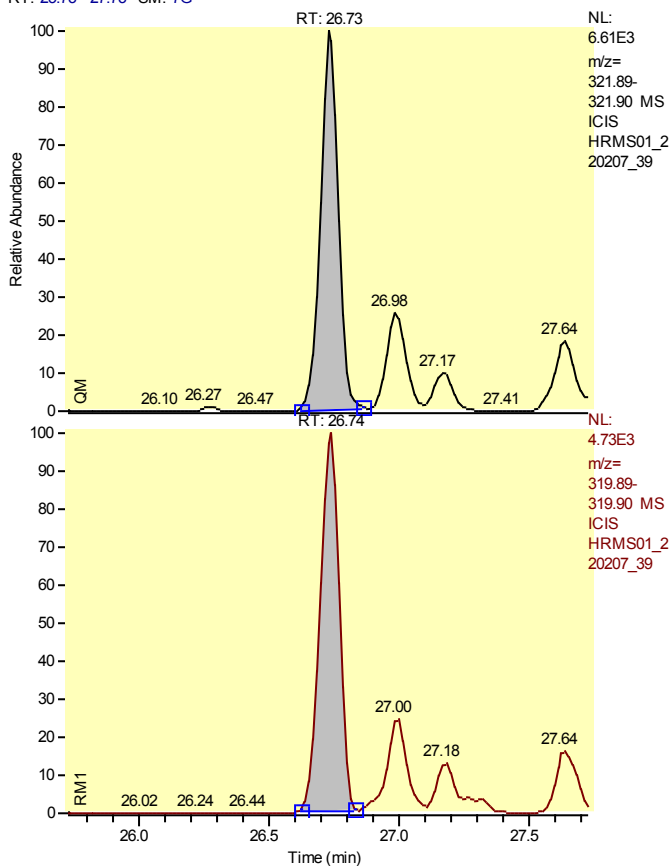
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

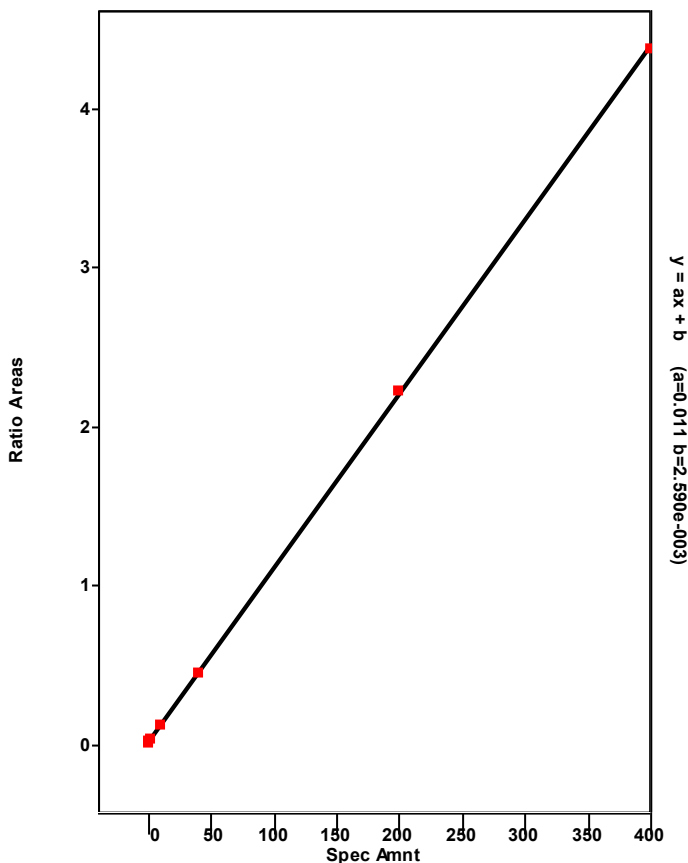
RT: 25.73 - 27.73 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	33419
RM1 Area	25857
RM1 Ratio (A)	0.7737
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.08
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

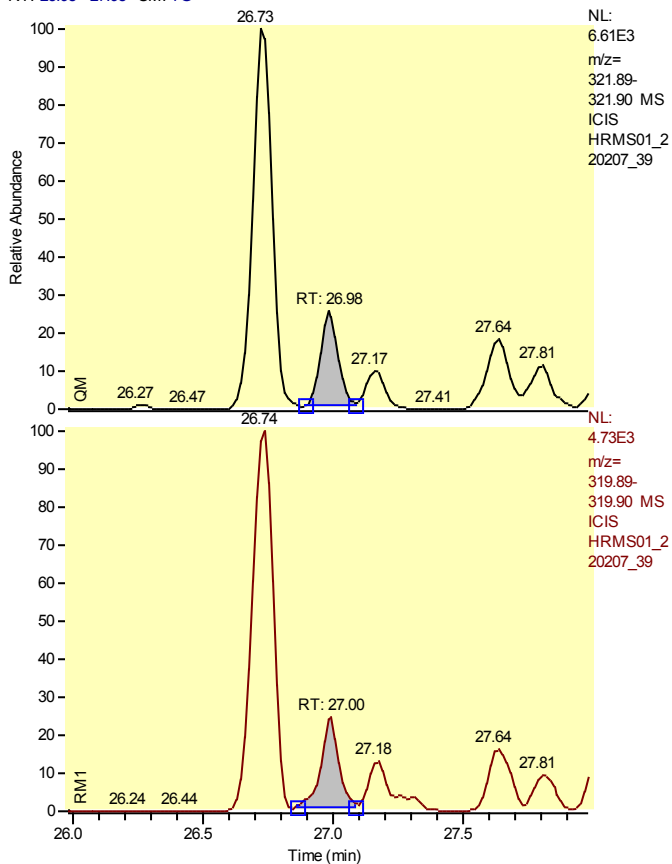
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

RT: 25.98 - 27.98 SM: 7G



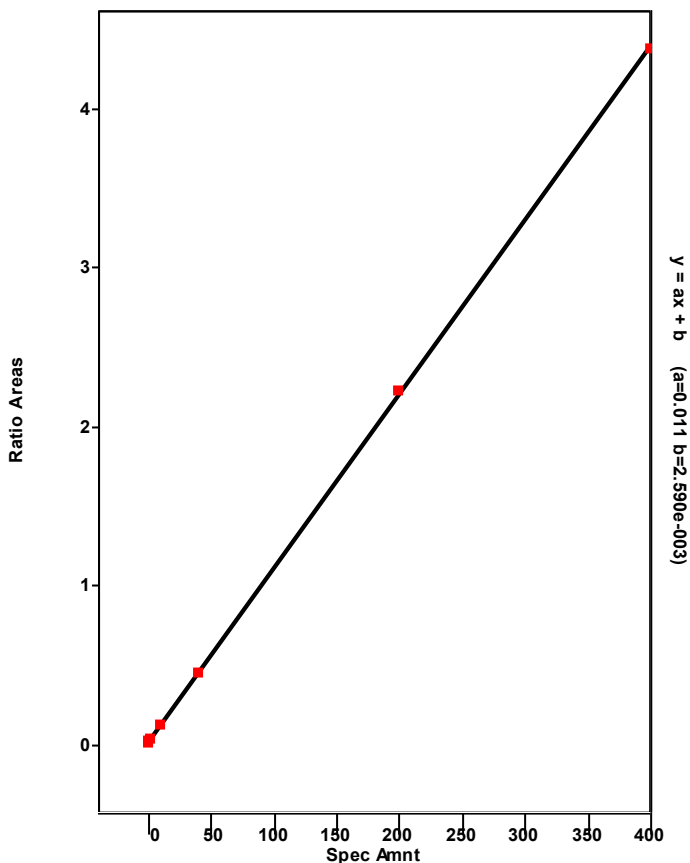
NL:
6.61E3
m/z=
321.89-
321.90 MS
ICIS
HRMS01_2
20207_39

NL:
4.73E3
m/z=
319.89-
319.90 MS
ICIS
HRMS01_2
20207_39

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	8281
RM1 Area	5764
RM1 Ratio (A)	0.6961
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.49
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

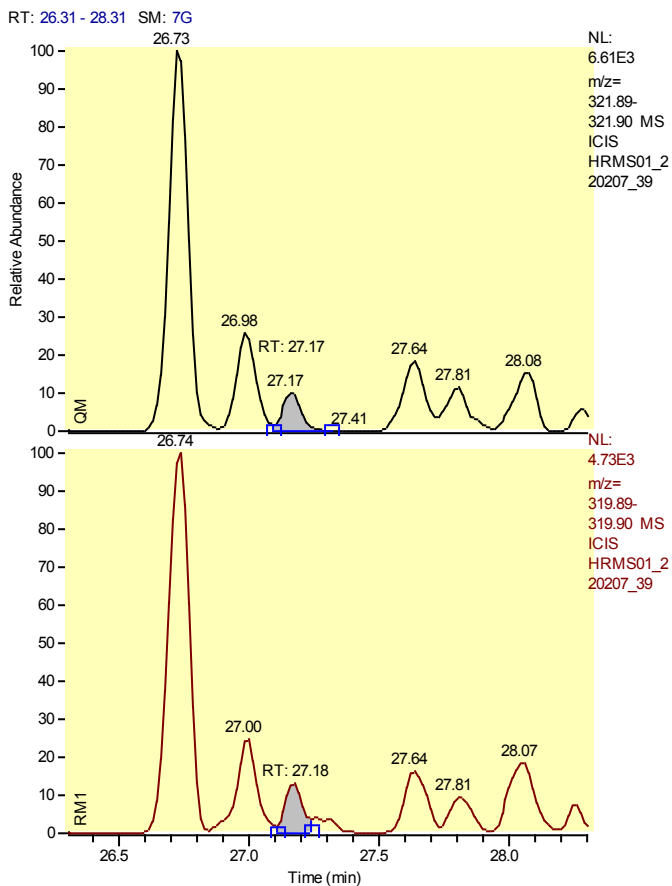
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

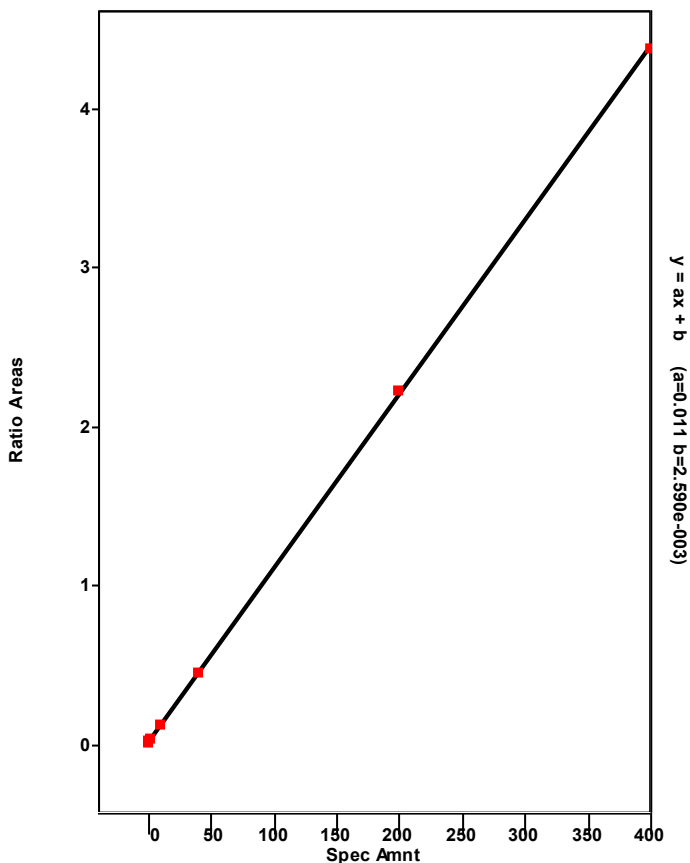
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	3428
RM1 Area	2828
RM1 Ratio (A)	0.8249
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

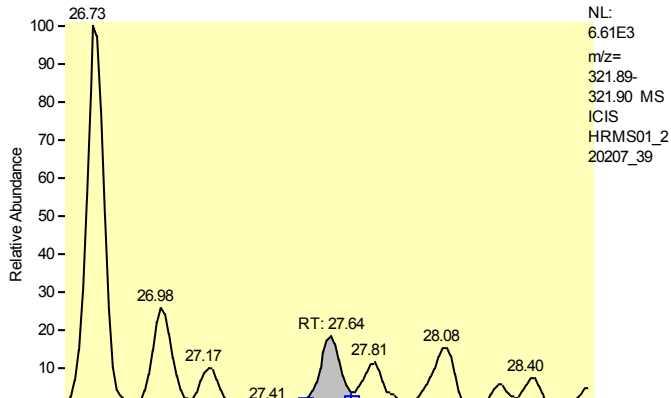
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



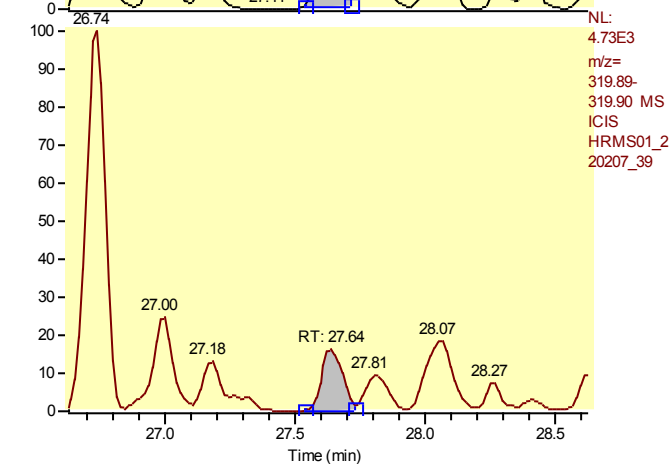
Chromatogram

Entry Parameters

RT: 26.63 - 28.63 SM: 7G

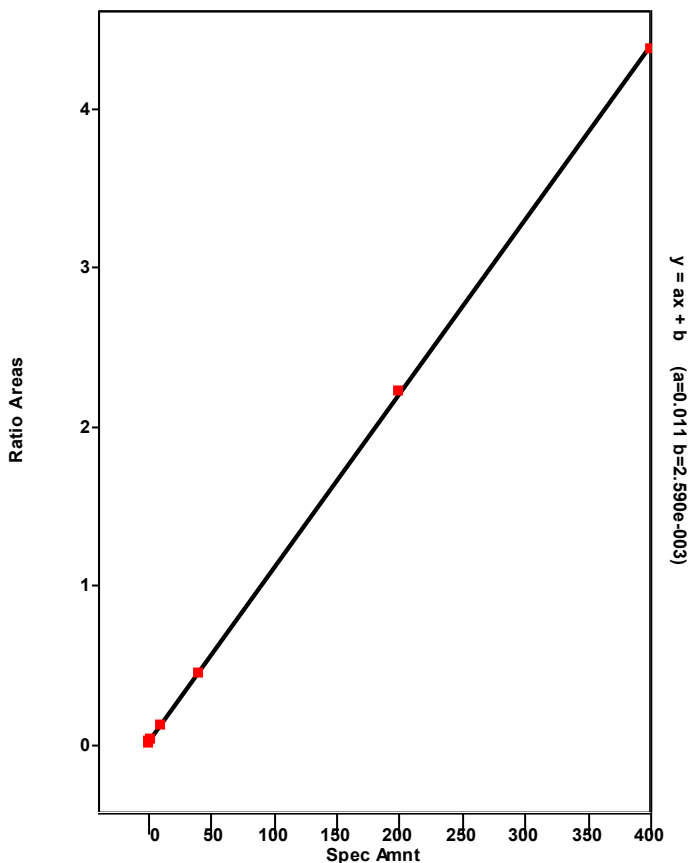


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	6626
RM1 Area	4390
RM1 Ratio (A)	0.6626
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



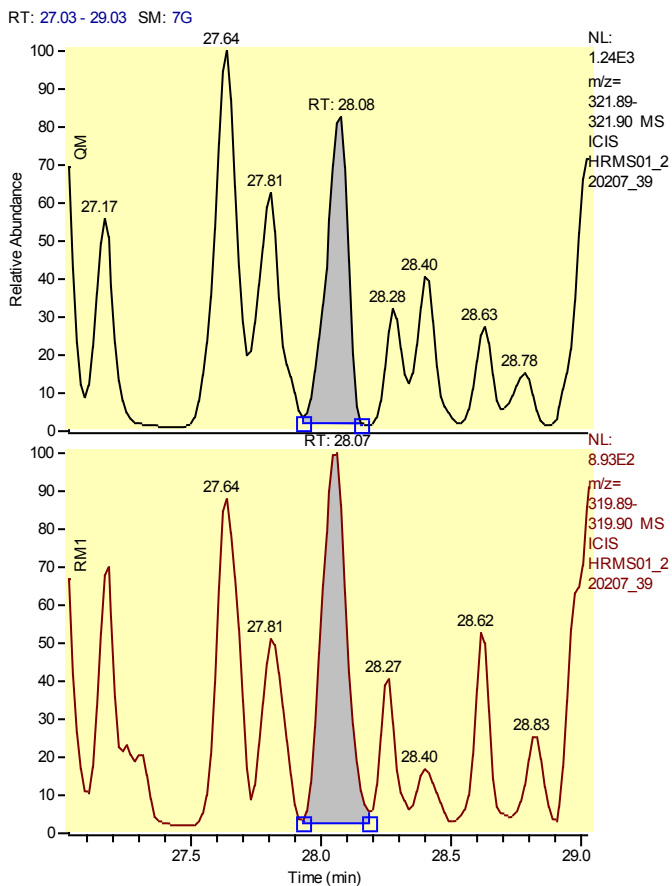
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

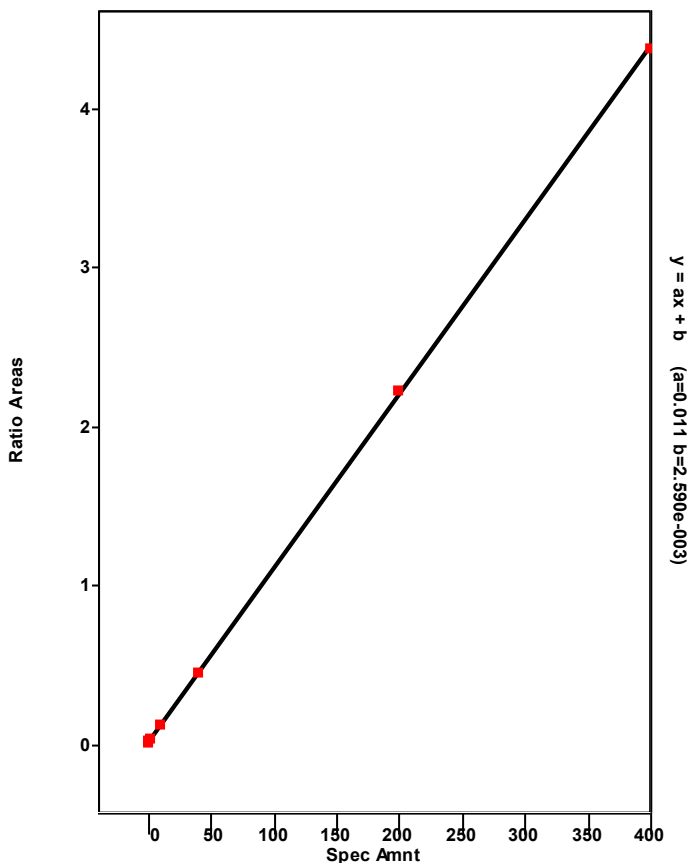
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	6088
RM1 Area	6059
RM1 Ratio (A)	0.9953
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.43
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

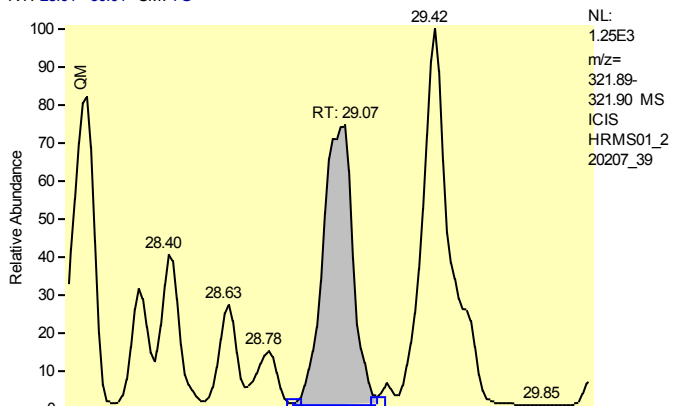
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



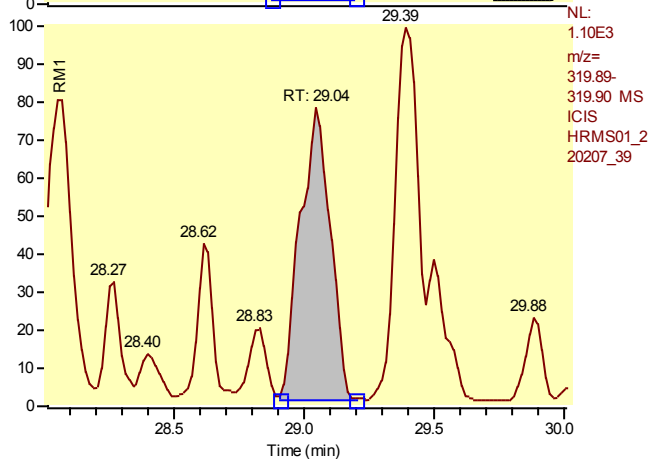
Chromatogram

Entry Parameters

RT: 28.01 - 30.01 SM: 7G

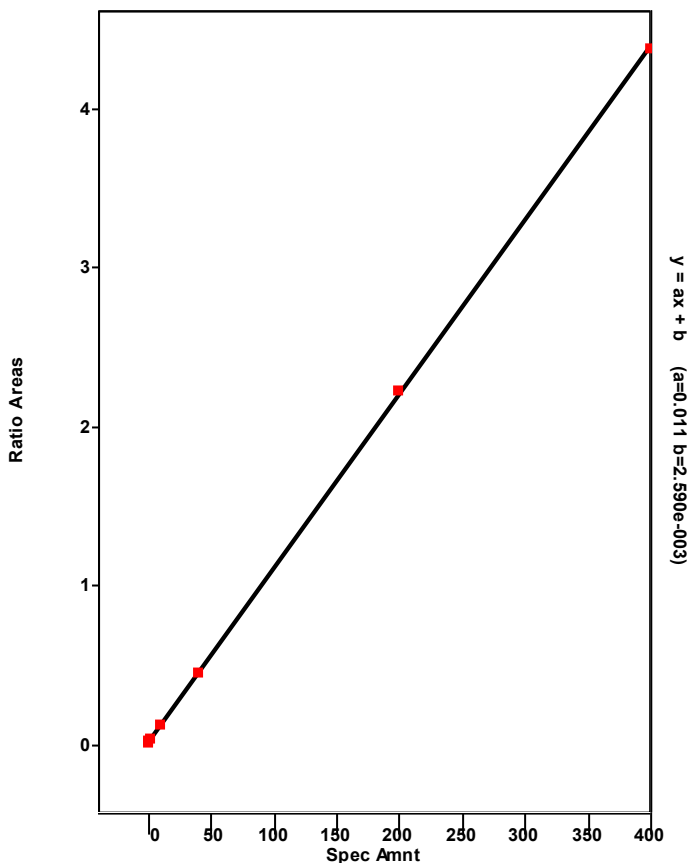


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__6
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	7301
RM1 Area	6824
RM1 Ratio (A)	0.9347
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.50
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of Total Tetrachlorodibenzo-p-dioxin__6

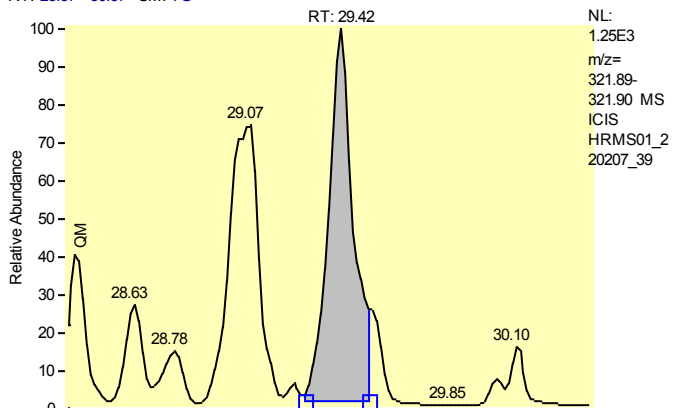
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



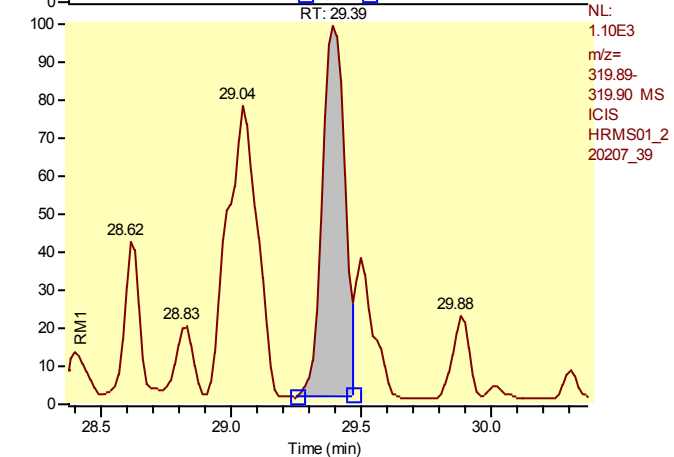
Chromatogram

Entry Parameters

RT: 28.37 - 30.37 SM: 7G

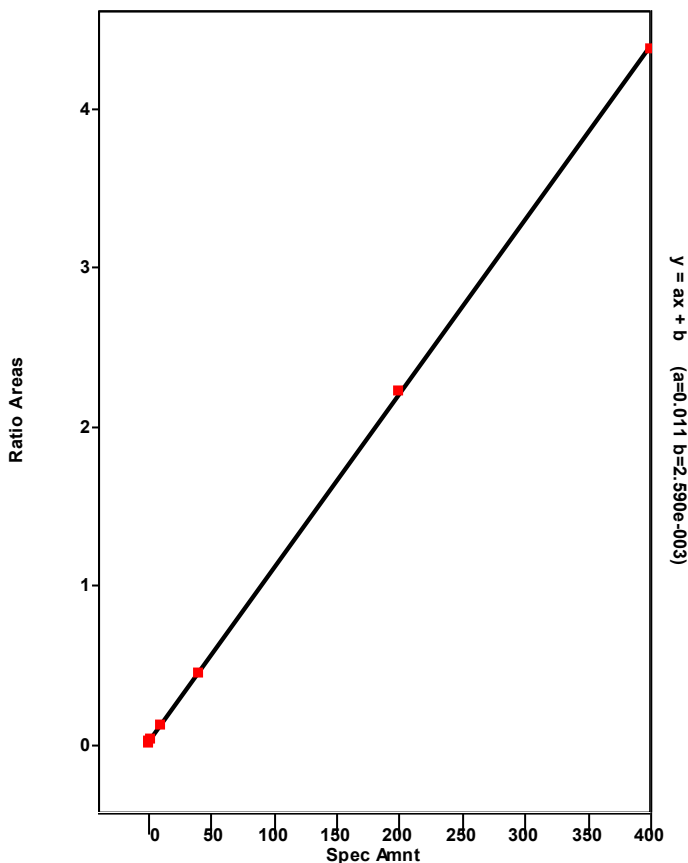


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__7
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	8003
RM1 Area	6317
RM1 Ratio (A)	0.7894
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.50
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzo-p-dioxin__7

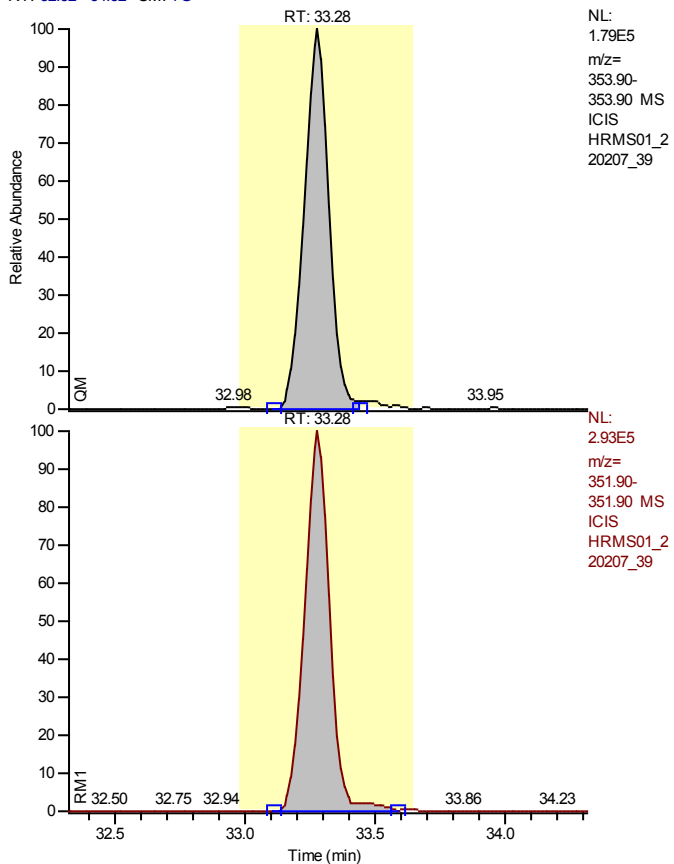
Linear Fit: StdDev = 0.011 RSD = 1.085 CF = 0.999956



Chromatogram

Entry Parameters

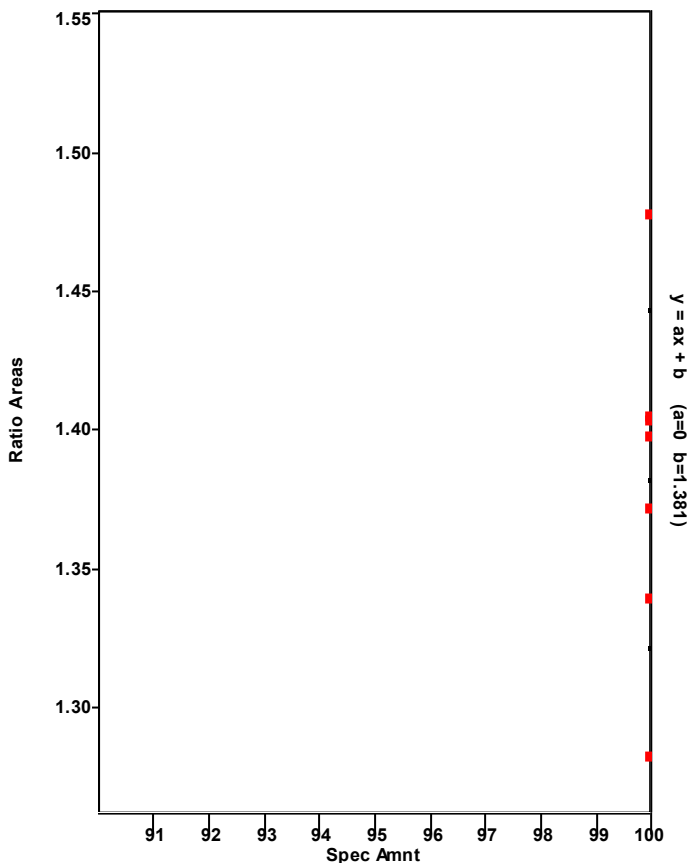
RT: 32.32 - 34.32 SM: 7G



Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1196059
RM1 Area	1988367
RM1 Ratio (A)	1.6624
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	71.18
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

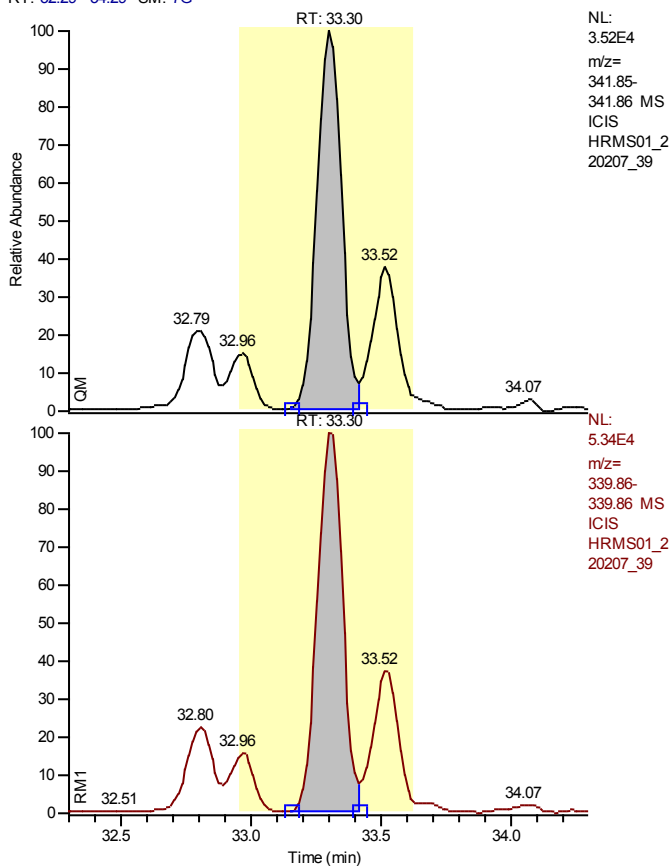
Linear Fit: StdDev = 0.061 RSD = 4.419 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.29 - 34.29 SM: 7G



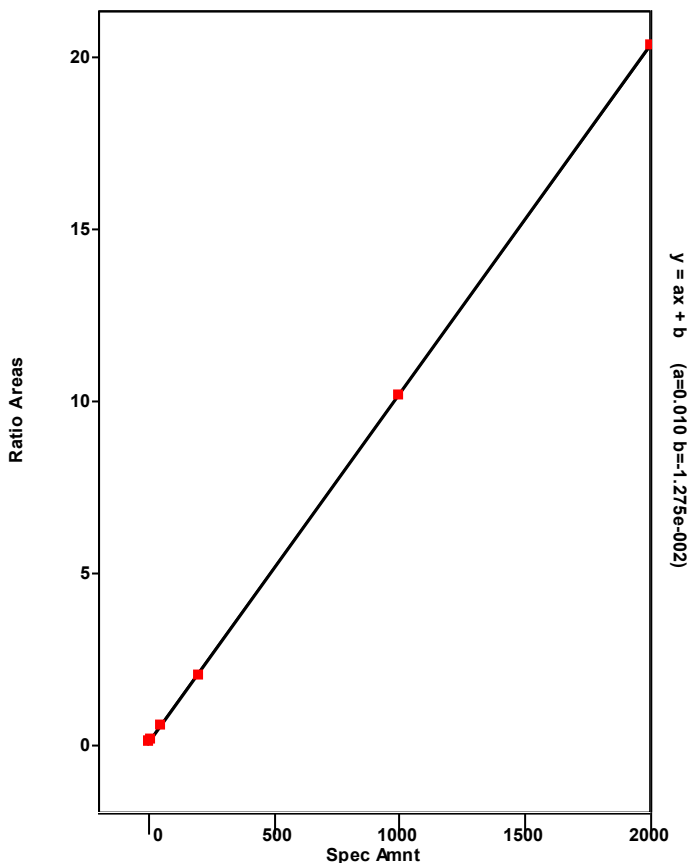
NL:
 3.52E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 5.34E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	225598
RM1 Area	352192
RM1 Ratio (A)	1.5612
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	18.04
Percent Recovery (A)	---
TEQ (A)	0.5411
Label2	

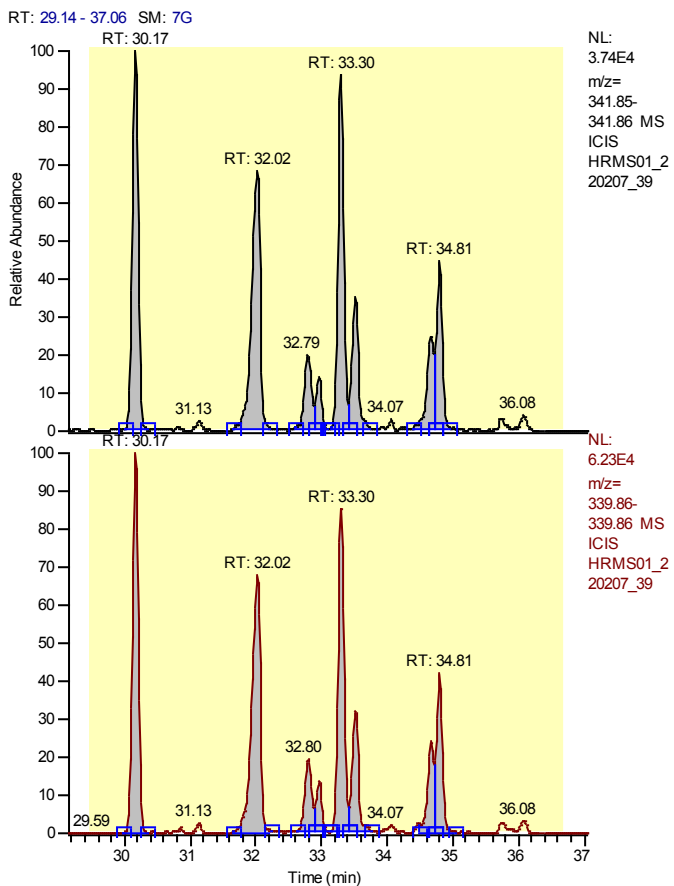
Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

Linear Fit: StdDev = 0.022 RSD = 0.475 CF = 0.999992



Chromatogram

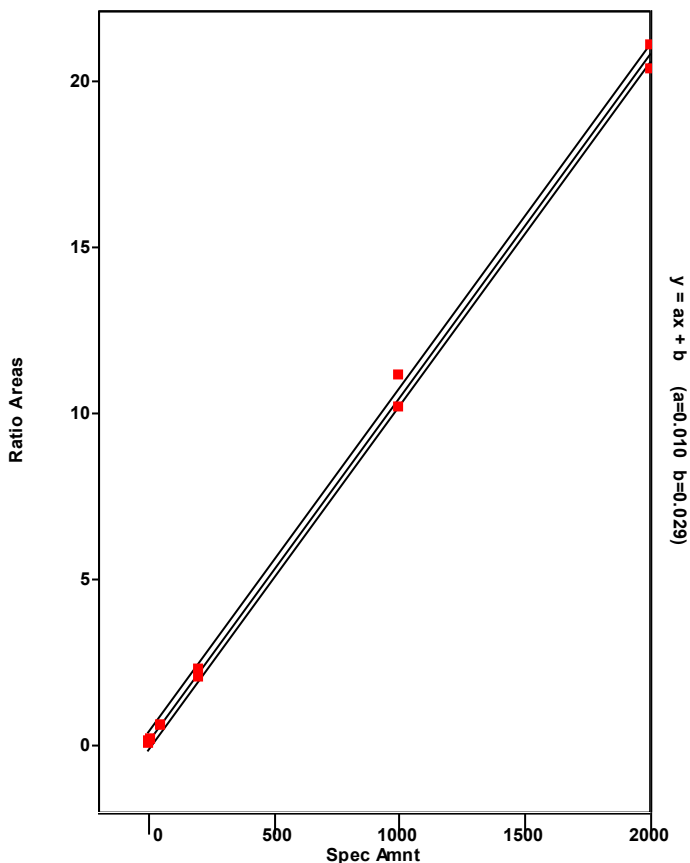
Entry Parameters



Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	1045626
RM1 Area	1668361
RM1 Ratio (A)	1.5956
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	80.44
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran

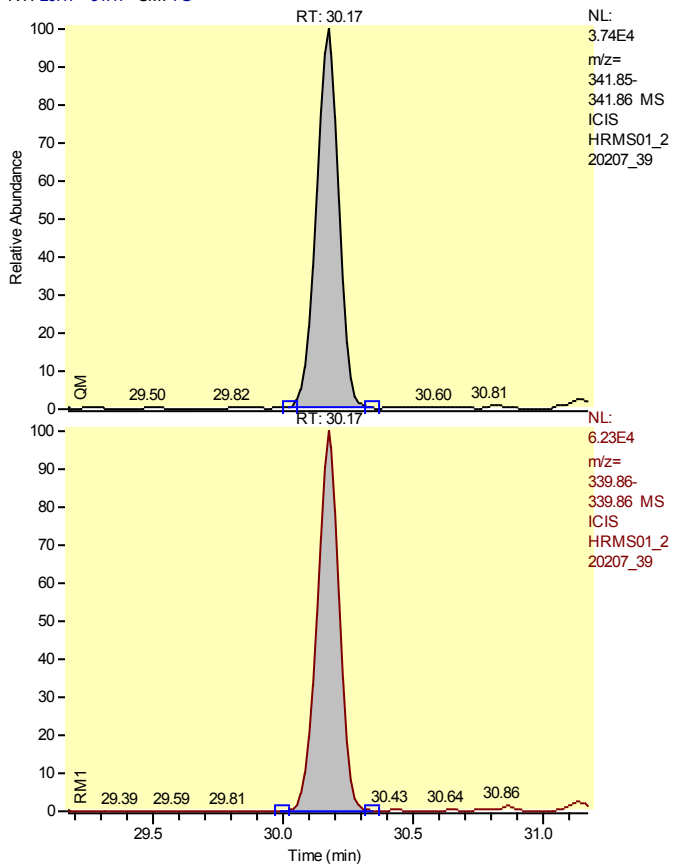
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

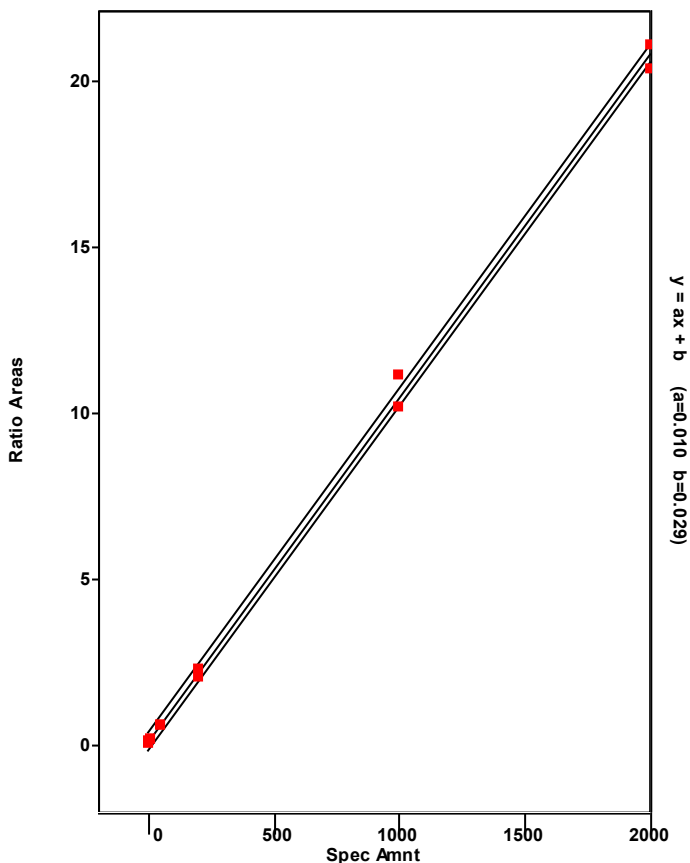
RT: 29.17 - 31.17 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	236804
RM1 Area	388218
RM1 Ratio (A)	1.6394
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	18.53
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

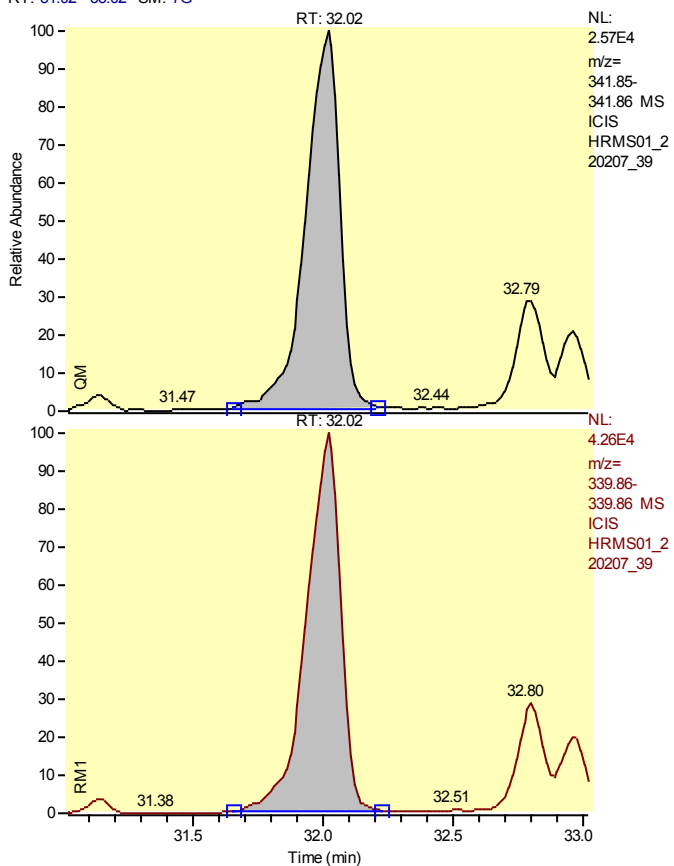
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

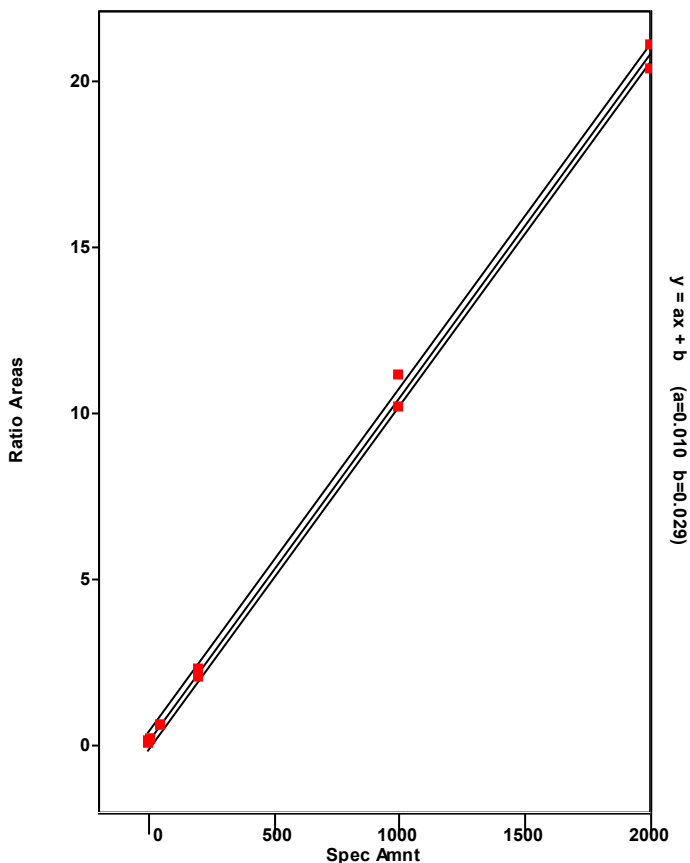
RT: 31.02- 33.02 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	232513
RM1 Area	384903
RM1 Ratio (A)	1.6554
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	18.30
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__2

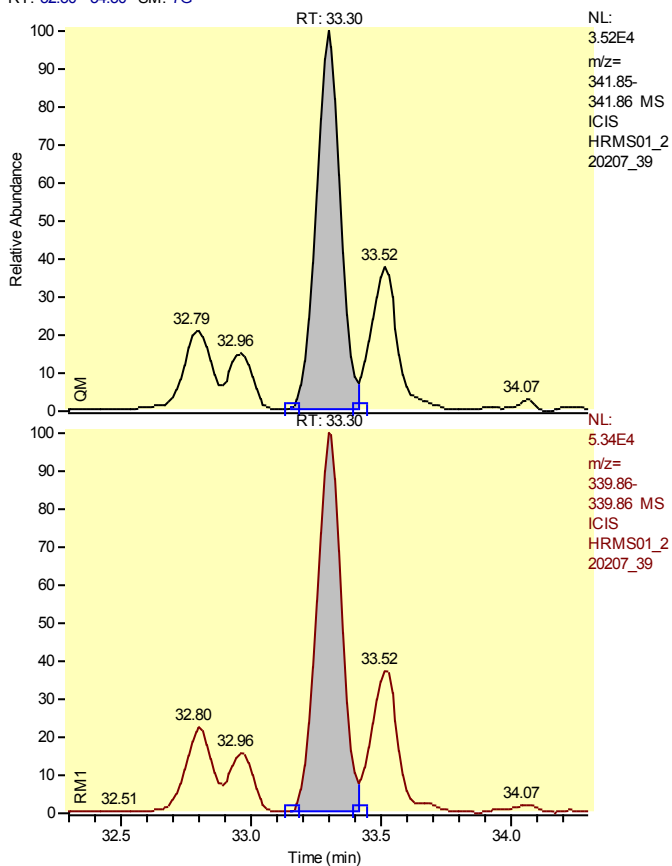
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

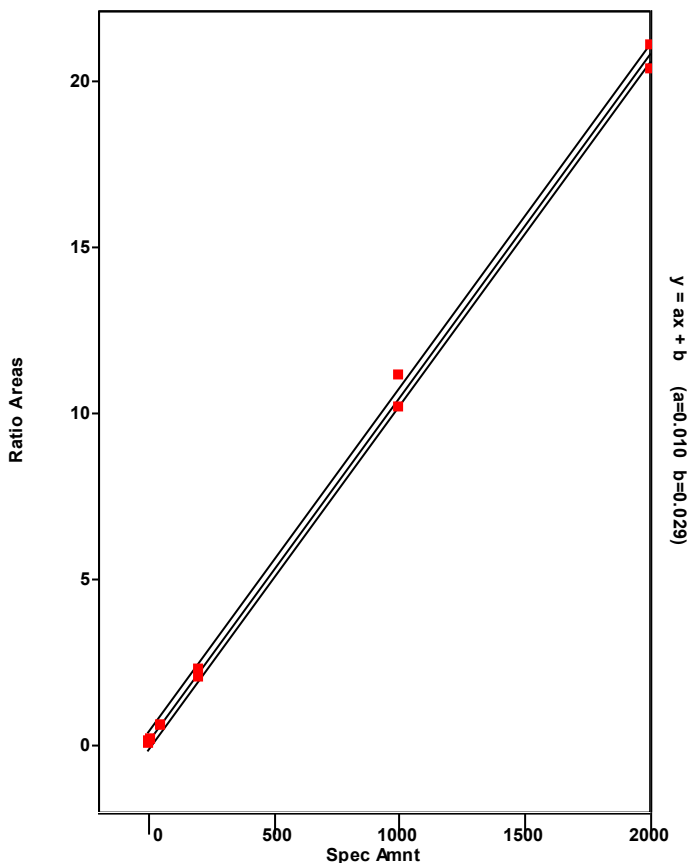
RT: 32.30 - 34.30 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	225598
RM1 Area	352192
RM1 Ratio (A)	1.5612
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	17.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__3

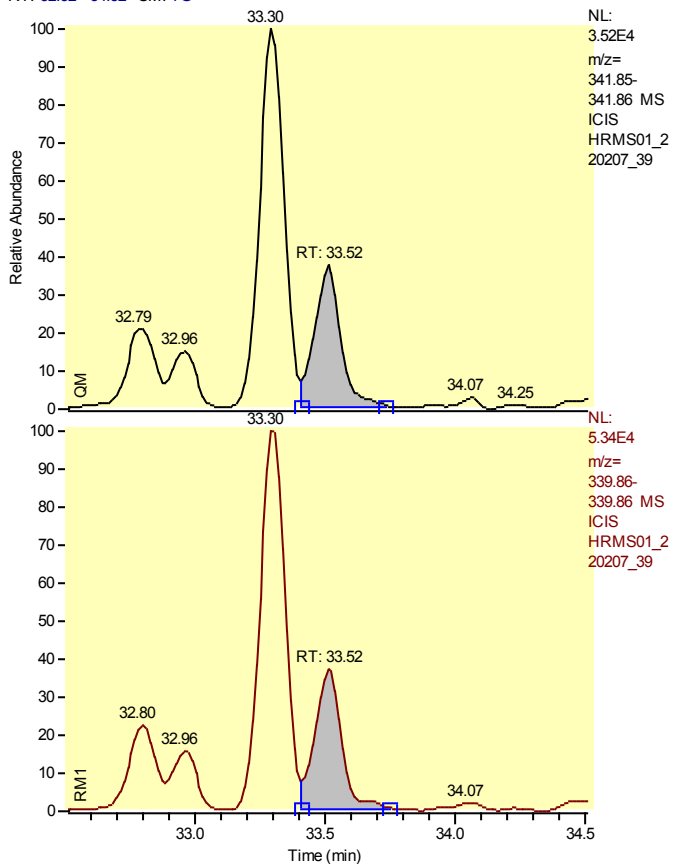
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

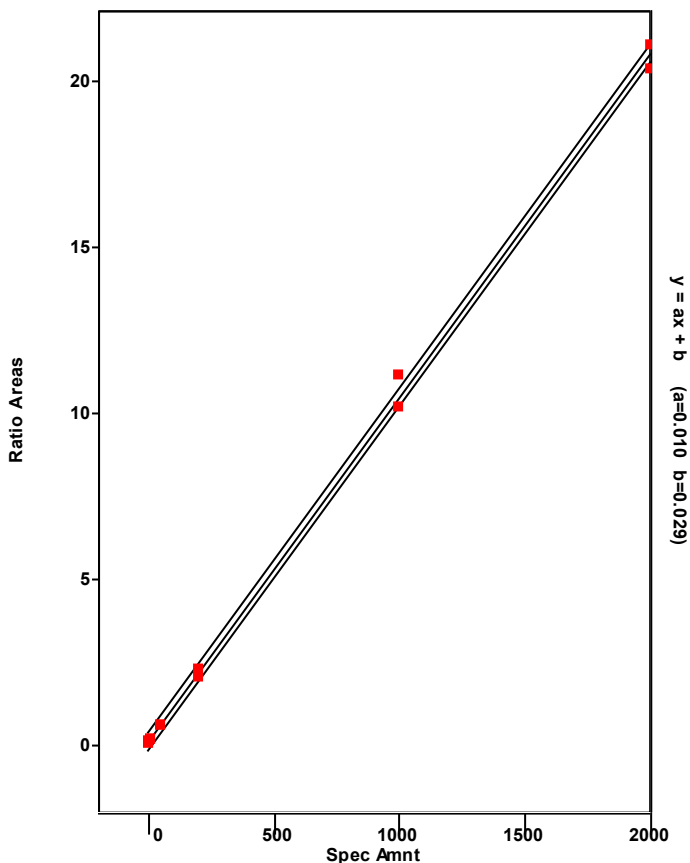
RT: 32.52 - 34.52 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	91273
RM1 Area	139541
RM1 Ratio (A)	1.5288
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	6.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__4

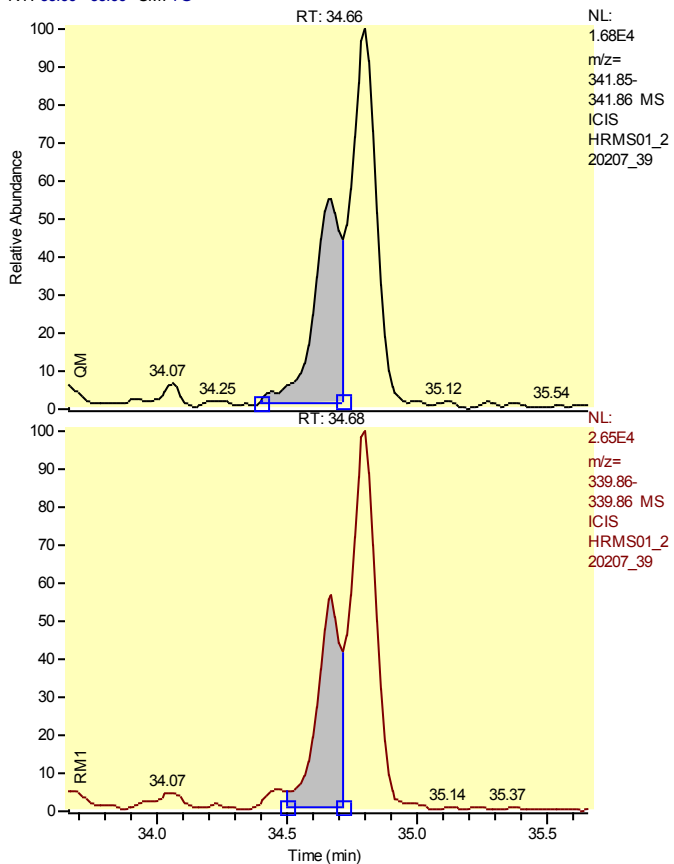
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

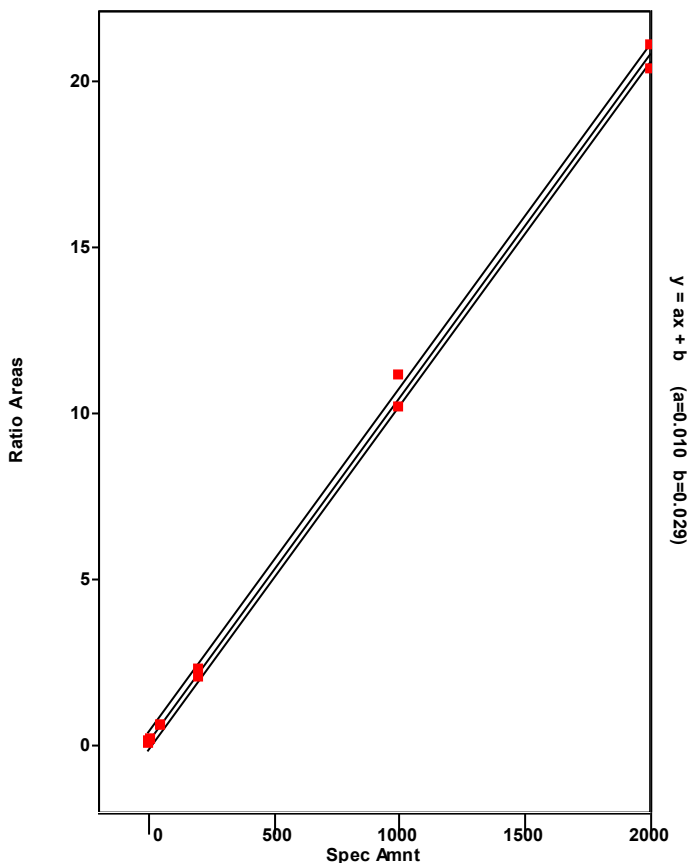
RT: 33.66 - 35.66 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__5
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	64507
RM1 Area	92157
RM1 Ratio (A)	1.4286
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	4.64
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__5

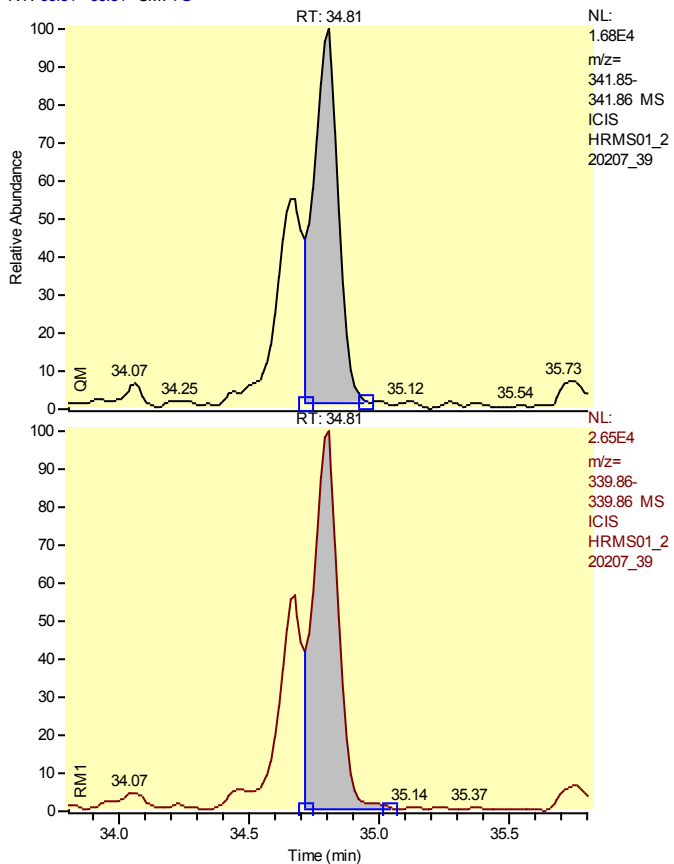
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

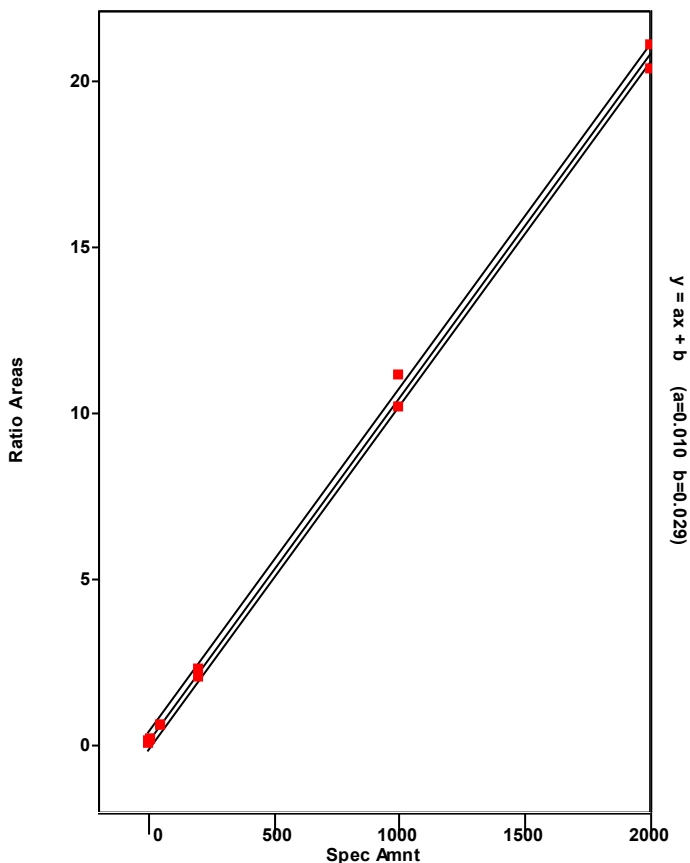
RT: 33.81 - 35.81 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__6
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	108915
RM1 Area	175004
RM1 Ratio (A)	1.6068
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	8.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__6

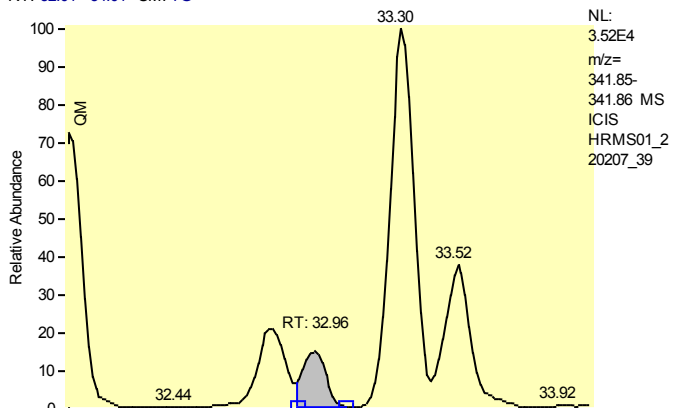
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



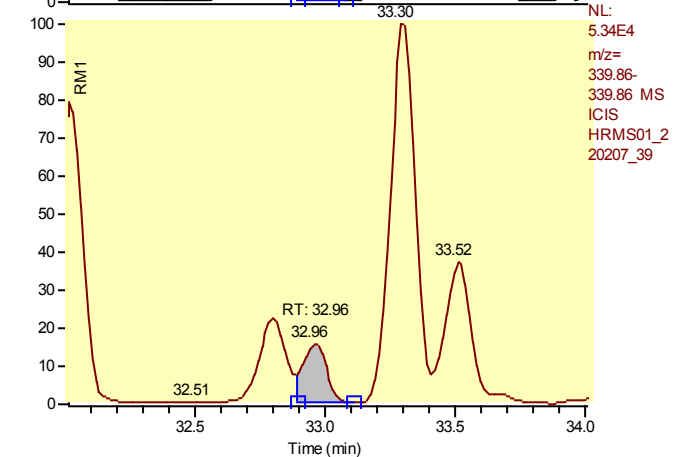
Chromatogram

Entry Parameters

RT: 32.01 - 34.01 SM: 7G

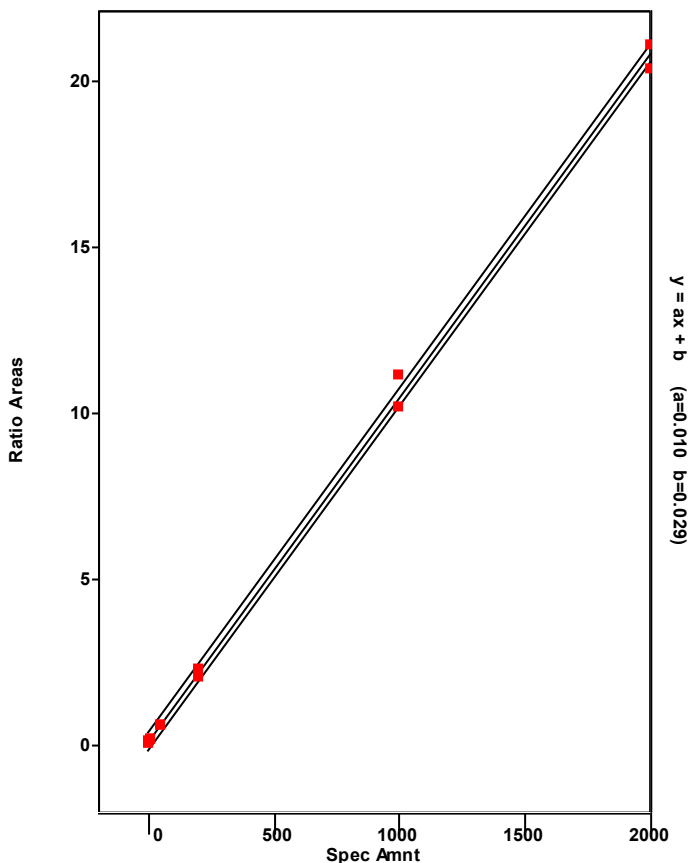


Entry Identifier	Total Pentachlorodibenzofuran__7
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	32643
RM1 Area	52758
RM1 Ratio (A)	1.6162
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.53
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzofuran__7

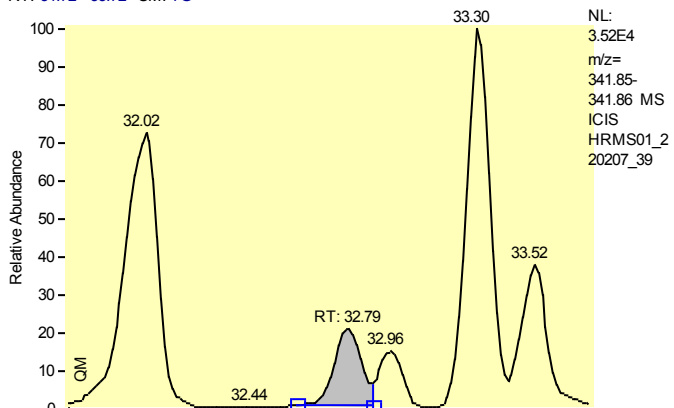
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



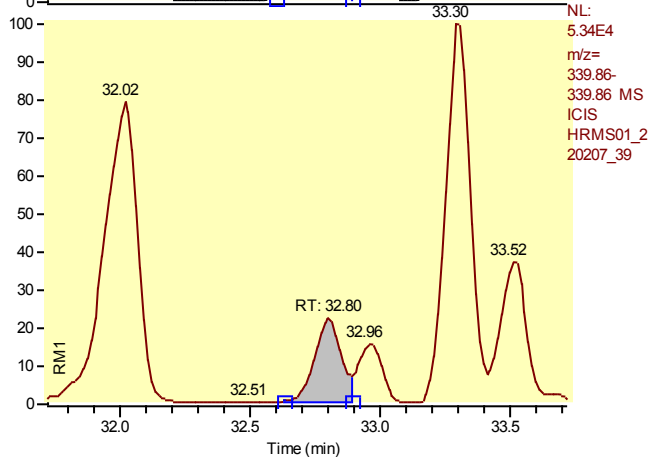
Chromatogram

Entry Parameters

RT: 31.72 - 33.72 SM: 7G

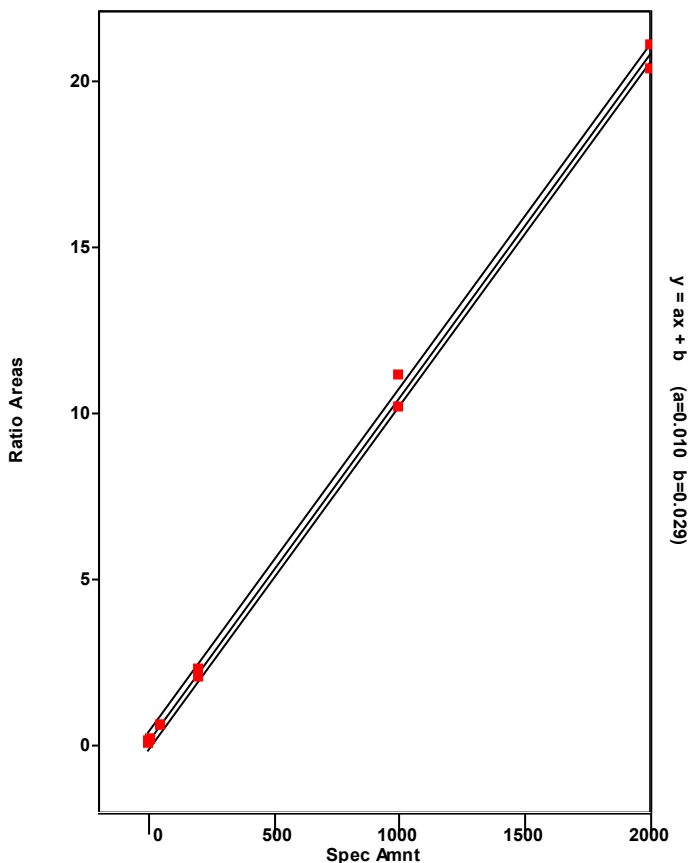


Entry Identifier	Total Pentachlorodibenzofuran__8
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	53375
RM1 Area	83587
RM1 Ratio (A)	1.5660
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	4.06
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzofuran__8

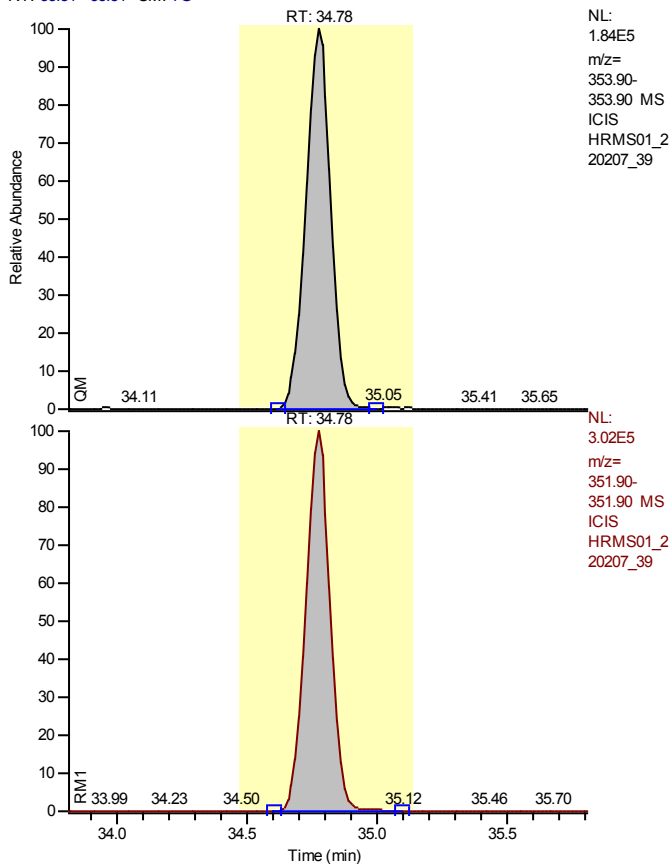
Linear Fit: StdDev = 0.266 RSD = 5.459 CF = 0.998791



Chromatogram

Entry Parameters

RT: 33.81 - 35.81 SM: 7G



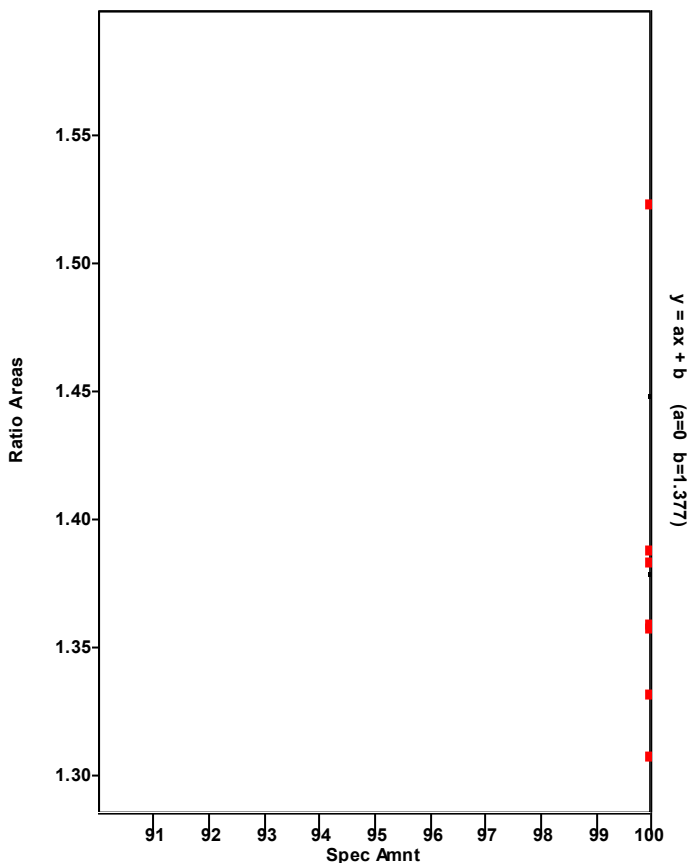
NL:
 1.84E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 3.02E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1225116
RM1 Area	1976605
RM1 Ratio (A)	1.6134
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	71.78
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

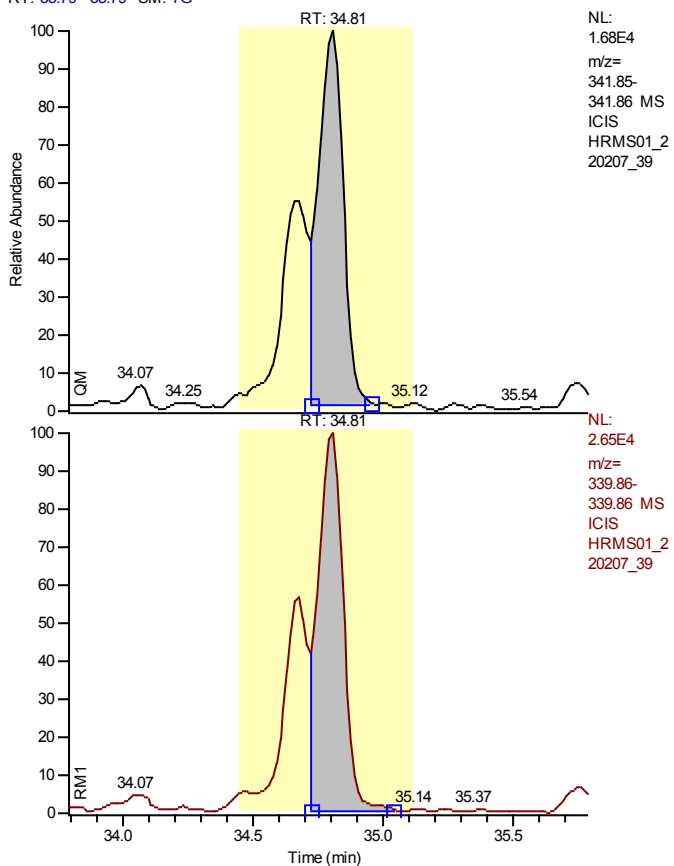
Linear Fit: StdDev = 0.070 RSD = 5.059 CF = 0.000000



Chromatogram

Entry Parameters

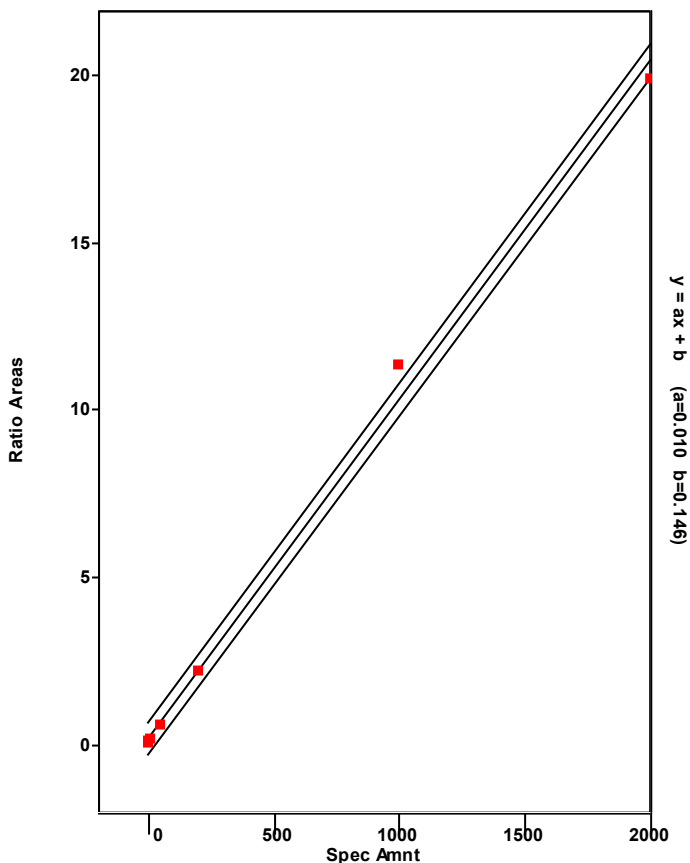
RT: 33.79 - 35.79 SM: 7G



Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	108915
RM1 Area	175004
RM1 Ratio (A)	1.6068
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	7.93
Percent Recovery (A)	---
TEQ (A)	2.3802
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

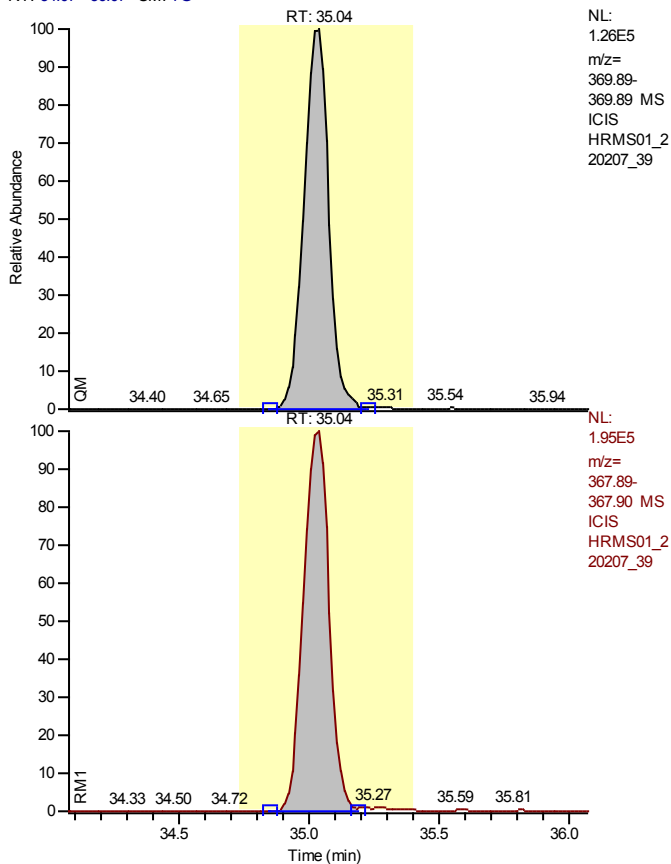
Linear Fit: StdDev = 0.480 RSD = 9.894 CF = 0.996160



Chromatogram

Entry Parameters

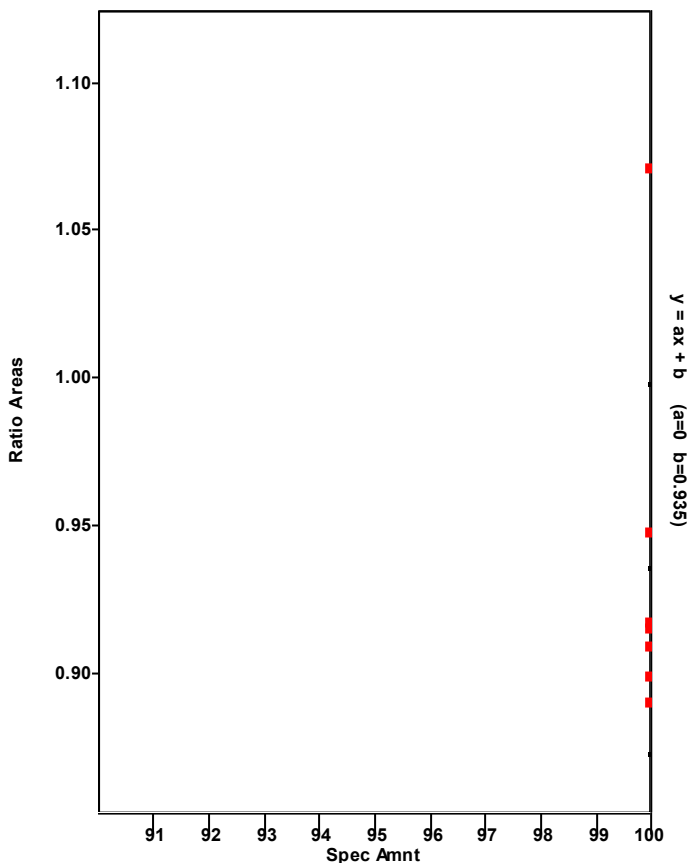
RT: 34.07 - 36.07 SM: 7G



Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	835859
RM1 Area	1332195
RM1 Ratio (A)	1.5938
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	71.63
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

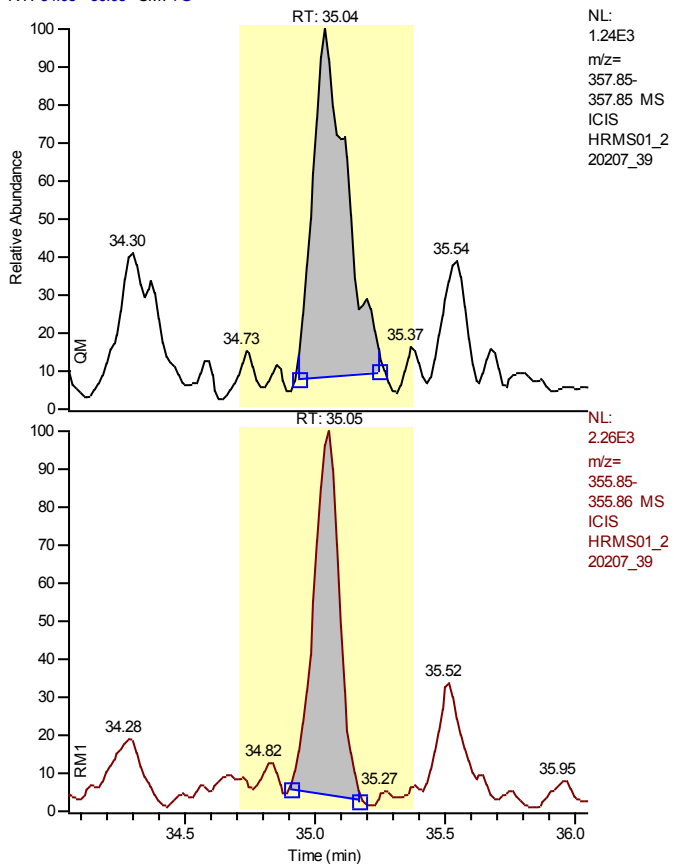
Linear Fit: StdDev = 0.062 RSD = 6.686 CF = 0.000000



Chromatogram

Entry Parameters

RT: 34.05 - 36.05 SM: 7G



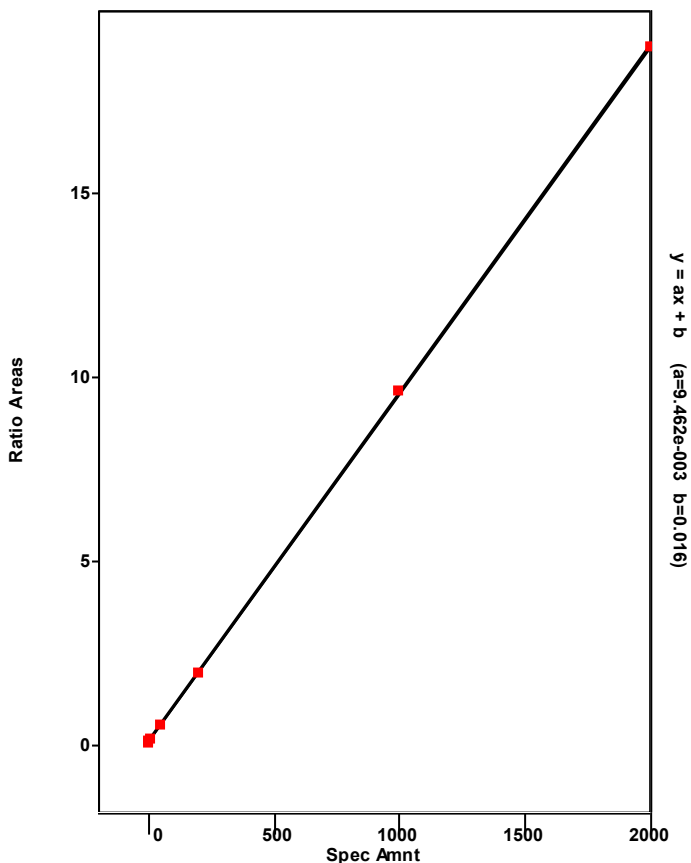
NL:
 1.24E3
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	10116
RM1 Area	14667
RM1 Ratio (A)	1.4499
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

NL:
 2.26E3
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20207_39

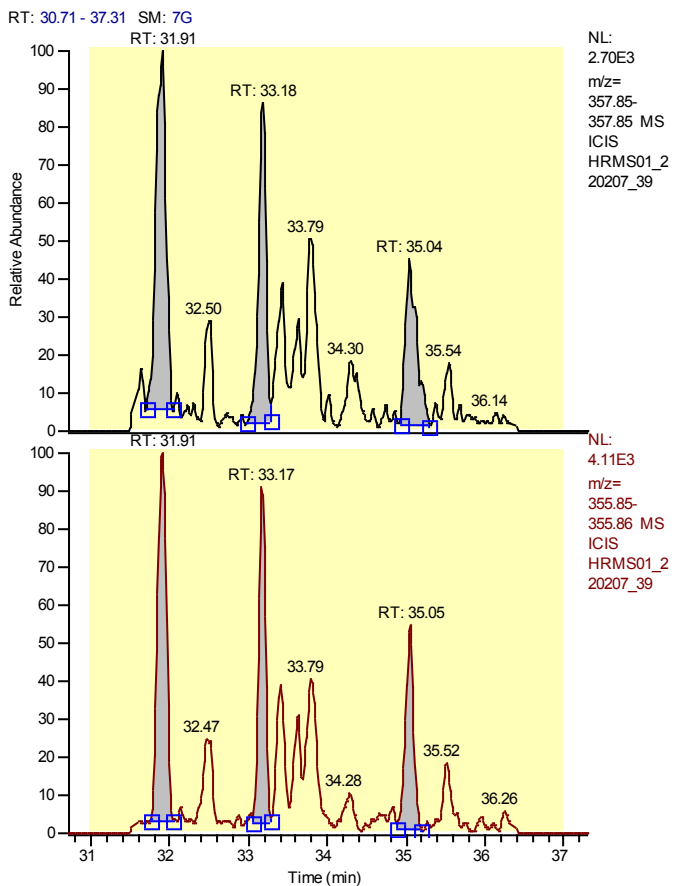
Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

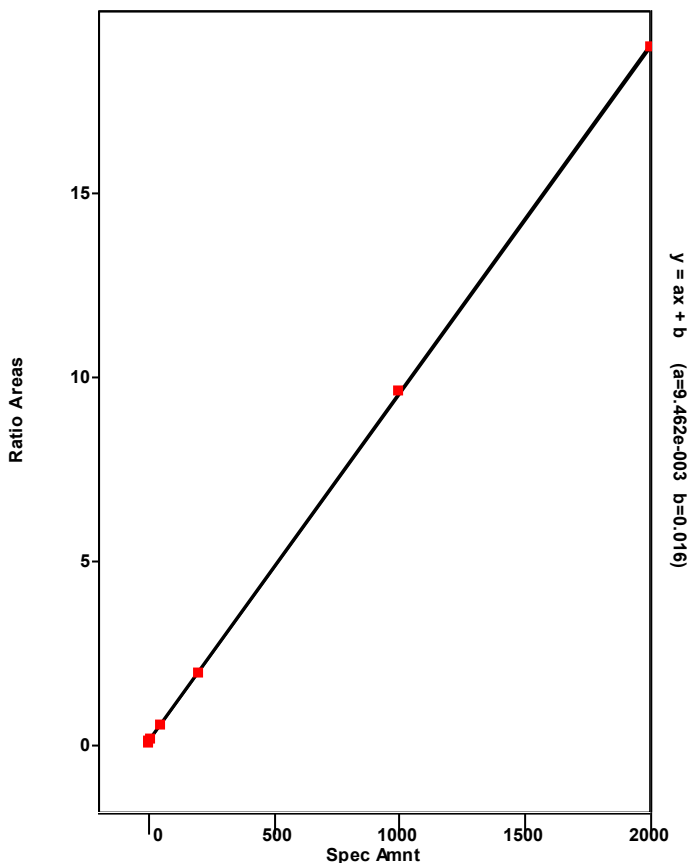
Entry Parameters



Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	49323
RM1 Area	68317
RM1 Ratio (A)	1.3851
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.44
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin

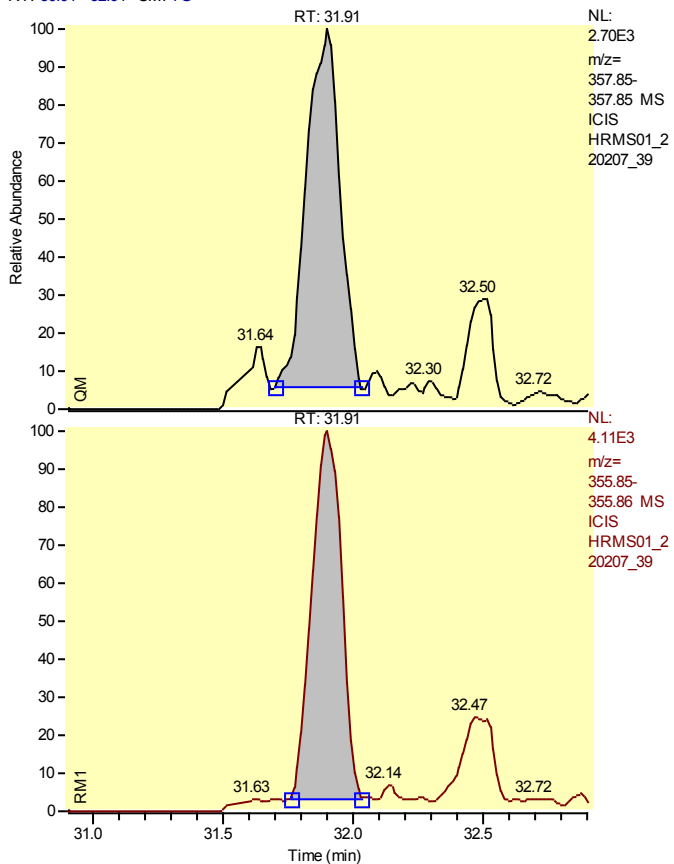
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

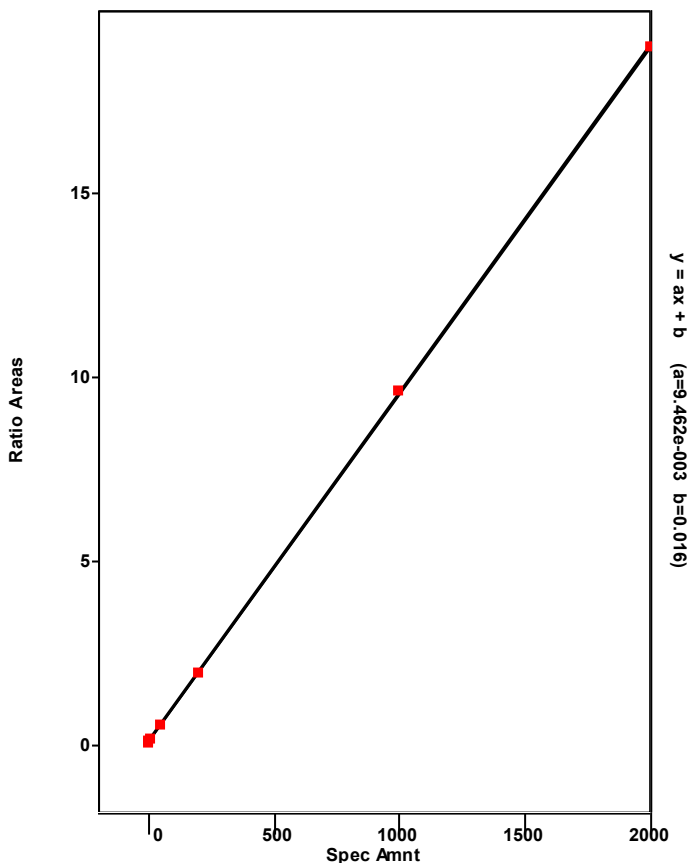
RT: 30.91 - 32.91 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	22778
RM1 Area	31416
RM1 Ratio (A)	1.3792
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.51
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

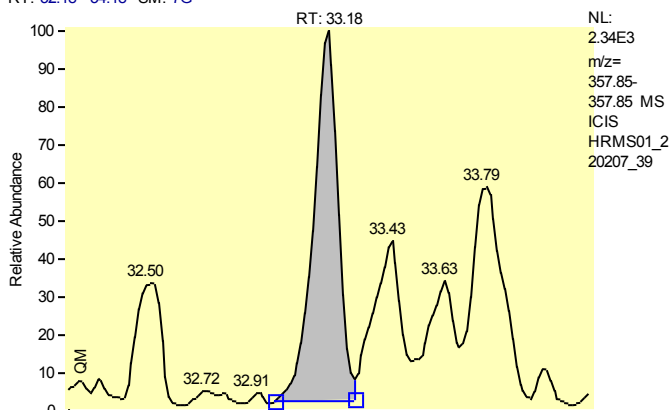
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



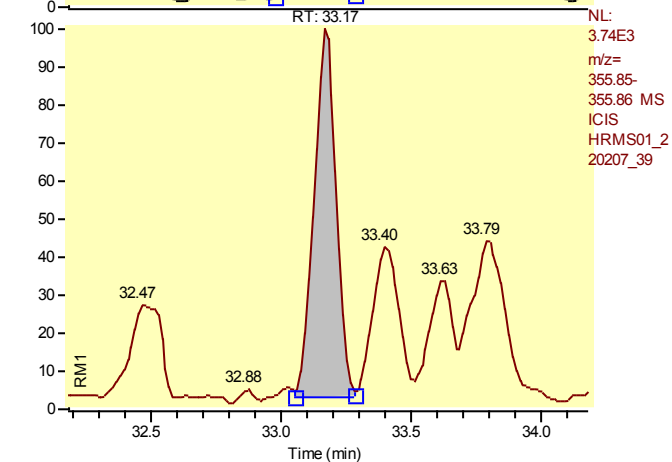
Chromatogram

Entry Parameters

RT: 32.18 - 34.18 SM: 7G

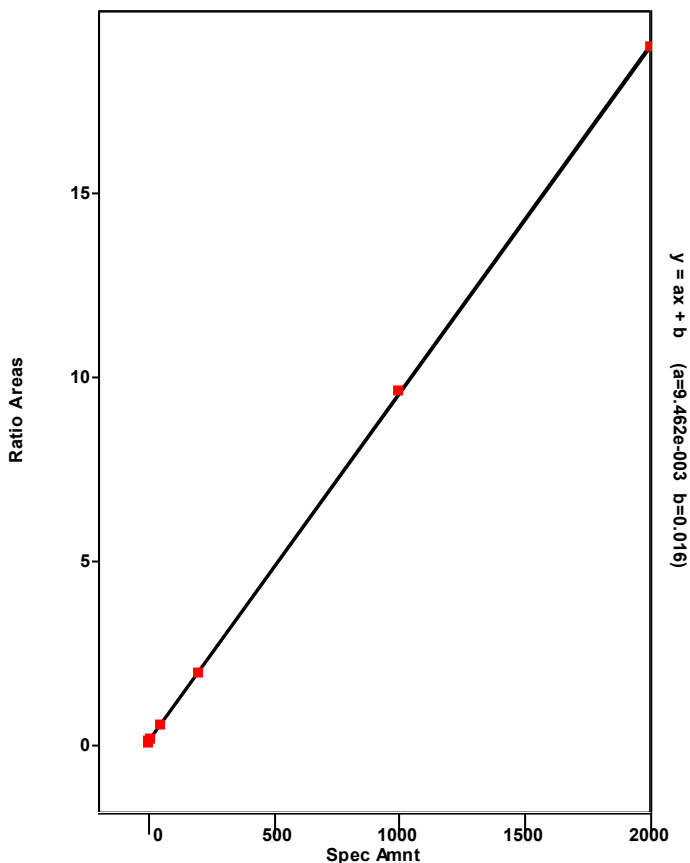


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	14907
RM1 Area	21294
RM1 Ratio (A)	1.4284
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.67
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

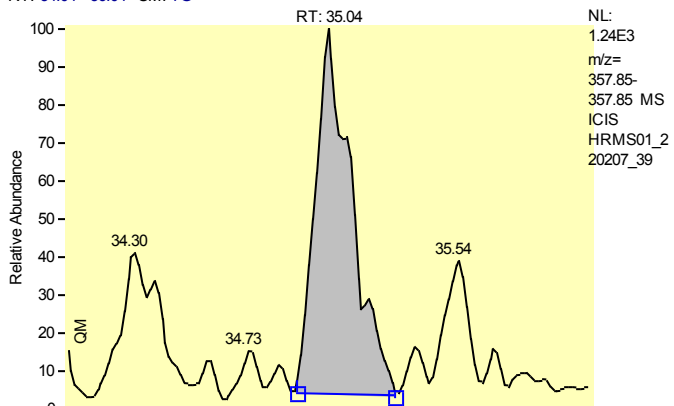
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



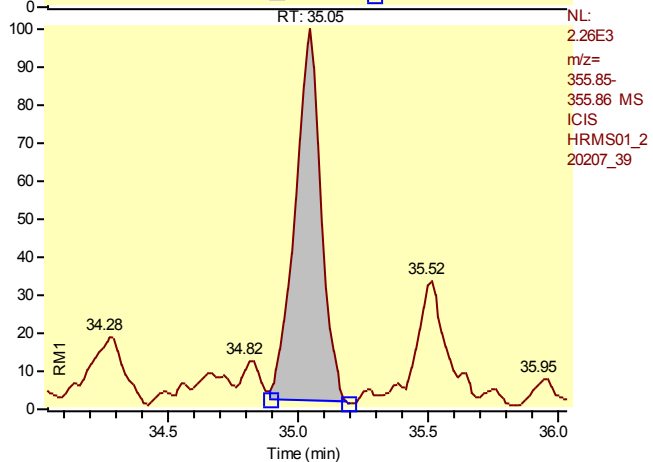
Chromatogram

Entry Parameters

RT: 34.04 - 36.04 SM: 7G

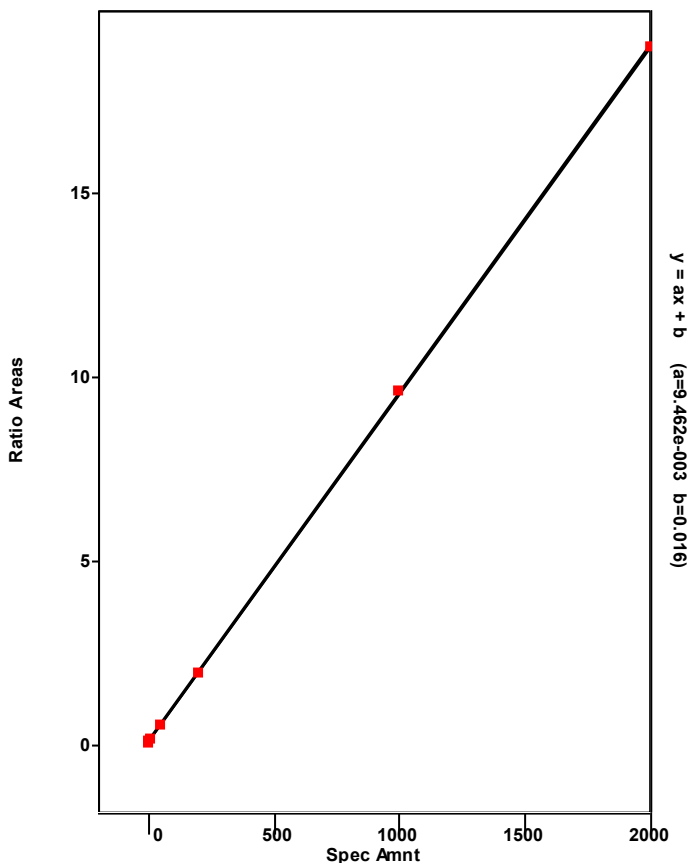


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__7
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	11638
RM1 Area	15607
RM1 Ratio (A)	1.3411
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.26
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin__7

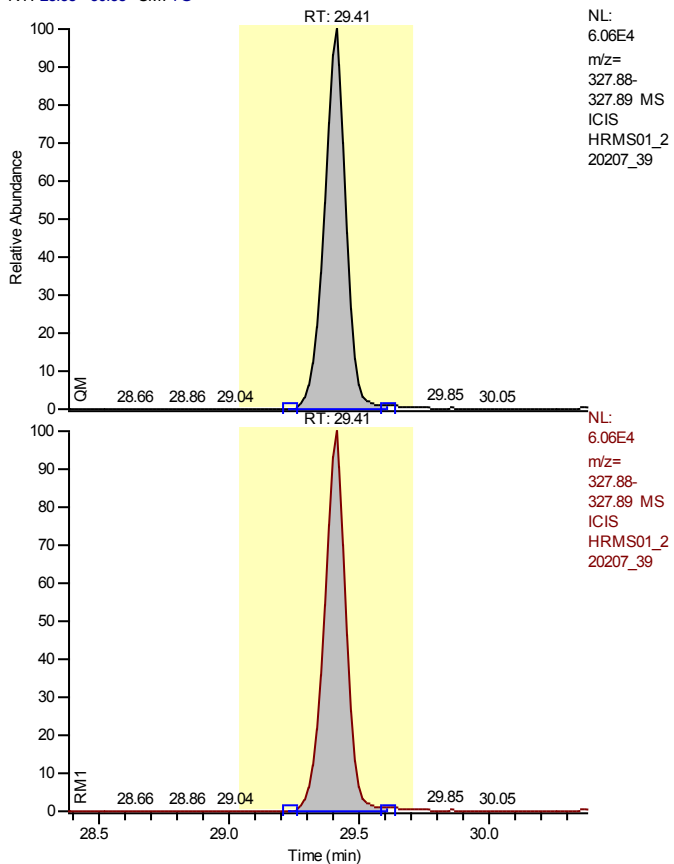
Linear Fit: StdDev = 0.032 RSD = 0.722 CF = 0.999981



Chromatogram

Entry Parameters

RT: 28.38 - 30.38 SM: 7G



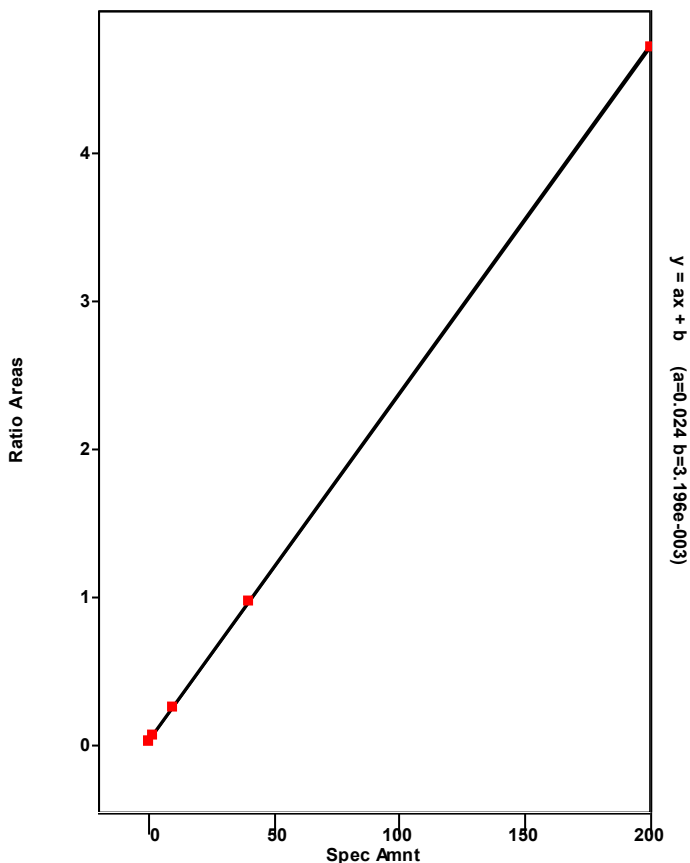
NL:
 6.06E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 6.06E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	370715
RM1 Area	370715
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.50
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

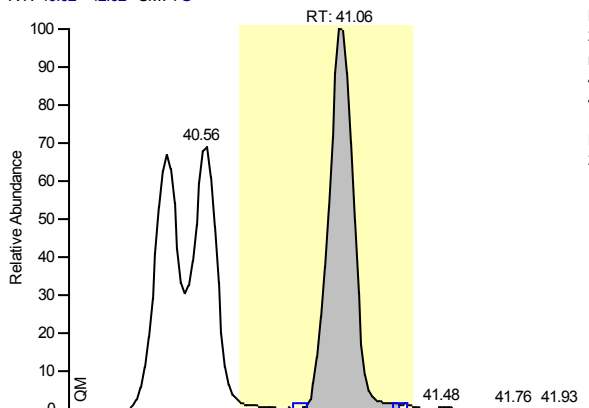
Linear Fit: StdDev = 0.008 RSD = 0.783 CF = 0.999982



Chromatogram

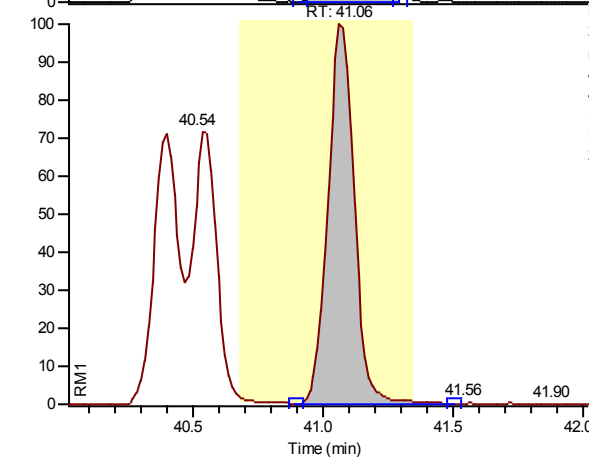
Entry Parameters

RT: 40.02 - 42.02 SM: 7G



NL:
 2.29E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_39

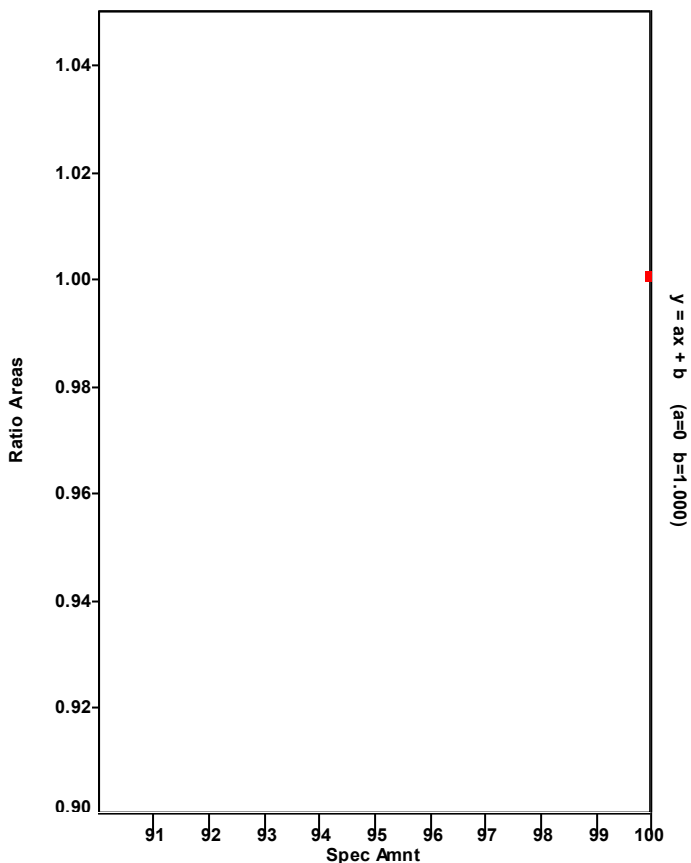
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1513905
RM1 Area	1912660
RM1 Ratio (A)	1.2634
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
 2.74E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

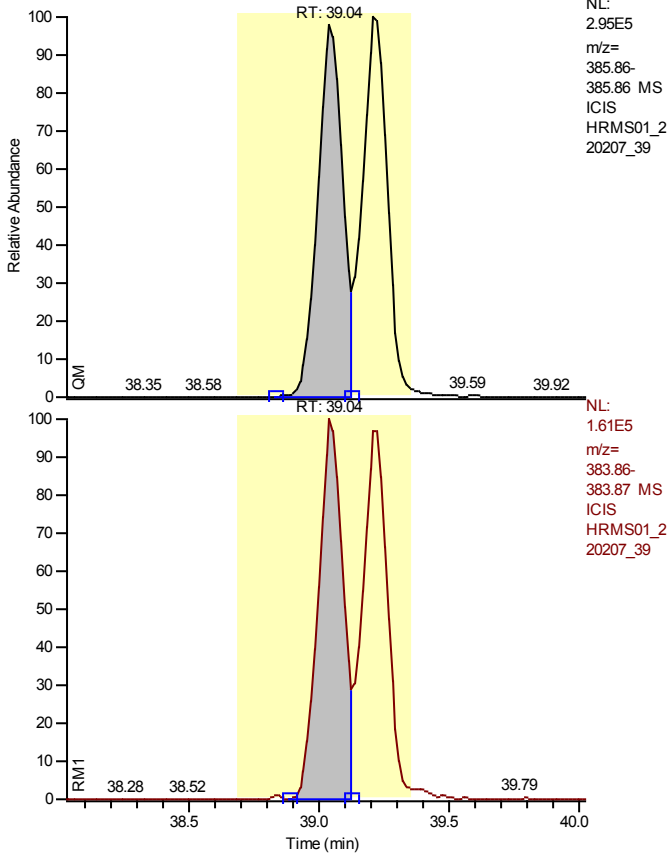
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 38.03 - 40.03 SM: 7G



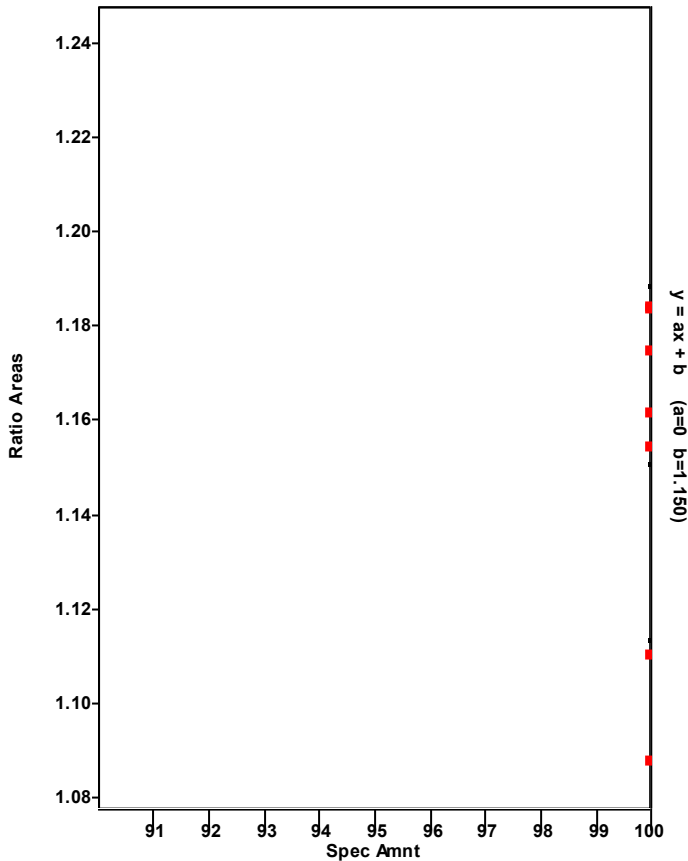
NL:
 2.95E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 1.61E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1902408
RM1 Area	1041548
RM1 Ratio (A)	0.5475
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	74.69
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

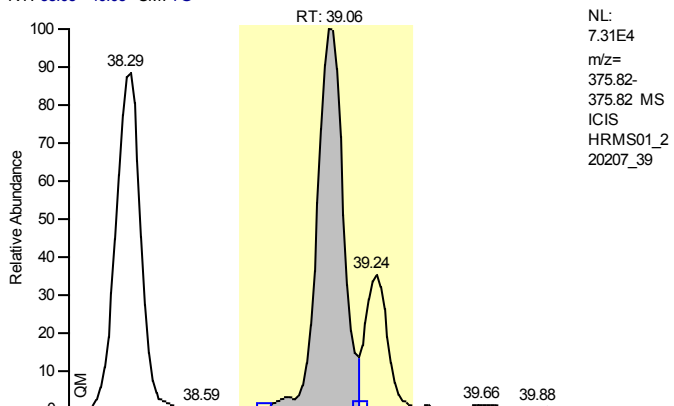
Linear Fit: StdDev = 0.038 RSD = 3.272 CF = 0.000000



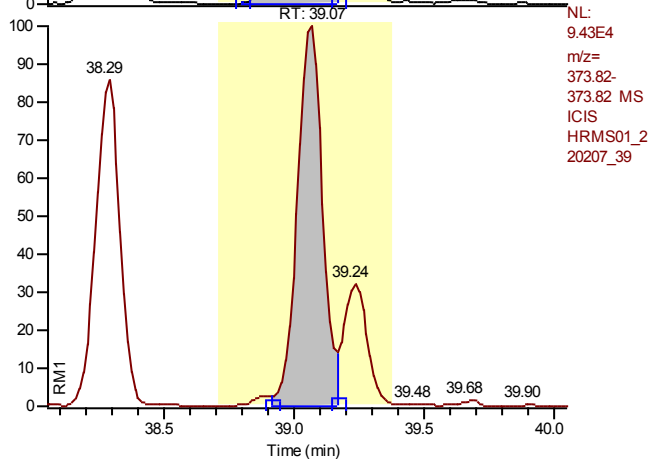
Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G

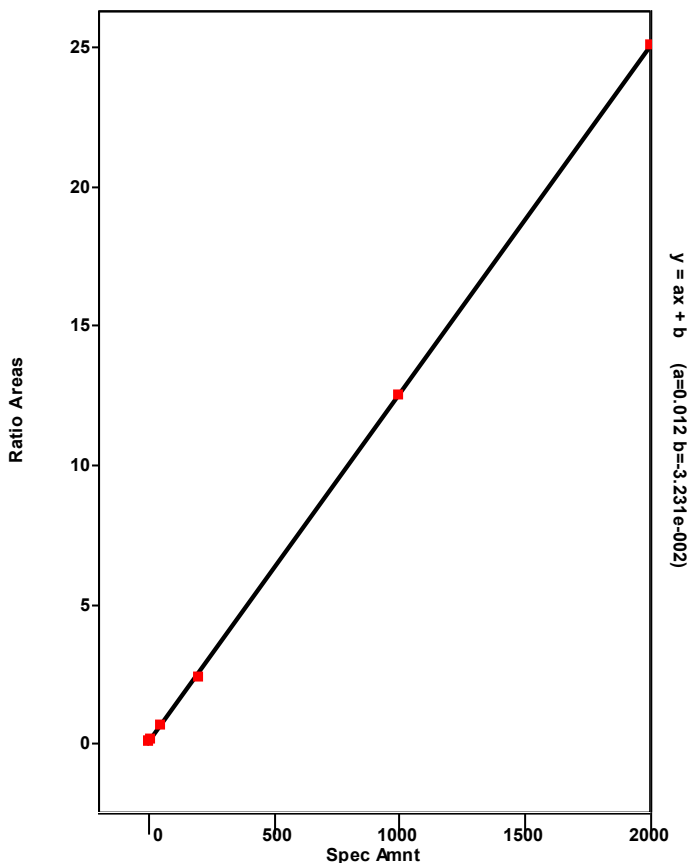


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	493534
RM1 Area	621235
RM1 Ratio (A)	1.2587
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	30.37
Percent Recovery (A)	---
TEQ (A)	3.0370
Label2	



Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

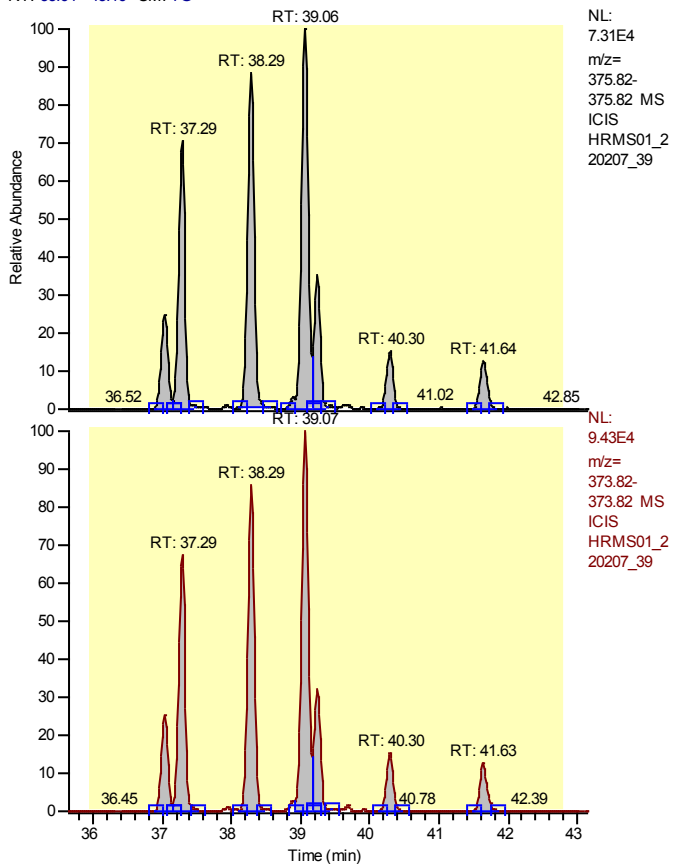
Linear Fit: StdDev = 0.061 RSD = 1.055 CF = 0.999959



Chromatogram

Entry Parameters

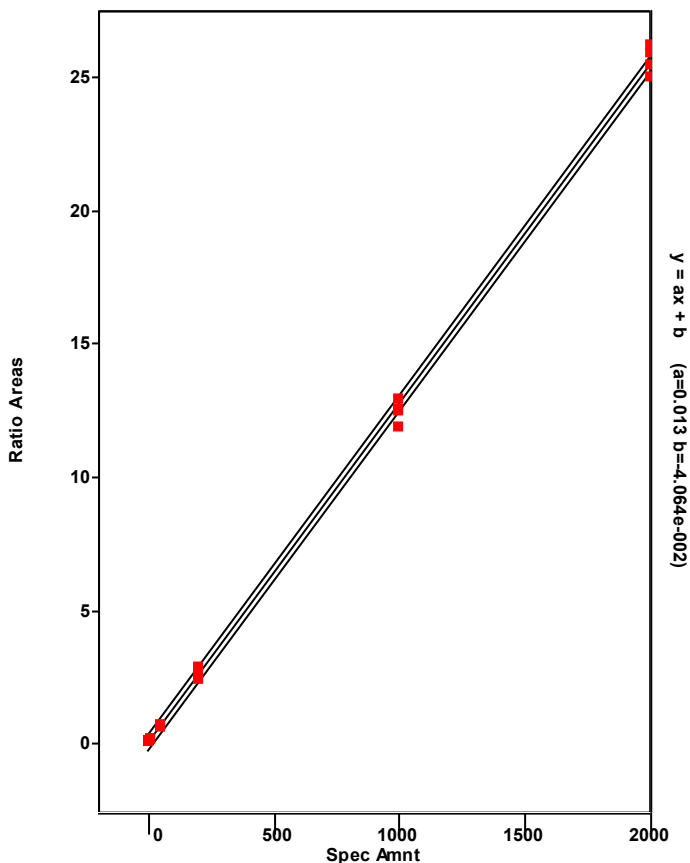
RT: 35.64 - 43.16 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	1661176
RM1 Area	2090719
RM1 Ratio (A)	1.2586
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	100.44
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran

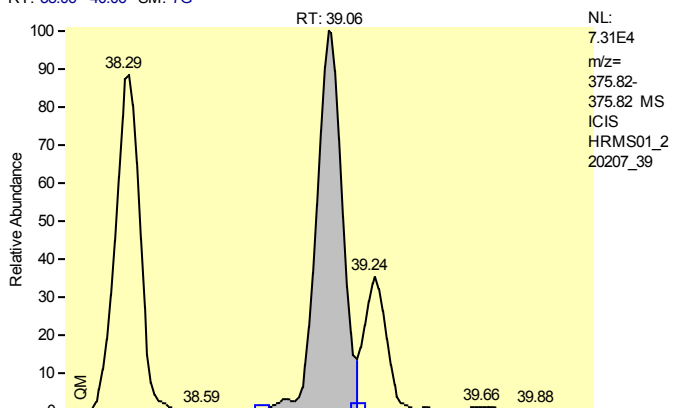
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



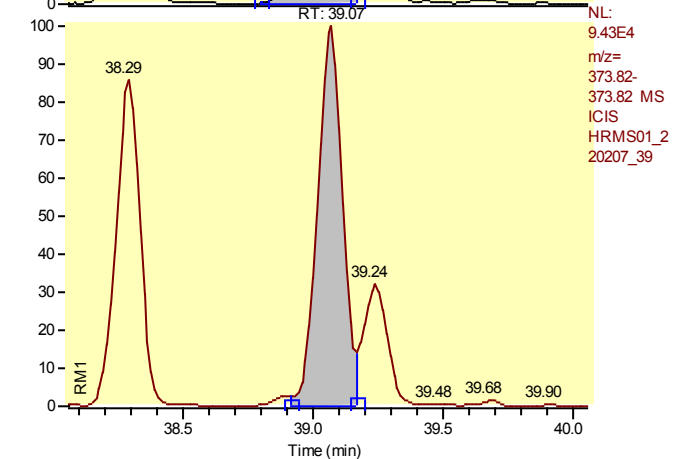
Chromatogram

Entry Parameters

RT: 38.06 - 40.06 SM: 7G

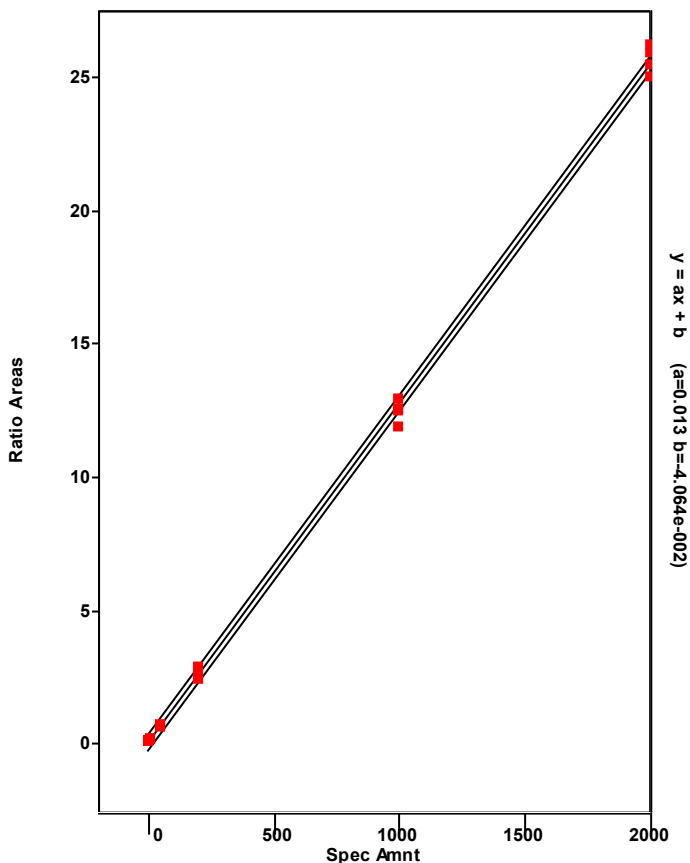


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	493534
RM1 Area	621235
RM1 Ratio (A)	1.2587
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	29.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__1

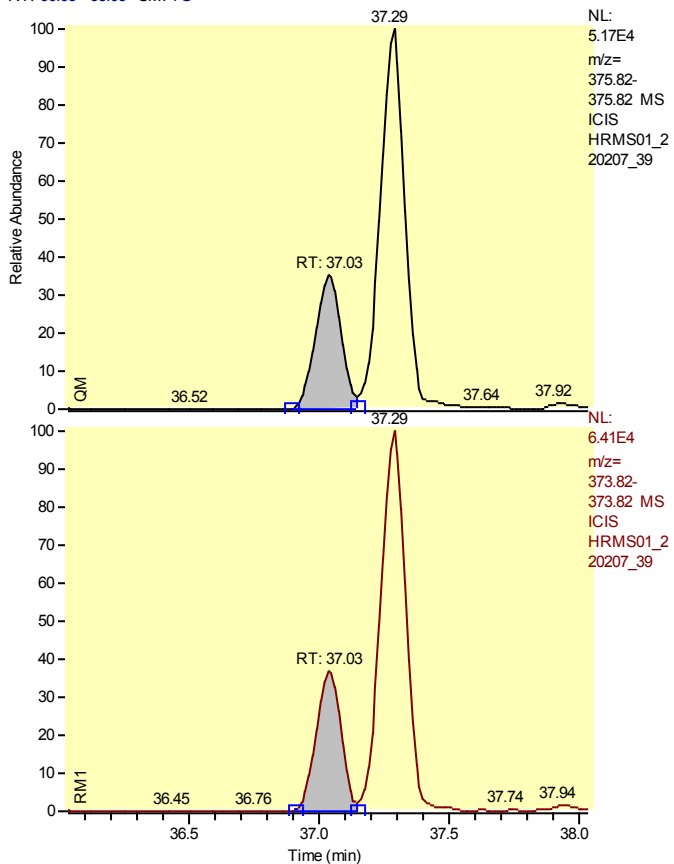
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

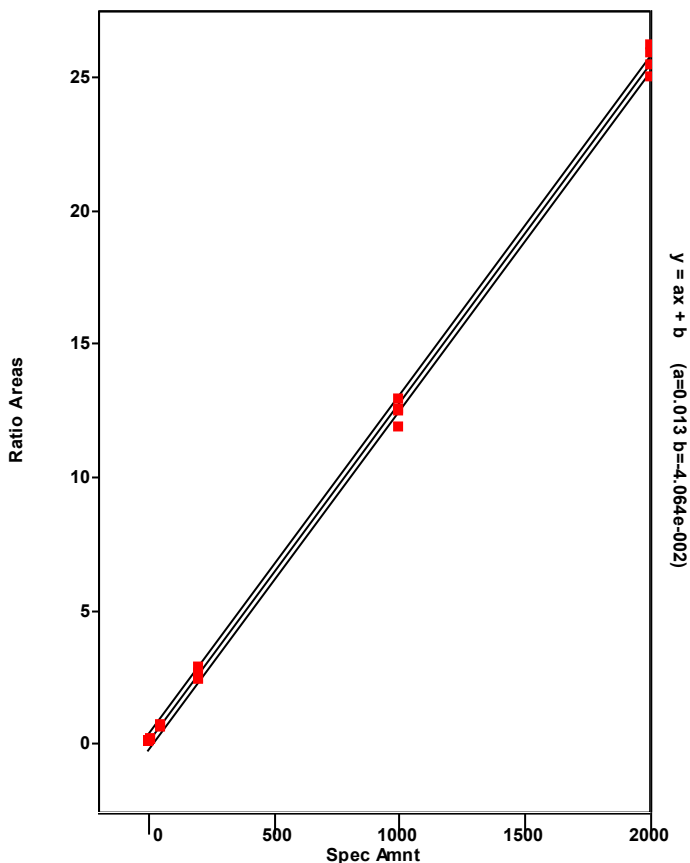
RT: 36.03 - 38.03 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	122869
RM1 Area	155119
RM1 Ratio (A)	1.2625
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	7.44
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

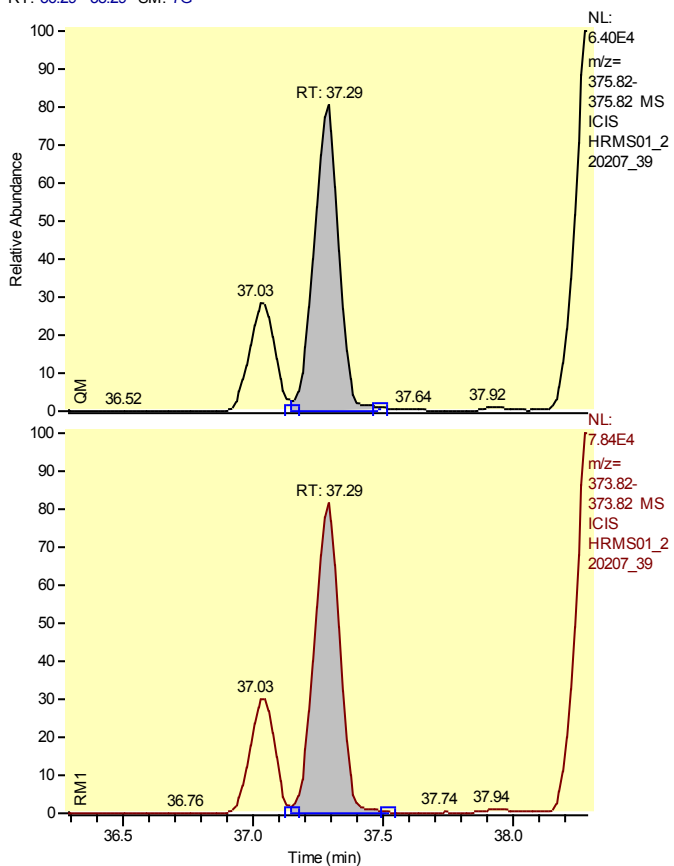
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

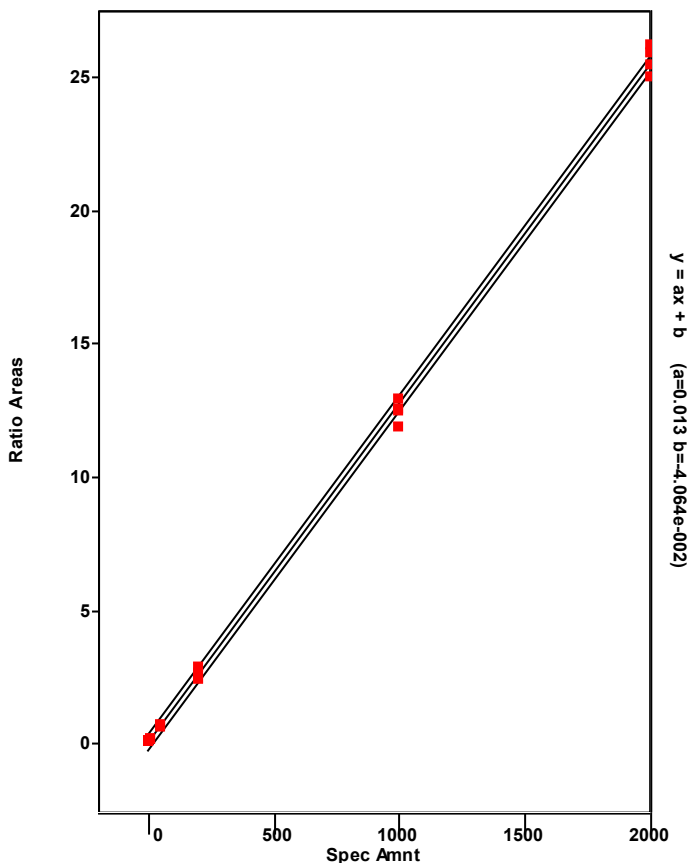
RT: 36.29 - 38.29 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	332351
RM1 Area	428725
RM1 Ratio (A)	1.2900
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	20.38
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__3

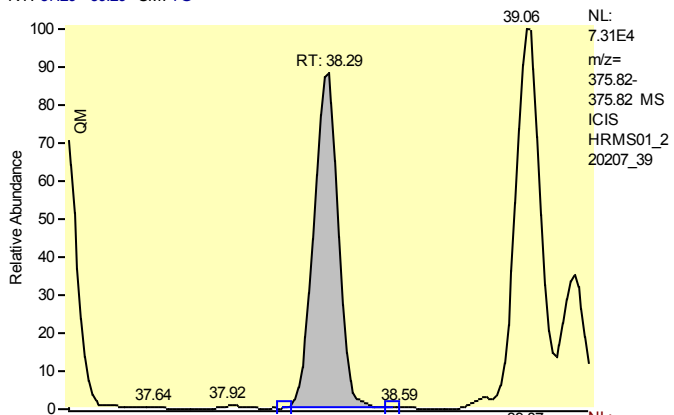
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



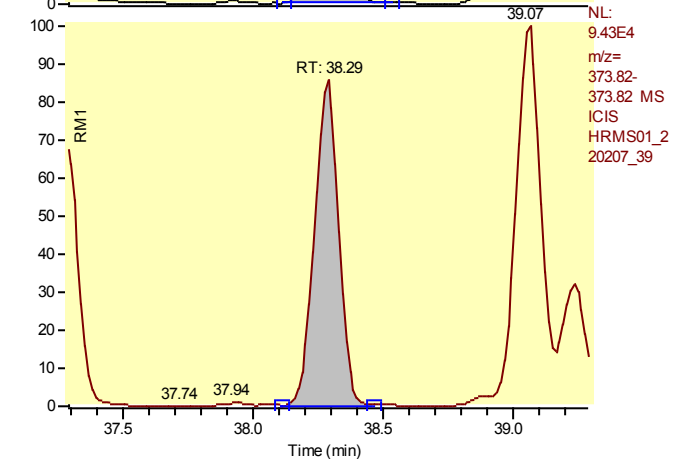
Chromatogram

Entry Parameters

RT: 37.29 - 39.29 SM: 7G

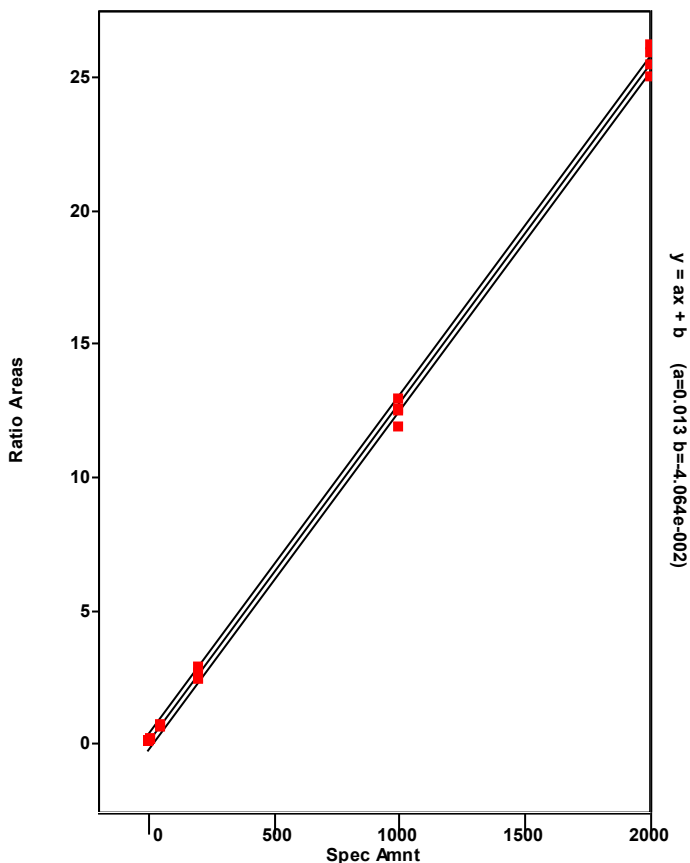


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	419809
RM1 Area	518808
RM1 Ratio (A)	1.2358
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	25.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__4

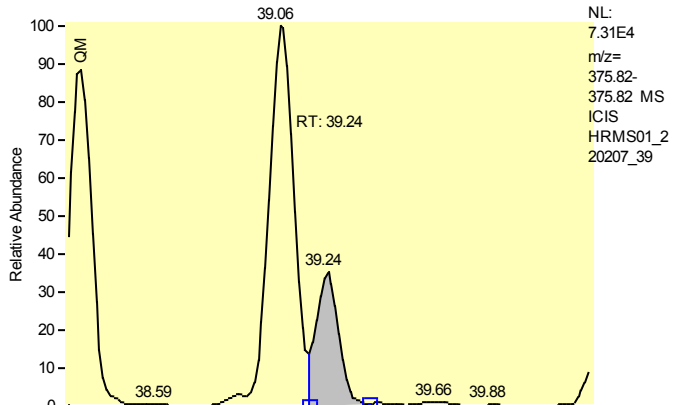
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



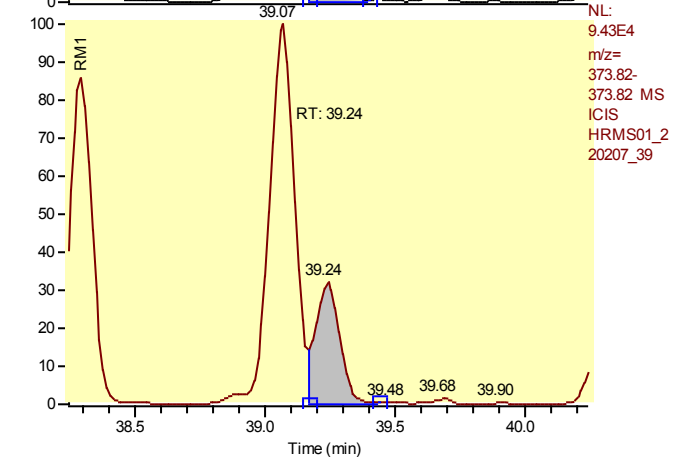
Chromatogram

Entry Parameters

RT: 38.24 - 40.24 SM: 7G

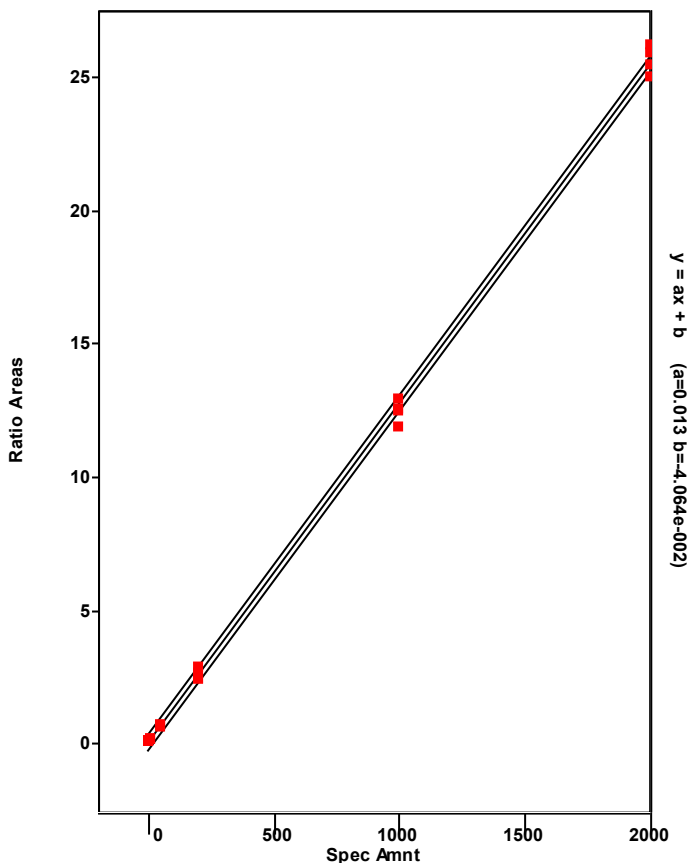


Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	150925
RM1 Area	189353
RM1 Ratio (A)	1.2546
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	9.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__5

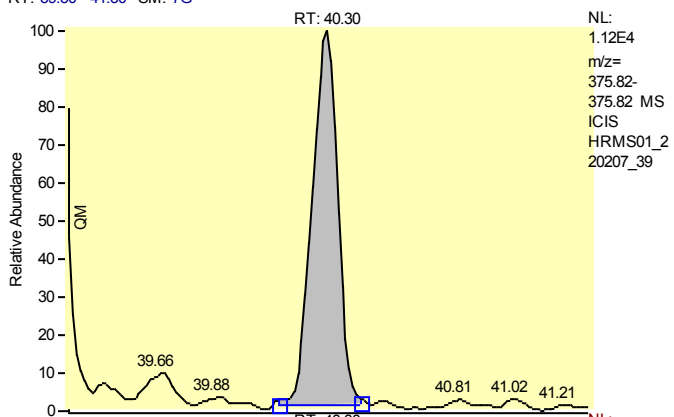
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



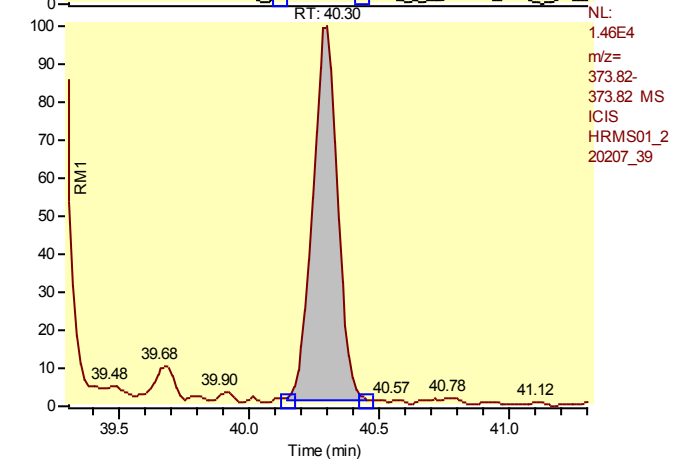
Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G

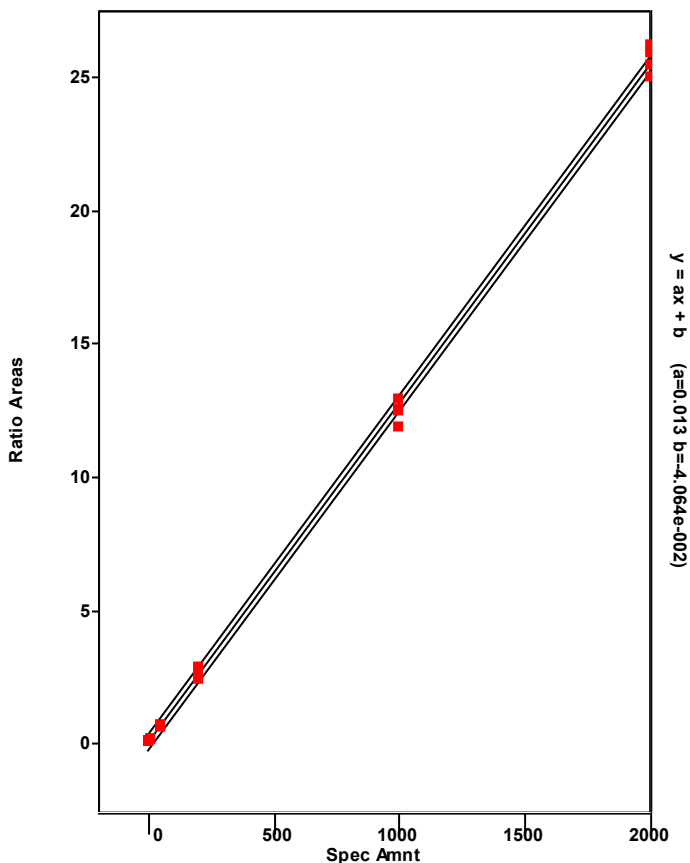


Entry Identifier	Total Hexachlorodibenzofuran__6
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	74916
RM1 Area	94492
RM1 Ratio (A)	1.2613
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.54
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__6

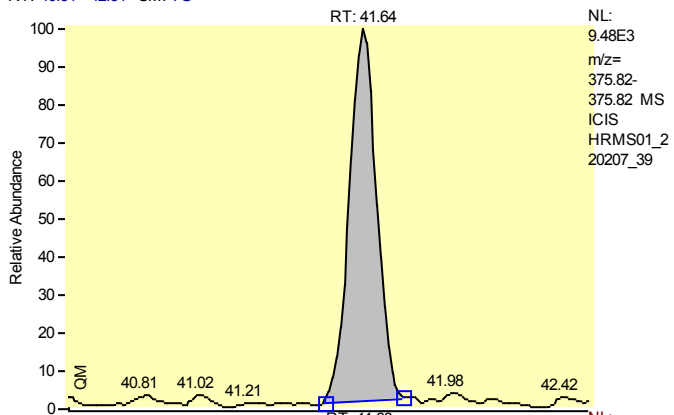
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

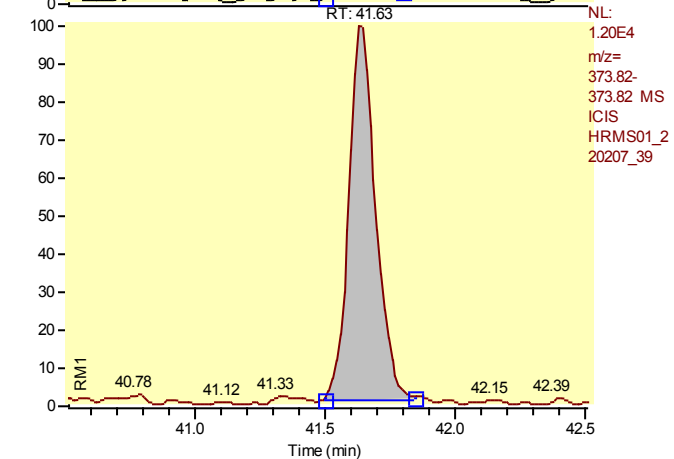
Entry Parameters

RT: 40.51 - 42.51 SM: 7G



NL:
 9.48E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_39

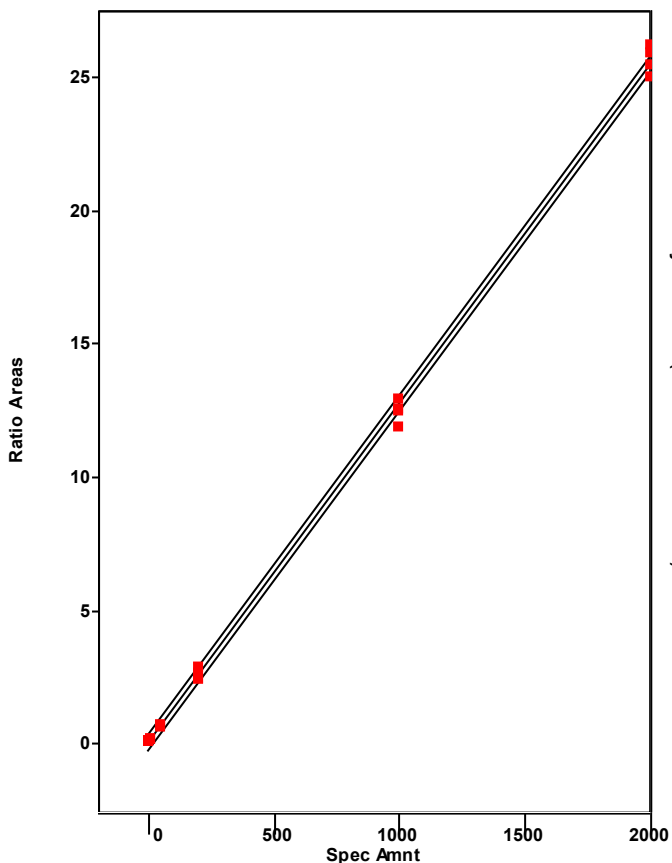
Entry Identifier	Total Hexachlorodibenzofuran__7
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	66772
RM1 Area	82988
RM1 Ratio (A)	1.2429
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.01
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 1.20E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of Total Hexachlorodibenzofuran__7

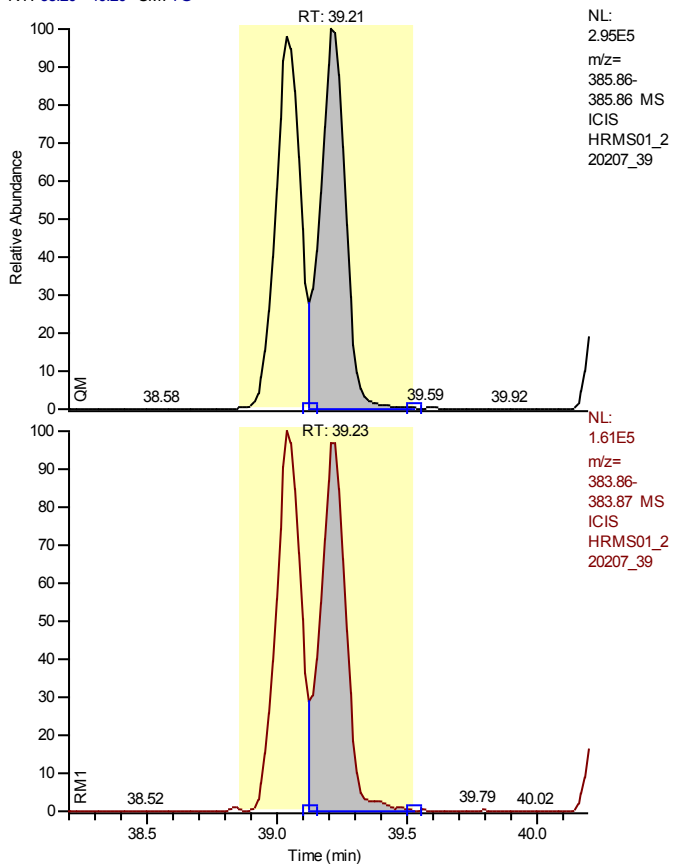
Linear Fit: StdDev = 0.277 RSD = 4.687 CF = 0.999098



Chromatogram

Entry Parameters

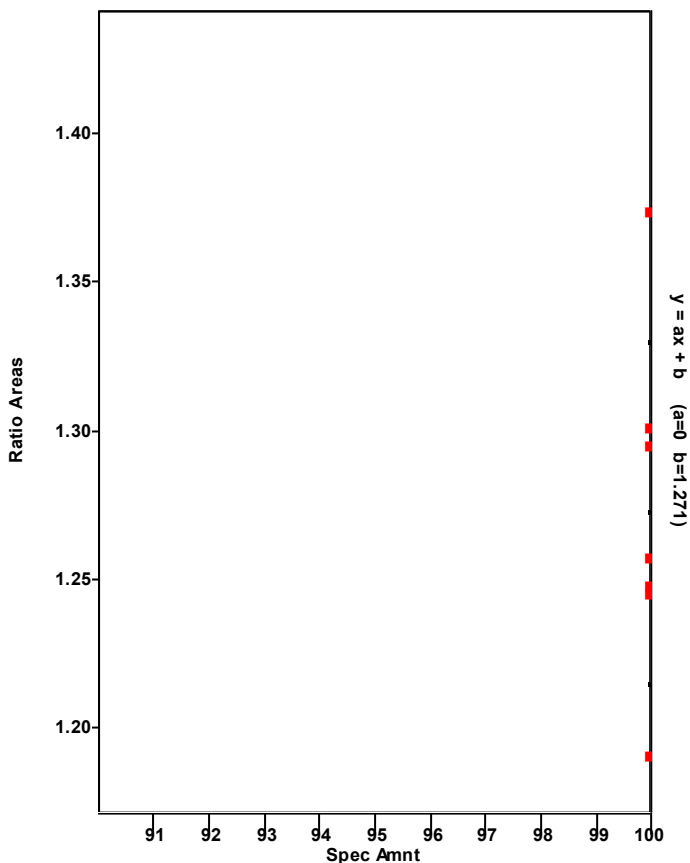
RT: 38.20 - 40.20 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1963714
RM1 Area	1055691
RM1 Ratio (A)	0.5376
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	69.30
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

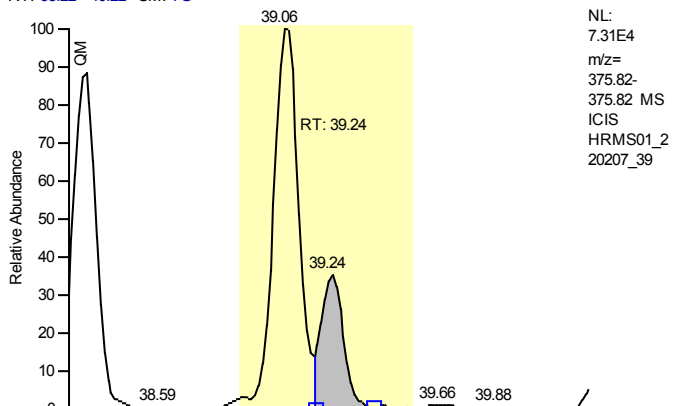
Linear Fit: StdDev = 0.058 RSD = 4.528 CF = 0.000000



Chromatogram

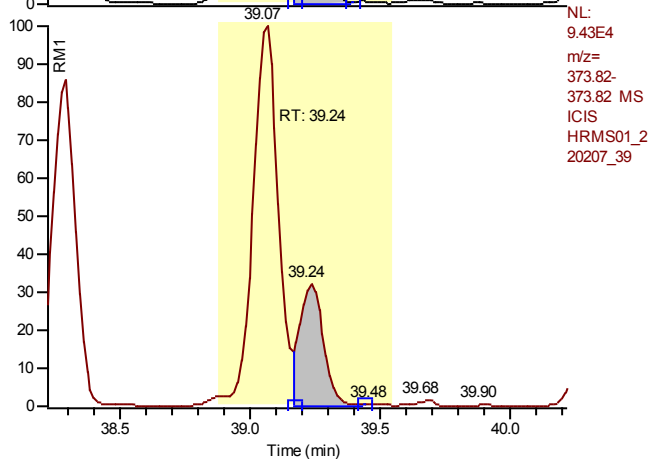
Entry Parameters

RT: 38.22 - 40.22 SM: 7G



NL:
 7.31E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_39

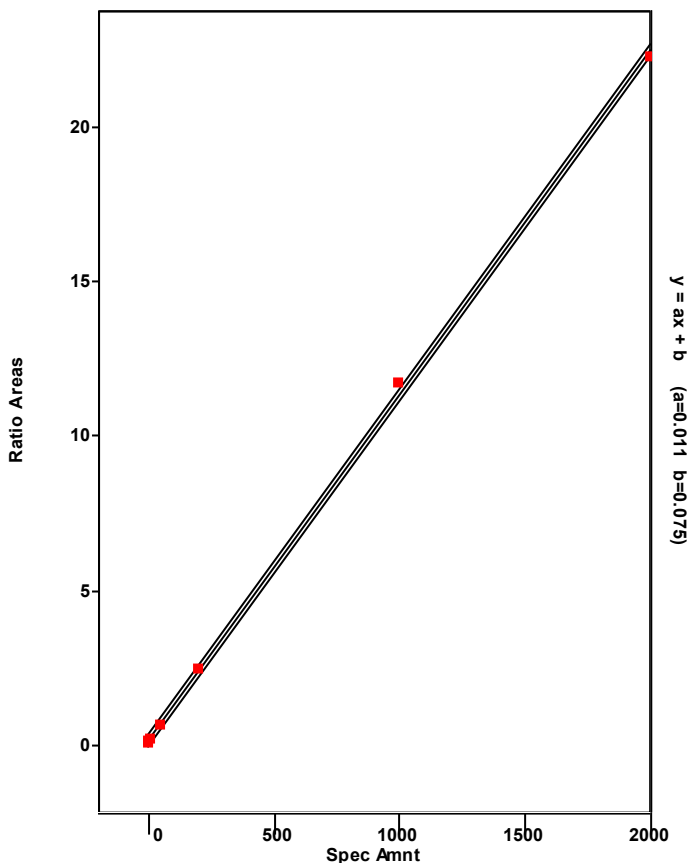
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	150925
RM1 Area	189353
RM1 Ratio (A)	1.2546
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	9.49
Percent Recovery (A)	---
TEQ (A)	0.9492
Label2	



NL:
 9.43E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

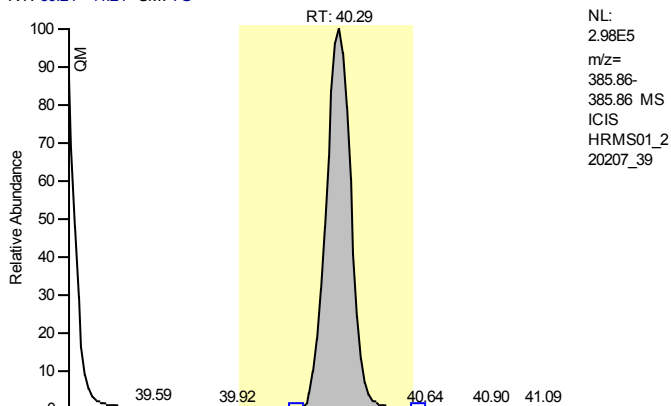
Linear Fit: StdDev = 0.186 RSD = 3.516 CF = 0.999529



Chromatogram

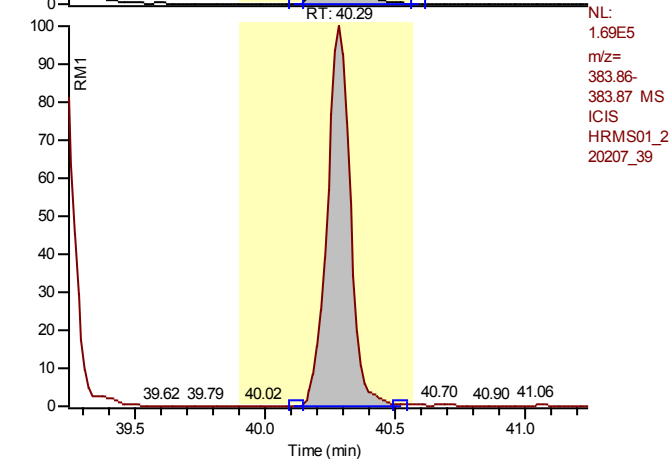
Entry Parameters

RT: 39.24 - 41.24 SM: 7G



NL:
 2.98E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_39

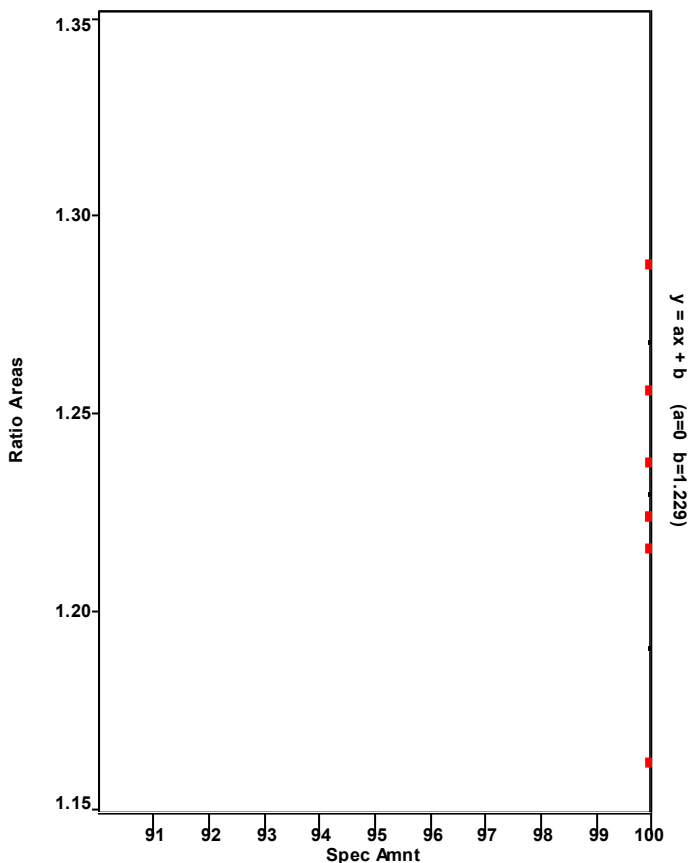
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	2006218
RM1 Area	1052354
RM1 Ratio (A)	0.5245
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	72.63
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



NL:
 1.69E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

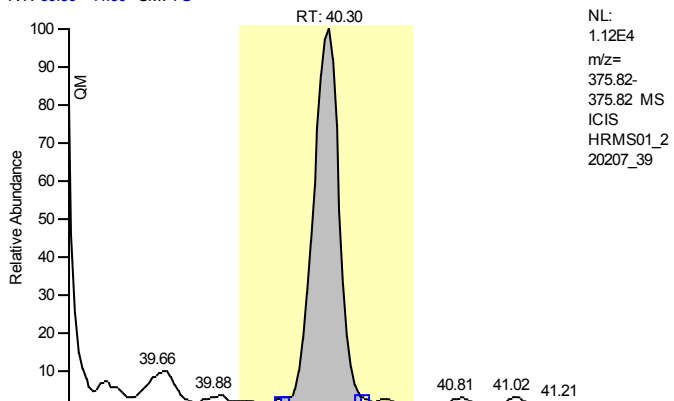
Linear Fit: StdDev = 0.039 RSD = 3.150 CF = 0.000000



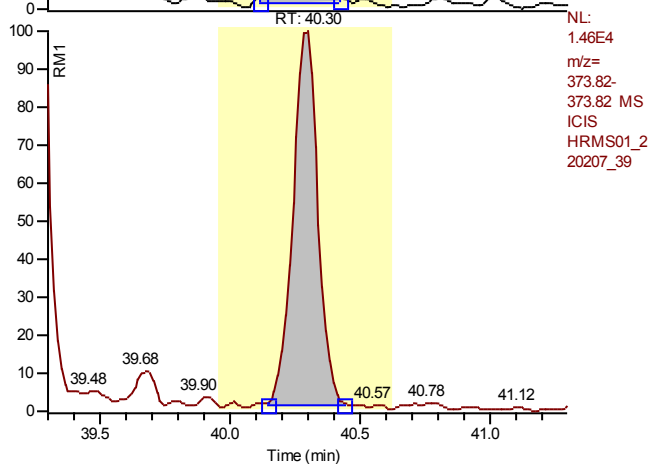
Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G

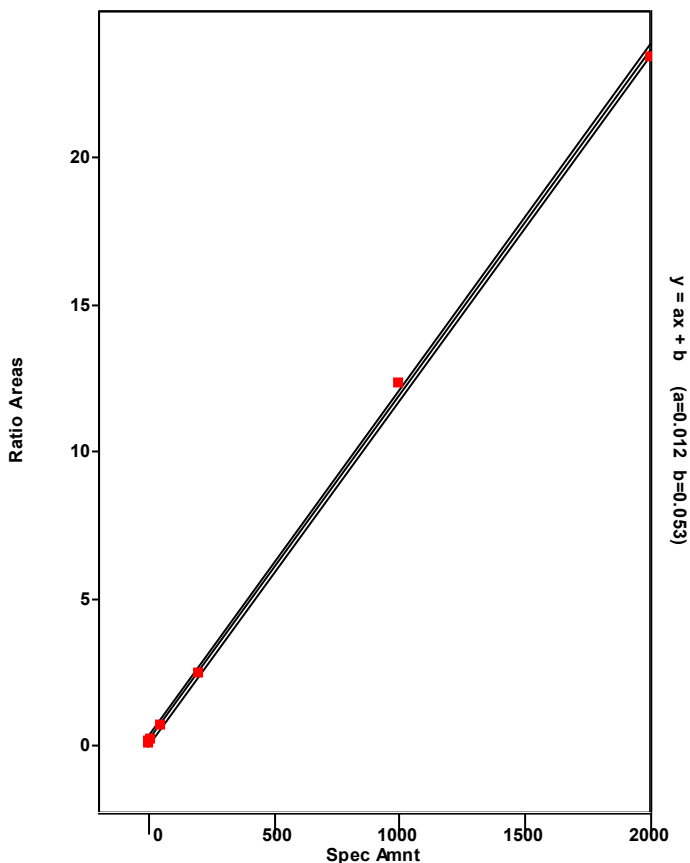


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	74916
RM1 Area	94492
RM1 Ratio (A)	1.2613
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.48
Percent Recovery (A)	---
TEQ (A)	0.4484
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

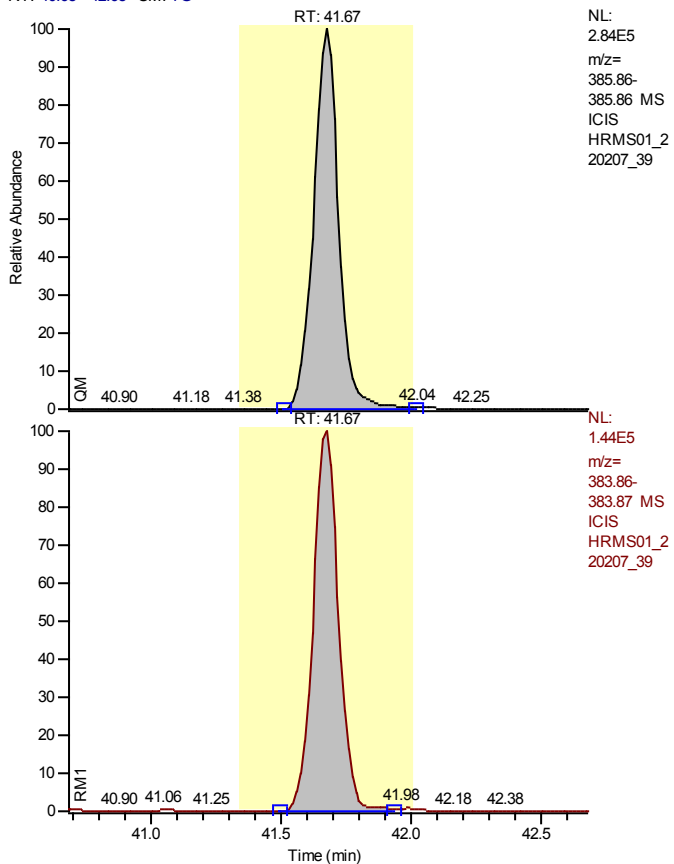
Linear Fit: StdDev = 0.189 RSD = 3.418 CF = 0.999559



Chromatogram

Entry Parameters

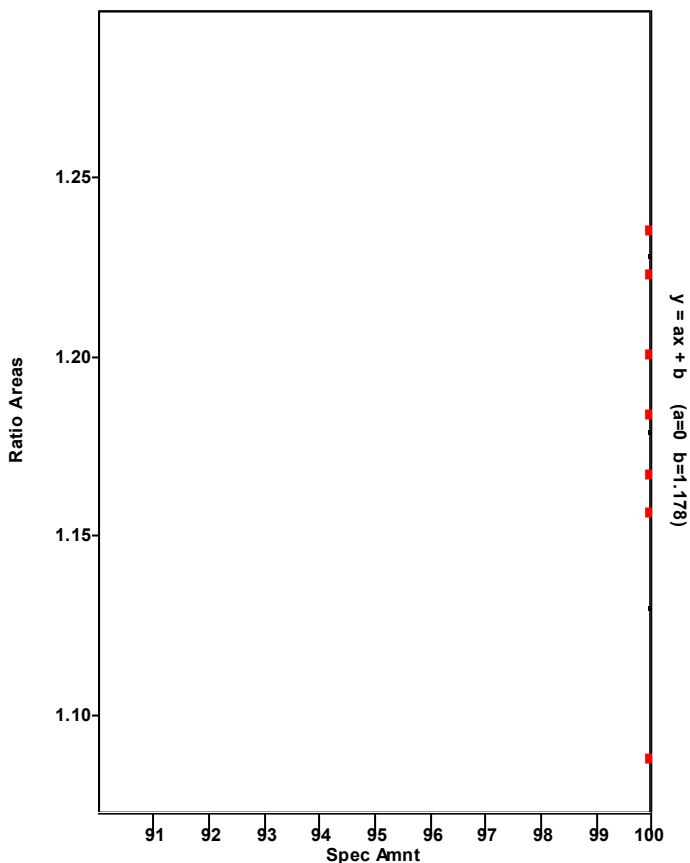
RT: 40.68 - 42.68 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1888617
RM1 Area	972139
RM1 Ratio (A)	0.5147
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	70.86
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

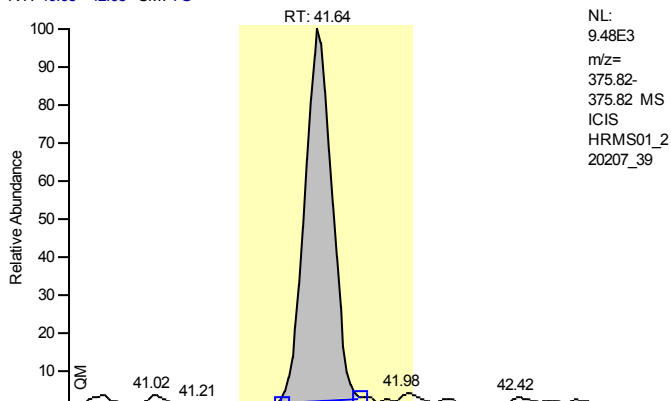
Linear Fit: StdDev = 0.049 RSD = 4.160 CF = 0.000000



Chromatogram

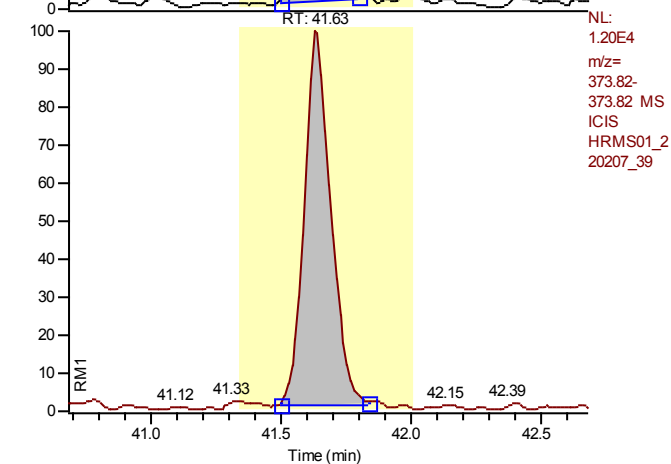
Entry Parameters

RT: 40.68 - 42.68 SM: 7G



NL:
9.48E3
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20207_39

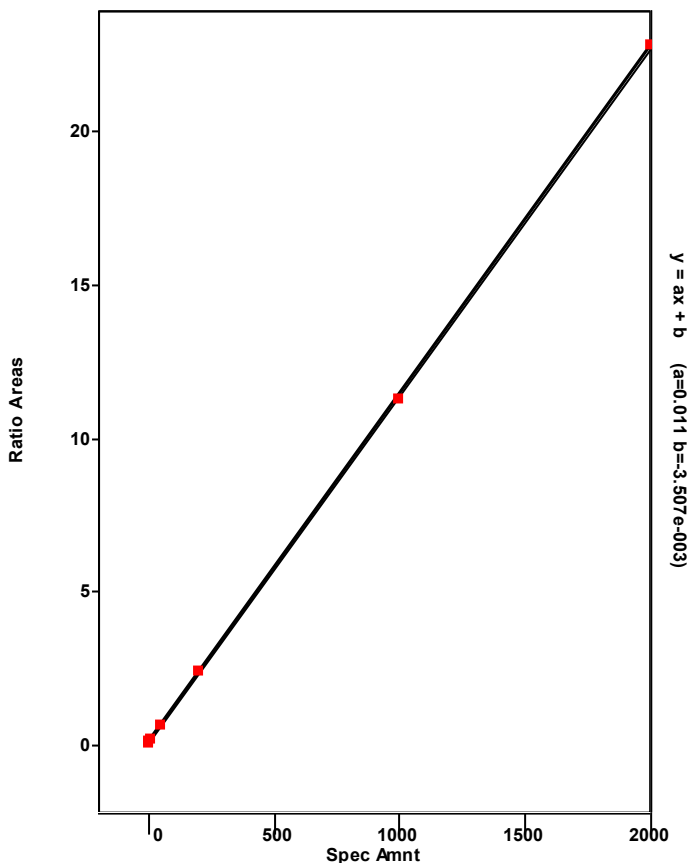
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	66772
RM1 Area	82988
RM1 Ratio (A)	1.2429
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.48
Percent Recovery (A)	---
TEQ (A)	0.4478
Label2	



NL:
1.20E4
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20207_39

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

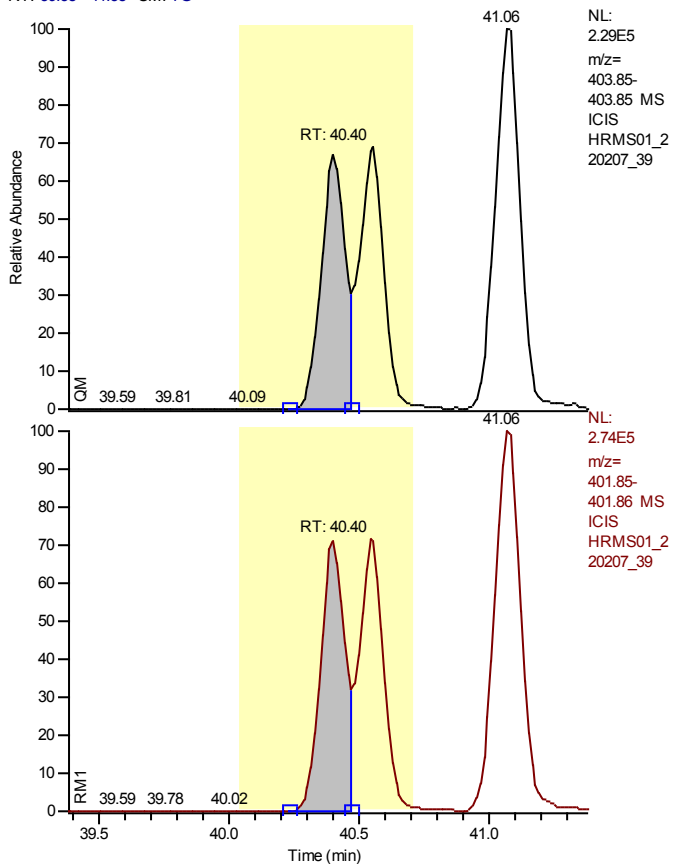
Linear Fit: StdDev = 0.069 RSD = 1.296 CF = 0.999938



Chromatogram

Entry Parameters

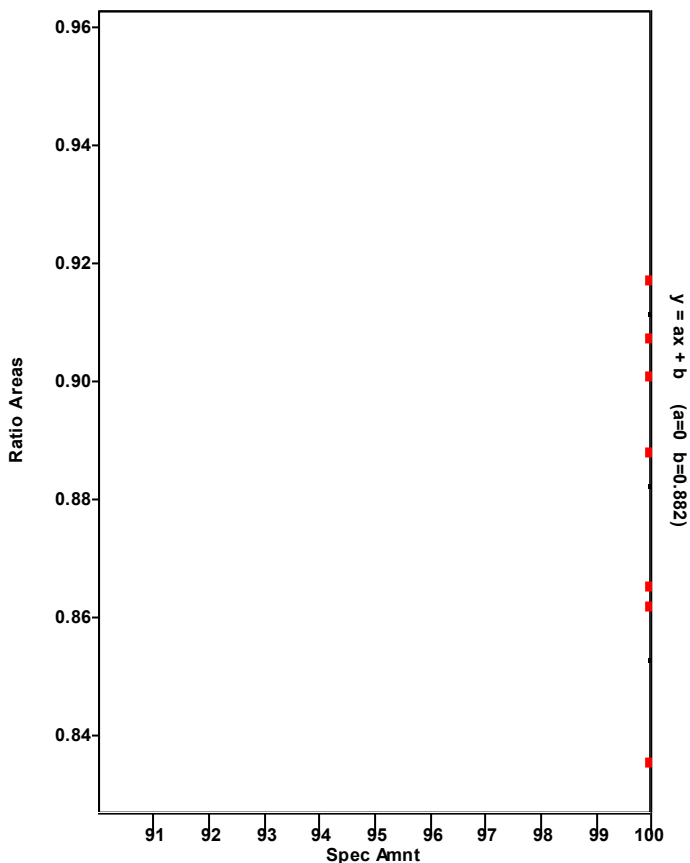
RT: 39.38 - 41.38 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	975528
RM1 Area	1256629
RM1 Ratio (A)	1.2882
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	73.89
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

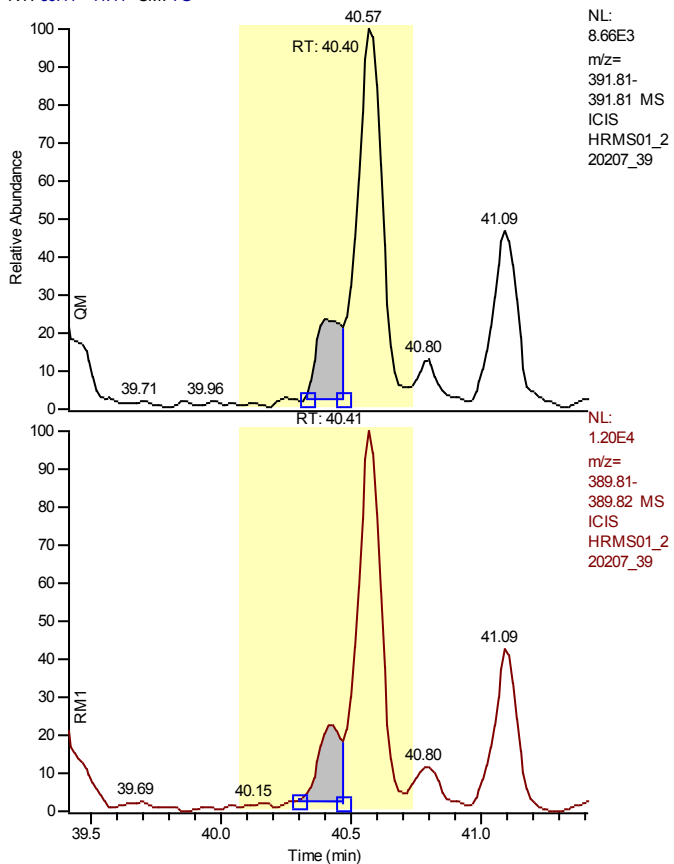
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.41 - 41.41 SM: 7G



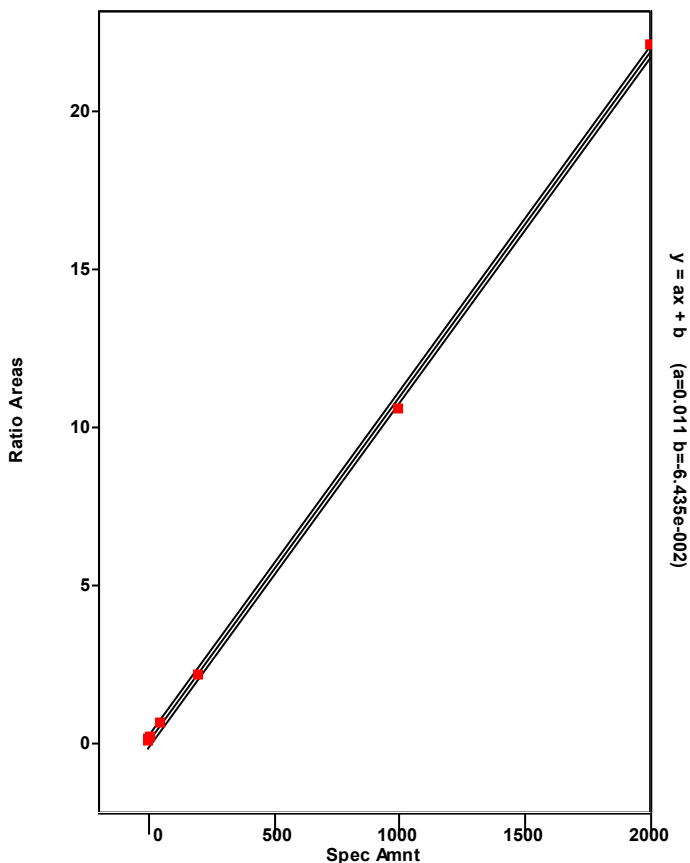
NL:
 8.66E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	11857
RM1 Area	14315
RM1 Ratio (A)	1.2073
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.07
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

NL:
 1.20E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_39

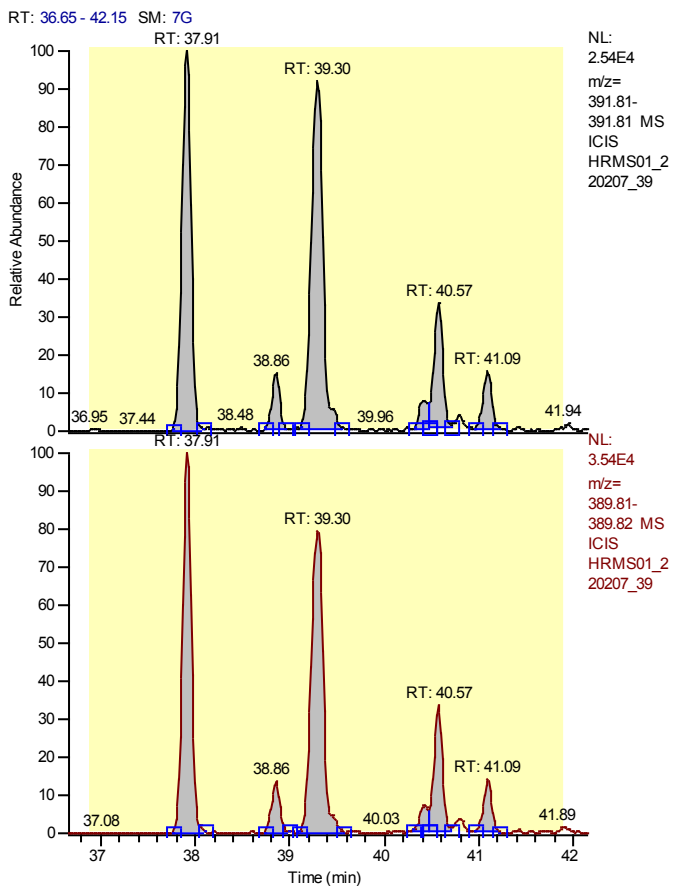
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

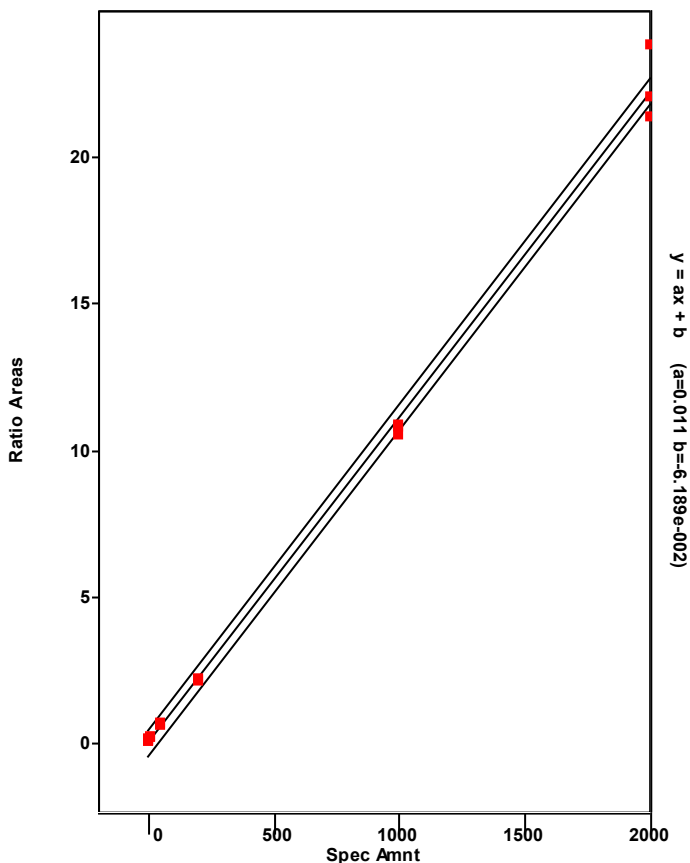
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	483375
RM1 Area	625645
RM1 Ratio (A)	1.2943
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	44.56
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin

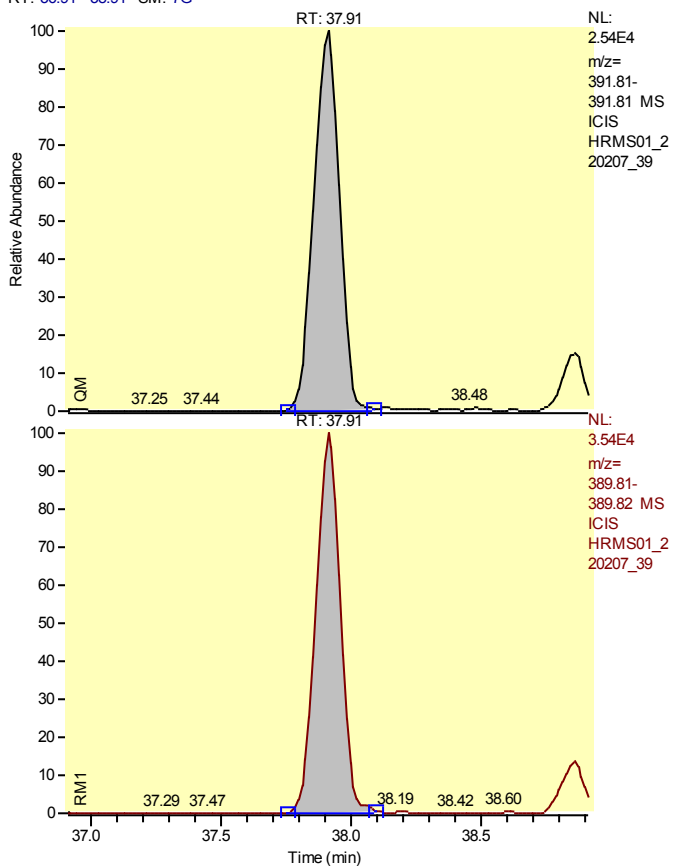
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

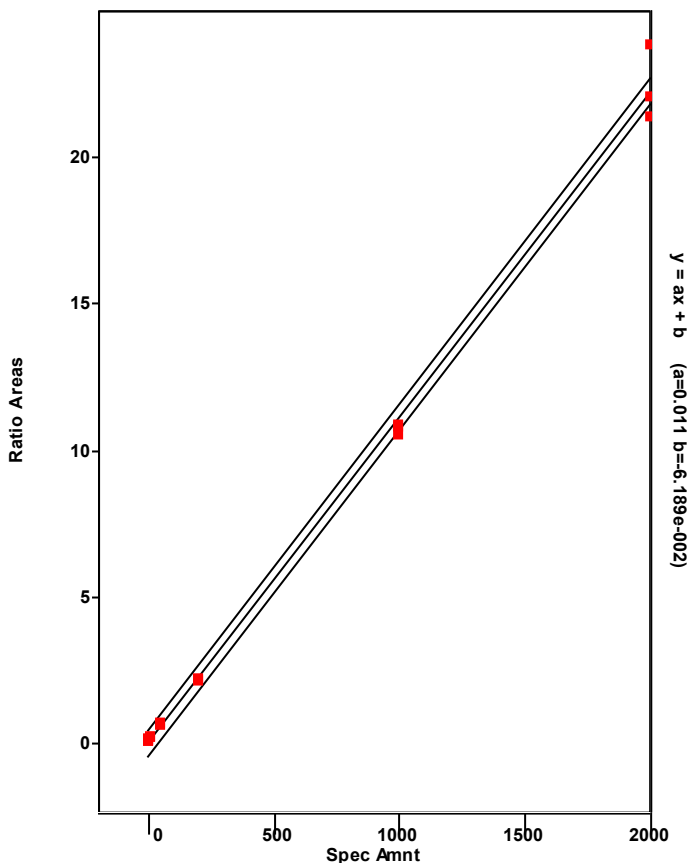
RT: 36.91 - 38.91 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	170976
RM1 Area	228640
RM1 Ratio (A)	1.3373
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	16.06
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

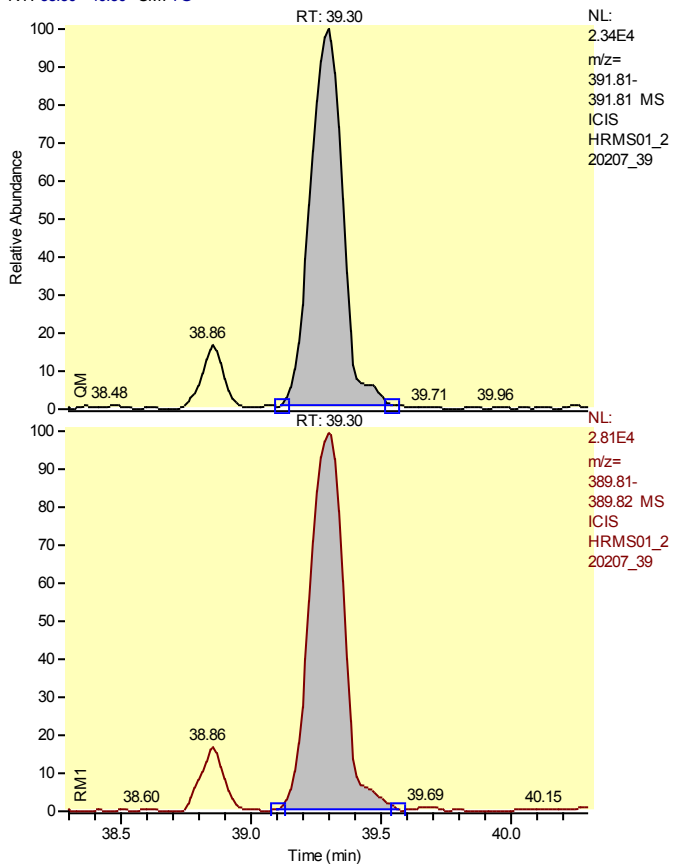
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

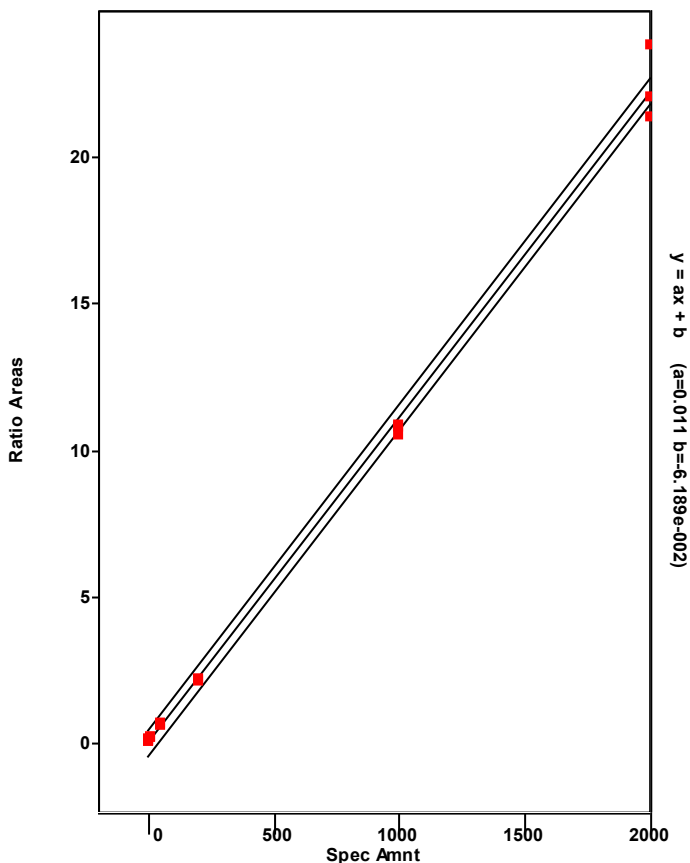
RT: 38.30 - 40.30 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	199201
RM1 Area	252137
RM1 Ratio (A)	1.2657
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	18.14
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

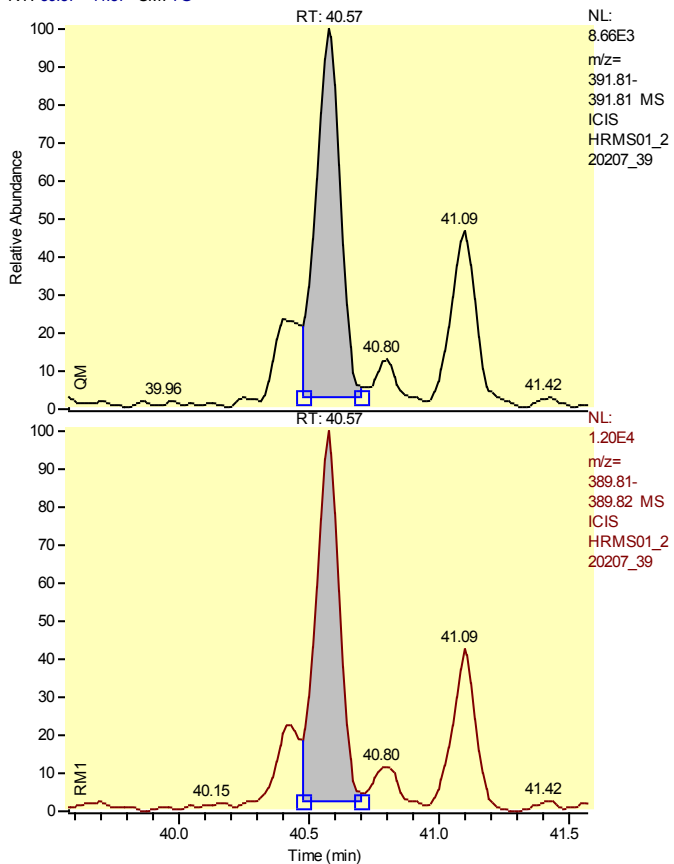
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

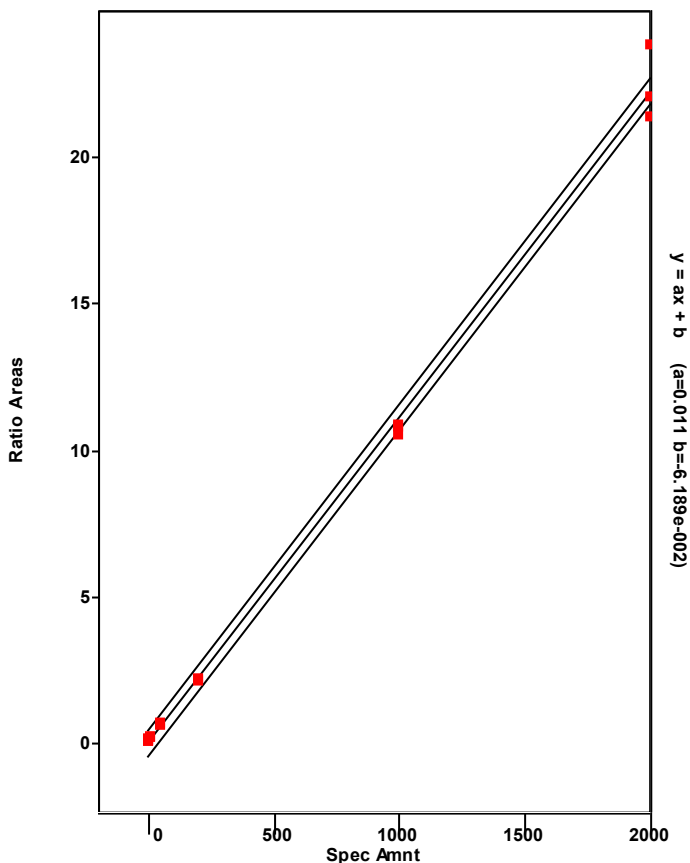
RT: 39.57 - 41.57 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	55013
RM1 Area	72085
RM1 Ratio (A)	1.3103
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

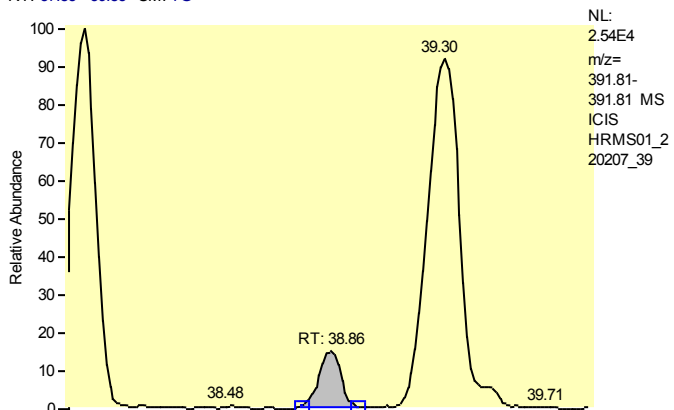
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



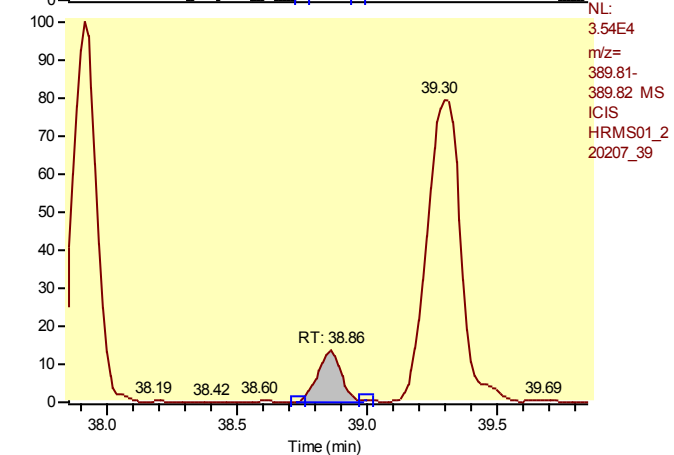
Chromatogram

Entry Parameters

RT: 37.85 - 39.85 SM: 7G

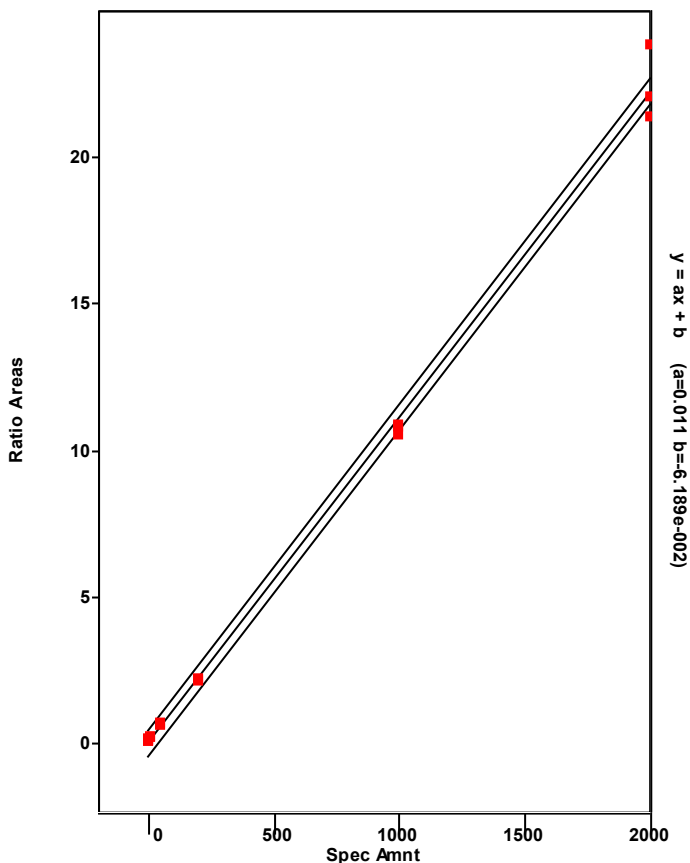


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	21918
RM1 Area	29018
RM1 Ratio (A)	1.3239
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

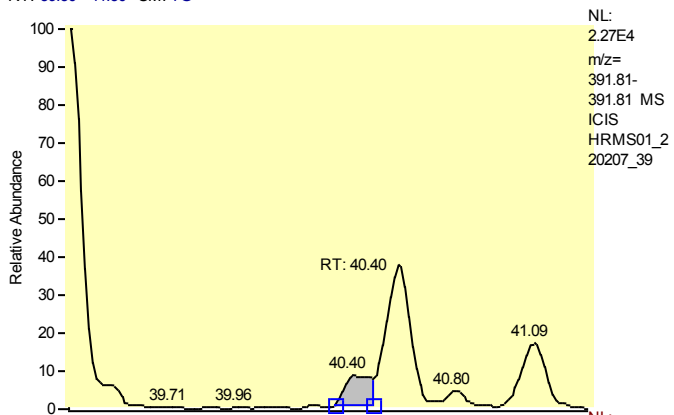
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



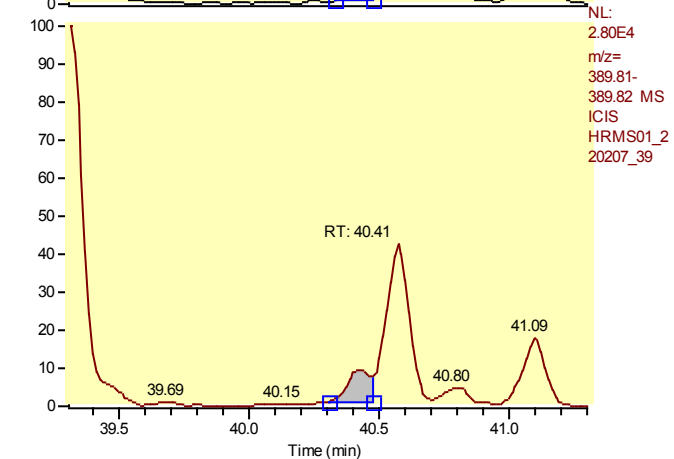
Chromatogram

Entry Parameters

RT: 39.30 - 41.30 SM: 7G

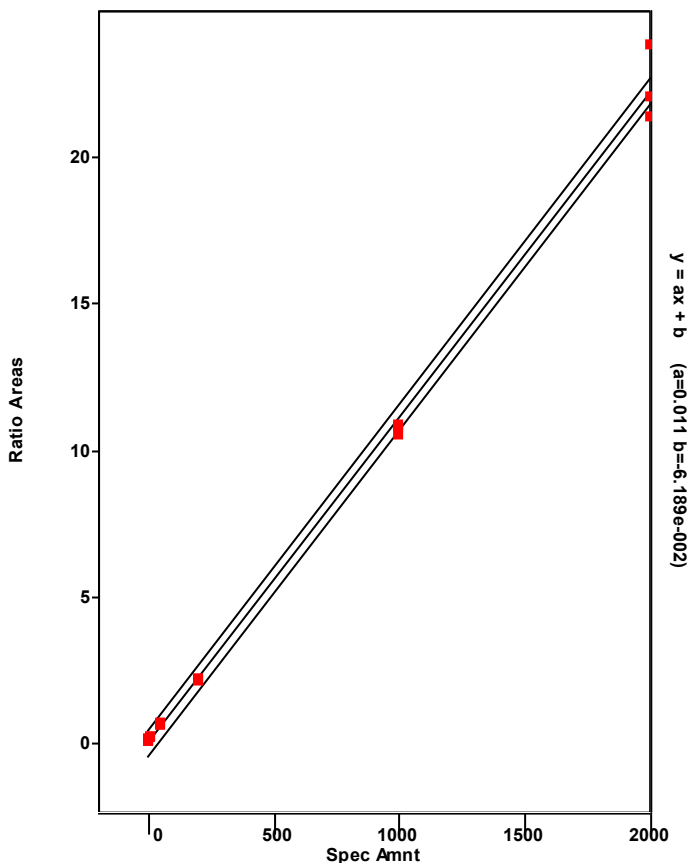


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__5
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	11857
RM1 Area	14315
RM1 Ratio (A)	1.2073
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



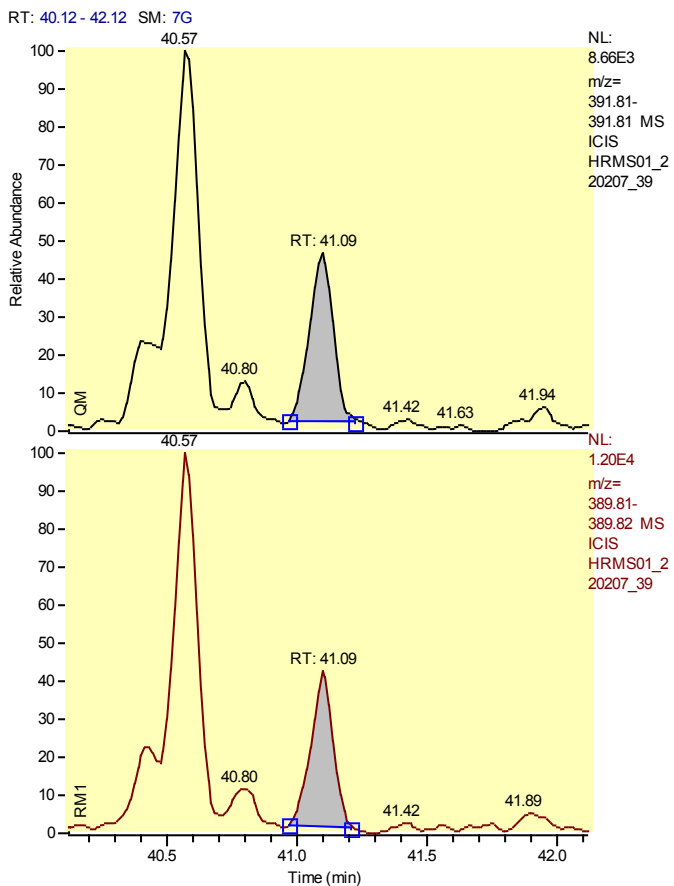
Calibration Points of Total Hexachlorodibenzo-p-dioxin__5

Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

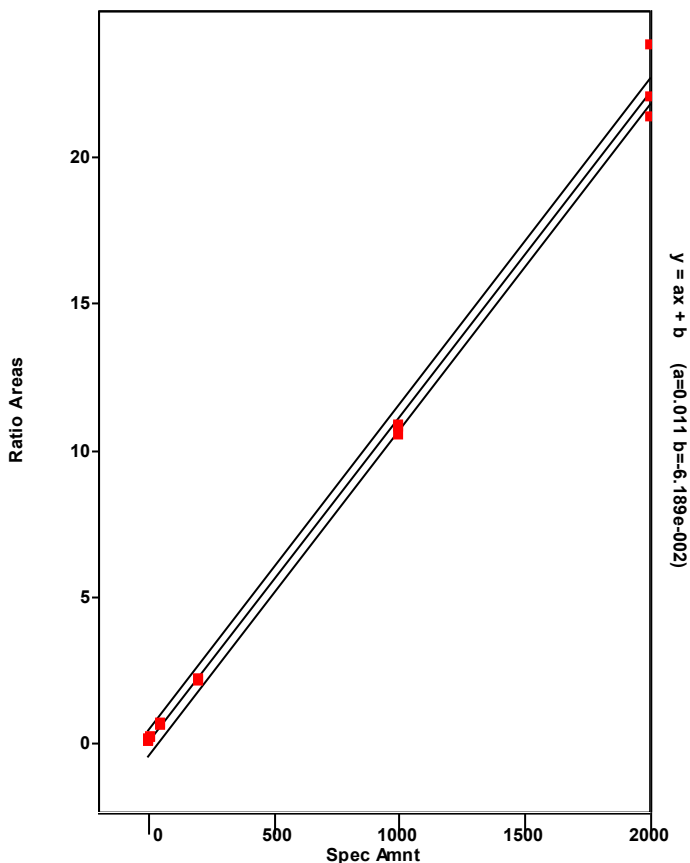
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__6
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	24411
RM1 Area	29450
RM1 Ratio (A)	1.2064
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.16
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__6

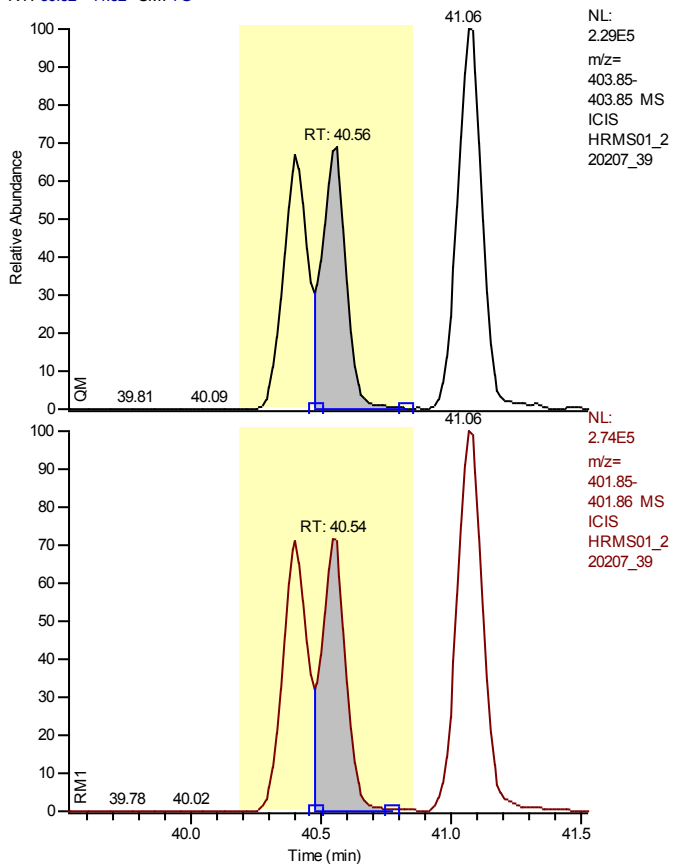
Linear Fit: StdDev = 0.443 RSD = 8.644 CF = 0.997006



Chromatogram

Entry Parameters

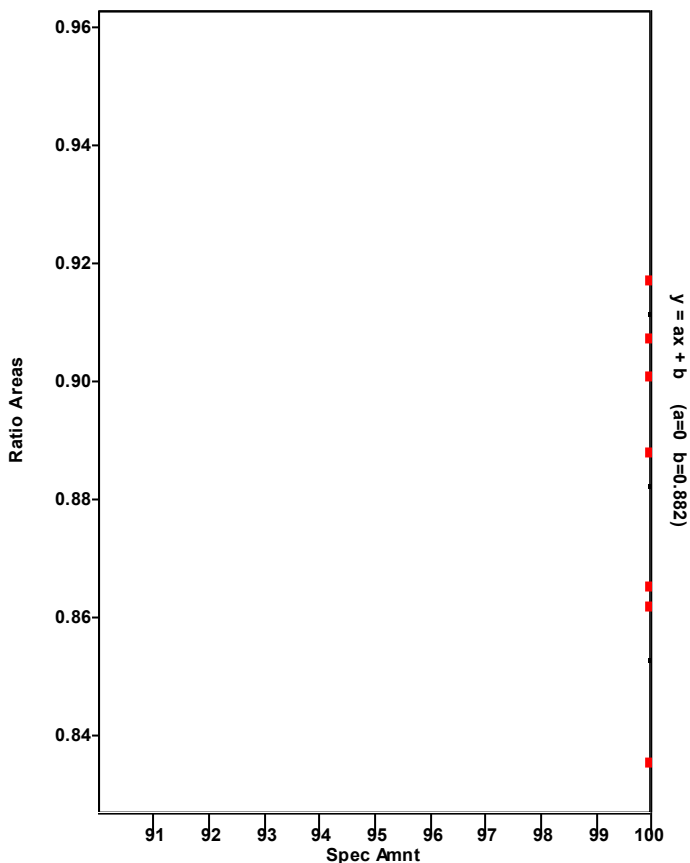
RT: 39.52 - 41.52 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	1014708
RM1 Area	1268889
RM1 Ratio (A)	1.2505
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	75.59
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

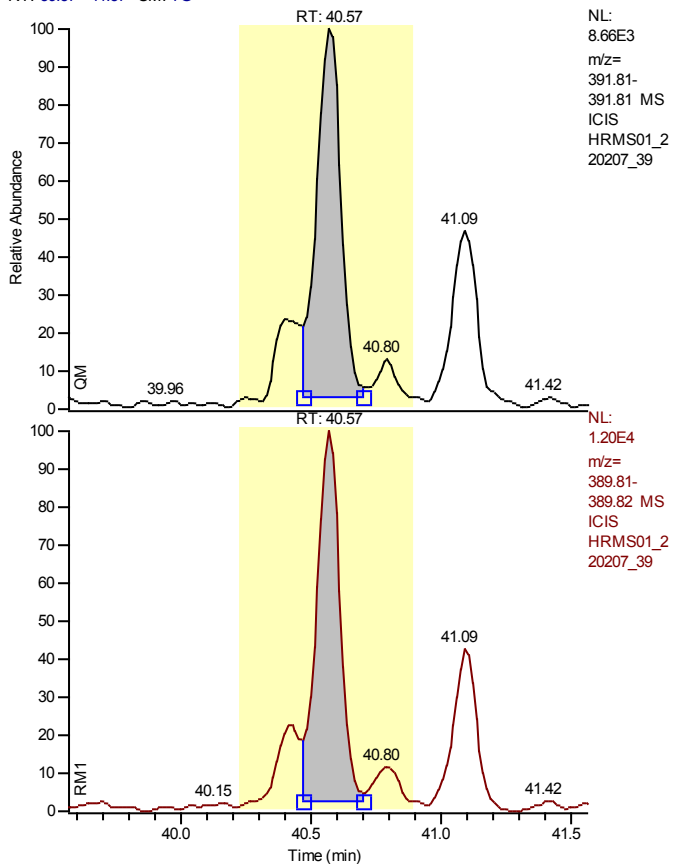
Linear Fit: StdDev = 0.029 RSD = 3.322 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.57 - 41.57 SM: 7G



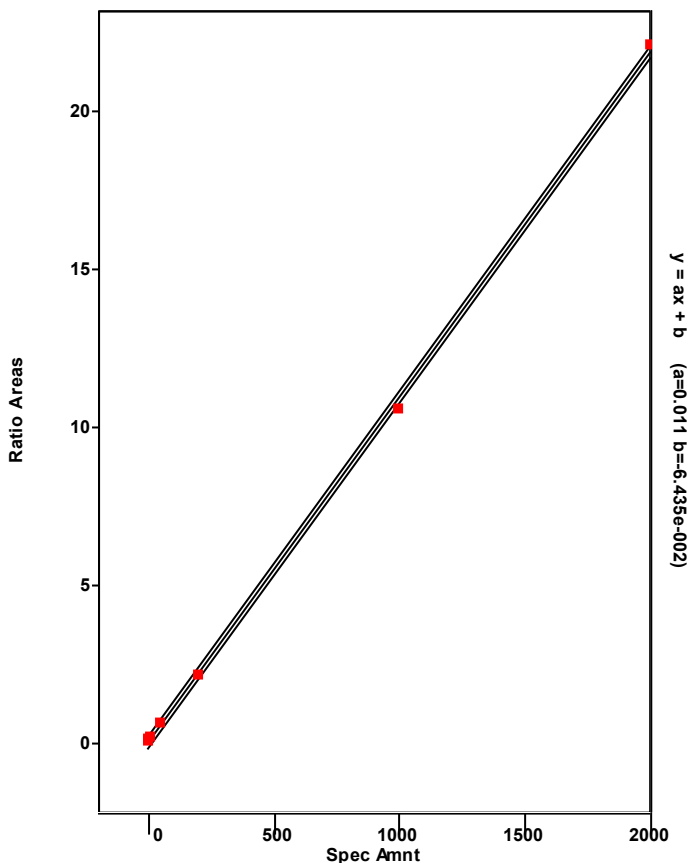
NL:
 8.66E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 1.20E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	55013
RM1 Area	72085
RM1 Ratio (A)	1.3103
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	5.08
Percent Recovery (A)	---
TEQ (A)	0.5079
Label2	

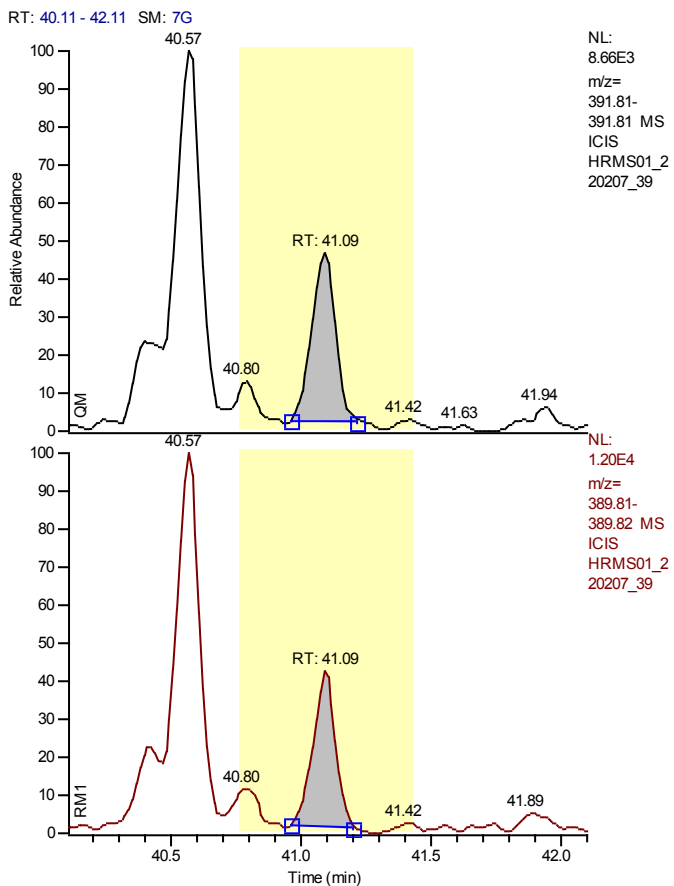
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.197 RSD = 3.907 CF = 0.999449



Chromatogram

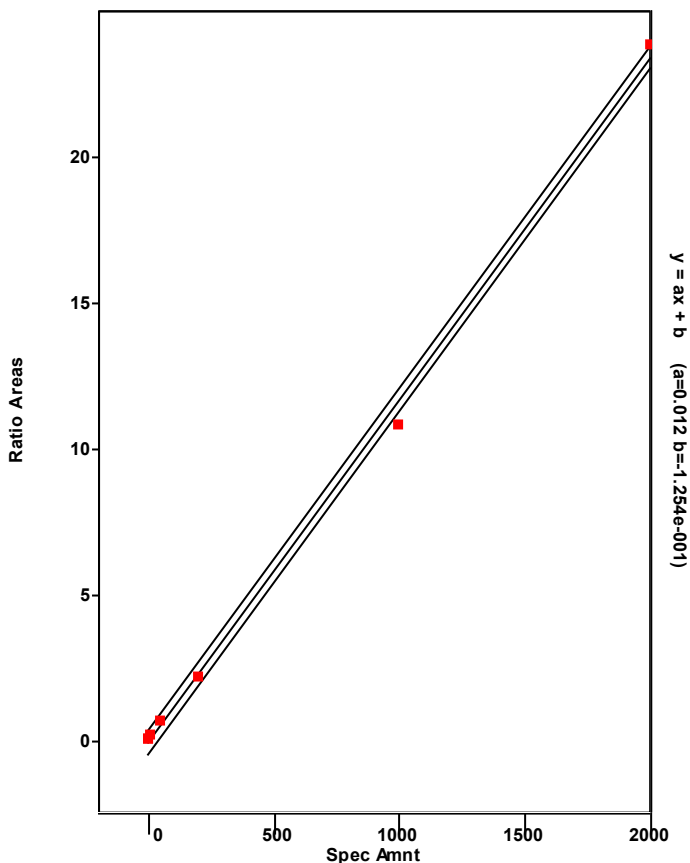
Entry Parameters



Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	24411
RM1 Area	29450
RM1 Ratio (A)	1.2064
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.04
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

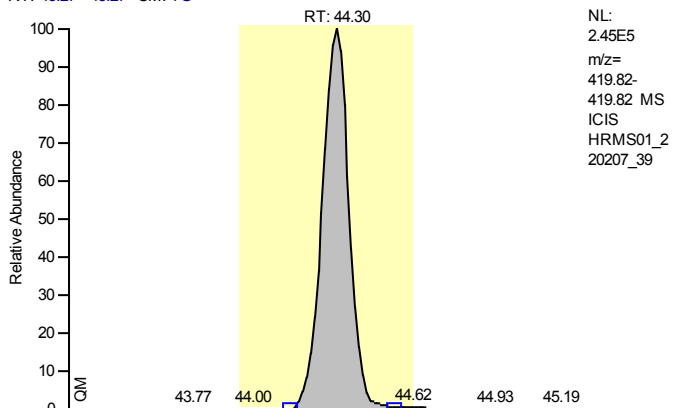
Linear Fit: StdDev = 0.400 RSD = 7.475 CF = 0.998028



Chromatogram

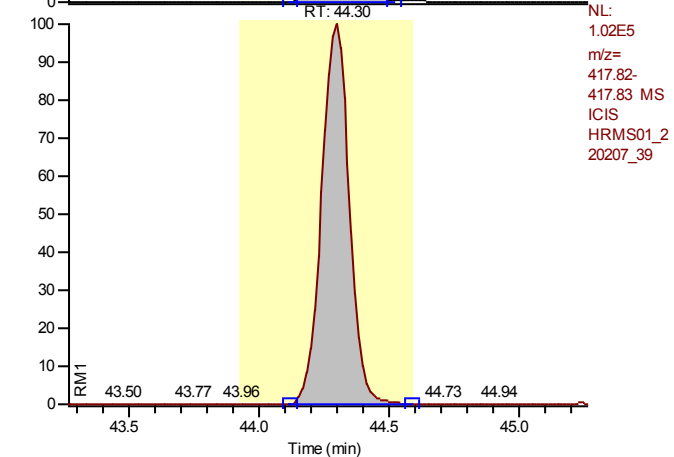
Entry Parameters

RT: 43.27 - 45.27 SM: 7G



NL:
 2.45E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_39

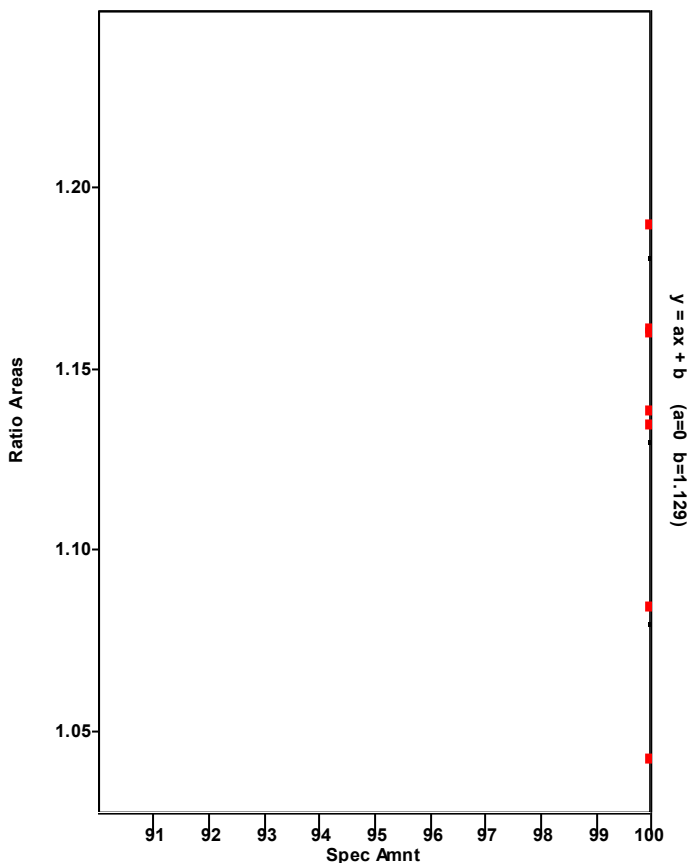
Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1765884
RM1 Area	754382
RM1 Ratio (A)	0.4272
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	65.13
Percent Recovery (A)	65
TEQ (A)	0.0000
Label2	



NL:
 1.02E5
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

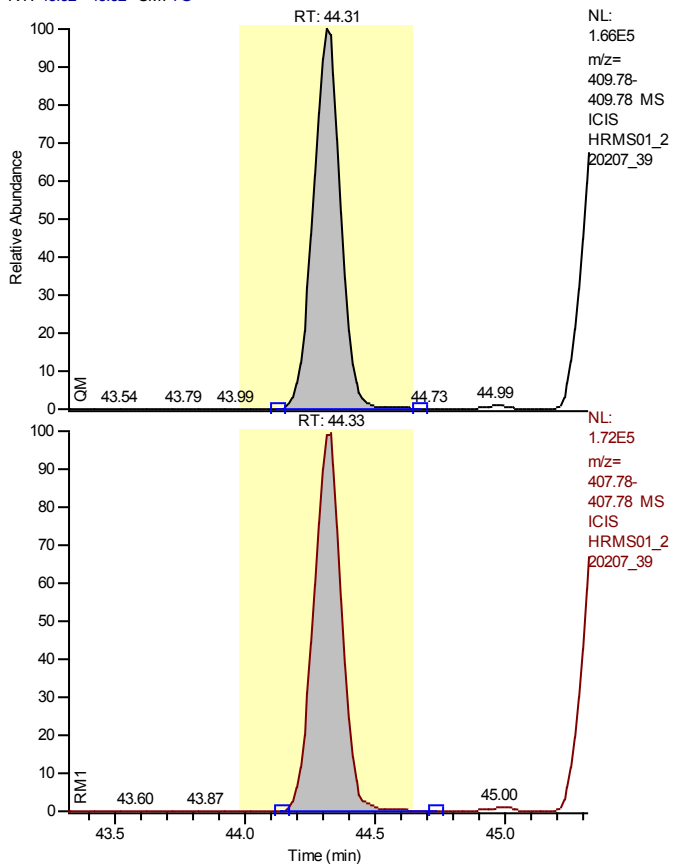
Linear Fit: StdDev = 0.050 RSD = 4.462 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.32 - 45.32 SM: 7G



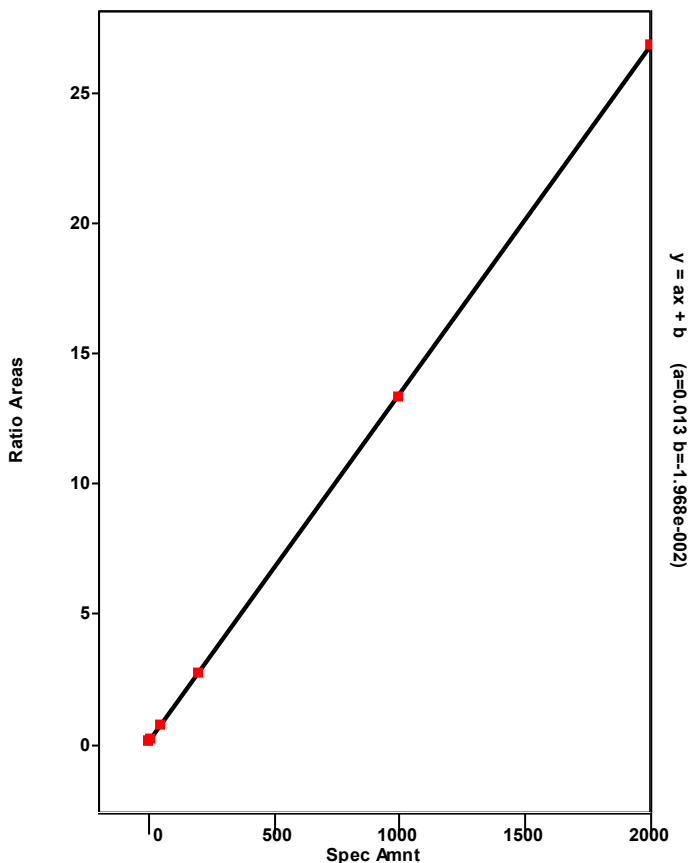
NL:
 1.66E5
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 1.72E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	1213463
RM1 Area	1277726
RM1 Ratio (A)	1.0530
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	73.26
Percent Recovery (A)	---
TEQ (A)	0.7326
Label2	

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

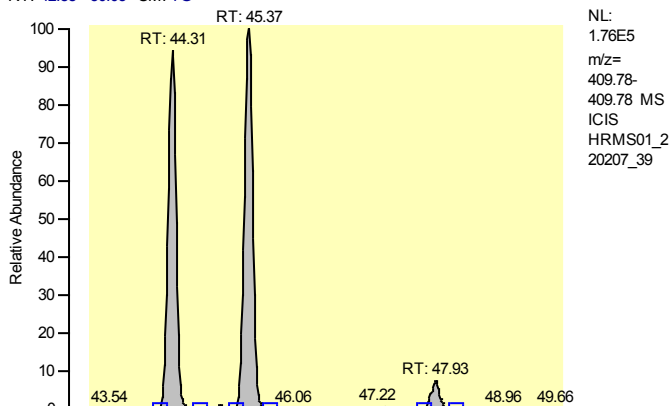
Linear Fit: StdDev = 0.053 RSD = 0.859 CF = 0.999973



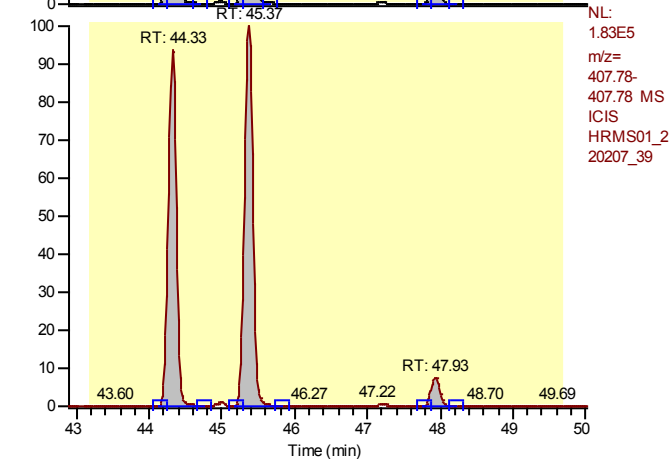
Chromatogram

Entry Parameters

RT: 42.88 - 50.03 SM: 7G

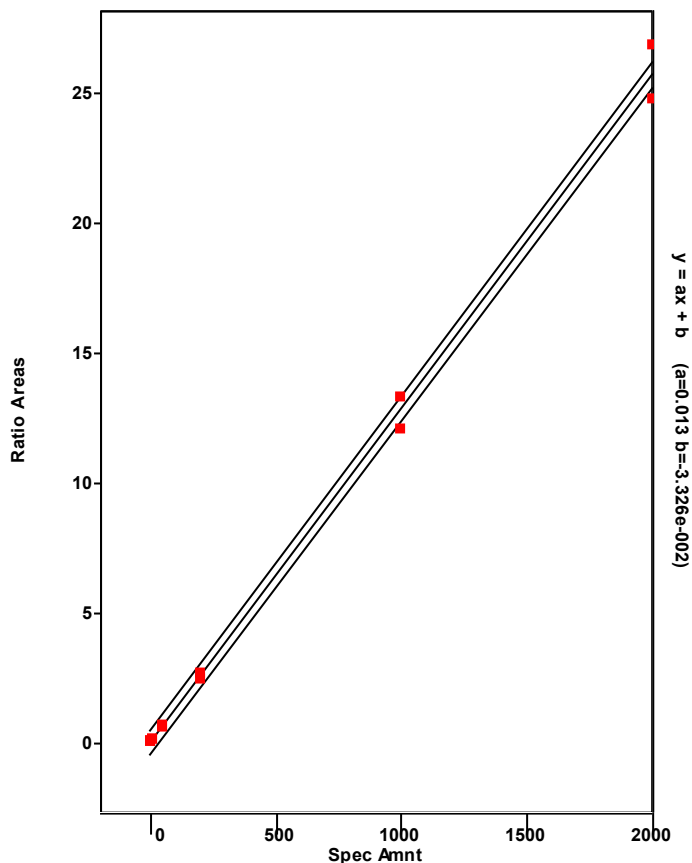


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	2651623
RM1 Area	2799367
RM1 Ratio (A)	1.0557
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	168.36
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran

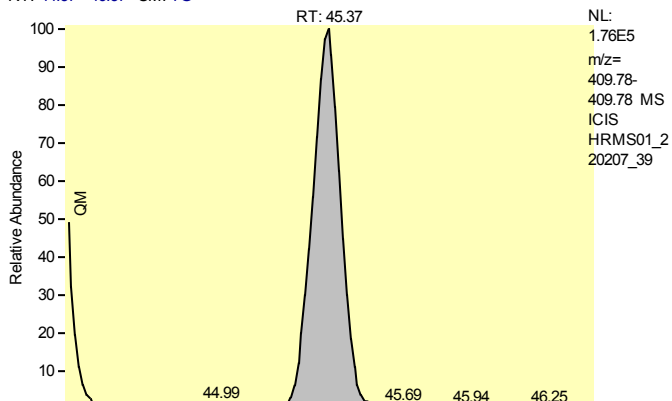
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

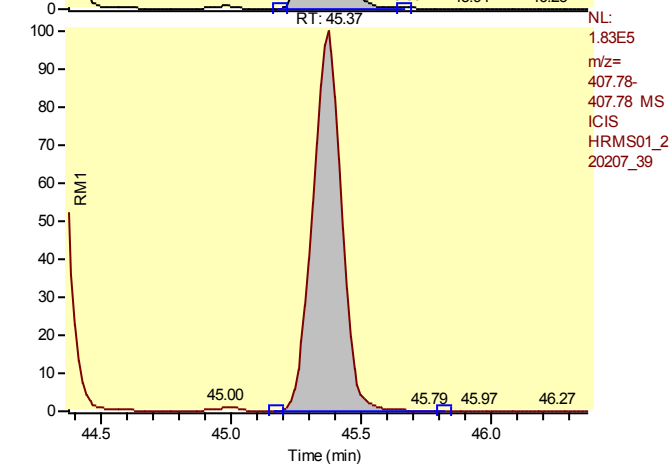
Entry Parameters

RT: 44.37 - 46.37 SM: 7G



NL:
 1.76E5
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_39

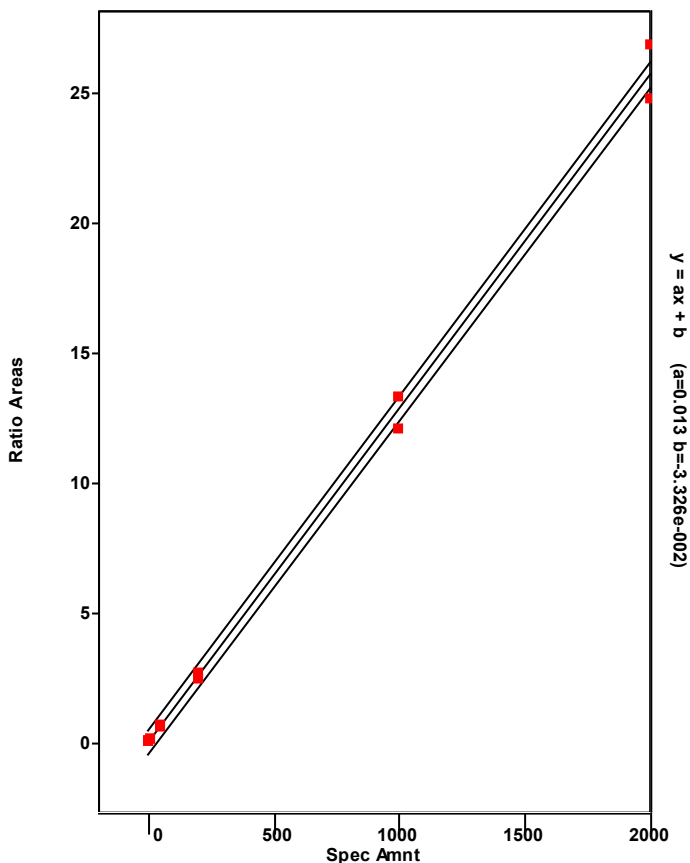
Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1330905
RM1 Area	1401951
RM1 Ratio (A)	1.0534
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	84.41
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 1.83E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of Total Heptachlorodibenzofuran__1

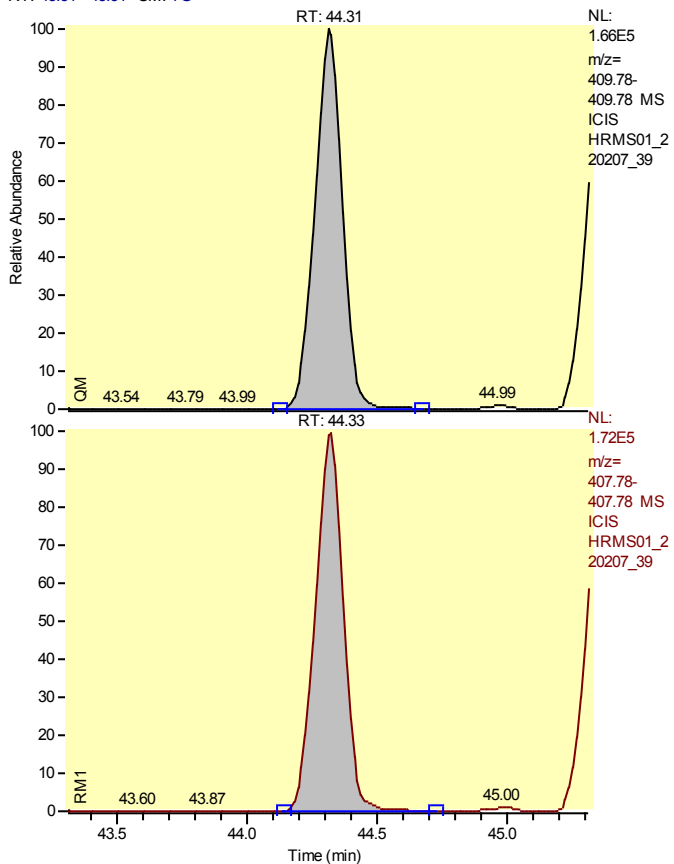
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

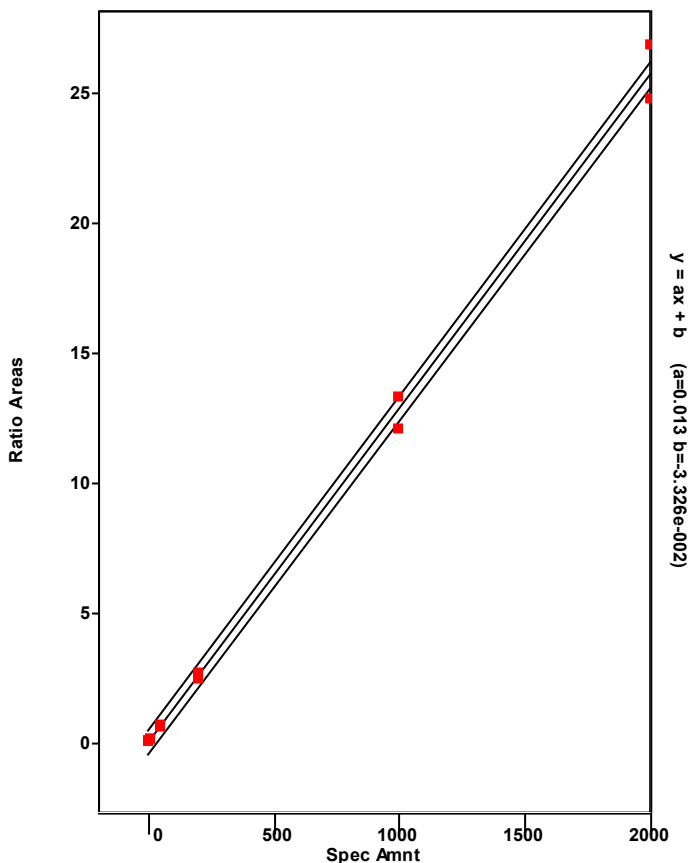
RT: 43.31 - 45.31 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	1213463
RM1 Area	1277726
RM1 Ratio (A)	1.0530
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	76.94
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__2

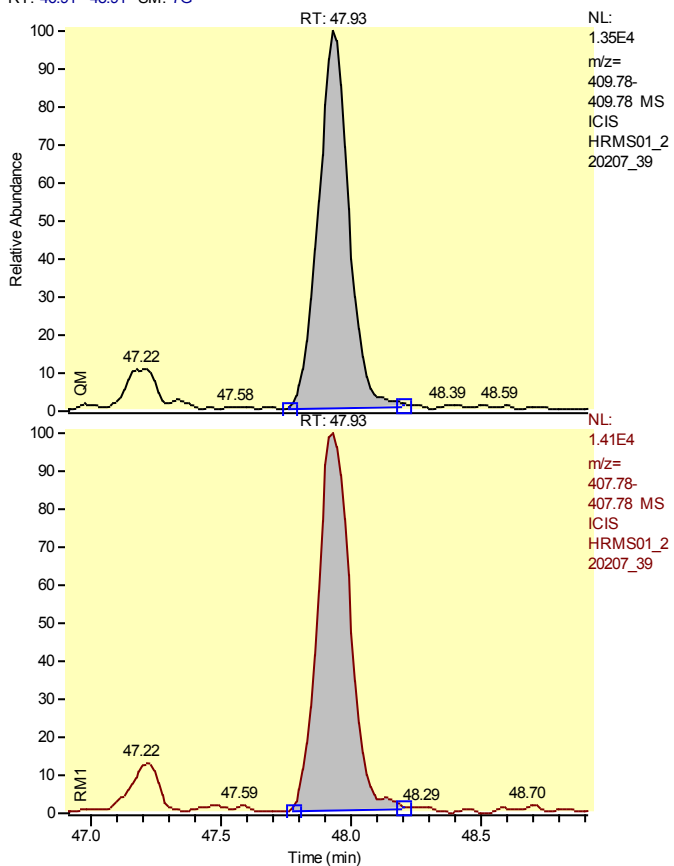
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

Entry Parameters

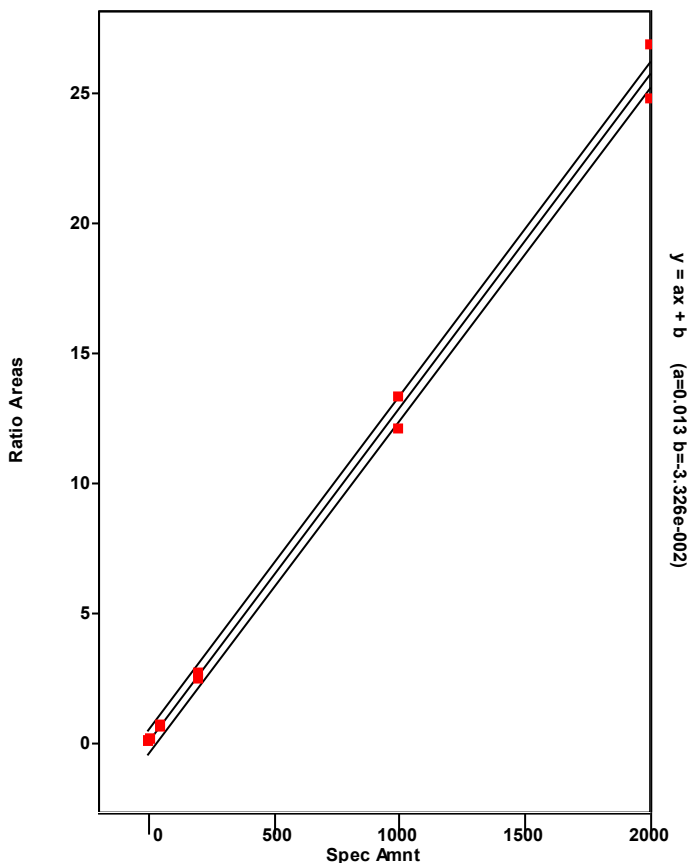
RT: 46.91 - 48.91 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__3
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	107255
RM1 Area	119690
RM1 Ratio (A)	1.1159
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	7.01
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__3

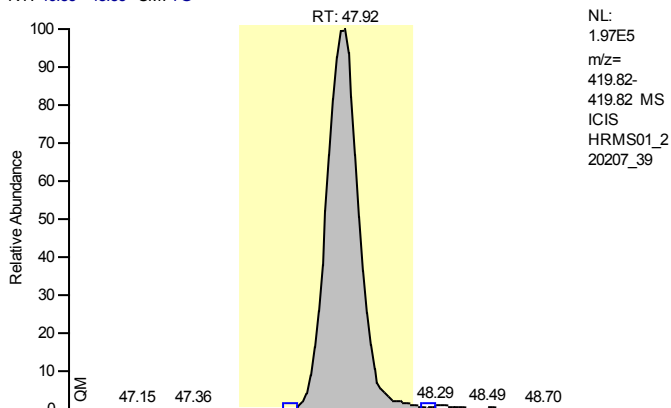
Linear Fit: StdDev = 0.488 RSD = 8.201 CF = 0.997338



Chromatogram

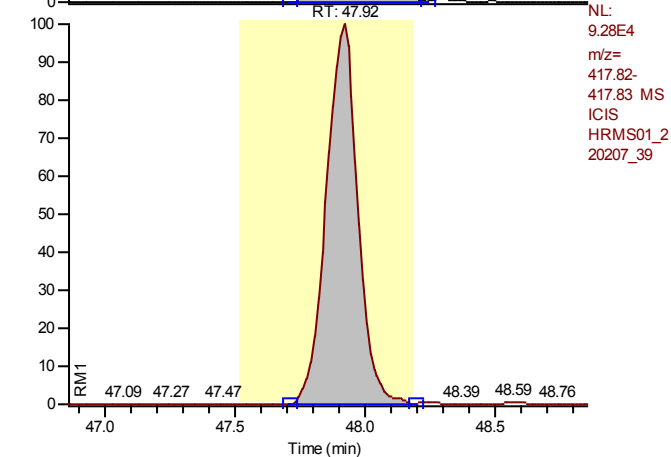
Entry Parameters

RT: 46.85 - 48.85 SM: 7G



NL:
 1.97E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_39

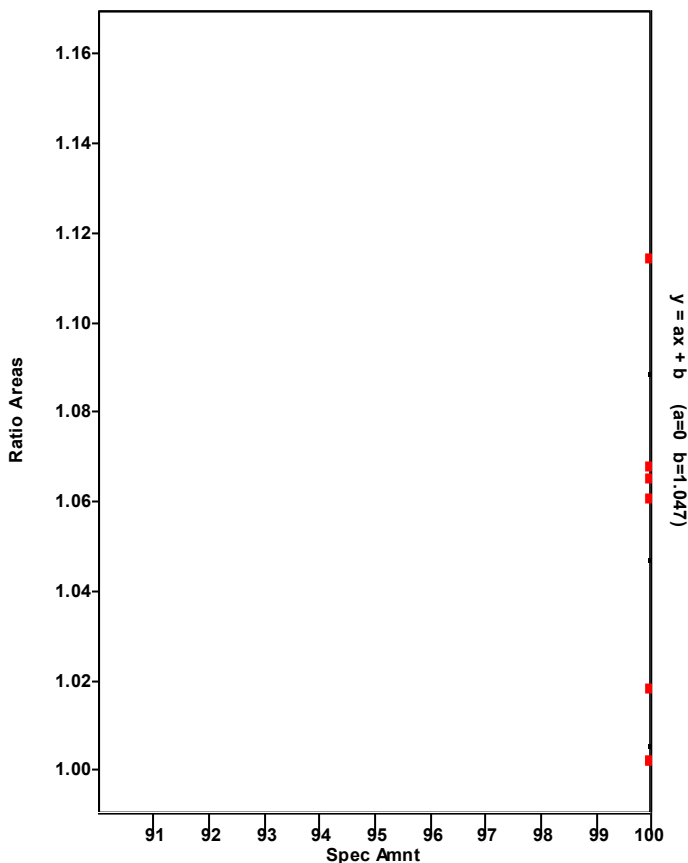
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1702577
RM1 Area	784805
RM1 Ratio (A)	0.4610
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	69.36
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	



NL:
 9.28E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_39

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

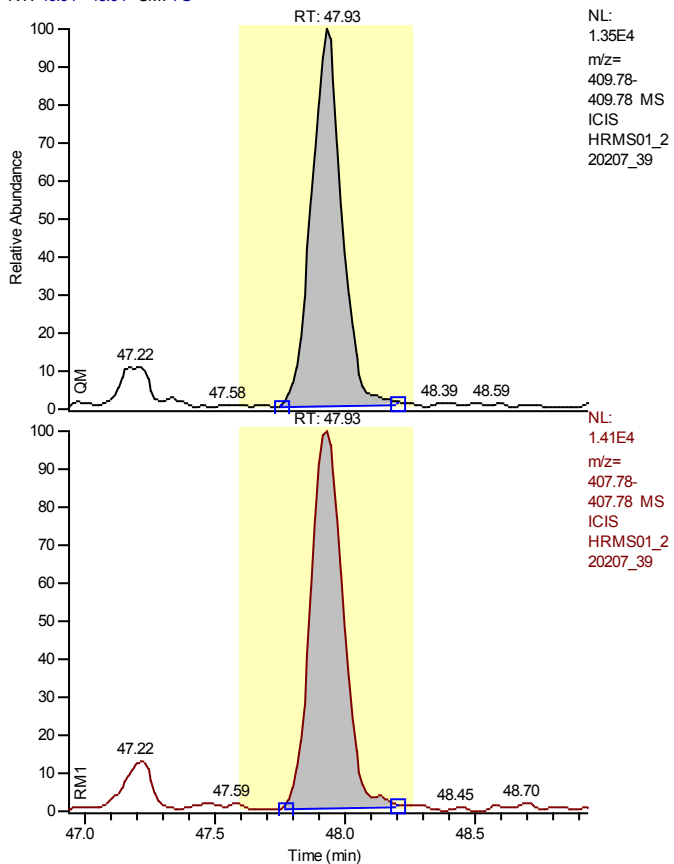
Linear Fit: StdDev = 0.041 RSD = 3.957 CF = 0.000000



Chromatogram

Entry Parameters

RT: 46.94 - 48.94 SM: 7G



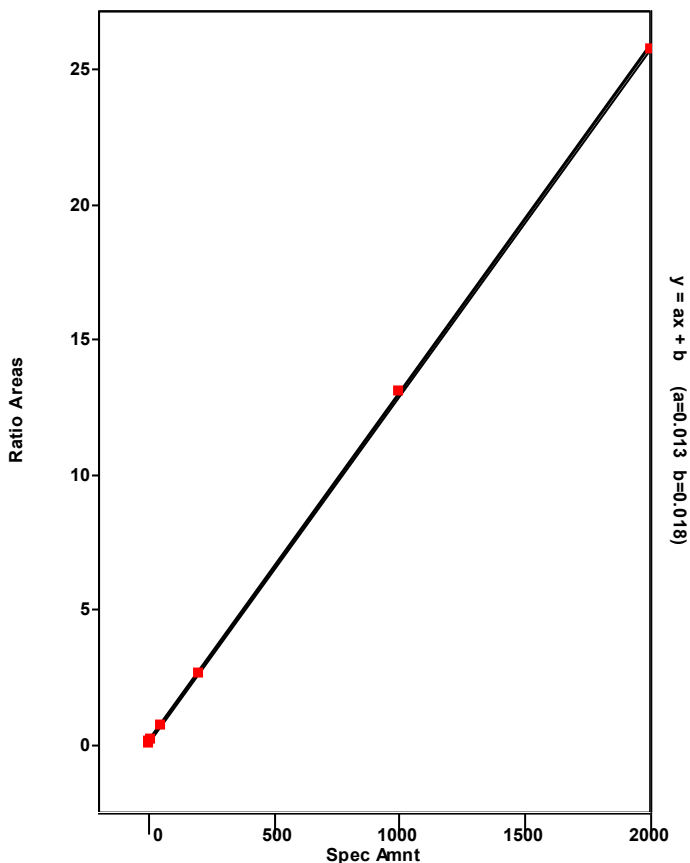
NL:
 1.35E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 1.41E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	107255
RM1 Area	119690
RM1 Ratio (A)	1.1159
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	6.93
Percent Recovery (A)	---
TEQ (A)	0.0693
Label2	

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

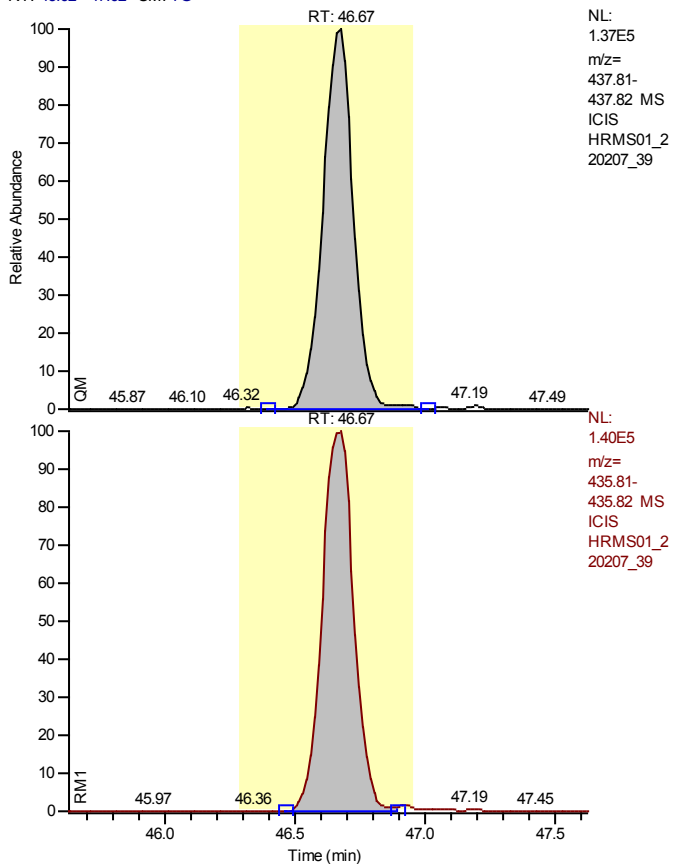
Linear Fit: StdDev = 0.076 RSD = 1.269 CF = 0.999940



Chromatogram

Entry Parameters

RT: 45.62 - 47.62 SM: 7G



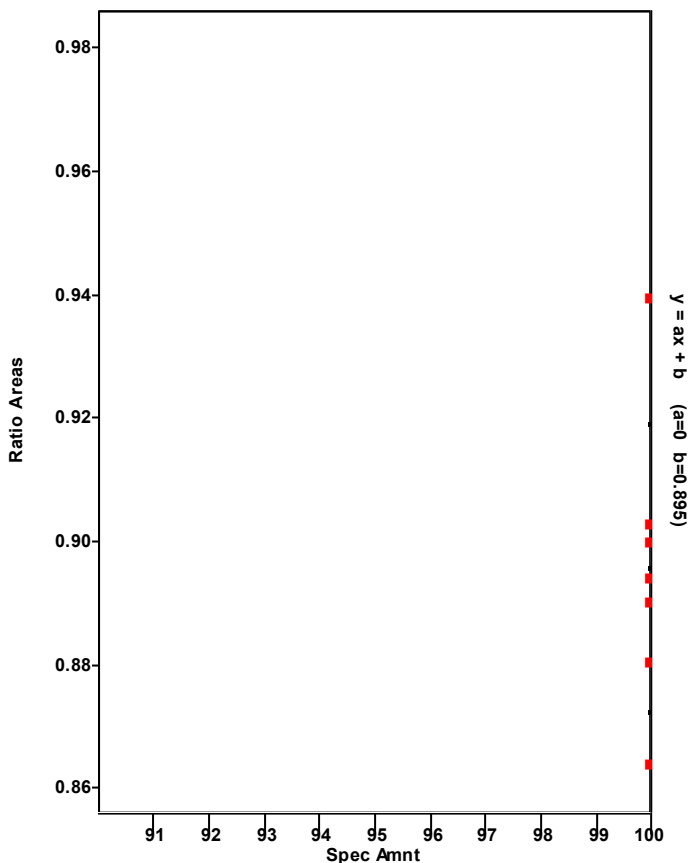
NL:
 1.37E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_39

NL:
 1.40E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_39

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	1123367
RM1 Area	1188360
RM1 Ratio (A)	1.0579
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	75.36
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

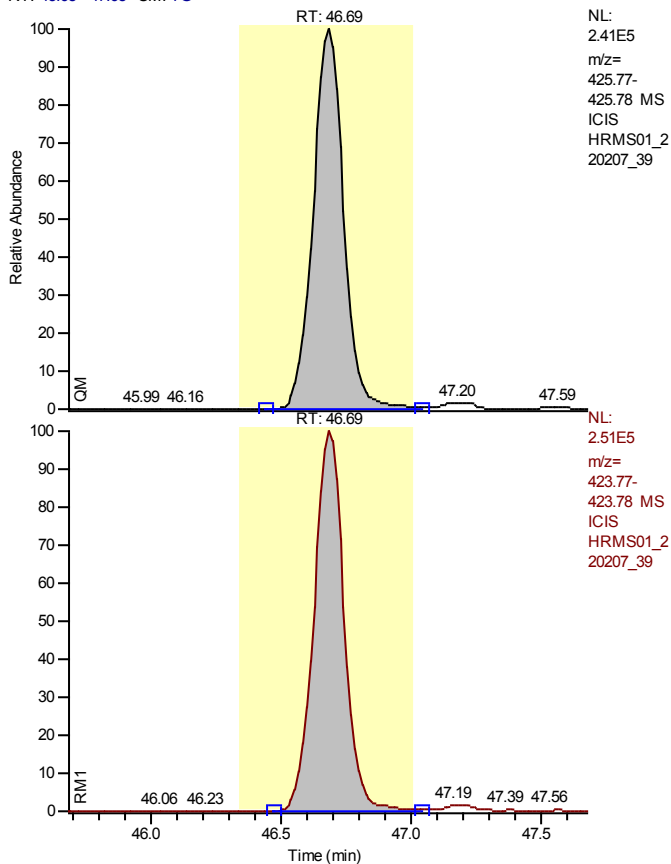
Linear Fit: StdDev = 0.023 RSD = 2.602 CF = 0.000000



Chromatogram

Entry Parameters

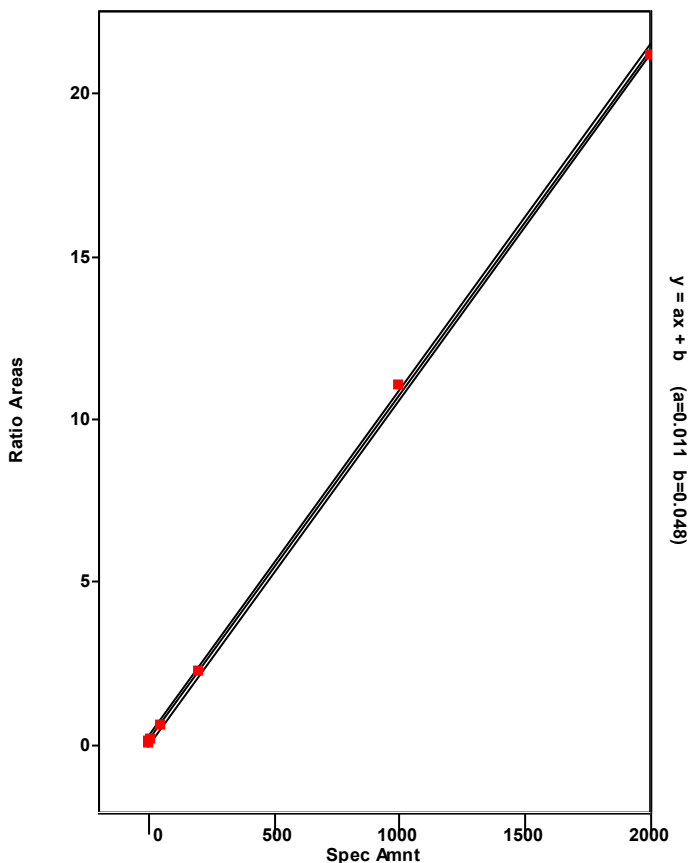
RT: 45.68 - 47.68 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	1947712
RM1 Area	2018366
RM1 Ratio (A)	1.0363
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	154.80
Percent Recovery (A)	---
TEQ (A)	1.5480
Label2	

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

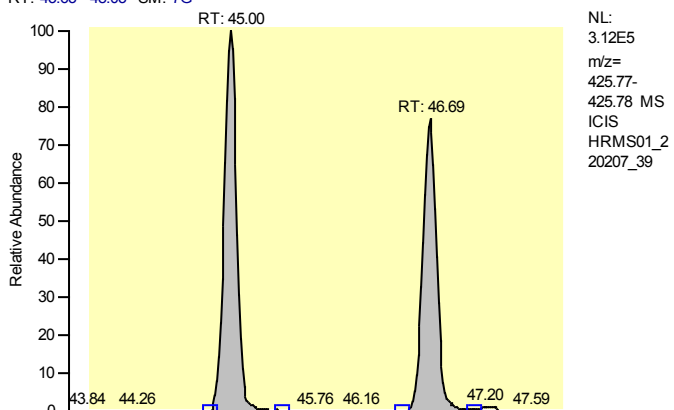
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



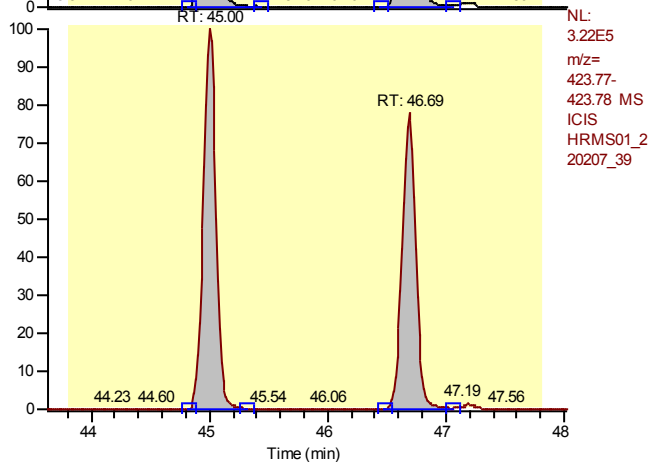
Chromatogram

Entry Parameters

RT: 43.63 - 48.03 SM: 7G

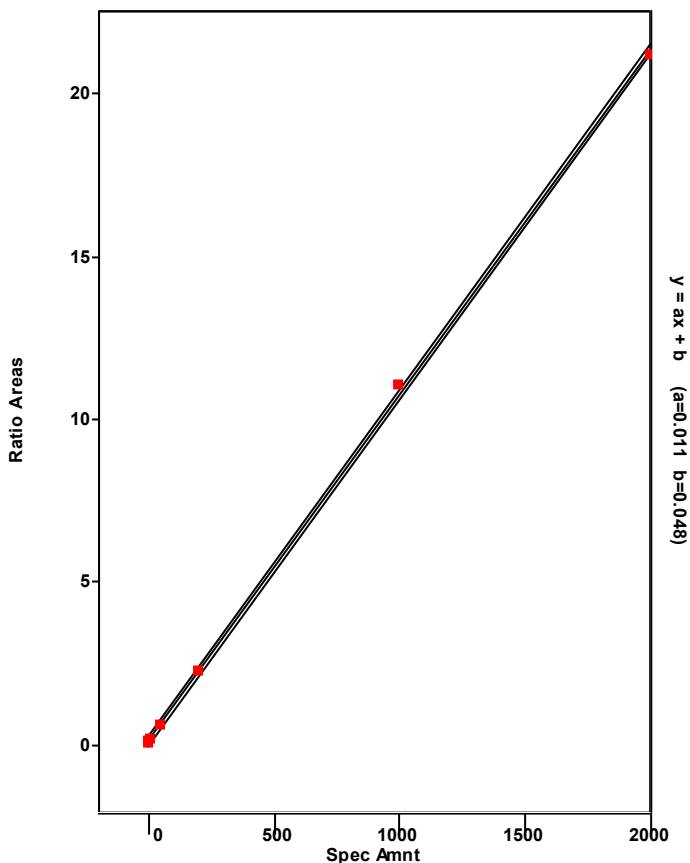


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	4234753
RM1 Area	4400616
RM1 Ratio (A)	1.0392
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	337.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzo-p-dioxin

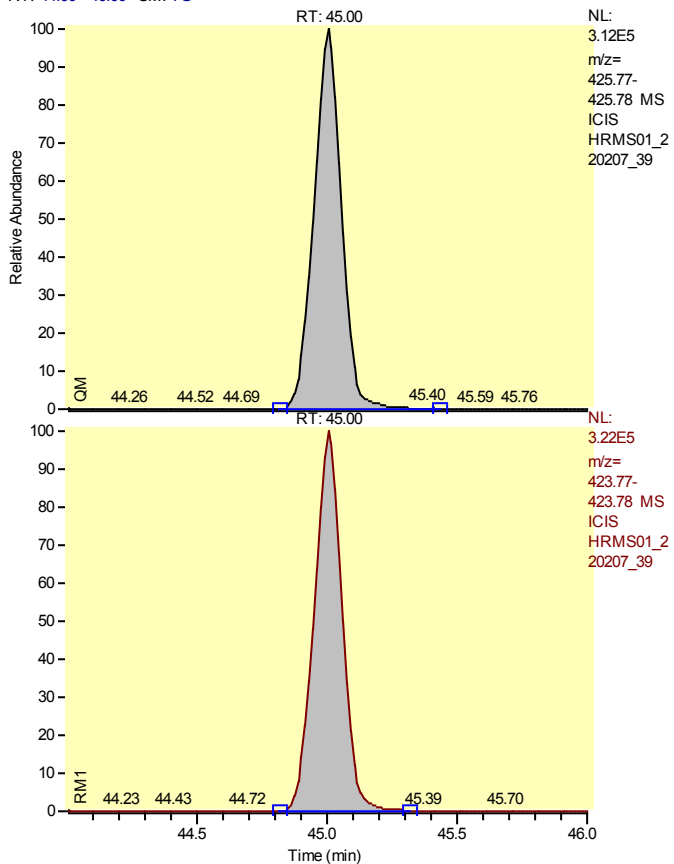
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

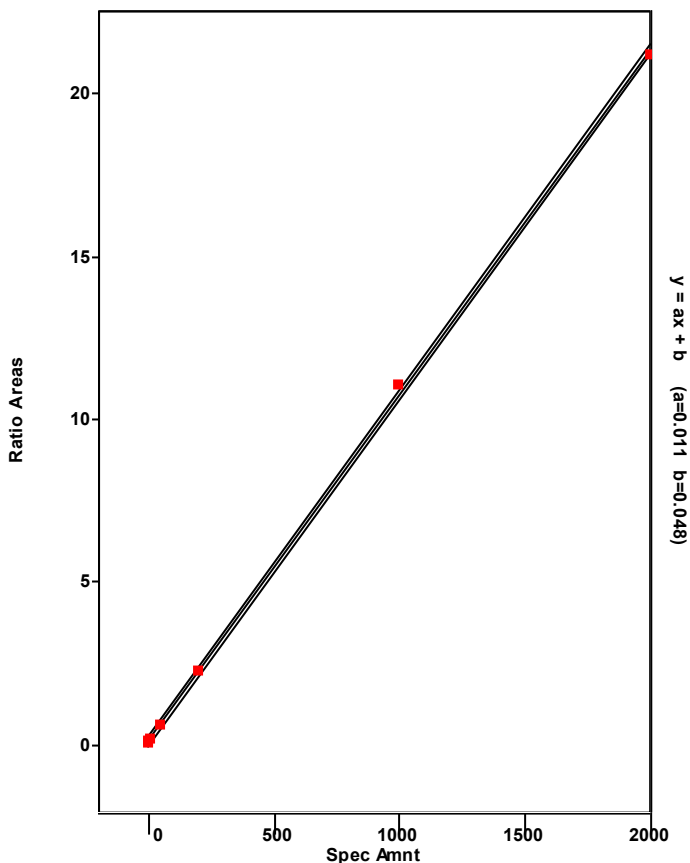
RT: 44.00 - 46.00 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	2287041
RM1 Area	2382251
RM1 Ratio (A)	1.0416
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	182.25
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

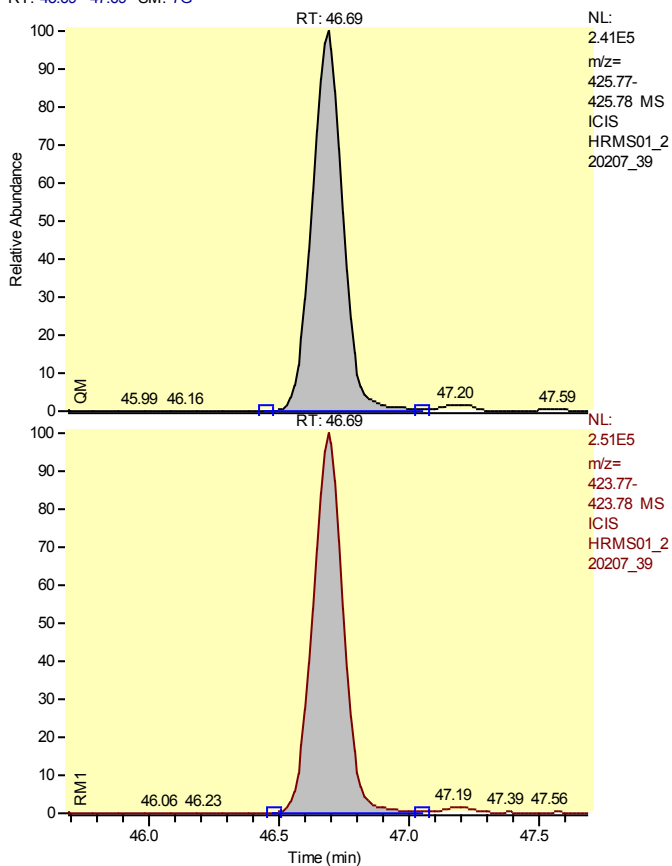
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



Chromatogram

Entry Parameters

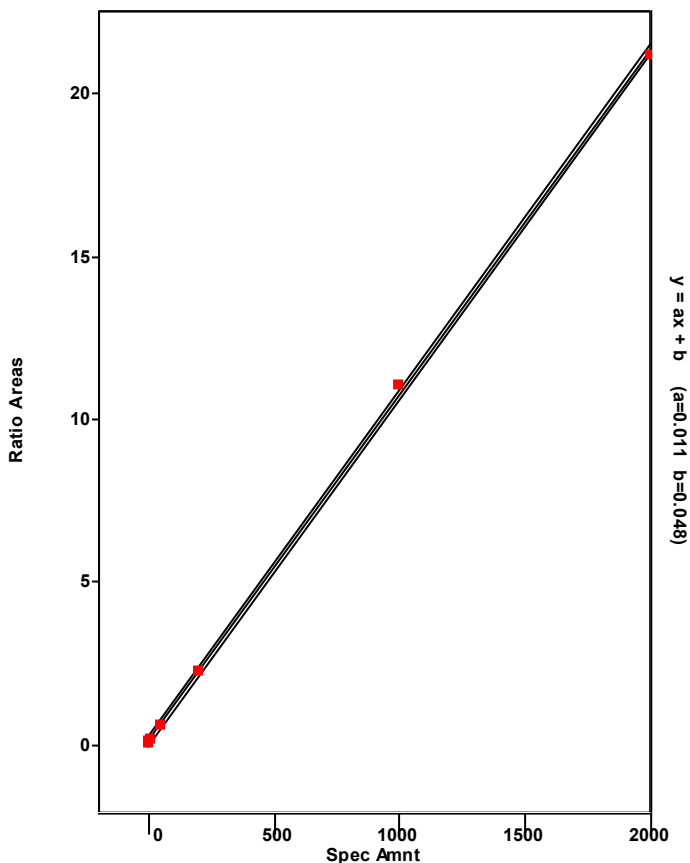
RT: 45.69 - 47.69 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1947712
RM1 Area	2018366
RM1 Ratio (A)	1.0363
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	154.80
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

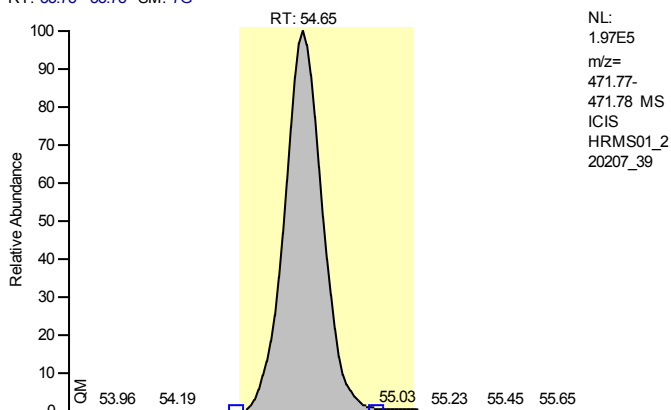
Linear Fit: StdDev = 0.145 RSD = 2.892 CF = 0.999684



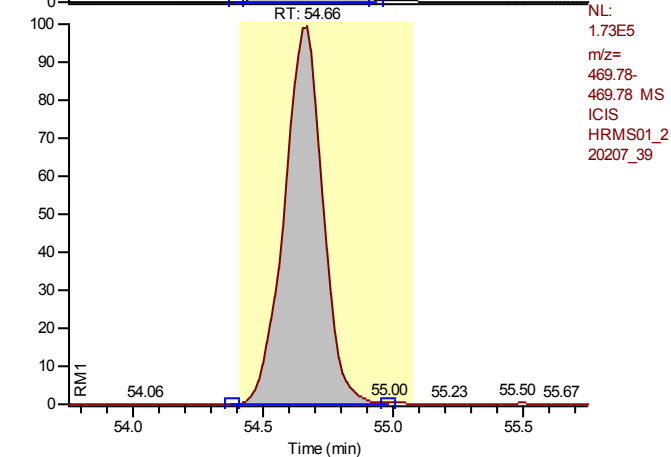
Chromatogram

Entry Parameters

RT: 53.75- 55.75 SM: 7G

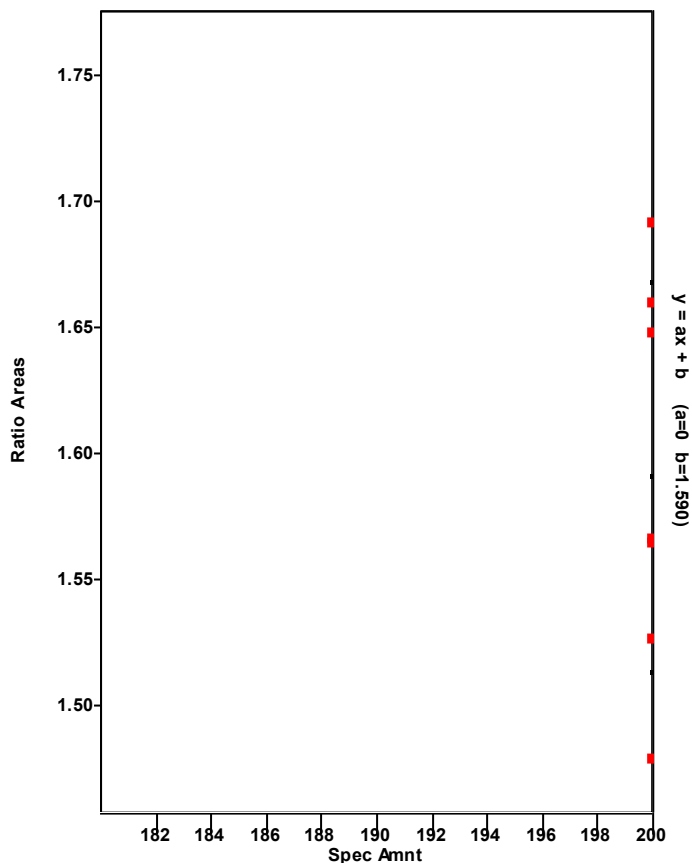


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	2003621
RM1 Area	1773337
RM1 Ratio (A)	0.8851
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	138.68
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

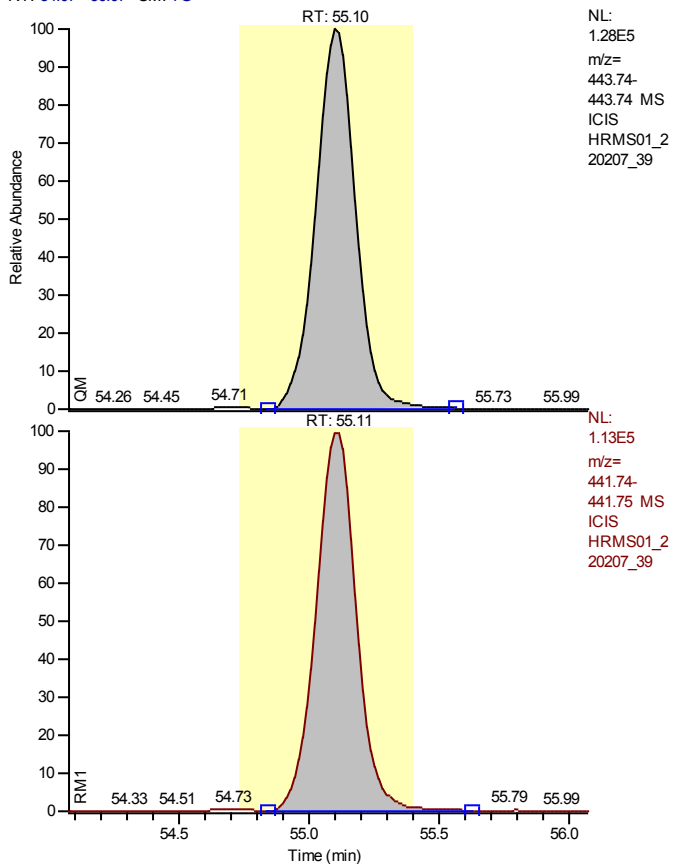
Linear Fit: StdDev = 0.078 RSD = 4.890 CF = 0.000000



Chromatogram

Entry Parameters

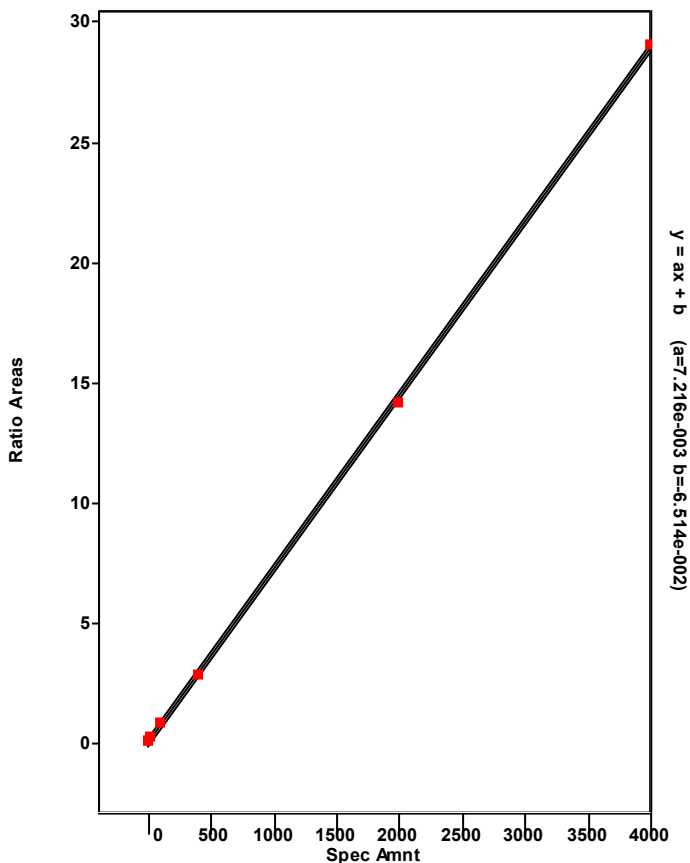
RT: 54.07 - 56.07 SM: 7G



Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1353818
RM1 Area	1212618
RM1 Ratio (A)	0.8957
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	96.55
Percent Recovery (A)	---
TEQ (A)	0.0290
Label2	

Calibration Points of Octachlorodibenzofuran

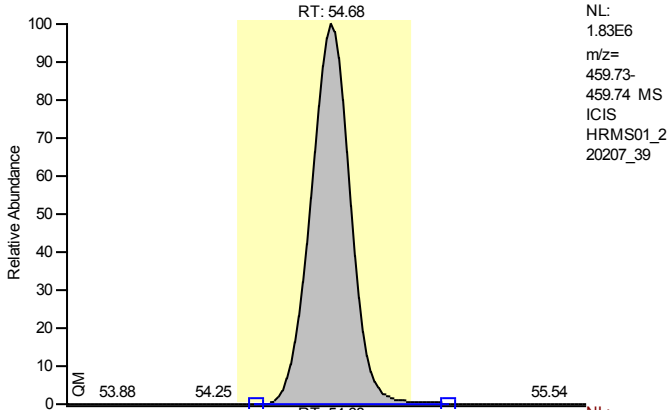
Linear Fit: StdDev = 0.158 RSD = 2.371 CF = 0.999796



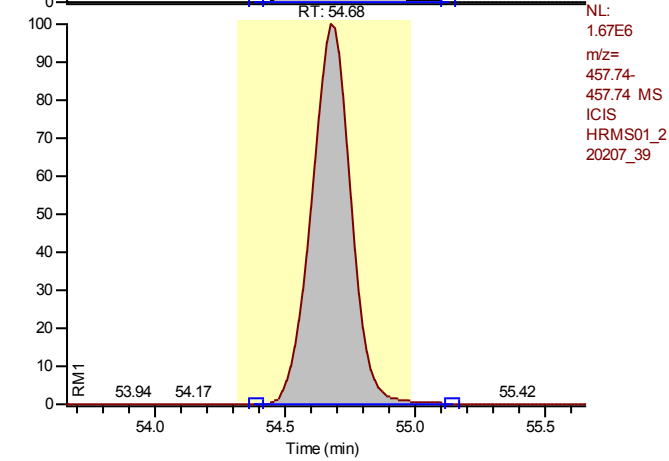
Chromatogram

Entry Parameters

RT: 53.66 - 55.66 SM: 7G

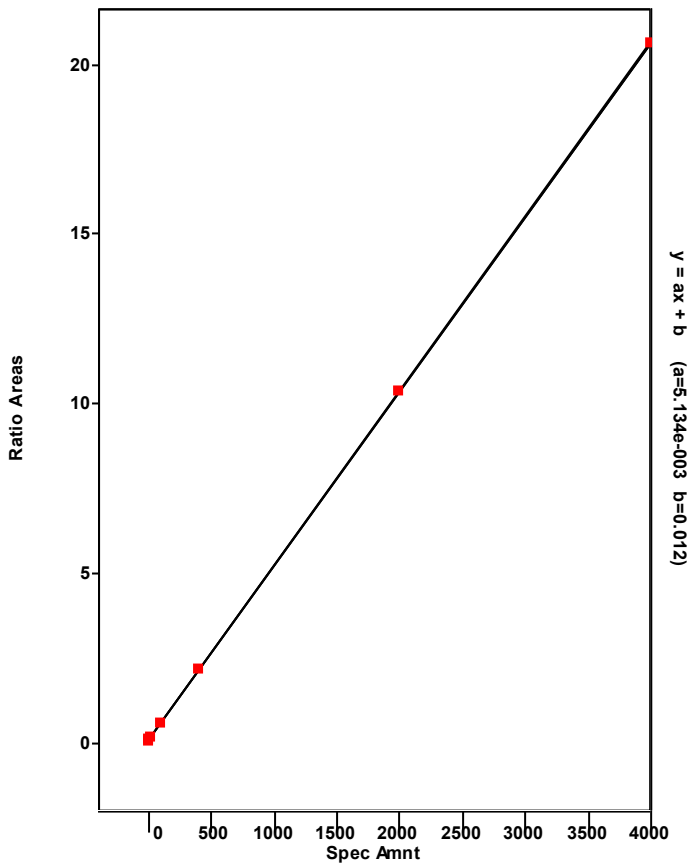


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	19289614
RM1 Area	17534220
RM1 Ratio (A)	0.9090
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	1840.15
Percent Recovery (A)	---
TEQ (A)	0.5520
Label2	



Calibration Points of Octachlorodibenzo-p-dioxin

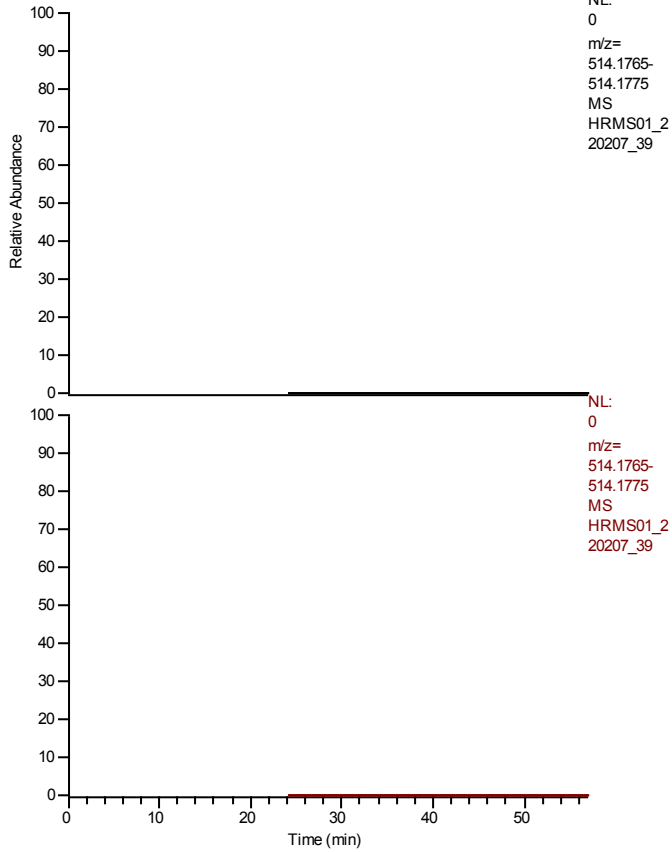
Linear Fit: StdDev = 0.015 RSD = 0.321 CF = 0.999996



Chromatogram

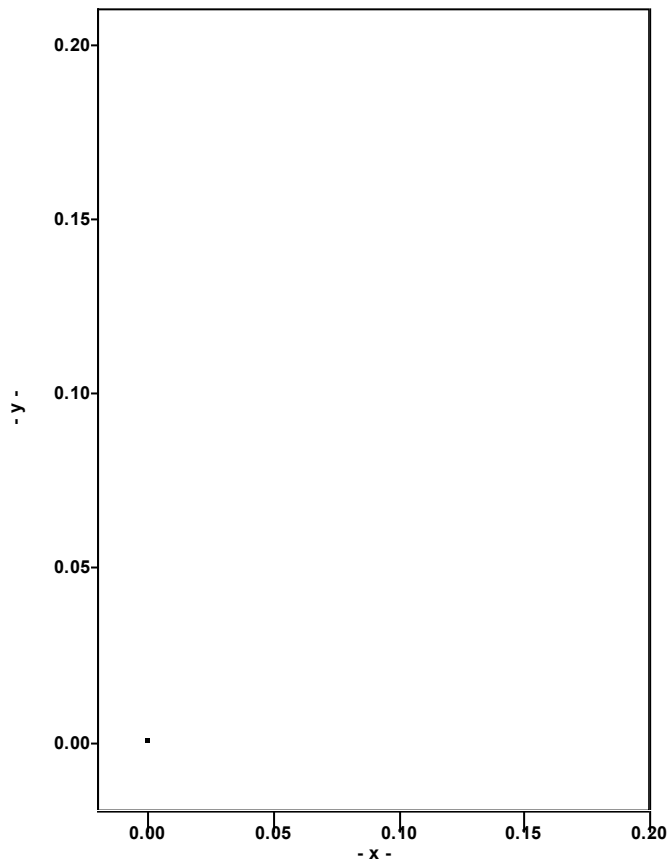
Entry Parameters

RT: 0.00 - 57.01 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	25381919
RM1 Area	23999960
RM1 Ratio (A)	0.9456
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	2267.51
Percent Recovery (A)	---
TEQ (A)	12.8621
Label2	

Calibration Points of overall TEQ



Analytical Event

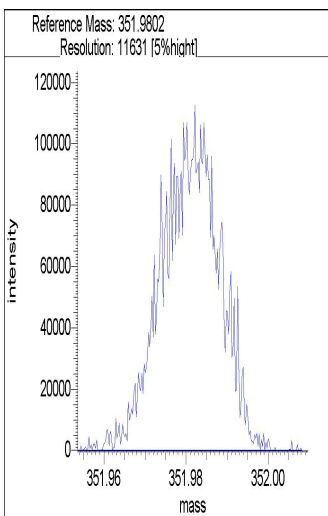
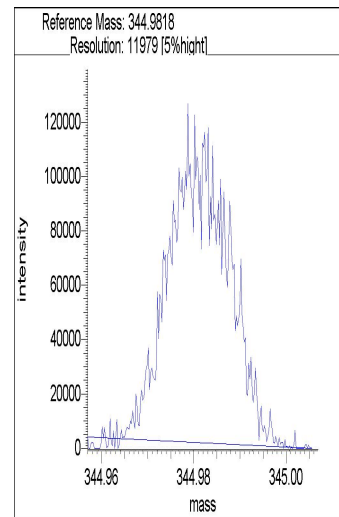
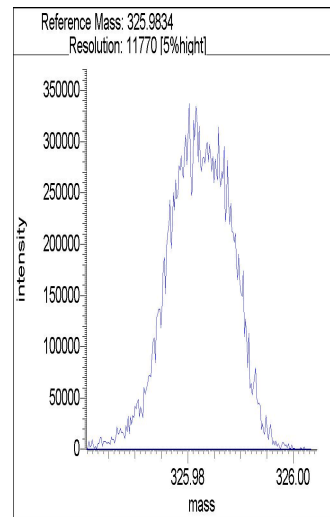
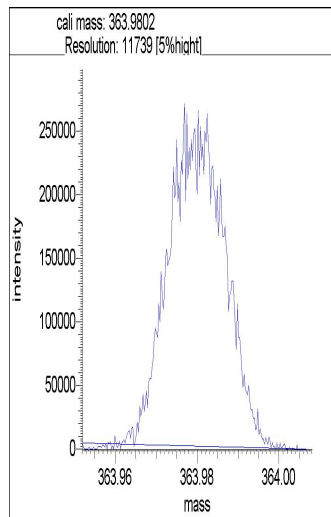
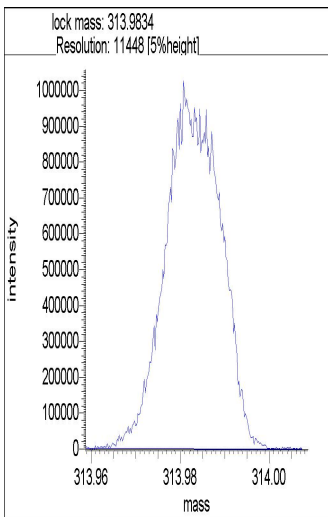
Continuing Calibration

Resolution Check Report (DFS SN: 1209)

Date: 07 Feb 2022 16:02
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

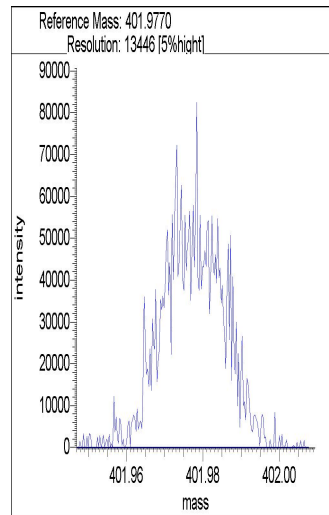
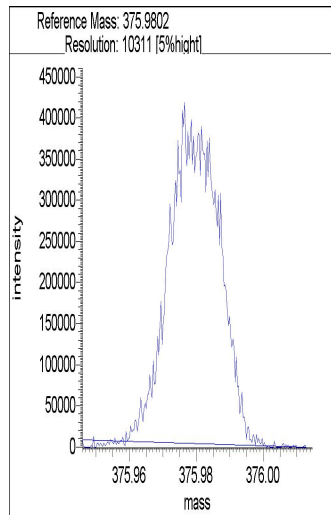
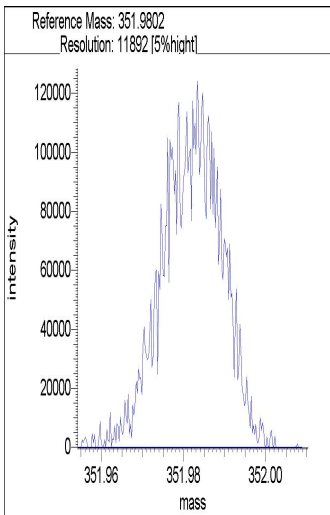
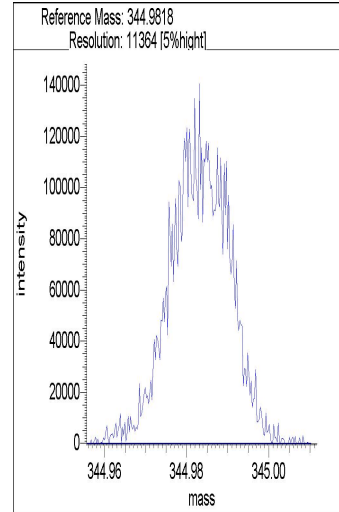
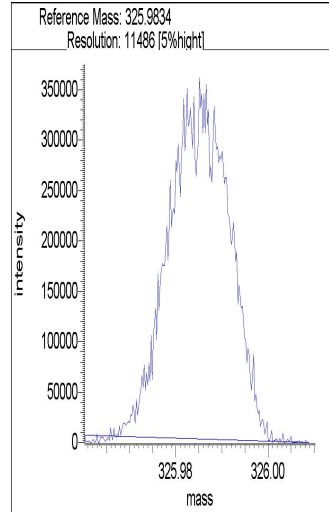
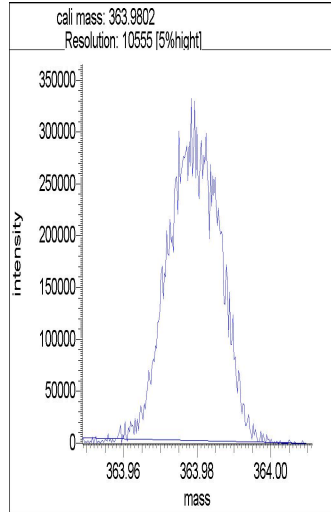
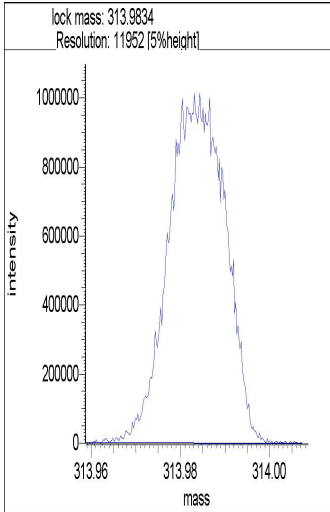
Lock mass 313.9834 [m/z] Resolution: 11448 [5%height]
Cali. mass 363.9802 [m/z] Resolution: 11739 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11770 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11979 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11631 [5%height]



Segment 2

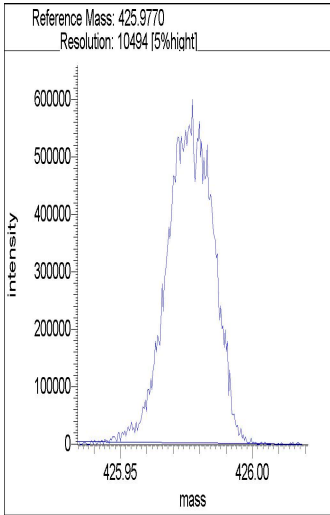
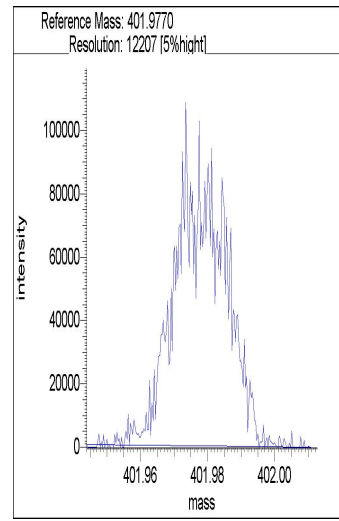
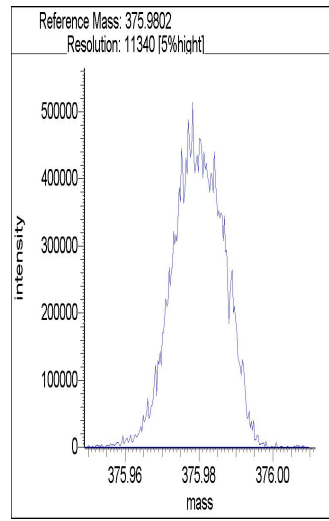
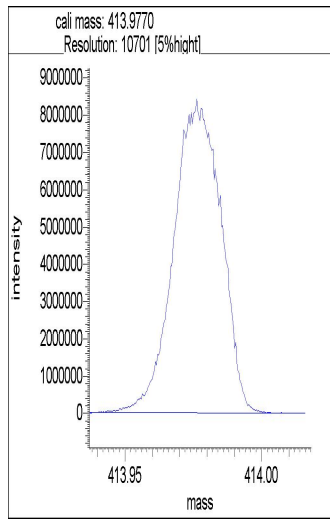
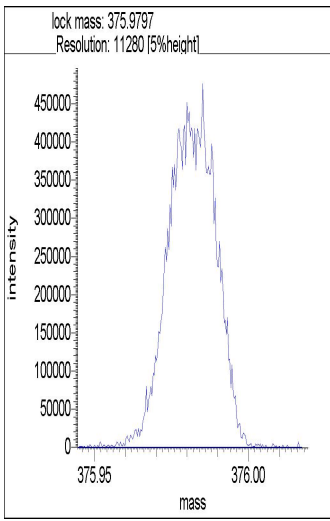
Lock mass 313.9834 [m/z] Resolution: 11952 [5%height]

Cali. mass 363.9802 [m/z] Resolution: 10555 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11486 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11364 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11892 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 10311 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 13446 [5%height]



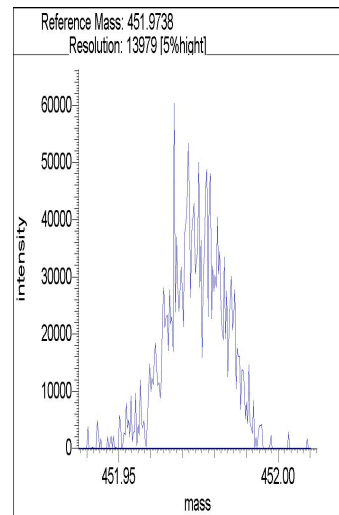
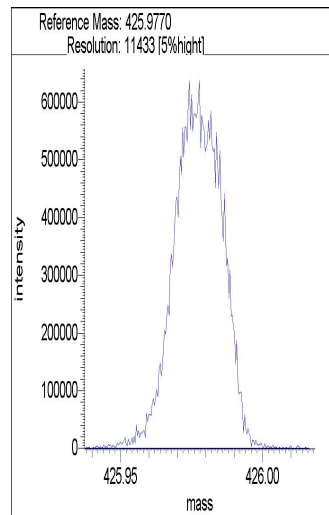
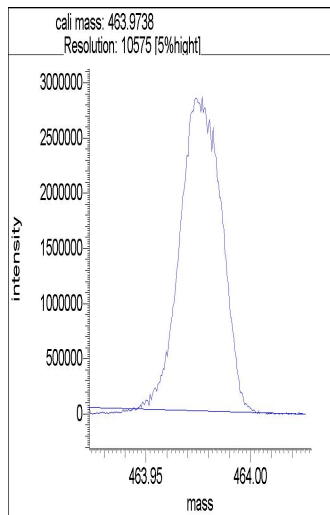
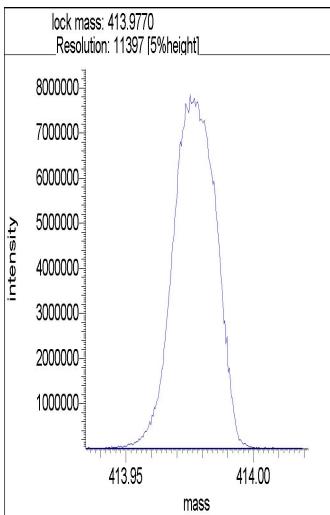
Segment 3

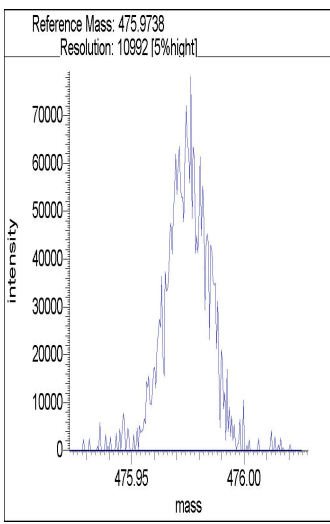
Lock mass 375.9797 [m/z] Resolution: 11280 [5%height]
Cali. mass 413.9770 [m/z] Resolution: 10701 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 11340 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12207 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 10494 [5%height]



Segment 4

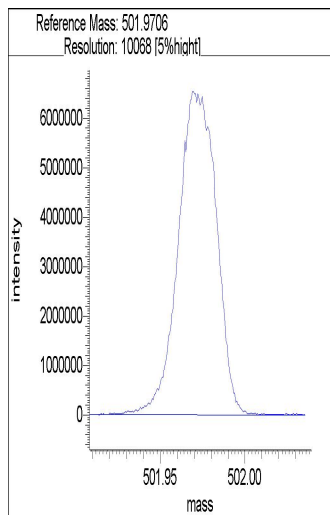
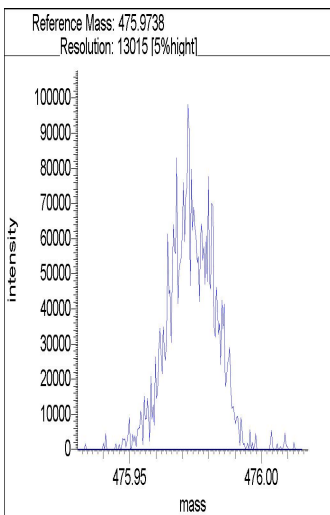
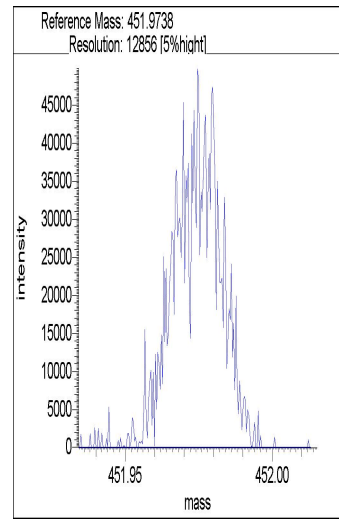
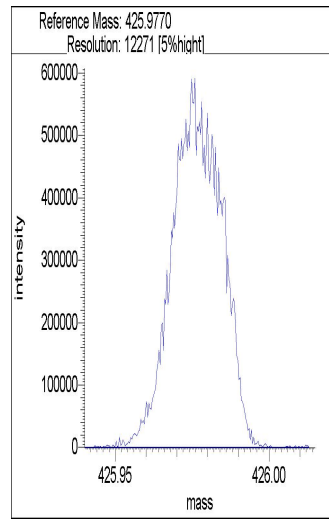
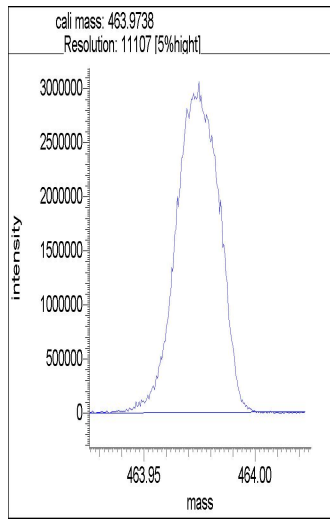
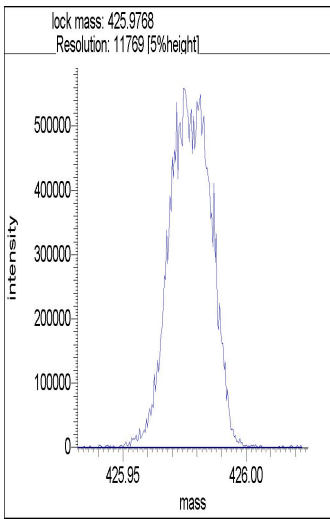
- Lock mass 413.9770 [m/z] Resolution: 11397 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 10575 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 11433 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 13979 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 10992 [5%height]

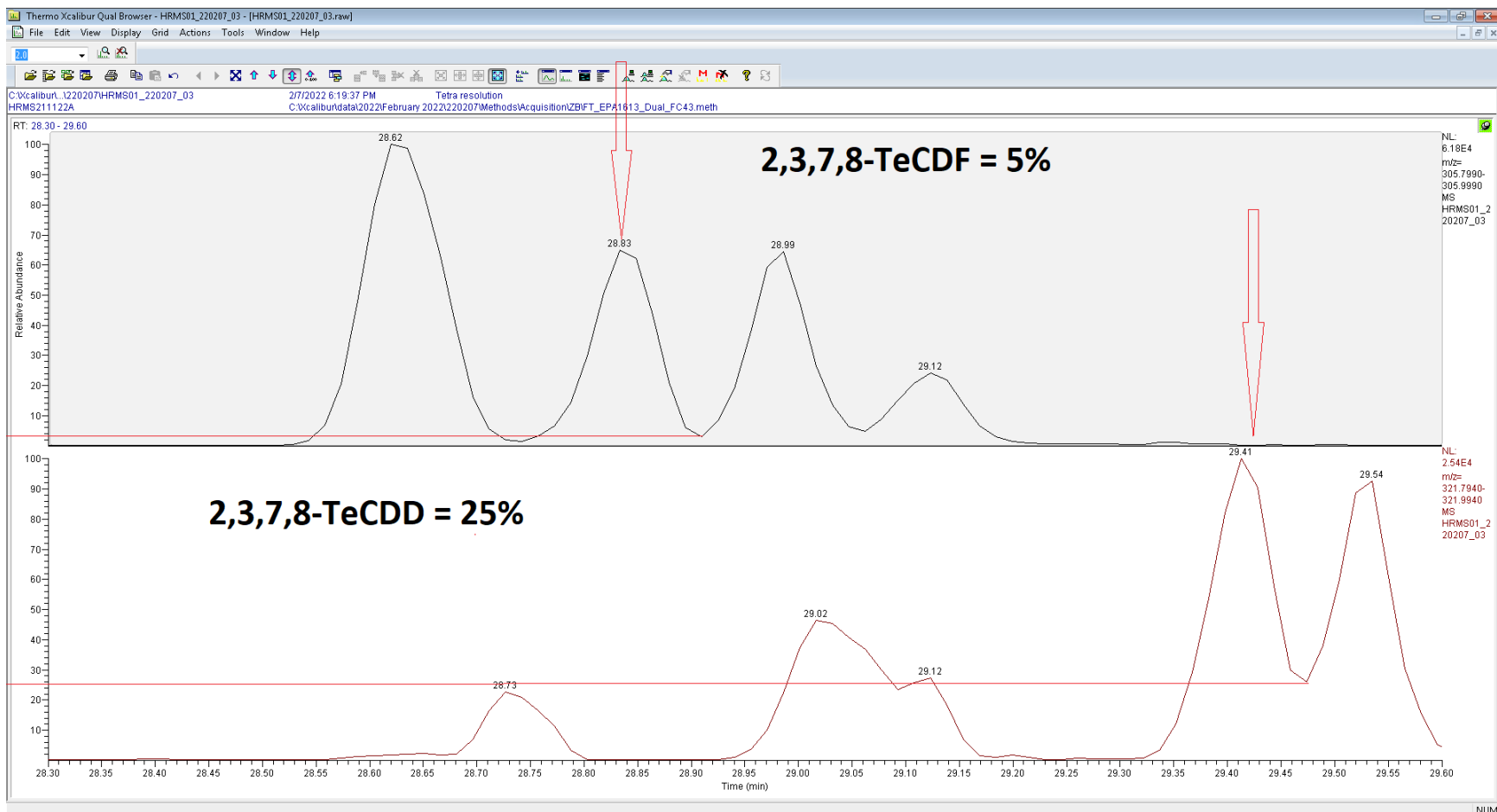




Segment 5

- Lock mass 425.9768 [m/z] Resolution: 11769 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 11107 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 12271 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 12856 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 13015 [5%height]
- Ref. mass 501.9706 [m/z] Resolution: 10068 [5%height]





Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/07 17:18
Number of Entries	72
Comment	HRMS210614B
Vial	2
Sample Name	WG1602307-1
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_02_seq
Data	hrms01_220207_02
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

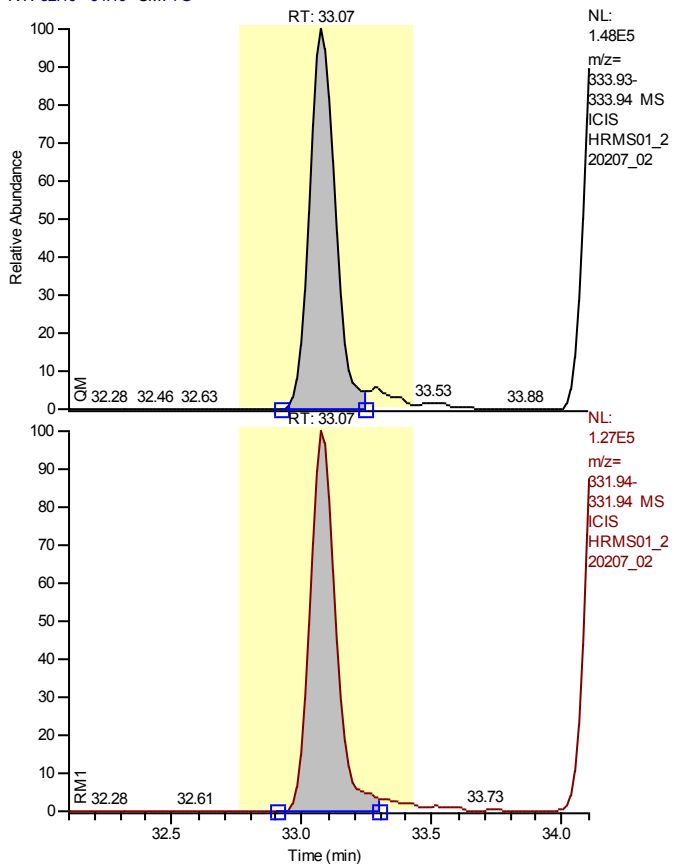
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1013859	872516	0.8606	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1523102	1105988	0.7261	0.6500 - 0.8900	100.00	85.78	86	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	115891	93928	0.8105	0.6500 - 0.8900	10.00	8.59	86	0.8587
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	396568	295268	0.7446	0.6500 - 0.8900	10.00	28.31	283	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	136806	102683	0.7506	0.6500 - 0.8900	10.00	9.80	98	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	143872	98656	0.6857	0.6500 - 0.8900	10.00	9.93	99	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	115891	93928	0.8105	0.6500 - 0.8900	10.00	8.59	86	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1387013	985696	0.7107	0.6500 - 0.8900	100.00	108.12	108	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	127694	93565	0.7327	0.6500 - 0.8900	10.00	8.81	88	8.8111
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	592694	430138	0.7257	0.6500 - 0.8900	10.00	40.73	407	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	186330	127380	0.6836	0.6500 - 0.8900	10.00	12.49	125	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	115976	76473	0.6594	0.6500 - 0.8900	10.00	7.66	77	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	52420	46337	0.8840	0.6500 - 0.8900	10.00	3.93	39	0.0000
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	127694	93565	0.7327	0.6500 - 0.8900	10.00	8.81	88	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	110274	86382	0.7833	0.6500 - 0.8900	10.00	7.83	78	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		1165766	1747247	1.4988	1.3200 - 1.7800	100.00	106.48	106	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	540487	823317	1.5233	1.3200 - 1.7800	50.00	47.29	95	1.4187
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	2273272	3553332	1.5631	1.3200 - 1.7800	50.00	198.91	398	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	666232	1079380	1.6201	1.3200 - 1.7800	50.00	59.59	119	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	540487	823317	1.5233	1.3200 - 1.7800	50.00	46.56	93	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	524486	815938	1.5557	1.3200 - 1.7800	50.00	45.76	92	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	542066	834698	1.5398	1.3200 - 1.7800	50.00	47.00	94	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		1113193	1614521	1.4504	1.3200 - 1.7800	100.00	105.96	106	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	524486	815938	1.5557	1.3200 - 1.7800	50.00	45.31	91	13.5920
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		717785	1133586	1.5793	1.3200 - 1.7800	100.00	107.71	108	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	348601	550127	1.5781	1.3200 - 1.7800	50.00	48.40	97	48.3958
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	1382429	2167537	1.5679	1.3200 - 1.7800	50.00	191.16	382	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	423050	674140	1.5935	1.3200 - 1.7800	50.00	59.08	118	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	610778	943269	1.5444	1.3200 - 1.7800	50.00	83.68	167	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	348601	550127	1.5781	1.3200 - 1.7800	50.00	48.40	97	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		225040	225040	1.0000	0.8500 - 1.1500	10.00	9.53	95	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		988742	1212043	1.2258	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1476277	772742	0.5234	0.4300 - 0.5900	100.00	90.96	91	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	548826	650699	1.1856	1.0500 - 1.4300	50.00	46.28	93	4.6276
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	2782781	3363110	1.2085	1.0500 - 1.4300	50.00	228.55	457	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	600717	749522	1.2477	1.0500 - 1.4300	50.00	50.21	100	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	572501	687577	1.2010	1.0500 - 1.4300	50.00	46.86	94	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	548826	650699	1.1856	1.0500 - 1.4300	50.00	44.61	89	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	569990	697638	1.2239	1.0500 - 1.4300	50.00	47.14	94	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	490747	577674	1.1771	1.0500 - 1.4300	50.00	39.73	79	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1666006	876849	0.5263	0.4300 - 0.5900	100.00	95.61	96	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	600717	749522	1.2477	1.0500 - 1.4300	50.00	46.41	93	4.6413
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1559427	795170	0.5099	0.4300 - 0.5900	100.00	90.83	91	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	569990	697638	1.2239	1.0500 - 1.4300	50.00	45.12	90	4.5115
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1370070	689917	0.5036	0.4300 - 0.5900	100.00	81.69	82	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	490747	577674	1.1771	1.0500 - 1.4300	50.00	46.32	93	4.6322
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		839107	1039624	1.2390	1.0500 - 1.4300	100.00	95.67	96	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	408421	506645	1.2405	1.0500 - 1.4300	50.00	46.74	93	4.6744
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	1757820	2180944	1.2407	1.0500 - 1.4300	50.00	192.57	385	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	457597	572264	1.2506	1.0500 - 1.4300	50.00	50.35	101	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	442902	549345	1.2403	1.0500 - 1.4300	50.00	48.51	97	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	408421	506645	1.2405	1.0500 - 1.4300	50.00	44.74	89	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	448900	552690	1.2312	1.0500 - 1.4300	50.00	48.97	98	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		893601	1105130	1.2367	1.0500 - 1.4300	100.00	97.31	97	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	448900	552690	1.2312	1.0500 - 1.4300	50.00	47.17	94	4.7174
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	457597	572264	1.2506	1.0500 - 1.4300	50.00	48.43	97	4.8429
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1487043	677898	0.4559	0.3700 - 0.5100	100.00	90.20	90	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	655523	663367	1.0120	0.8800 - 1.2000	50.00	47.36	95	0.4736
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1202501	1256105	1.0446	0.8800 - 1.2000	50.00	90.75	182	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	655523	663367	1.0120	0.8800 - 1.2000	50.00	48.68	97	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	546978	592738	1.0837	0.8800 - 1.2000	50.00	42.07	84	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1280899	535206	0.4178	0.3700 - 0.5100	100.00	80.11	80	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	546978	592738	1.0837	0.8800 - 1.2000	50.00	48.65	97	0.4865
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		915367	946031	1.0335	0.8800 - 1.2000	100.00	93.79	94	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	441589	472290	1.0695	0.8800 - 1.2000	50.00	45.49	91	0.4549
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	963386	1026469	1.0655	0.8800 - 1.2000	50.00	99.05	198	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	521797	554179	1.0621	0.8800 - 1.2000	50.00	53.56	107	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	441589	472290	1.0695	0.8800 - 1.2000	50.00	45.49	91	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1839081	1601986	0.8711	0.7600 - 1.0200	200.00	194.31	97	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	1055085	946368	0.8970	0.7600 - 1.0200	100.00	83.38	83	0.0250
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	866517	759423	0.8764	0.7600 - 1.0200	100.00	87.36	87	0.0262
72	overall TEQ	overall TEQ test		8748049	10118196	1.1566	0.0000 - 0.0000	0.00	797.09	---	107.1898

Chromatogram

Entry Parameters

RT: 32.10 - 34.10 SM: 7G

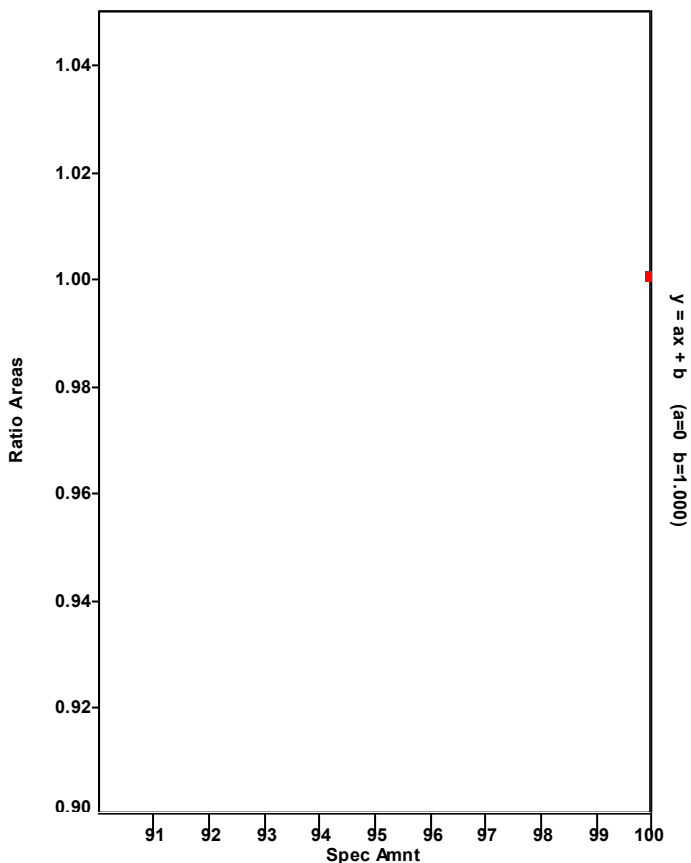


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1013859
RM1 Area	872516
RM1 Ratio (A)	0.8606
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

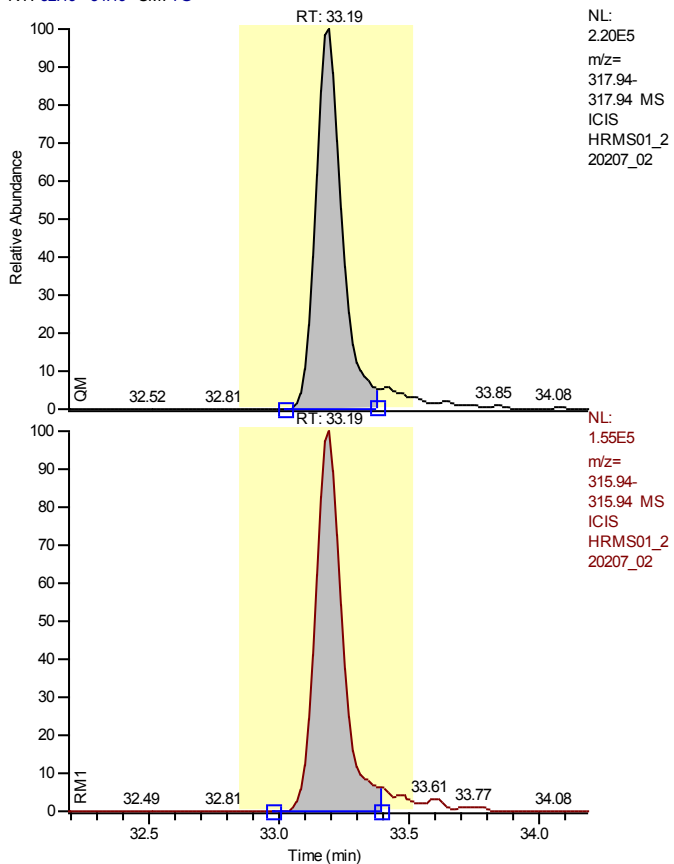
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.19 - 34.19 SM: 7G



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317.94 MS
ICIS
HRMS01_2
20207_02

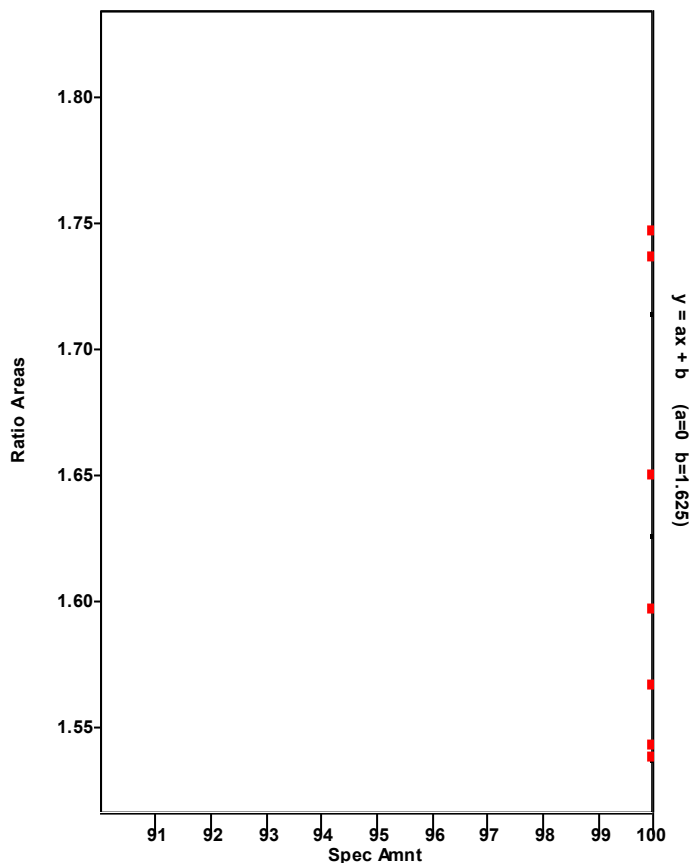
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1523102
RM1 Area	1105988
RM1 Ratio (A)	0.7261
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	85.78
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	

NL:
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315.94
315.94 MS
ICIS
HRMS01_2
20207_02

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

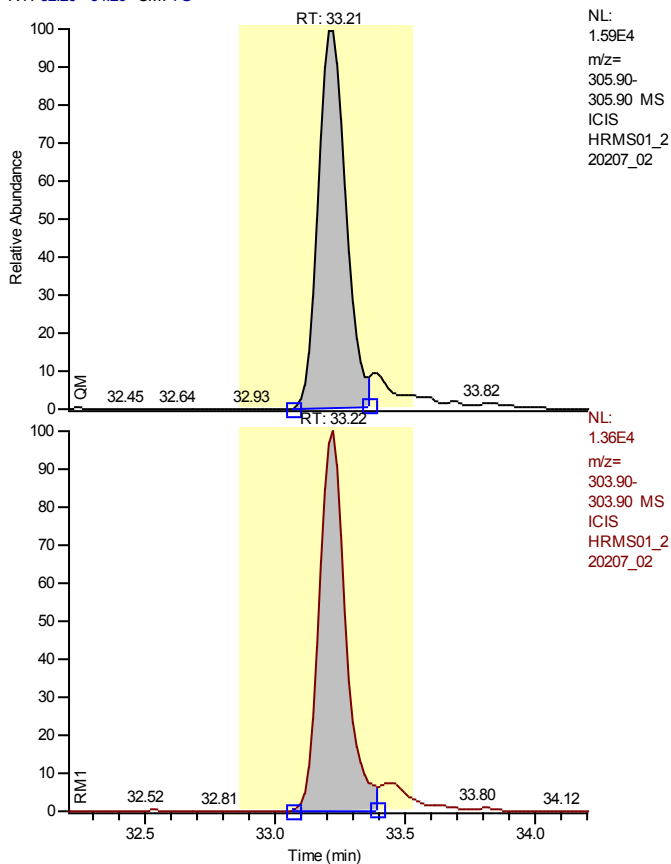
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.20 - 34.20 SM: 7G

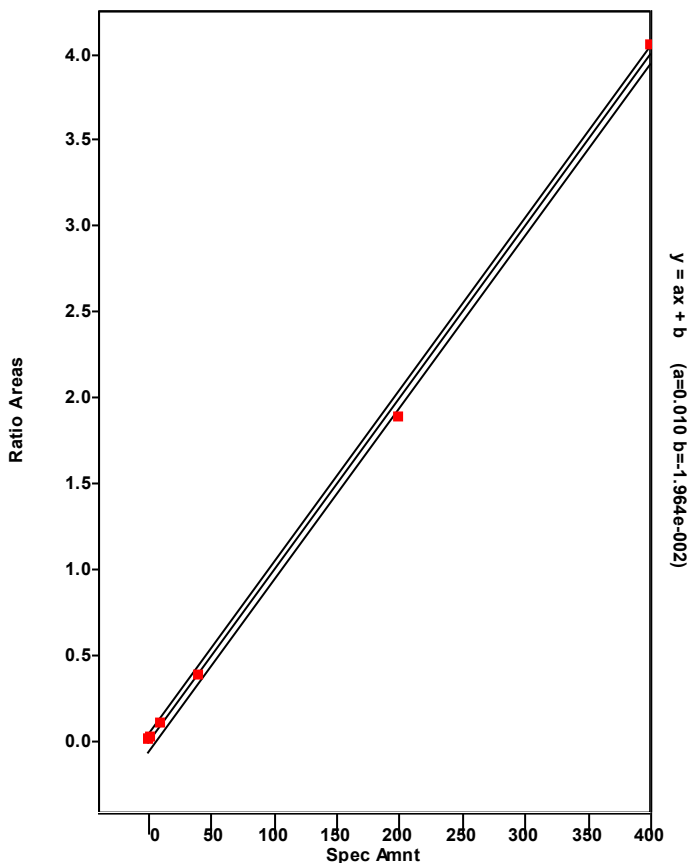


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	115891
RM1 Area	93928
RM1 Ratio (A)	0.8105
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.59
Percent Recovery (A)	86
TEQ (A)	0.8587
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

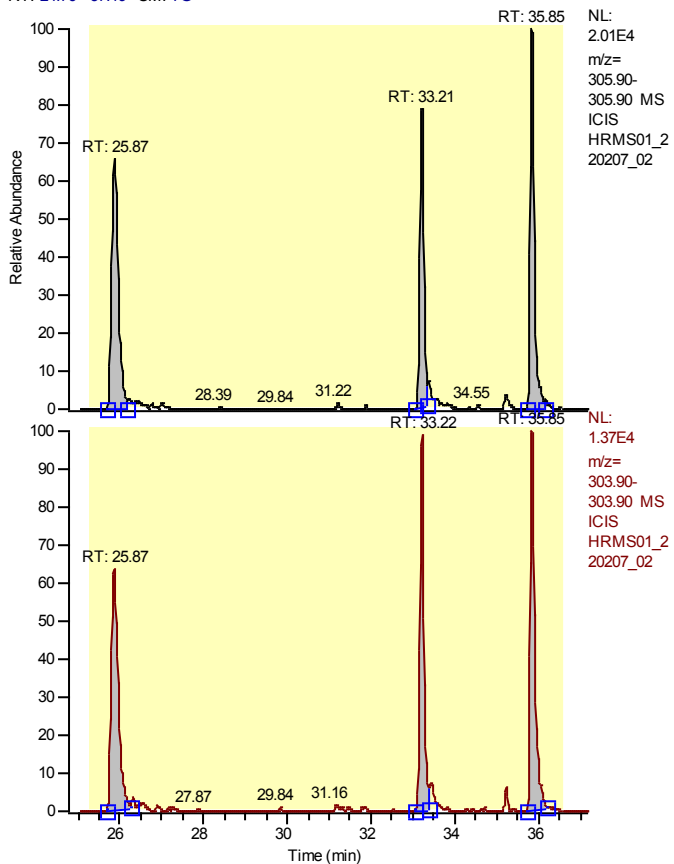
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.76 - 37.19 SM: 7G

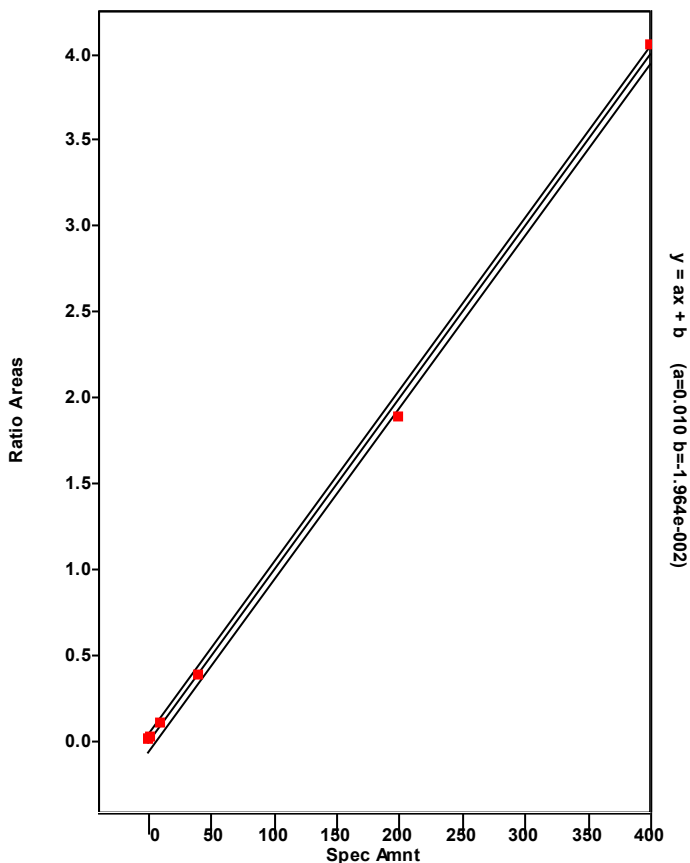


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	396568
RM1 Area	295268
RM1 Ratio (A)	0.7446
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	28.31
Percent Recovery (A)	283
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

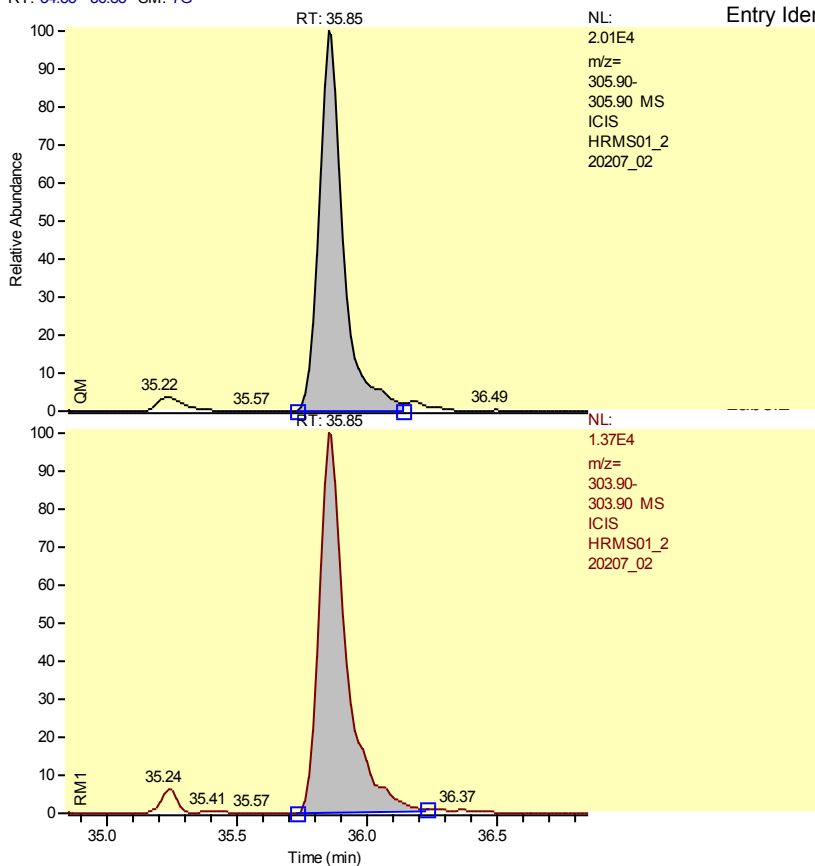
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 34.85 - 36.85 SM: 7G

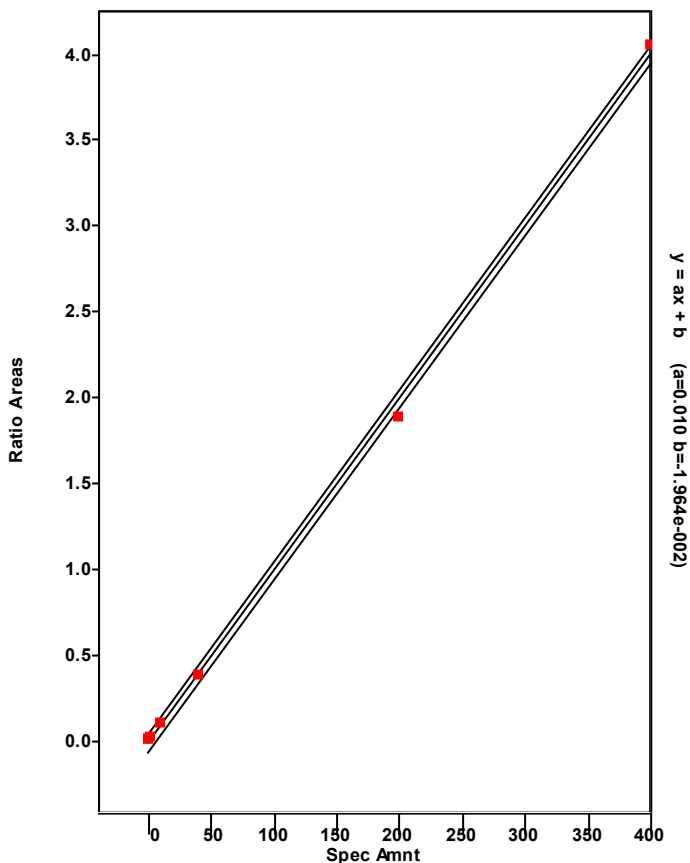


Entry Identifier	Total Tetrachlorodibenzofuran__1
d Name	Single native TCDF
	CAS# 55722-27-5
	136806
	102683
Area (A)	0.7506
Unit	0.6500 - 0.8900
Amount	10.00
Adjusted Amount (A)	9.80
Recovery (A)	98
	0.0000

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

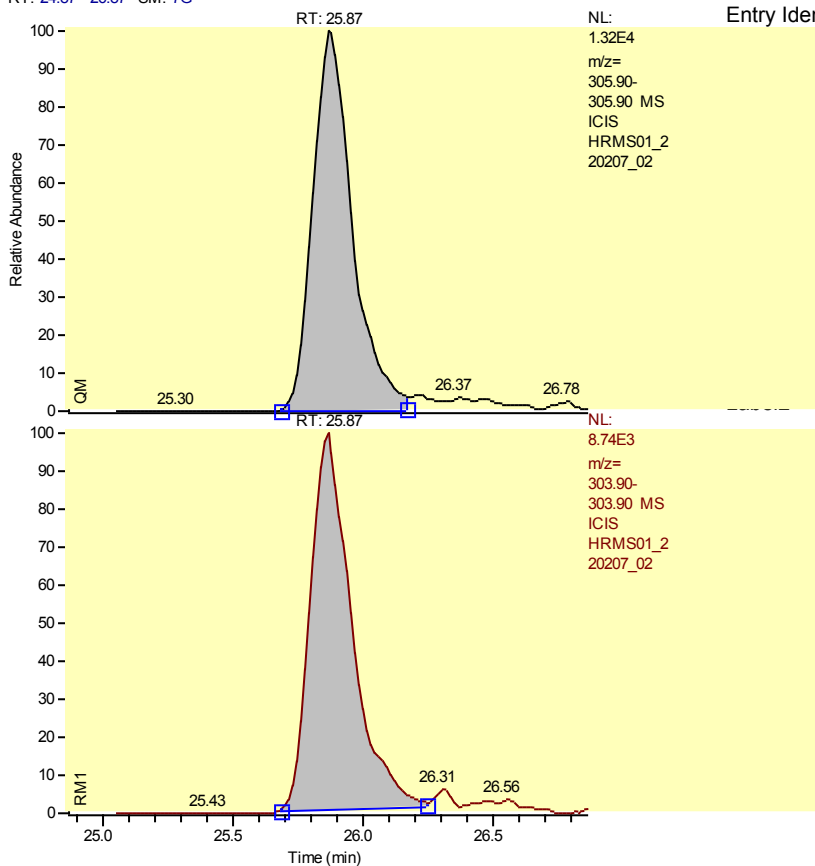
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.87 - 26.87 SM: 7G

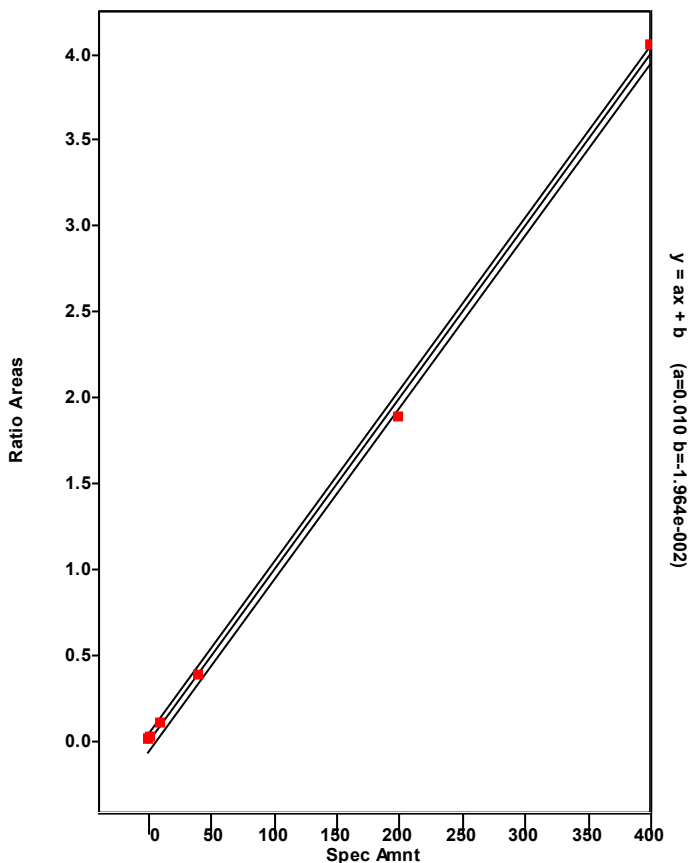


Entry Identifier	Total Tetrachlorodibenzofuran__2
d Name	Single native TCDF
	CAS# 55722-27-5
	143872
	98656
o (A)	0.6857
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	9.93
recovery (A)	99
	0.0000

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

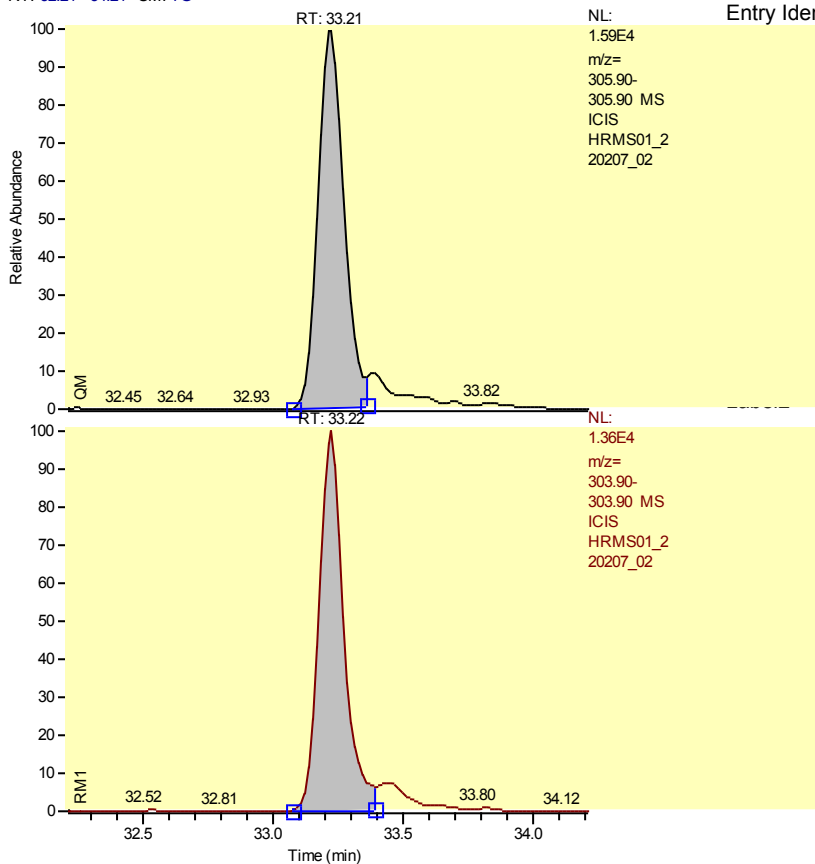
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.21 - 34.21 SM: 7G

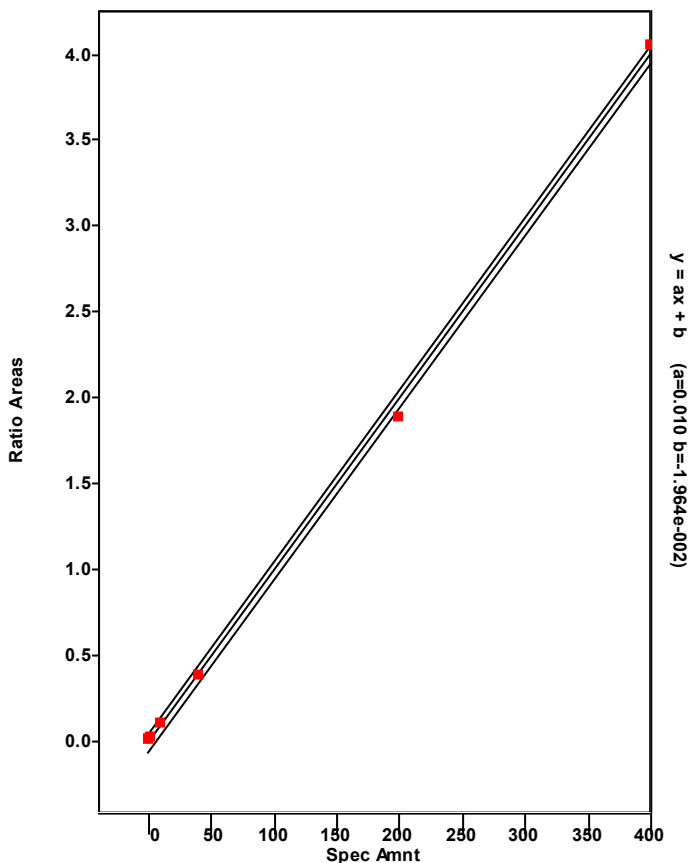


Entry Identifier	Total Tetrachlorodibenzofuran__3
d Name	Single native TCDF
	CAS# 55722-27-5
	115891
	93928
o (A)	0.8105
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	8.59
recovery (A)	86
	0.0000

Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

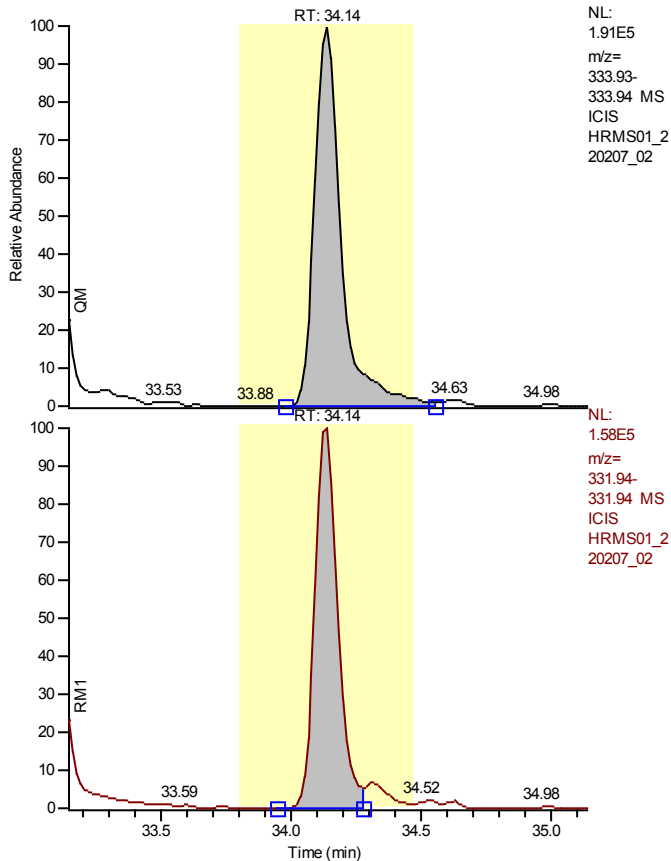
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.14 - 35.14 SM: 7G



NL:
1.91E5
m/z=
333.93-
333.94 MS
ICIS
HRMS01_2
20207_02

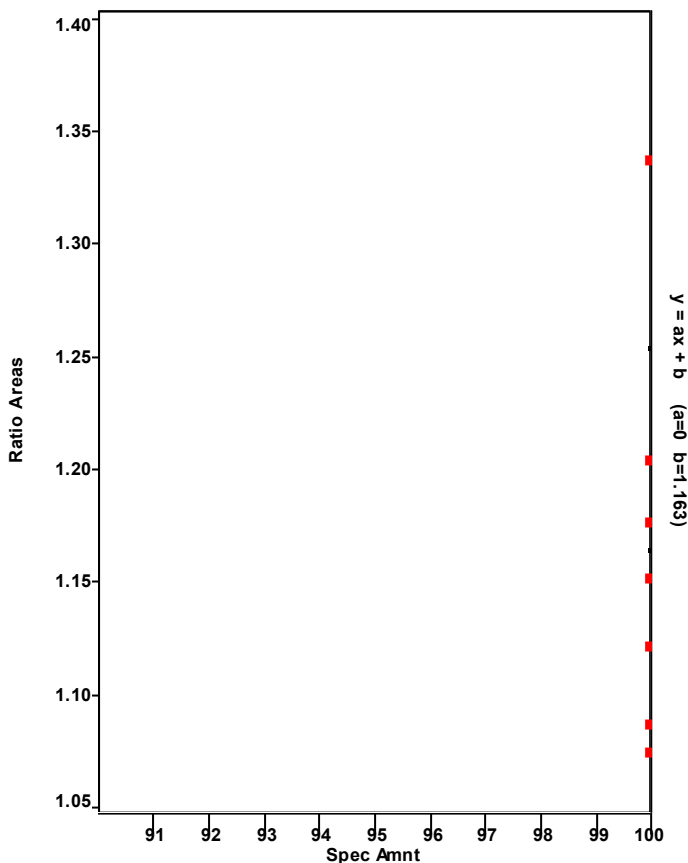
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1387013
RM1 Area	985696
RM1 Ratio (A)	0.7107
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	108.12
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

NL:
1.58E5
m/z=
331.94-
331.94 MS
ICIS
HRMS01_2
20207_02

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

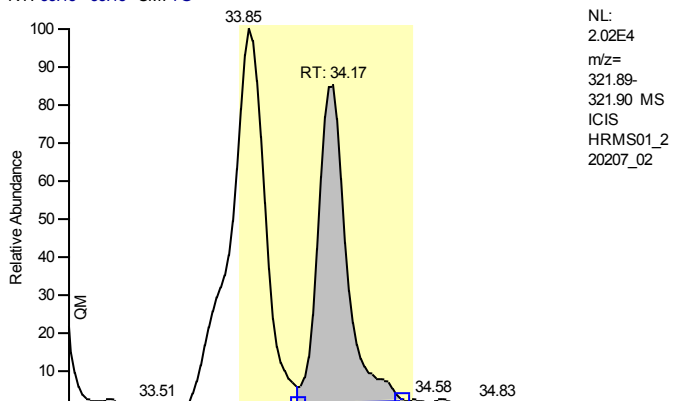
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

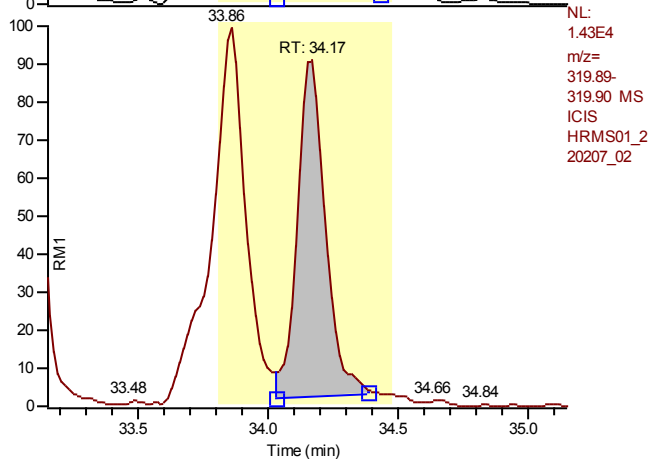
Entry Parameters

RT: 33.15 - 35.15 SM: 7G



NL:
 2.02E4
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	127694
RM1 Area	93565
RM1 Ratio (A)	0.7327
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.81
Percent Recovery (A)	88
TEQ (A)	8.8111
Label2	

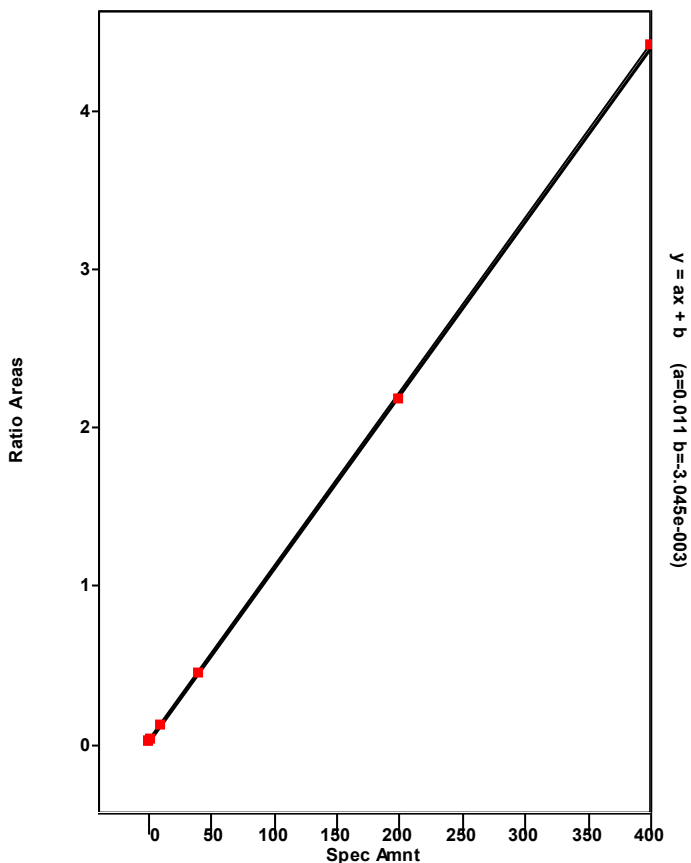


NL:
 1.43E4
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

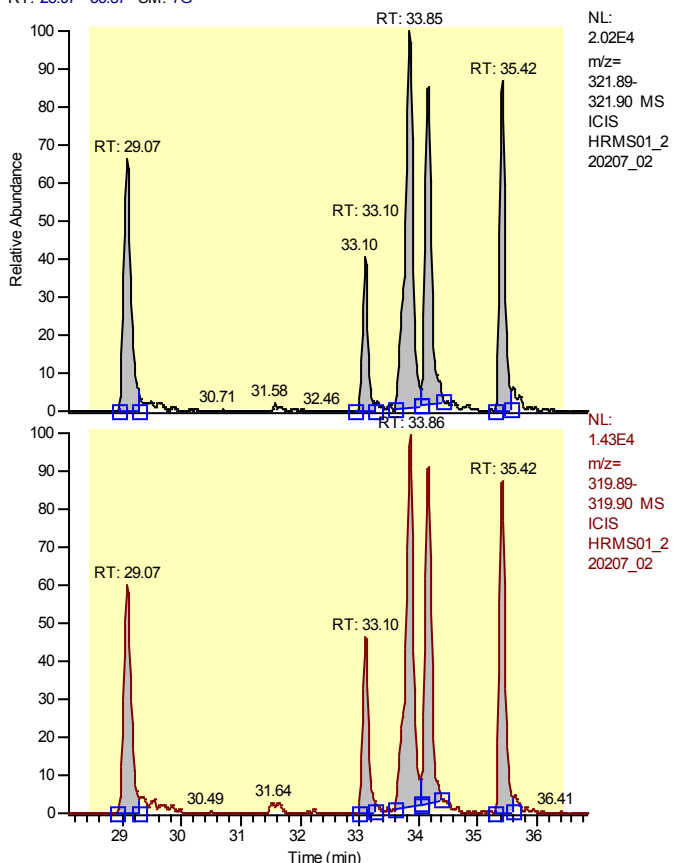
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.07 - 36.87 SM: 7G

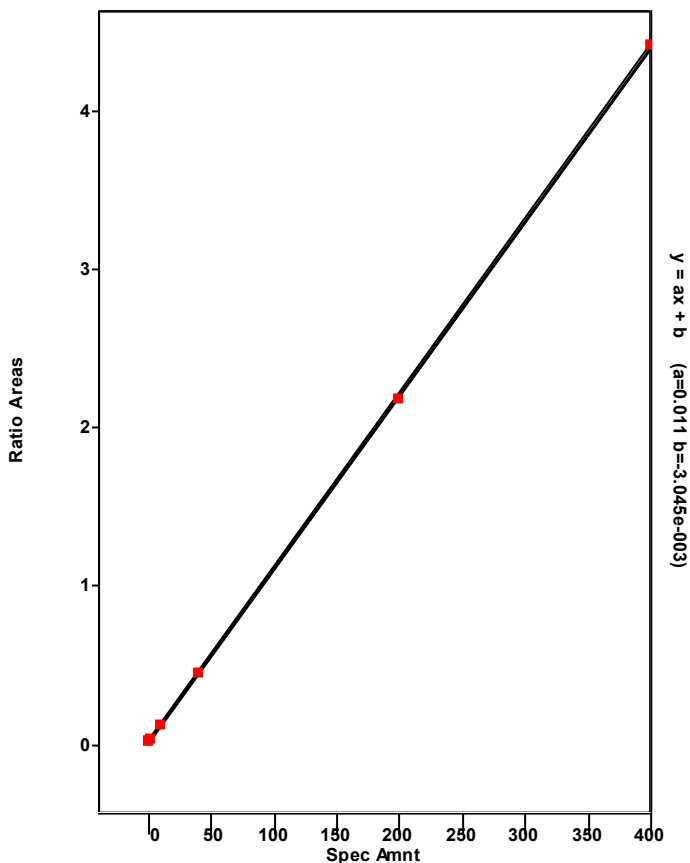


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	592694
RM1 Area	430138
RM1 Ratio (A)	0.7257
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	40.73
Percent Recovery (A)	407
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

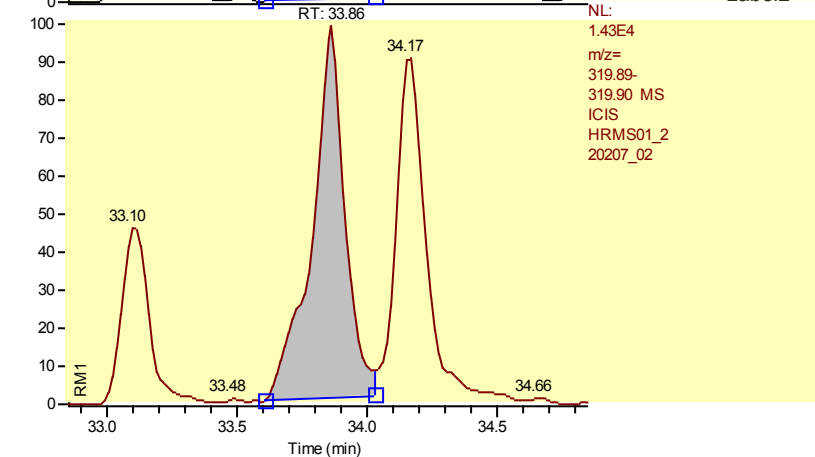
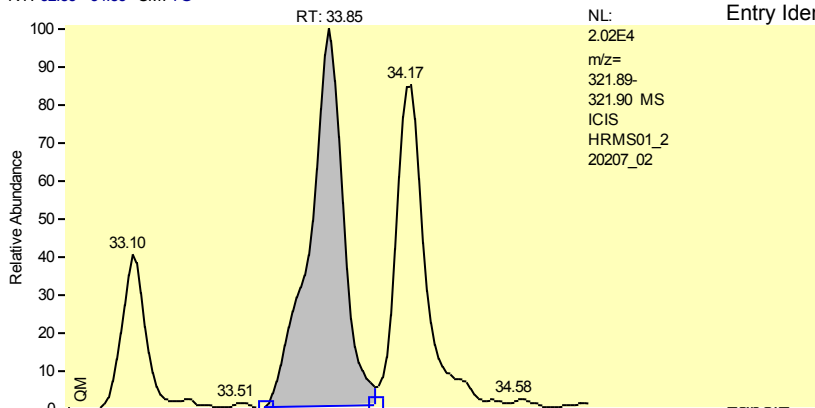
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 32.85 - 34.85 SM: 7G

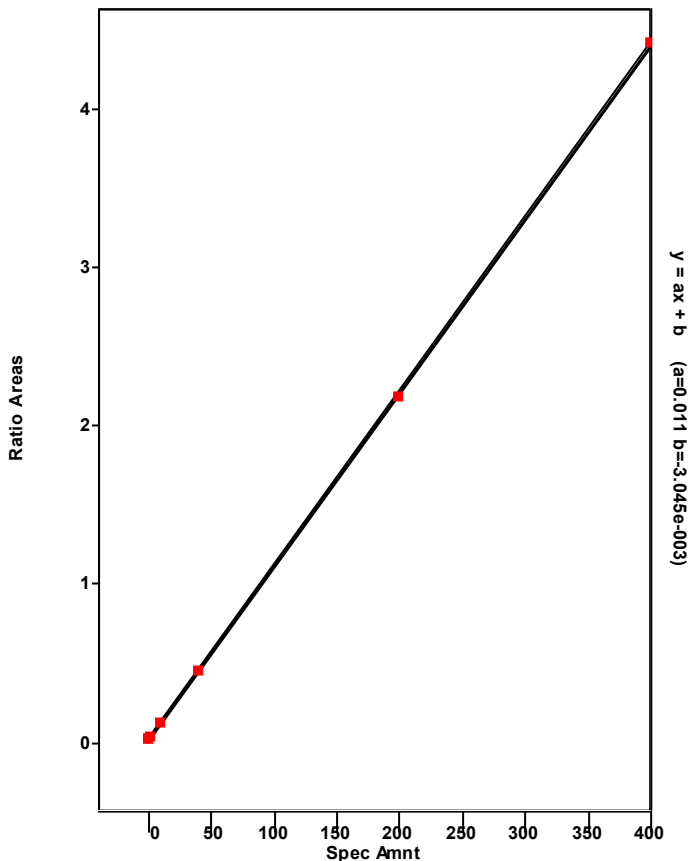


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
d Name	Single native TCDD
	CAS# 41903-57-5
	186330
	127380
o (A)	0.6836
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	12.49
recovery (A)	125
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

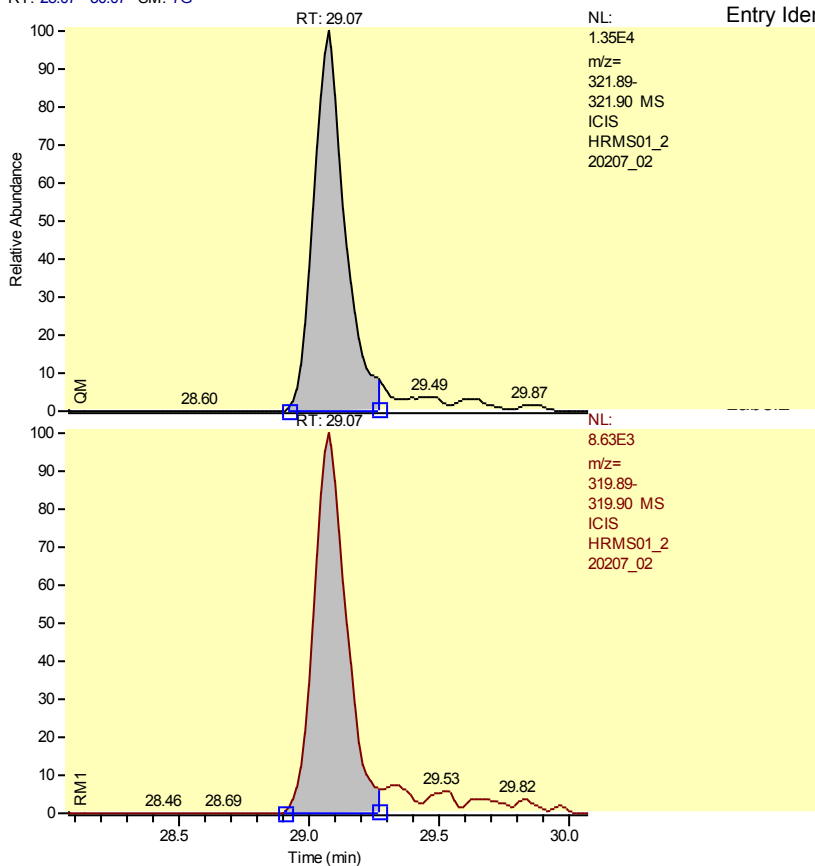
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.07 - 30.07 SM: 7G

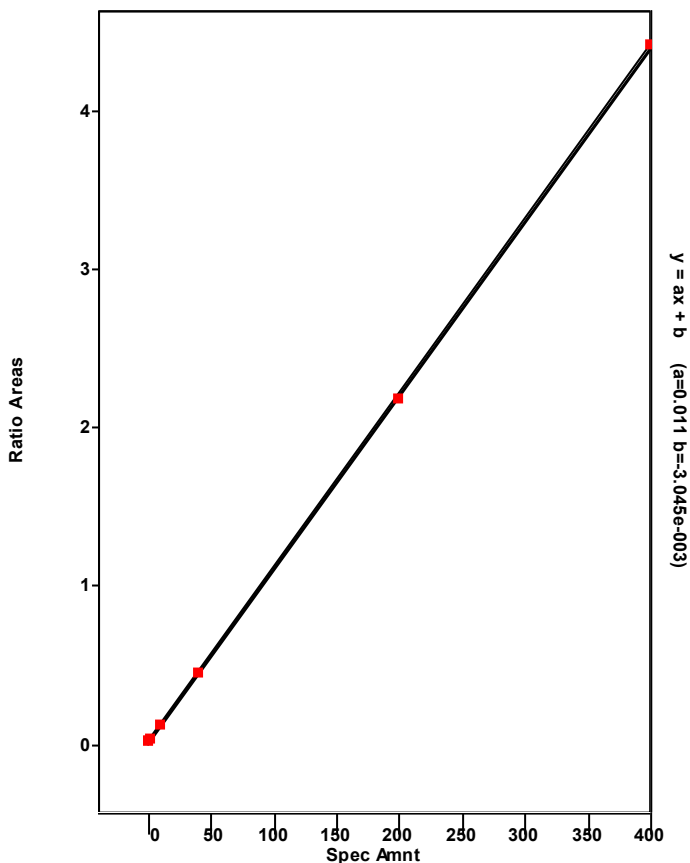


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
d Name	Single native TCDD
	CAS# 41903-57-5
	115976
	76473
o (A)	0.6594
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	7.66
recovery (A)	77
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

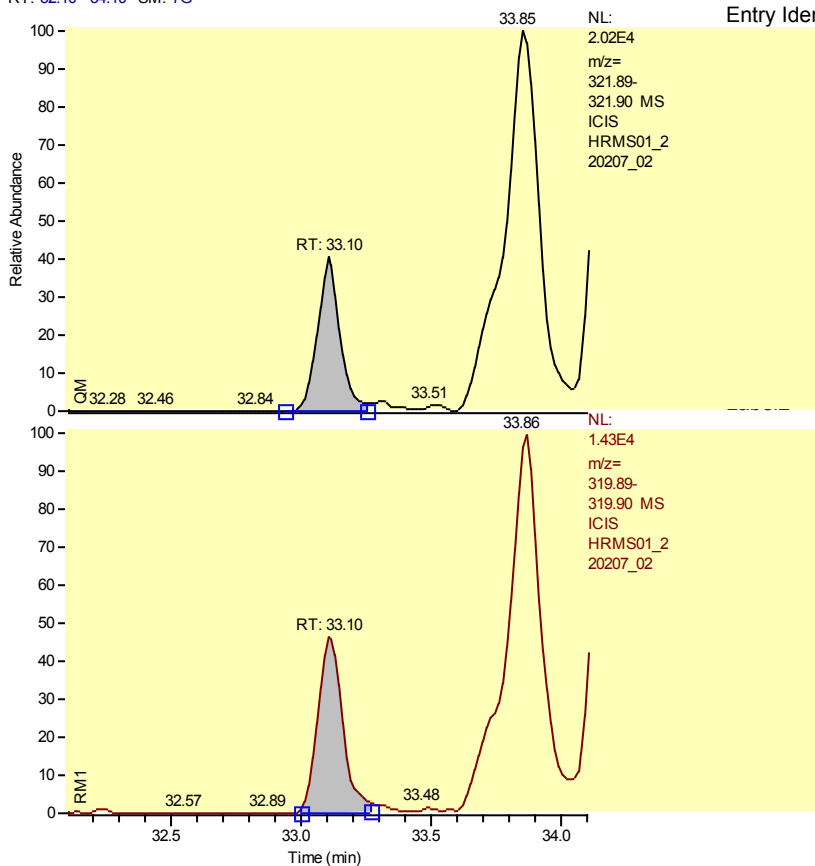
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 32.10-34.10 SM: 7G

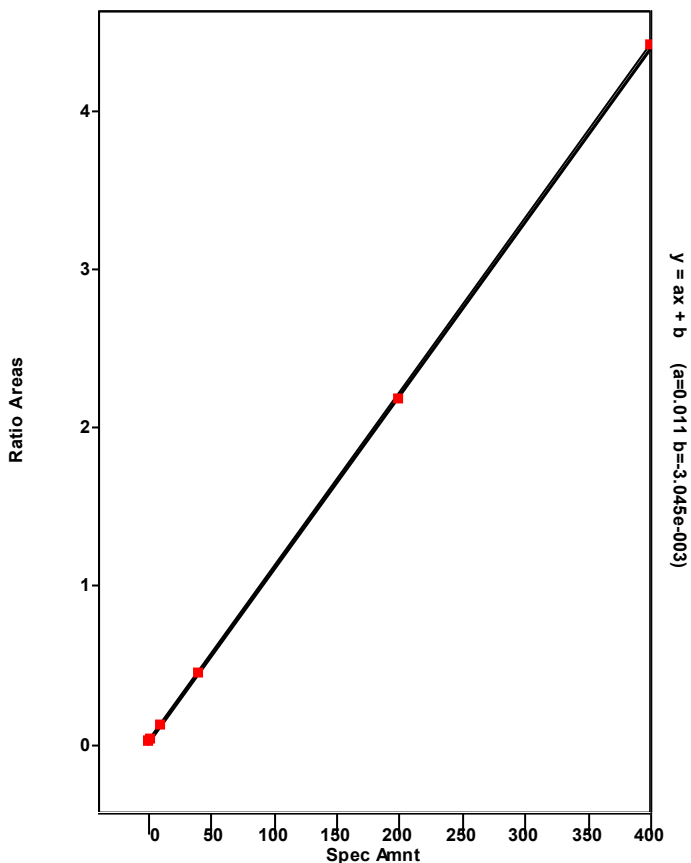


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
d Name	Single native TCDD
	CAS# 41903-57-5
	52420
	46337
o (A)	0.8840
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	3.93
recovery (A)	39
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

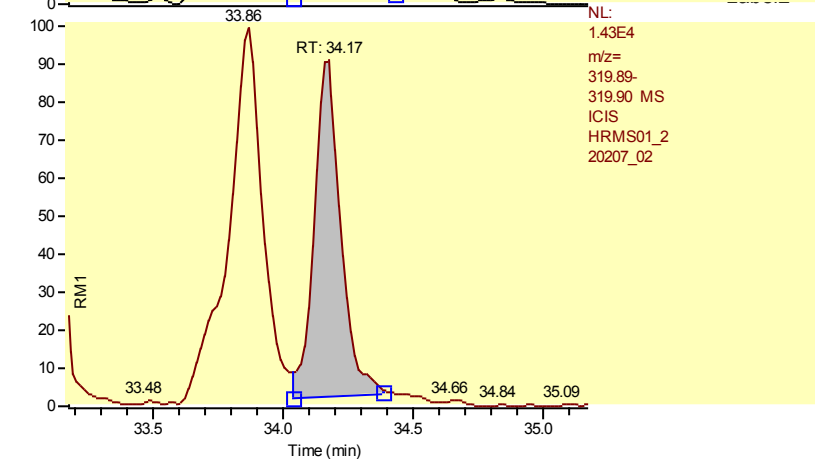
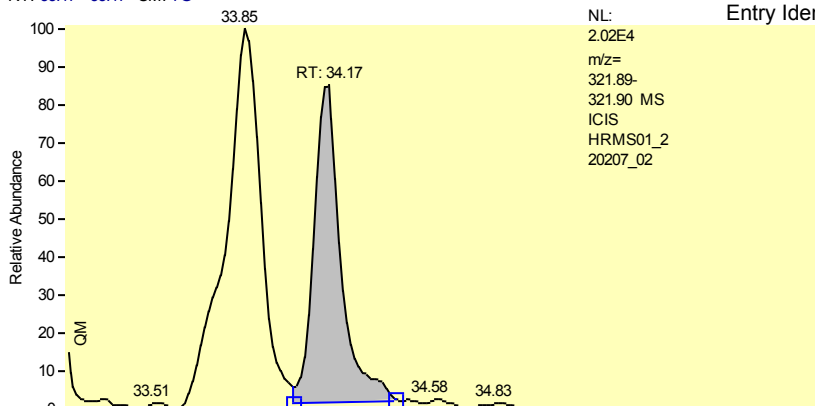
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.17 - 35.17 SM: 7G

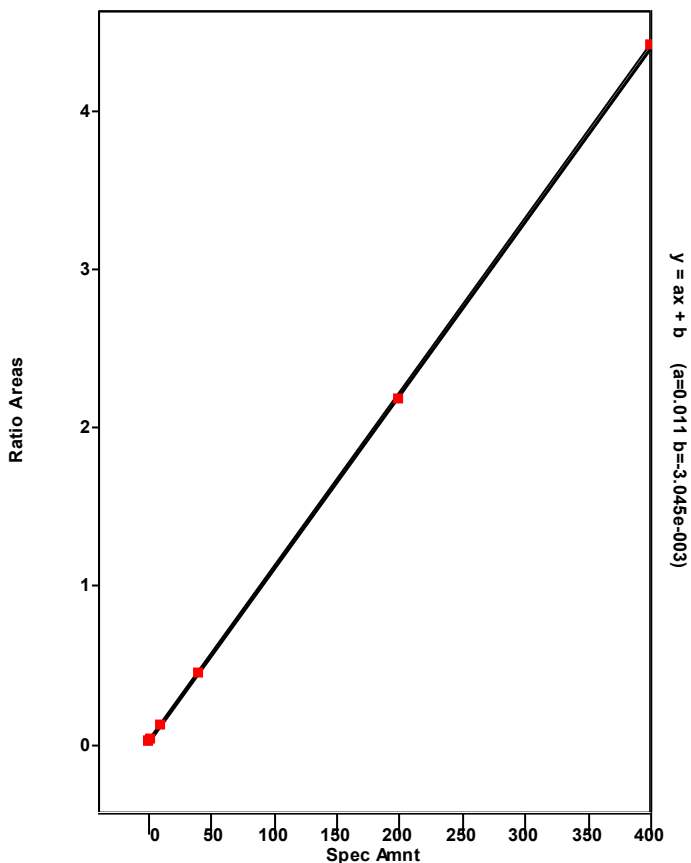


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
d Name	Single native TCDD
	CAS# 41903-57-5
	127694
	93565
o (A)	0.7327
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	8.81
recovery (A)	88
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

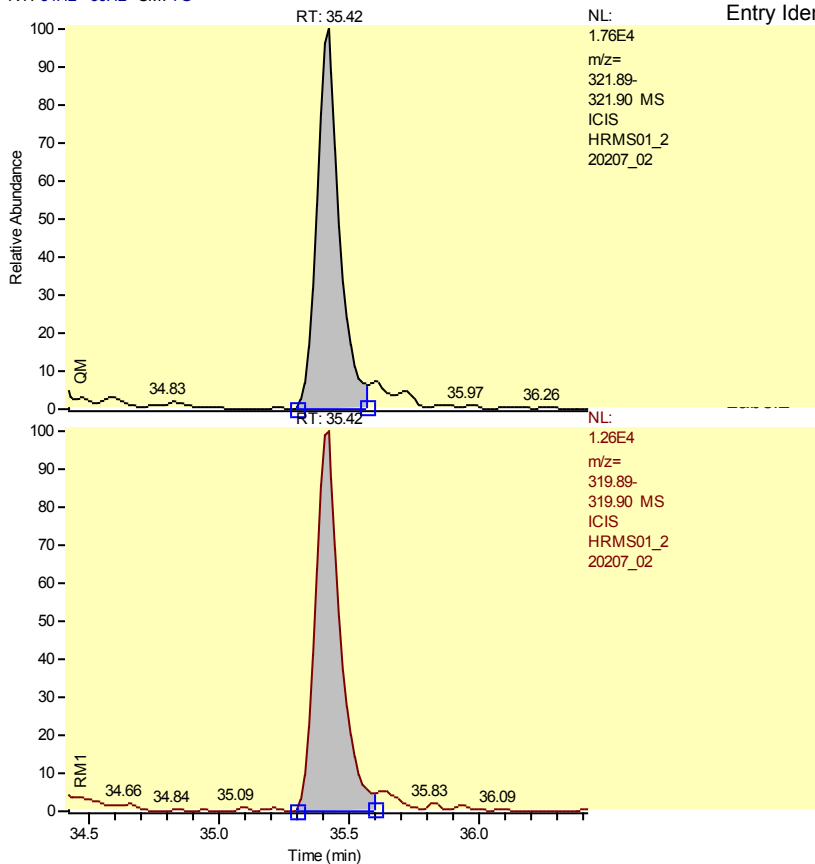
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 34.42 - 36.42 SM: 7G

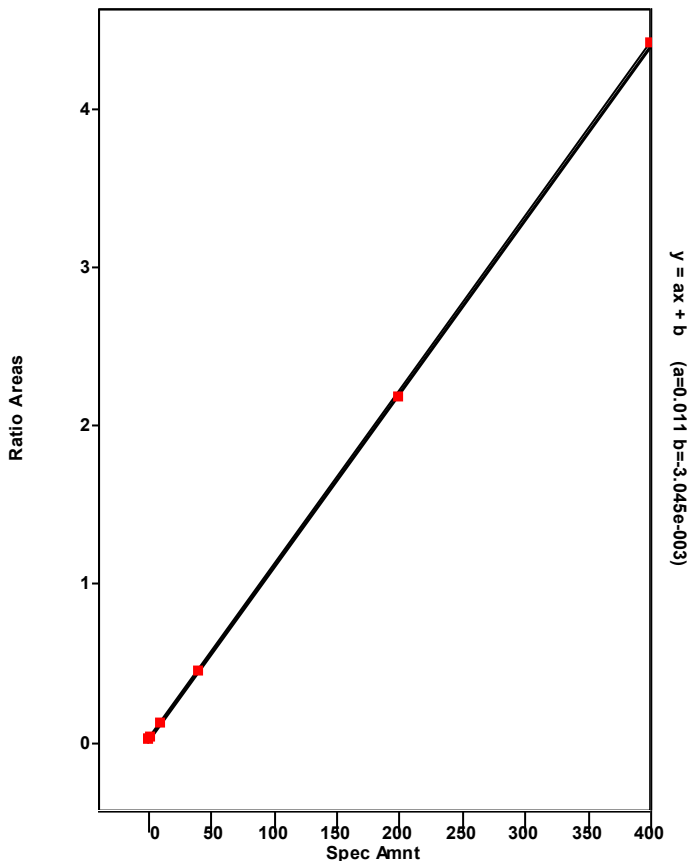


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
d Name	Single native TCDD
	CAS# 41903-57-5
	110274
	86382
o (A)	0.7833
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	7.83
recovery (A)	78
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

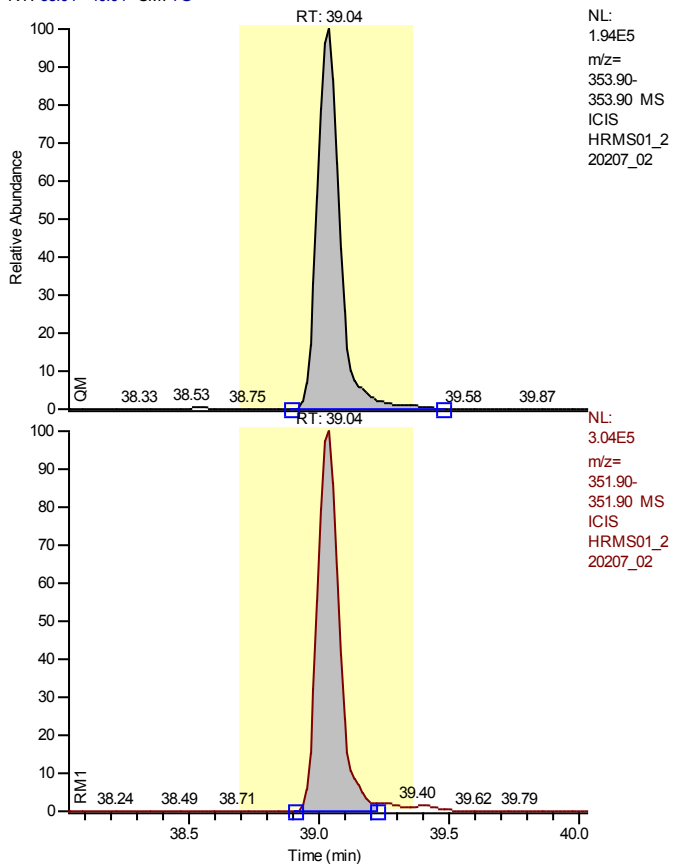
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G

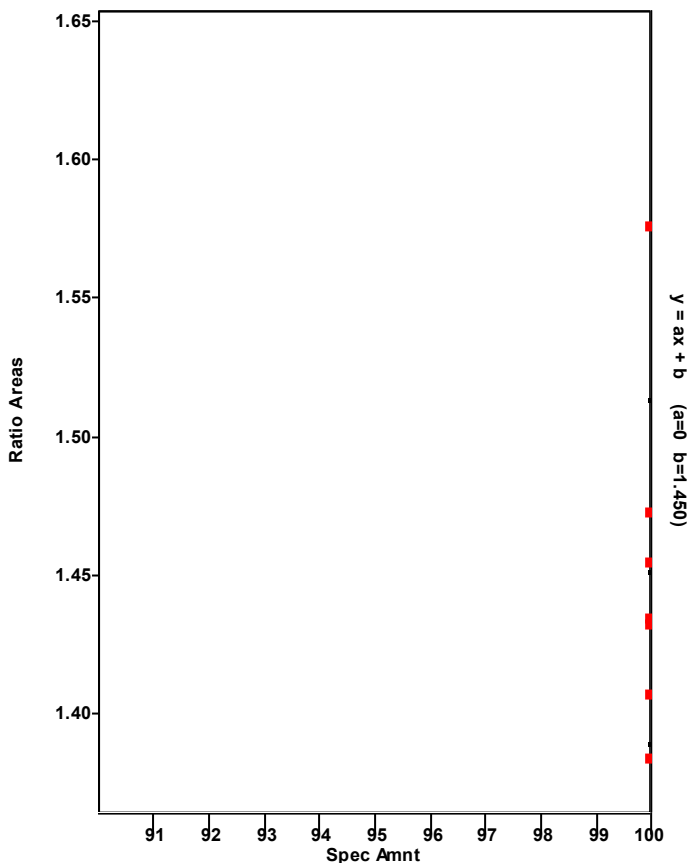


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	1165766
RM1 Area	1747247
RM1 Ratio (A)	1.4988
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	106.48
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

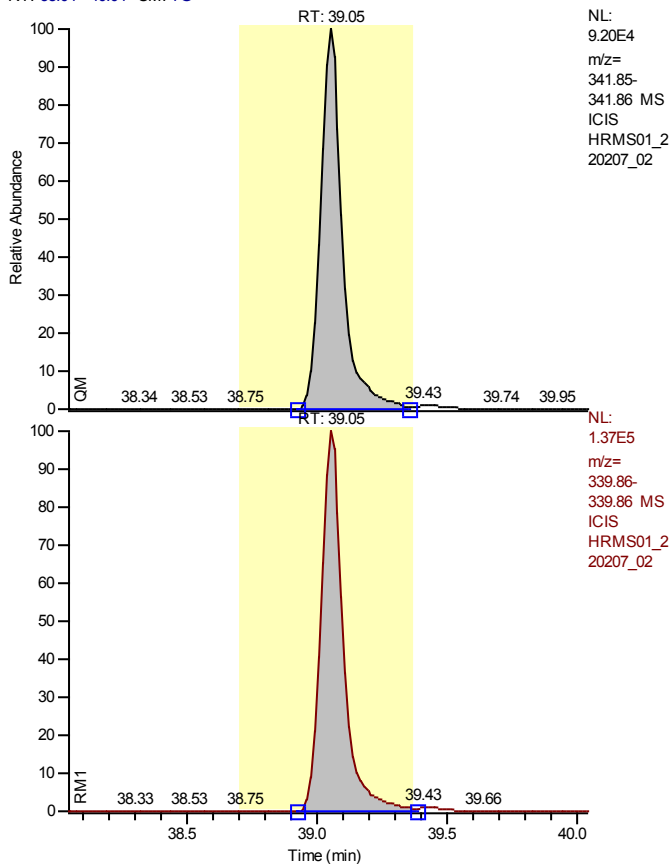
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.04 - 40.04 SM: 7G



NL:
 9.20E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_02

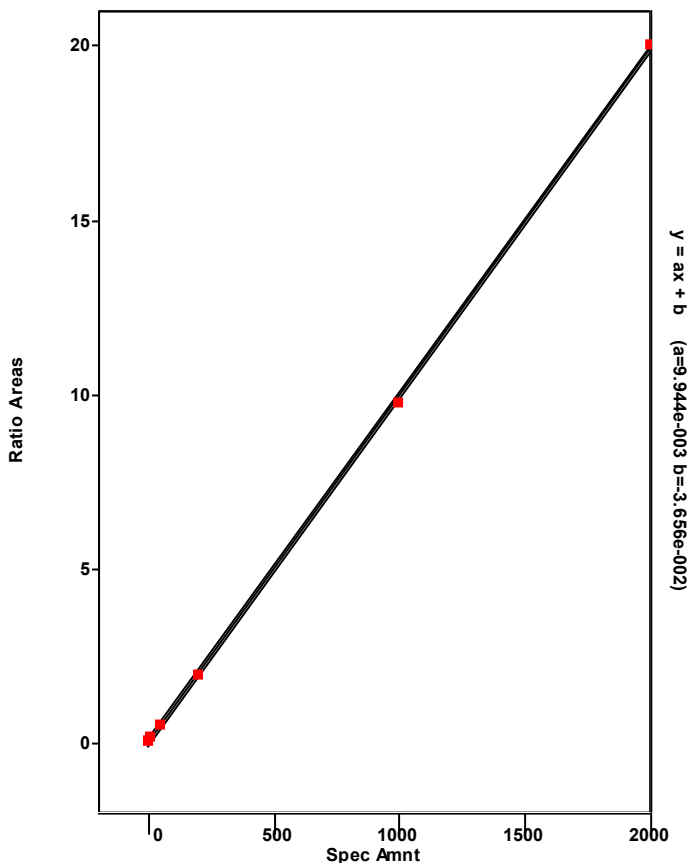
NL:
 1.37E5
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	540487
RM1 Area	823317
RM1 Ratio (A)	1.5233
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.29
Percent Recovery (A)	95
TEQ (A)	1.4187
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

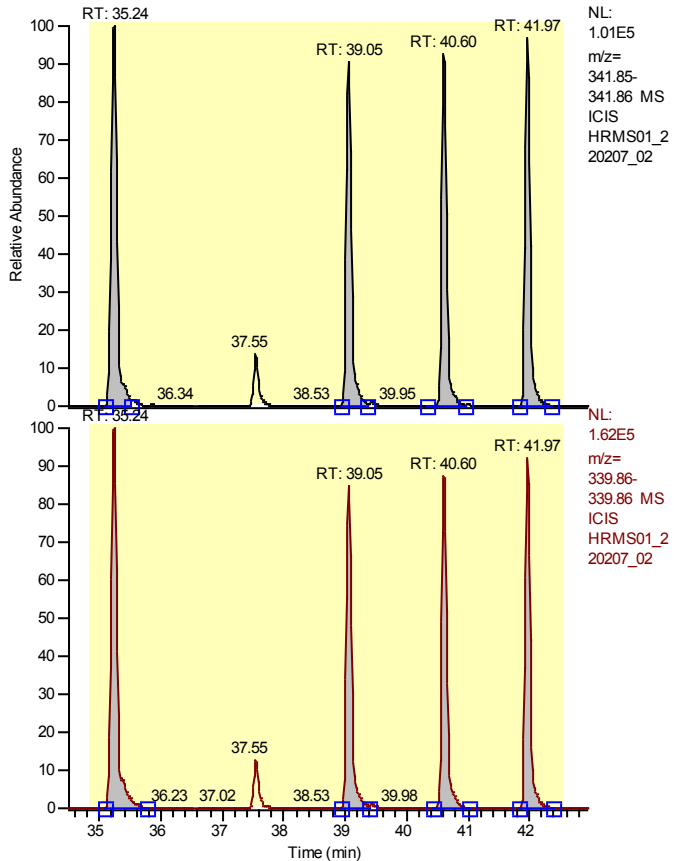
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.48 - 42.95 SM: 7G

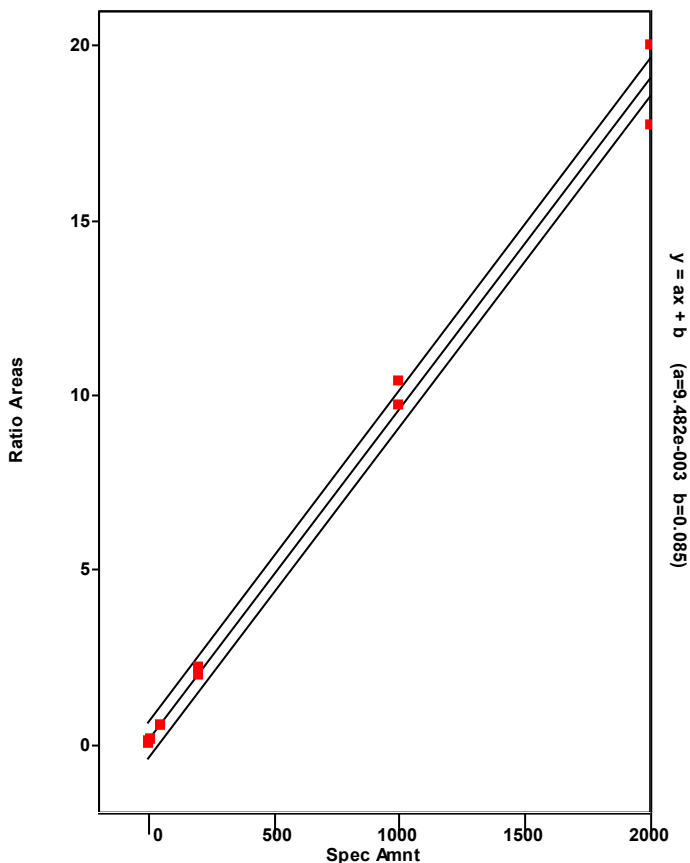


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	2273272
RM1 Area	3553332
RM1 Ratio (A)	1.5631
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	198.91
Percent Recovery (A)	398
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

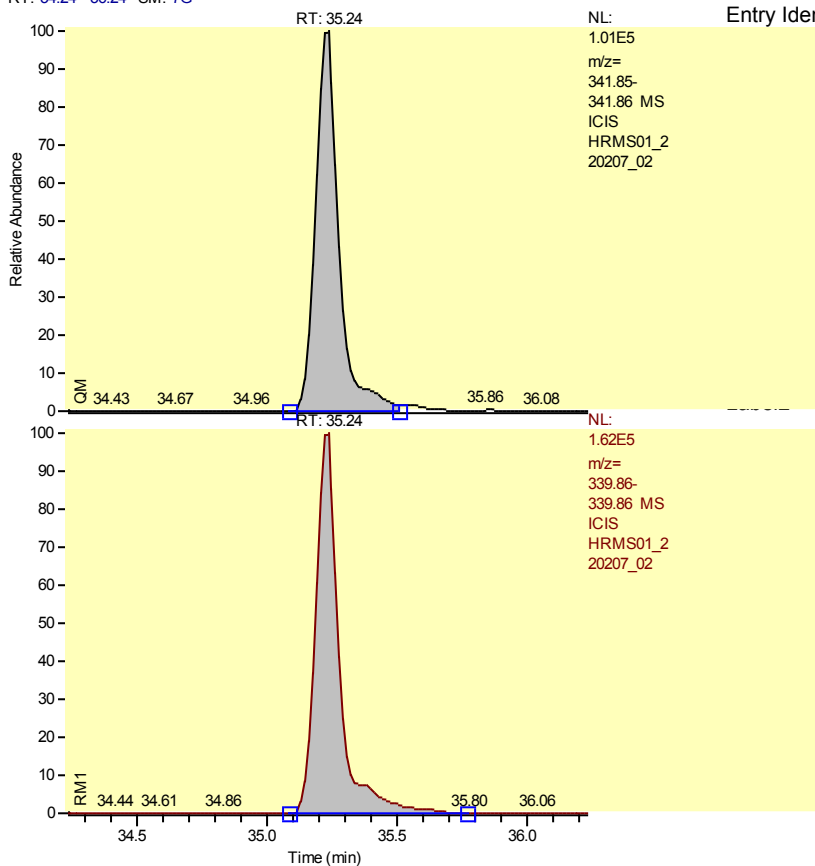
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 34.24 - 36.24 SM: 7G

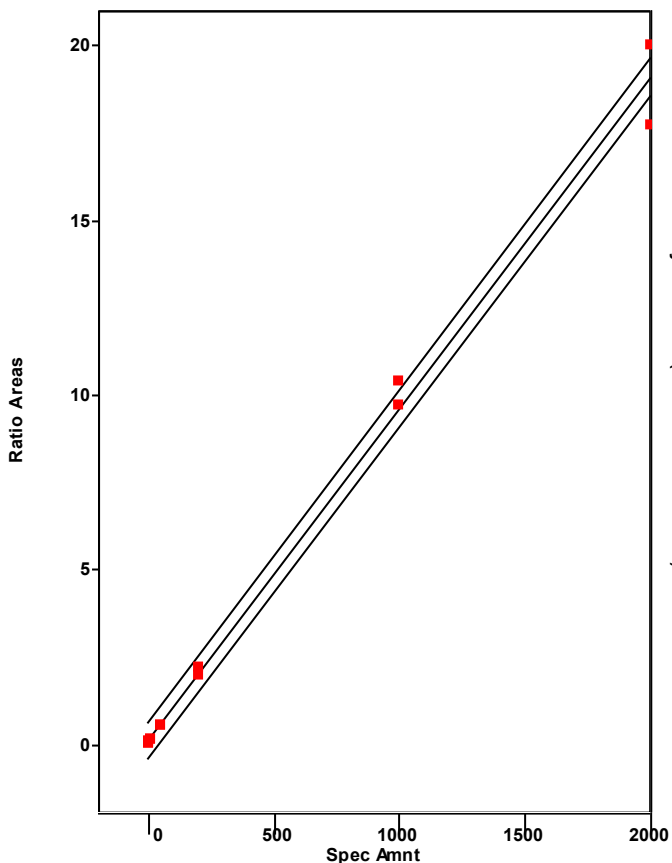


Entry Identifier	Total Pentachlorodibenzofuran__1
d Name	Single native PeCDF
	CAS# 30402-15-4
	666232
	1079380
o (A)	1.6201
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	59.59
recovery (A)	119
	0.0000

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

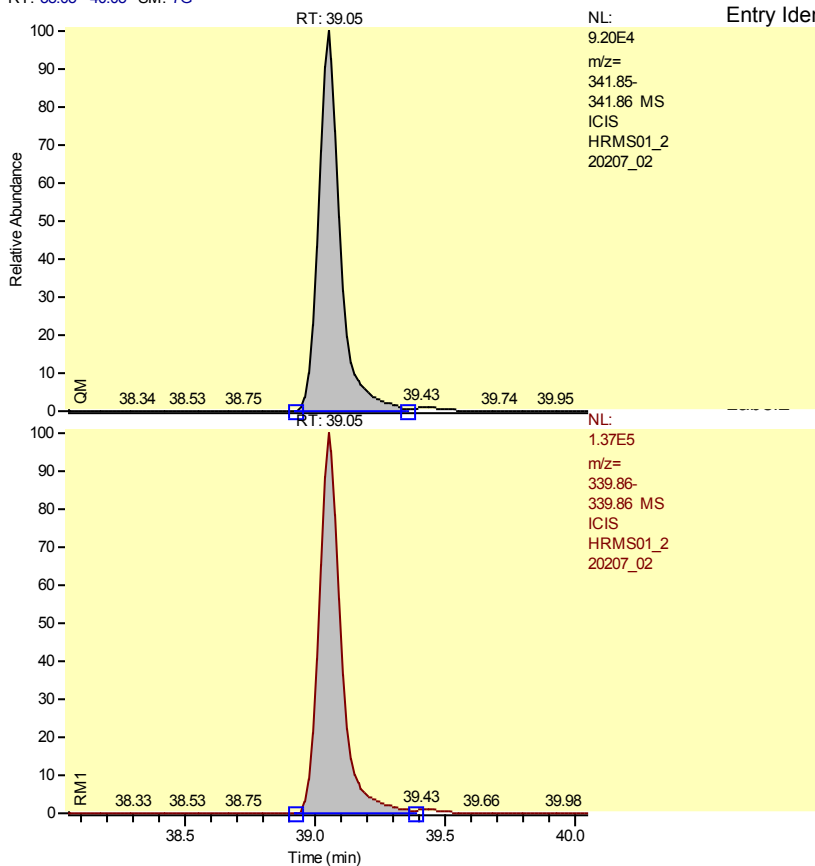
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.05 - 40.05 SM: 7G

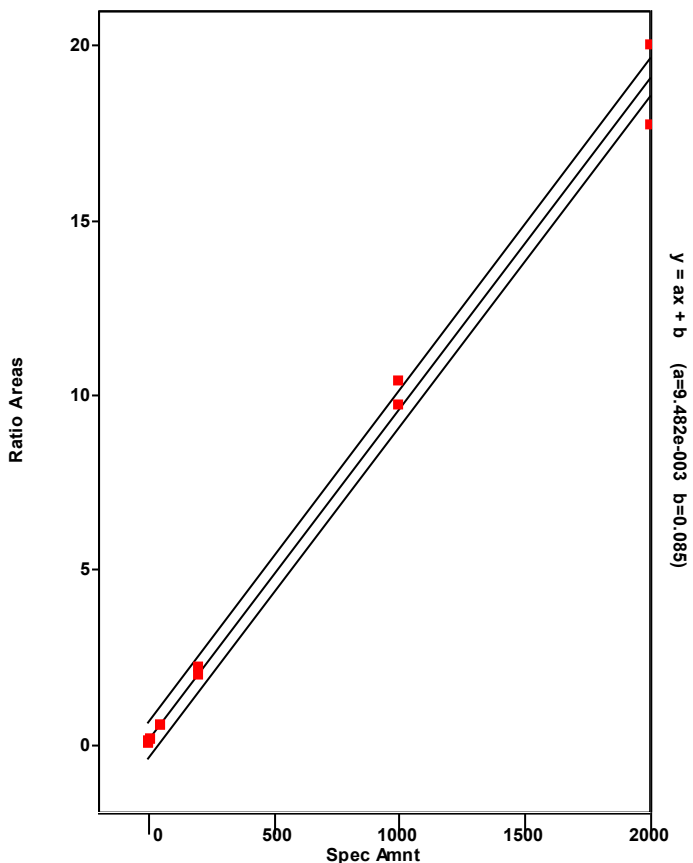


Entry Identifier	Total Pentachlorodibenzofuran__2
d Name	Single native PeCDF
	CAS# 30402-15-4
	540487
	823317
o (A)	1.5233
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	46.56
recovery (A)	93
	0.0000

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

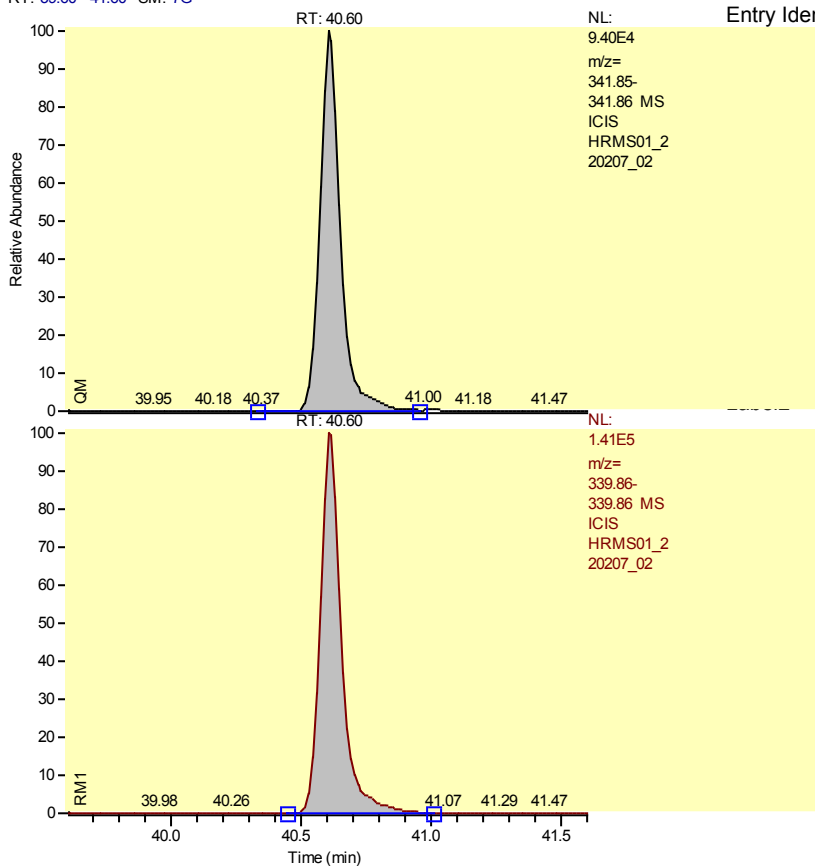
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.60 - 41.60 SM: 7G

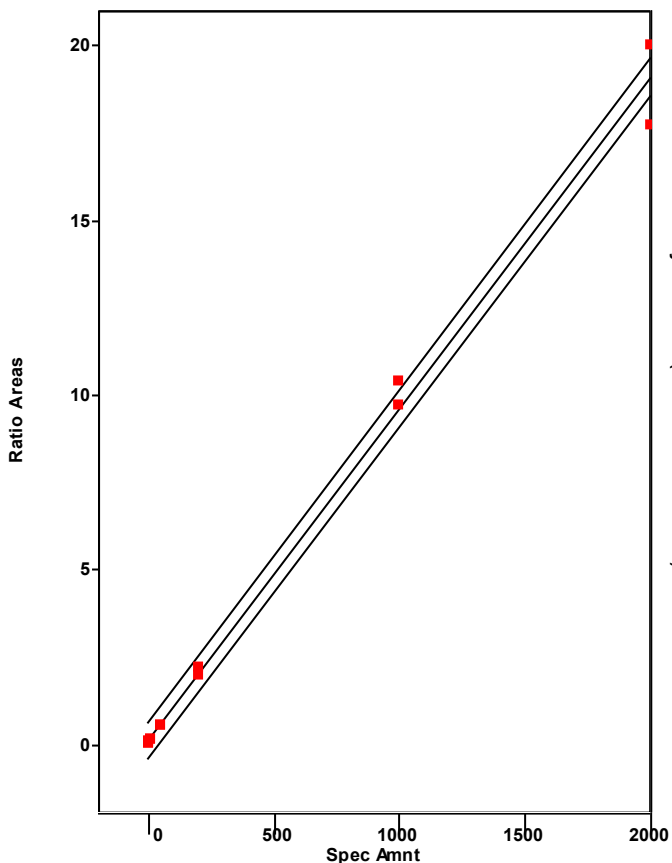


Entry Identifier	Total Pentachlorodibenzofuran__3
d Name	Single native PeCDF
	CAS# 30402-15-4
	524486
	815938
o (A)	1.5557
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	45.76
recovery (A)	92
	0.0000

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

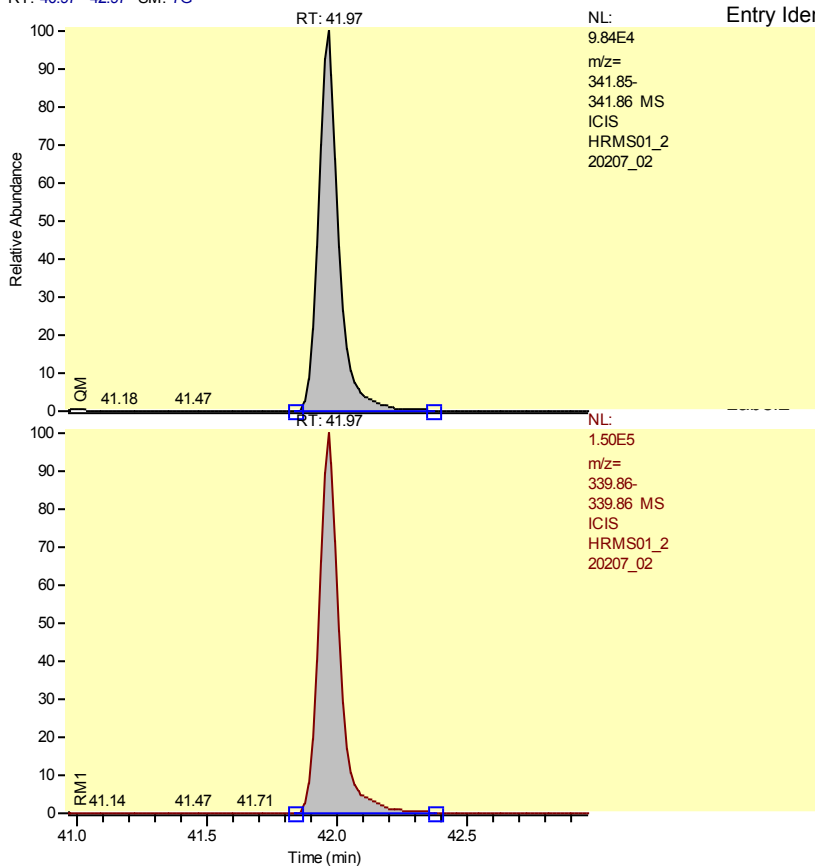
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 40.97 - 42.97 SM: 7G

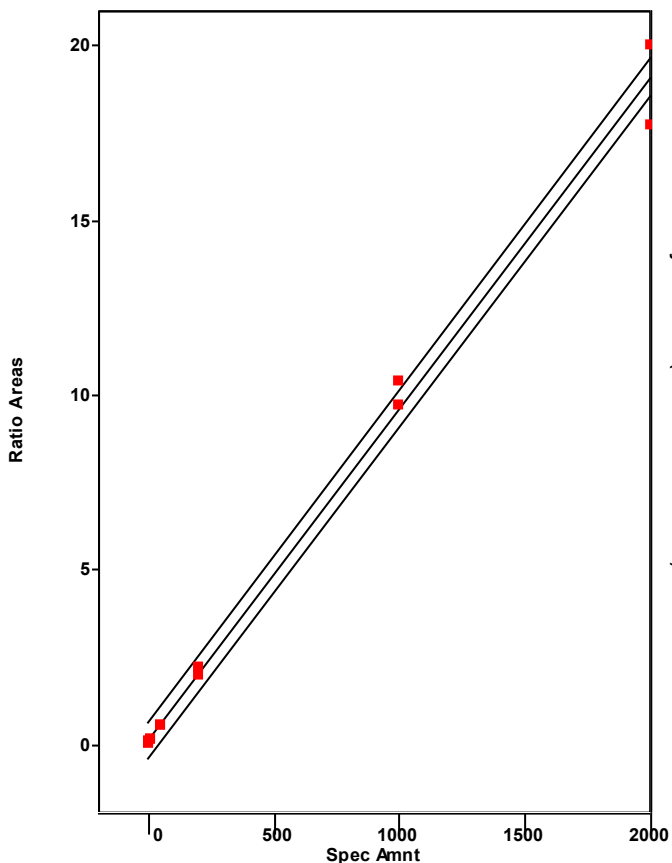


Entry Identifier	Total Pentachlorodibenzofuran__4
d Name	Single native PeCDF
	CAS# 30402-15-4
	542066
	834698
o (A)	1.5398
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	47.00
recovery (A)	94
	0.0000

Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

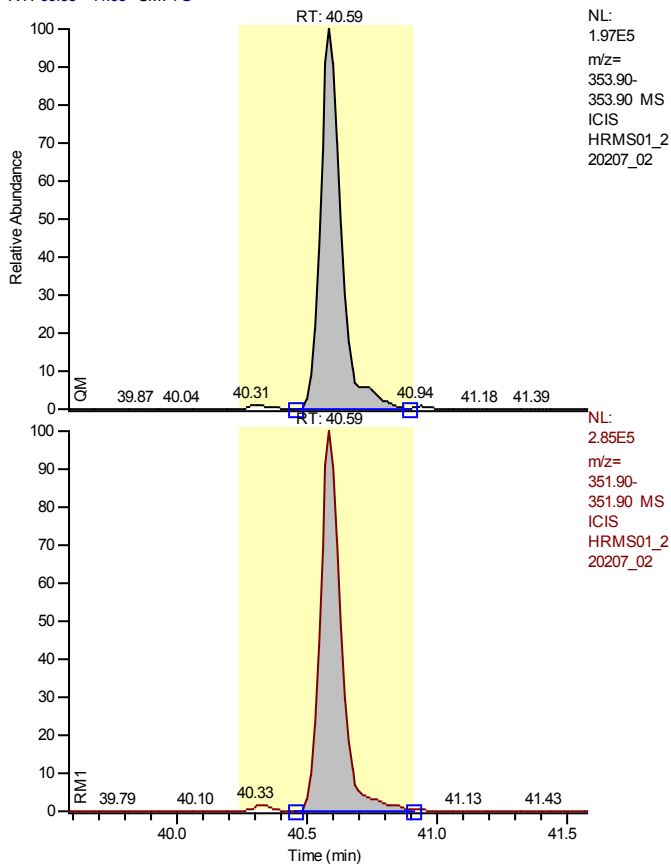
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.58 - 41.58 SM: 7G



NL:
1.97E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20207_02

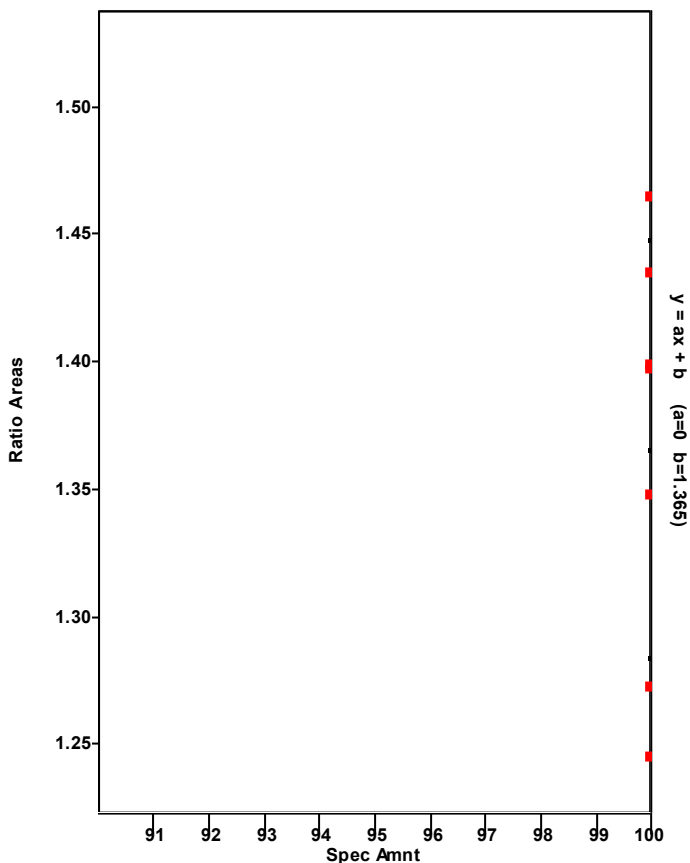
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	1113193
RM1 Area	1614521
RM1 Ratio (A)	1.4504
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	105.96
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

NL:
2.85E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20207_02

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

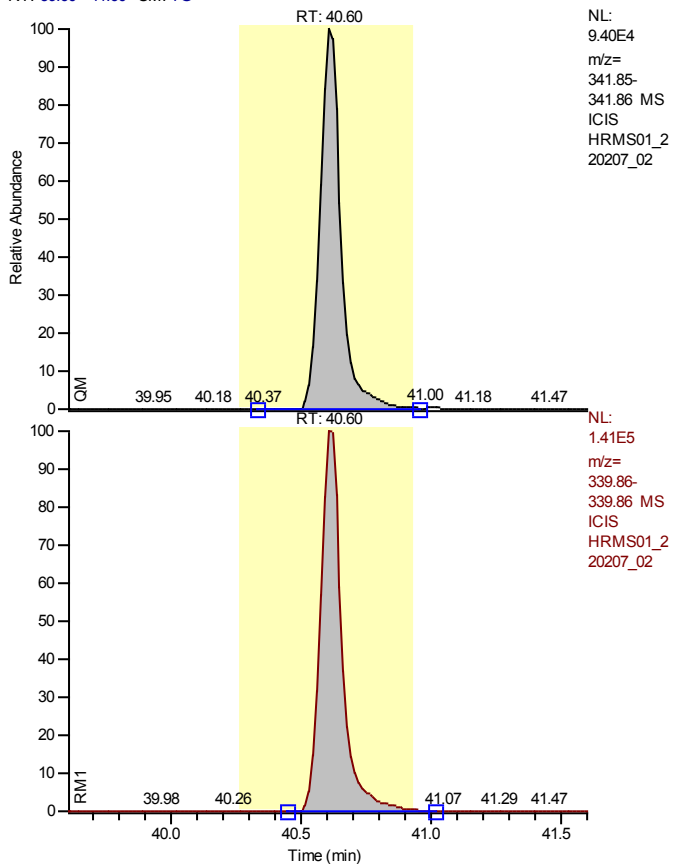
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.60 - 41.60 SM: 7G



NL:
 9.40E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_02

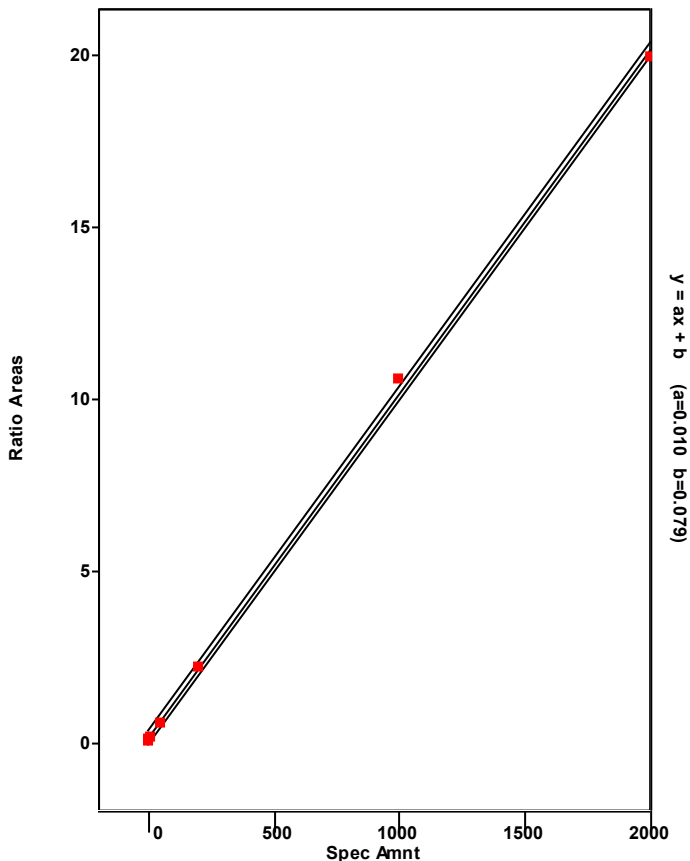
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	524486
RM1 Area	815938
RM1 Ratio (A)	1.5557
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	45.31
Percent Recovery (A)	91
TEQ (A)	13.5920
Label2	

NL:
 1.41E5
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

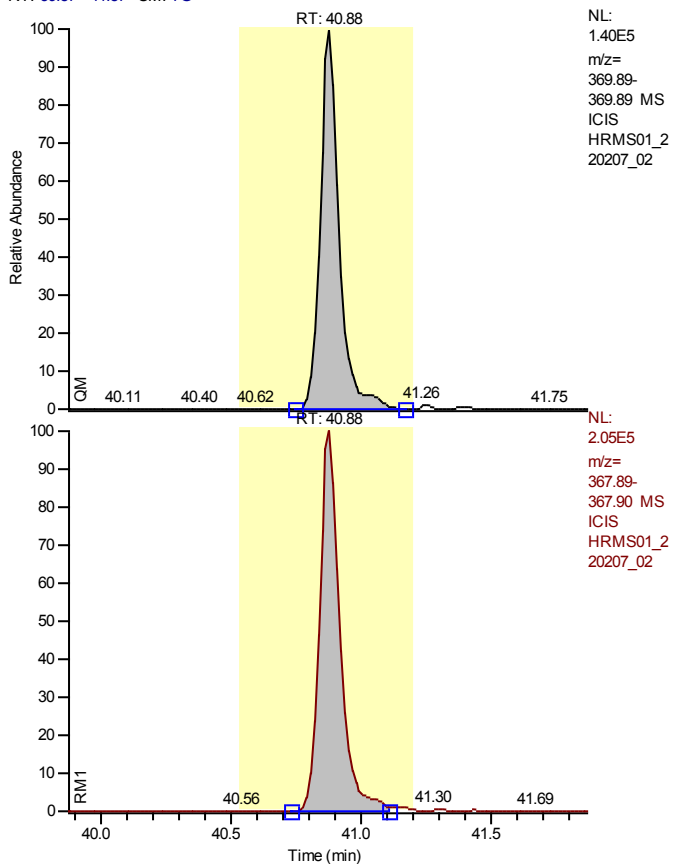
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

RT: 39.87 - 41.87 SM: 7G

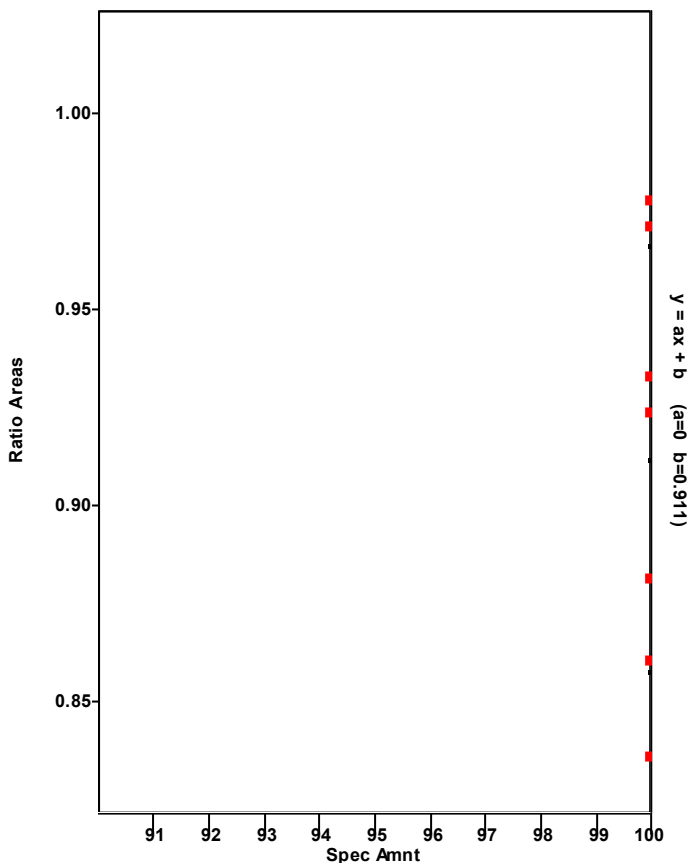


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	717785
RM1 Area	1133586
RM1 Ratio (A)	1.5793
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	107.71
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

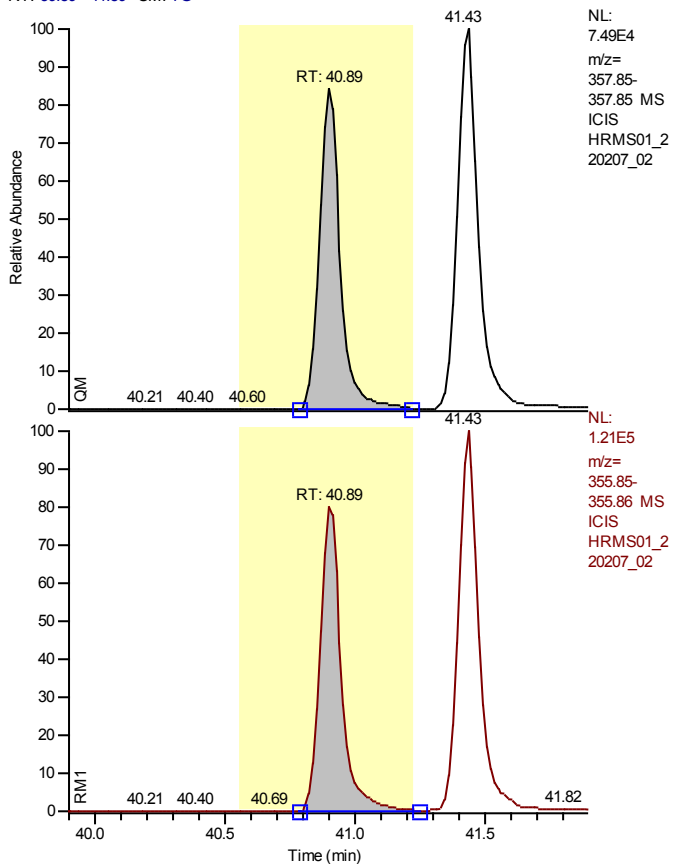
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.89 - 41.89 SM: 7G

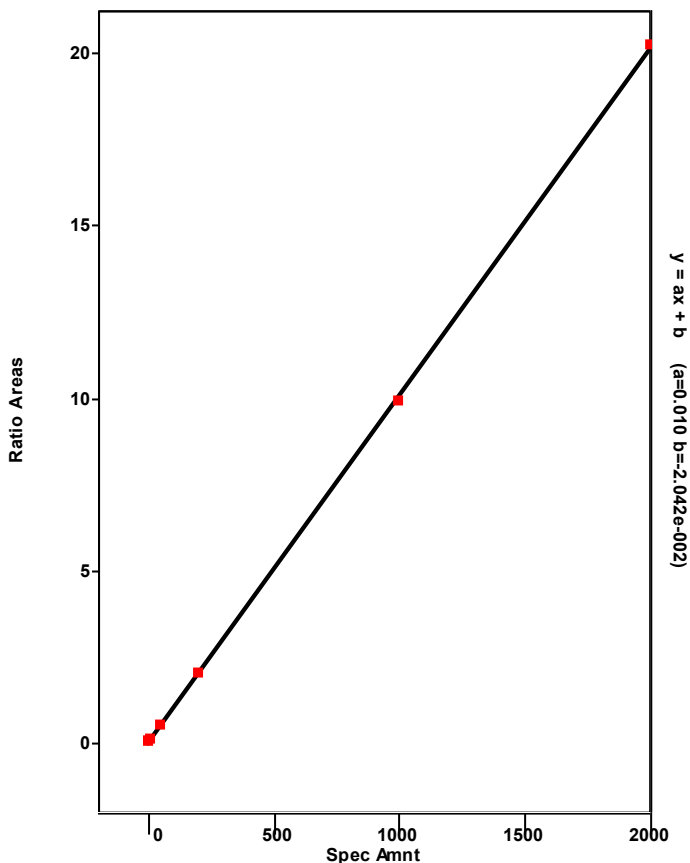


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	348601
RM1 Area	550127
RM1 Ratio (A)	1.5781
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	48.40
Percent Recovery (A)	97
TEQ (A)	48.3958
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

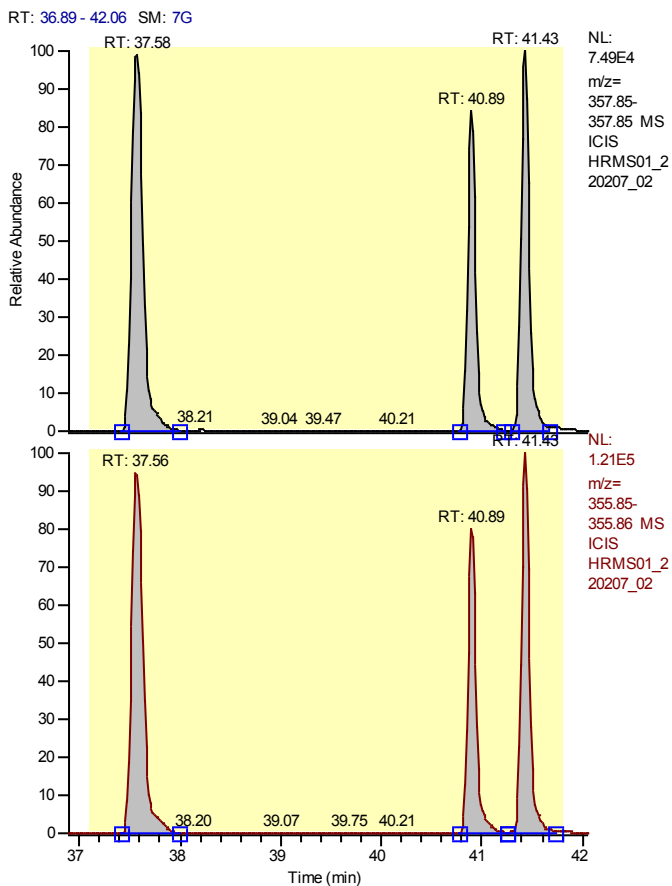
Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

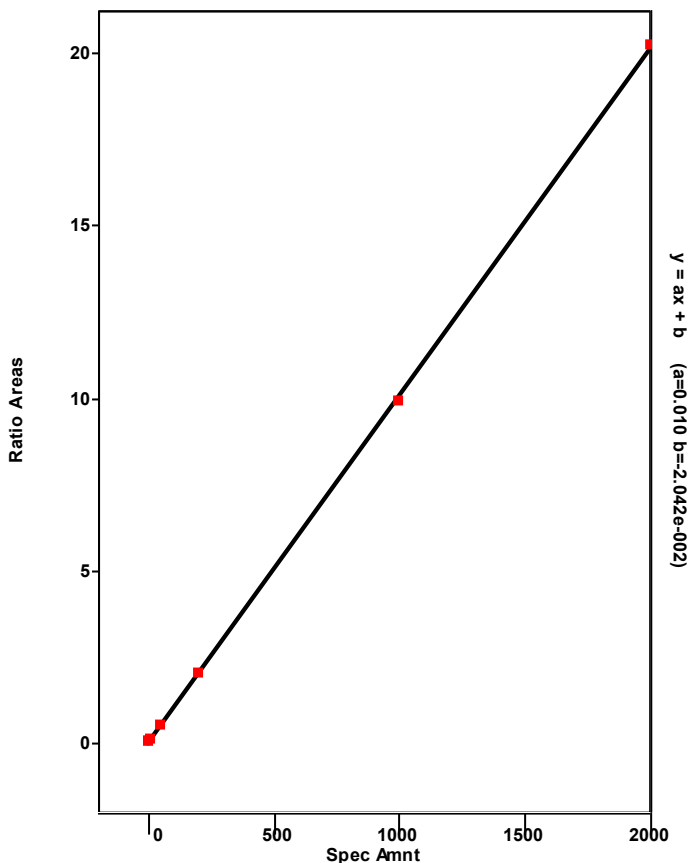


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	1382429
RM1 Area	2167537
RM1 Ratio (A)	1.5679
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	191.16
Percent Recovery (A)	382
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

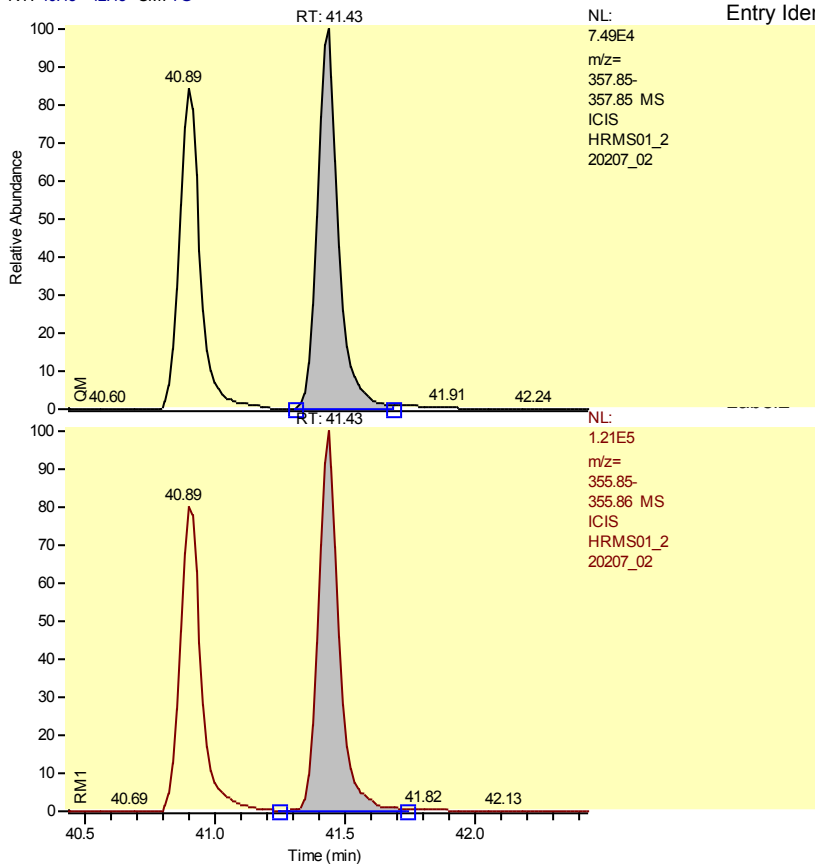
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 40.43 - 42.43 SM: 7G

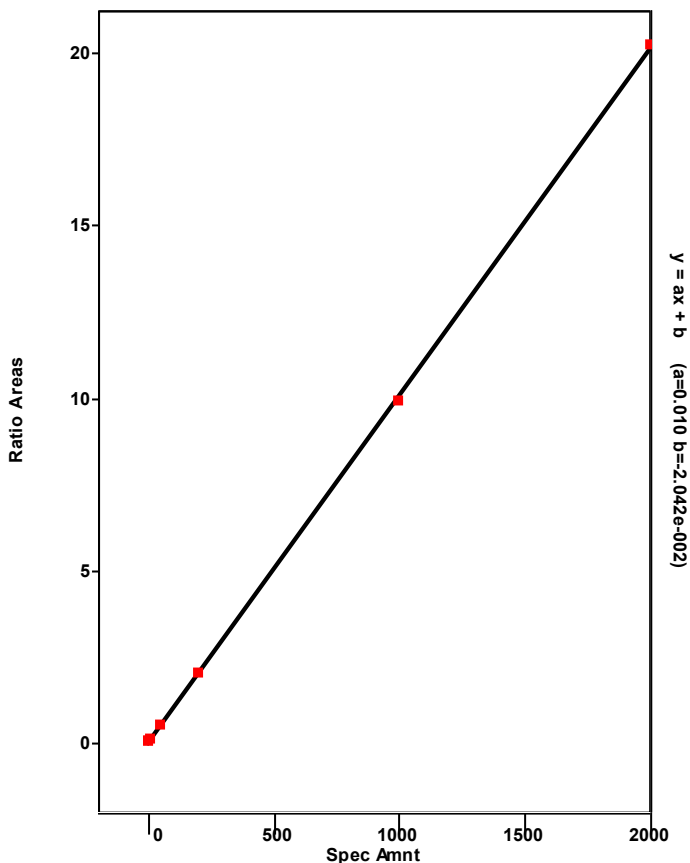


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
d Name	Single native PeCDD
	CAS# 36088-22-9
	423050
	674140
o (A)	1.5935
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	59.08
recovery (A)	118
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

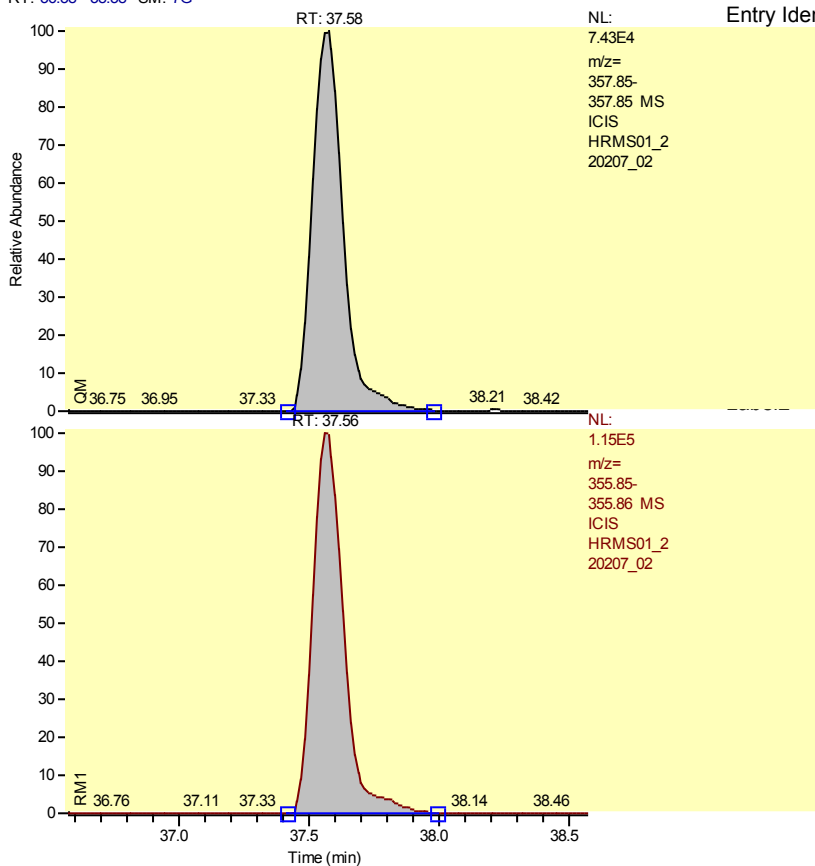
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.58 - 38.58 SM: 7G

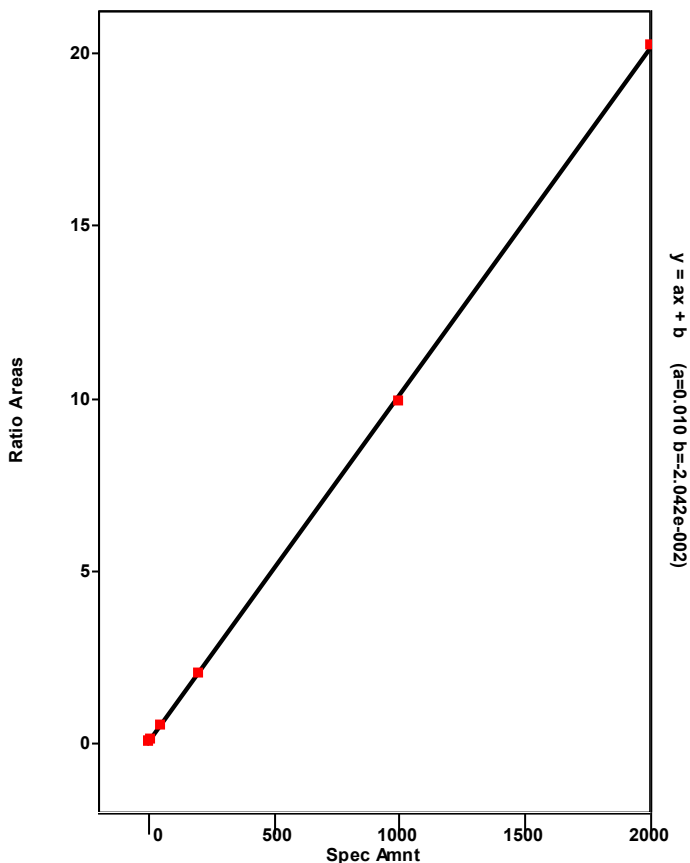


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
d Name	Single native PeCDD
	CAS# 36088-22-9
	610778
	943269
o (A)	1.5444
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	83.68
recovery (A)	167
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

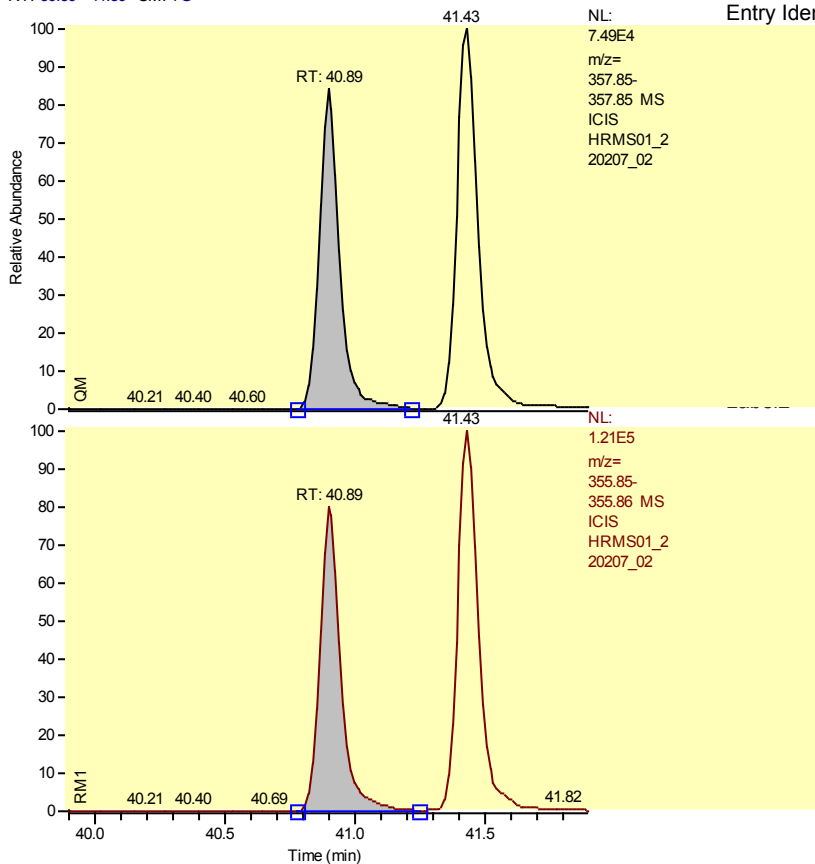
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.89 - 41.89 SM: 7G

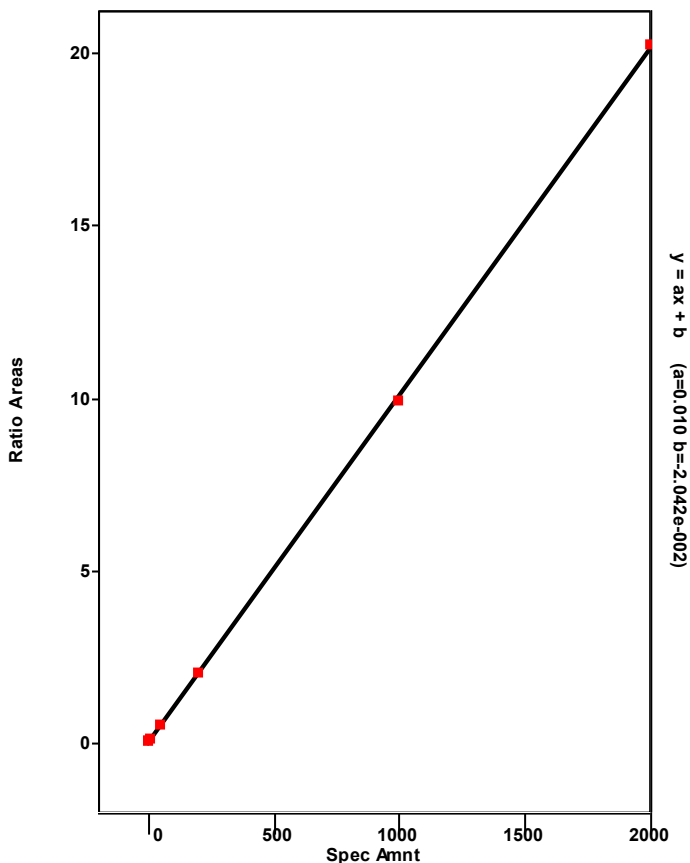


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
d Name	Single native PeCDD
	CAS# 36088-22-9
	348601
	550127
o (A)	1.5781
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	48.40
recovery (A)	97
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

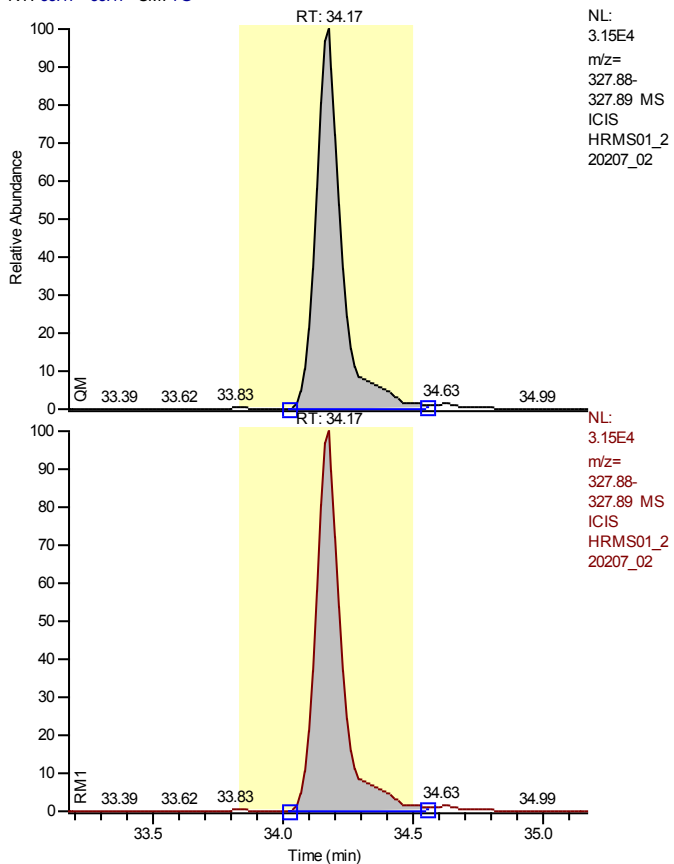
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.17 - 35.17 SM: 7G

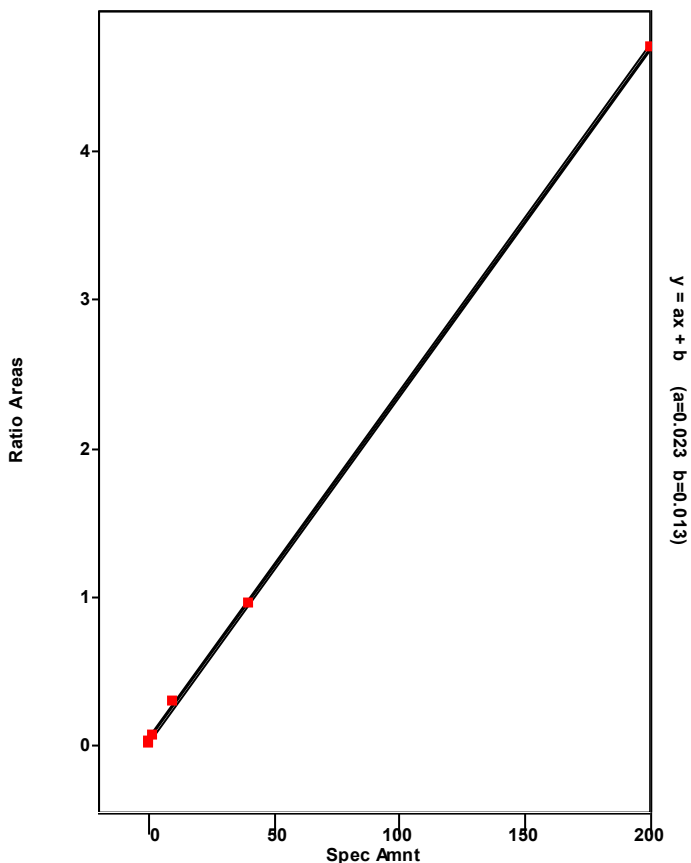


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	225040
RM1 Area	225040
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.53
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

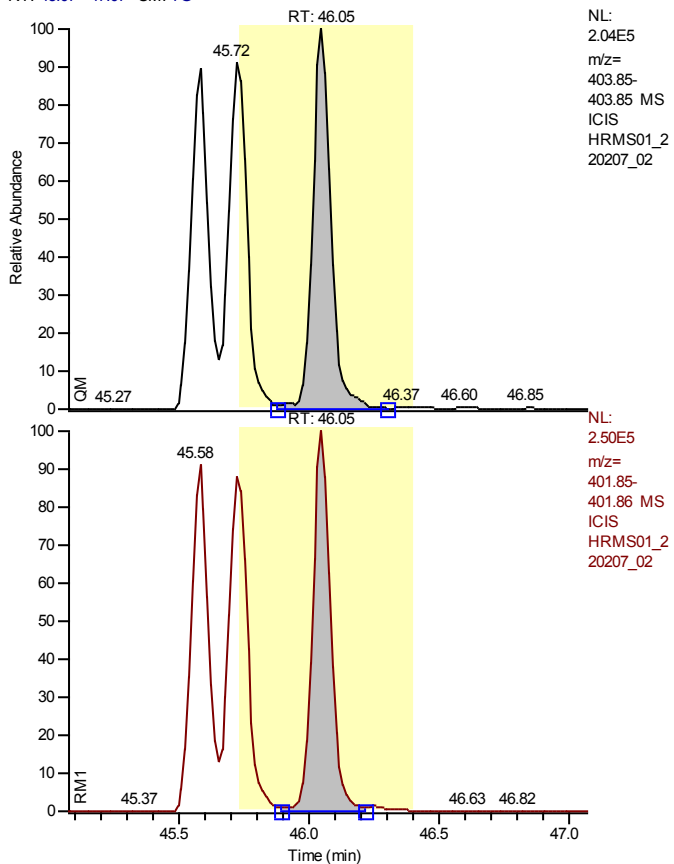
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G

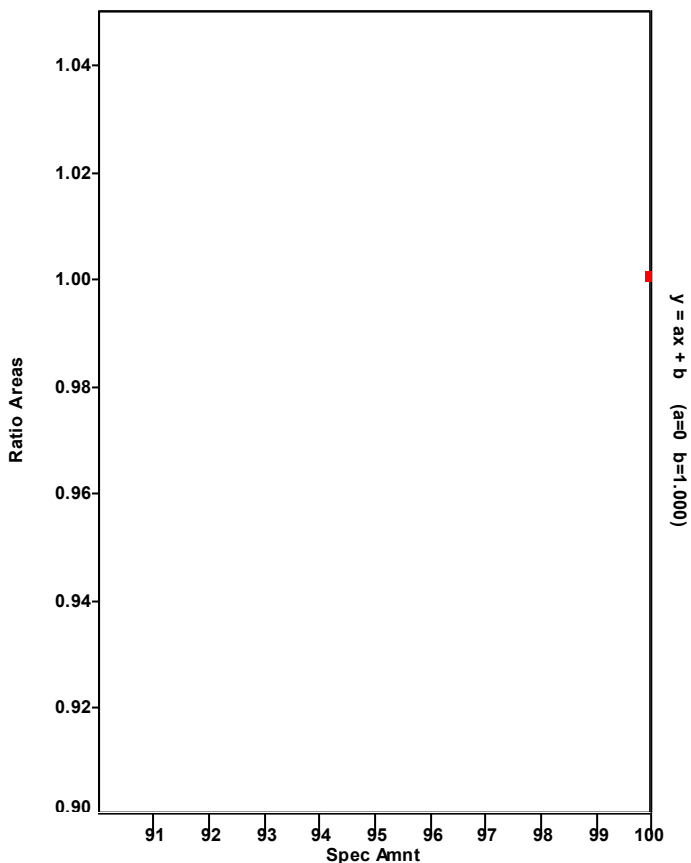


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	988742
RM1 Area	1212043
RM1 Ratio (A)	1.2258
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

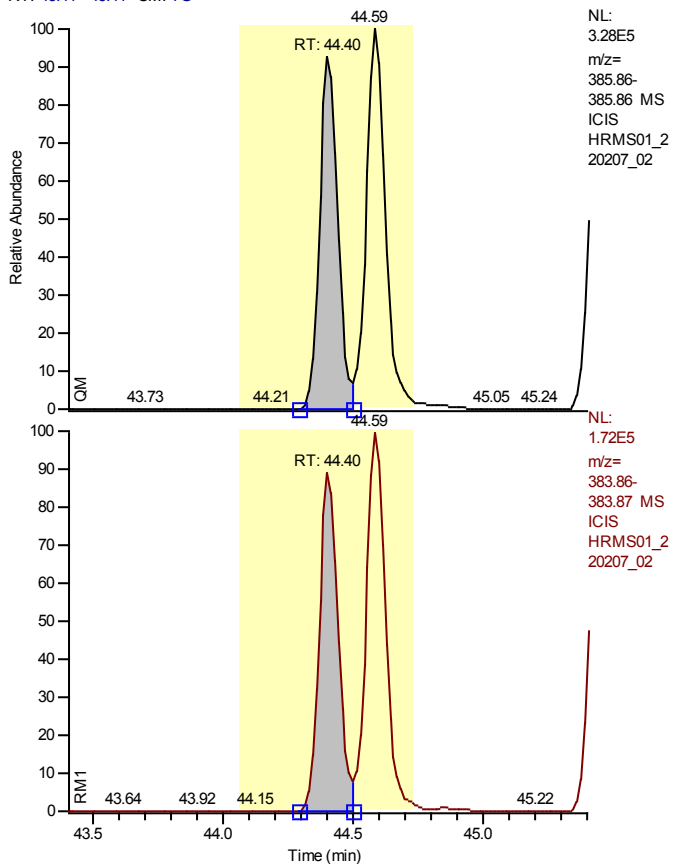
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.41 - 45.41 SM: 7G

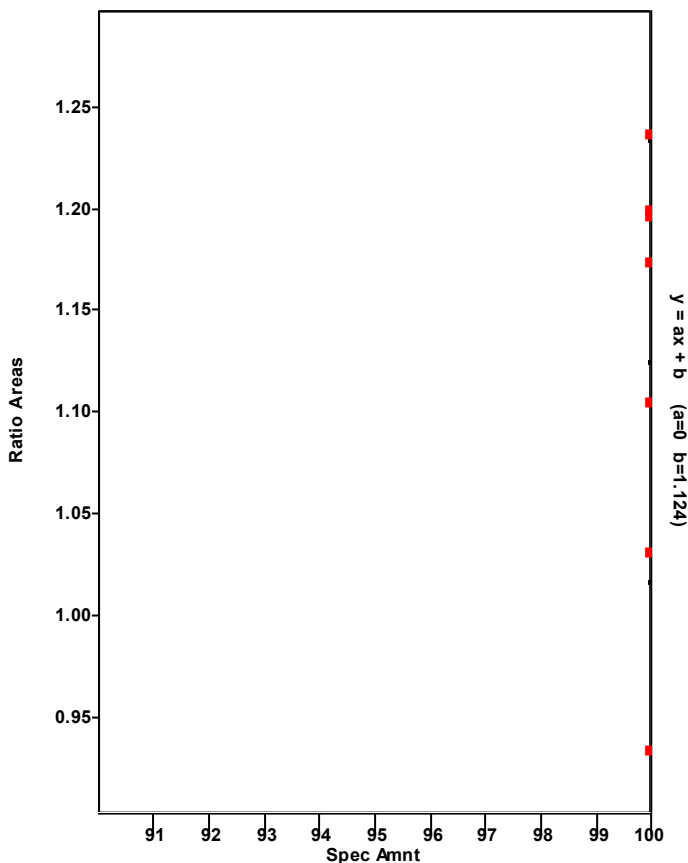


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1476277
RM1 Area	772742
RM1 Ratio (A)	0.5234
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	90.96
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

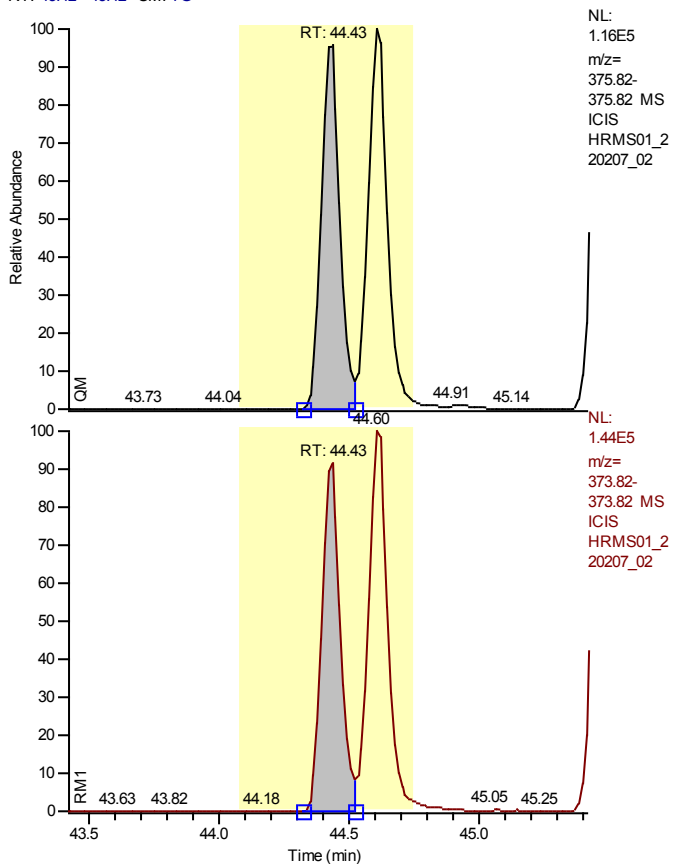
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.42 - 45.42 SM: 7G

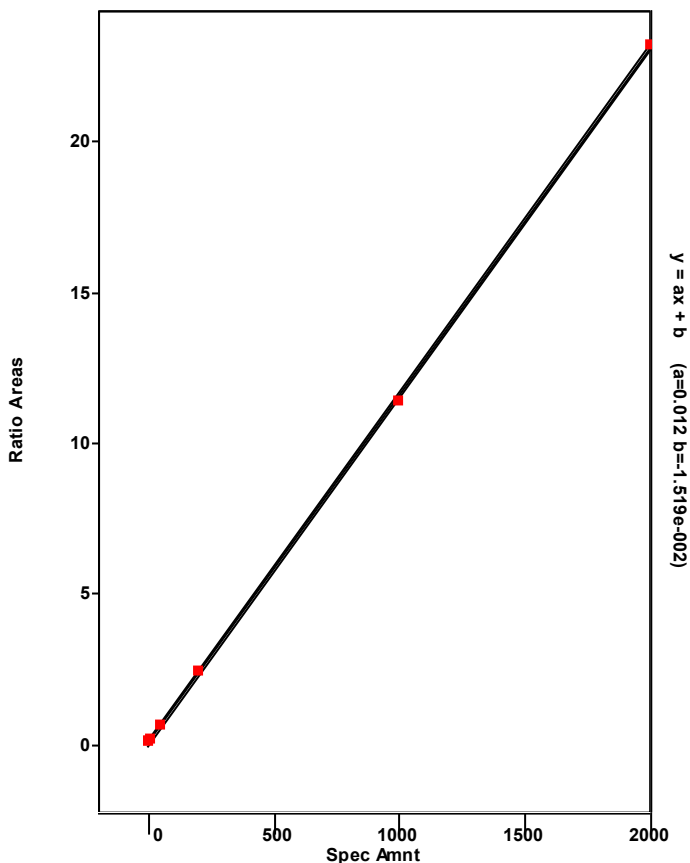


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	548826
RM1 Area	650699
RM1 Ratio (A)	1.1856
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.28
Percent Recovery (A)	93
TEQ (A)	4.6276
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

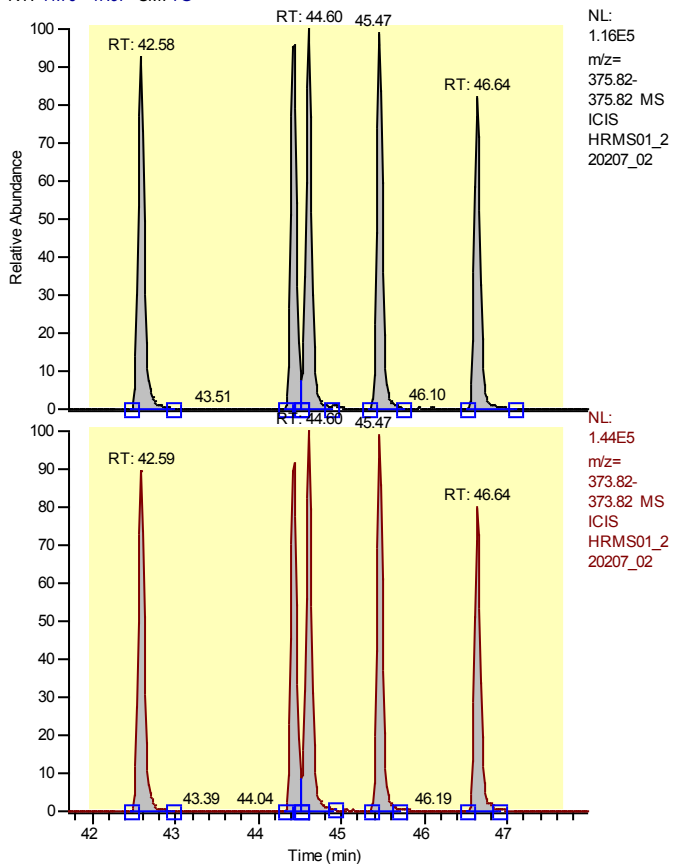
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.70 - 47.97 SM: 7G

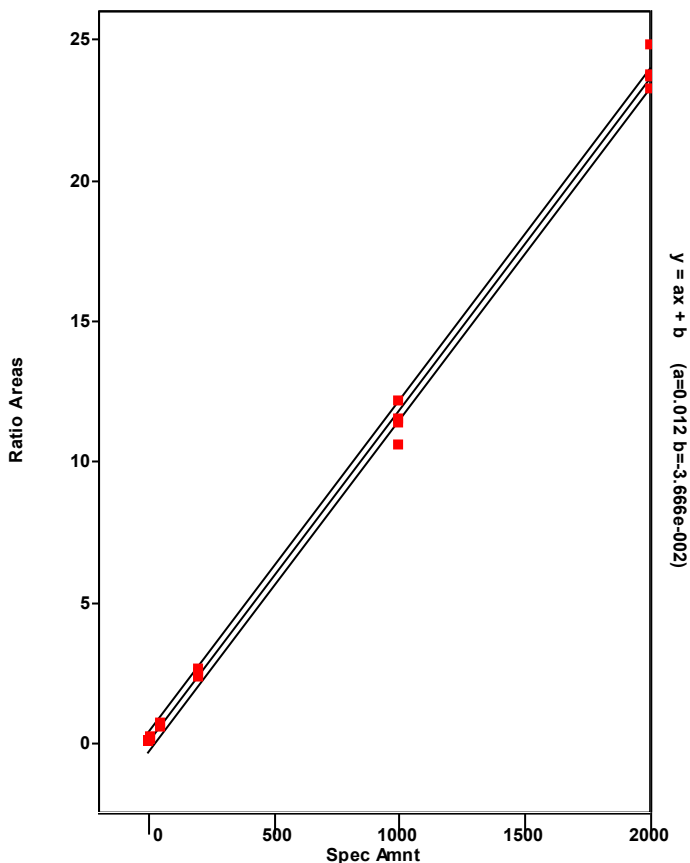


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	2782781
RM1 Area	3363110
RM1 Ratio (A)	1.2085
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	228.55
Percent Recovery (A)	457
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

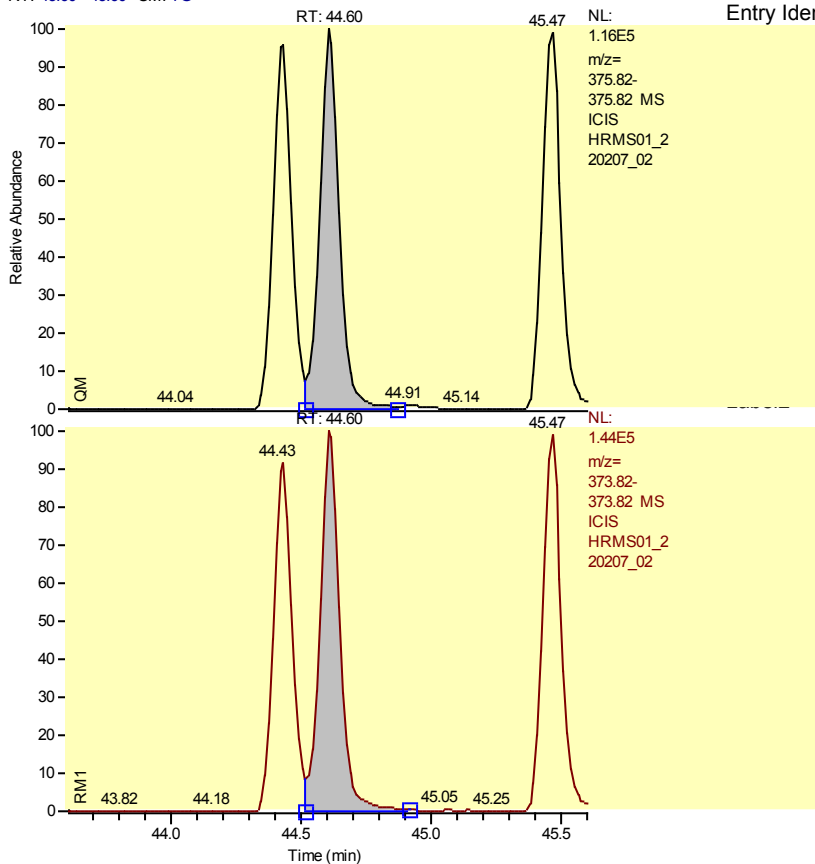
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.60 - 45.60 SM: 7G

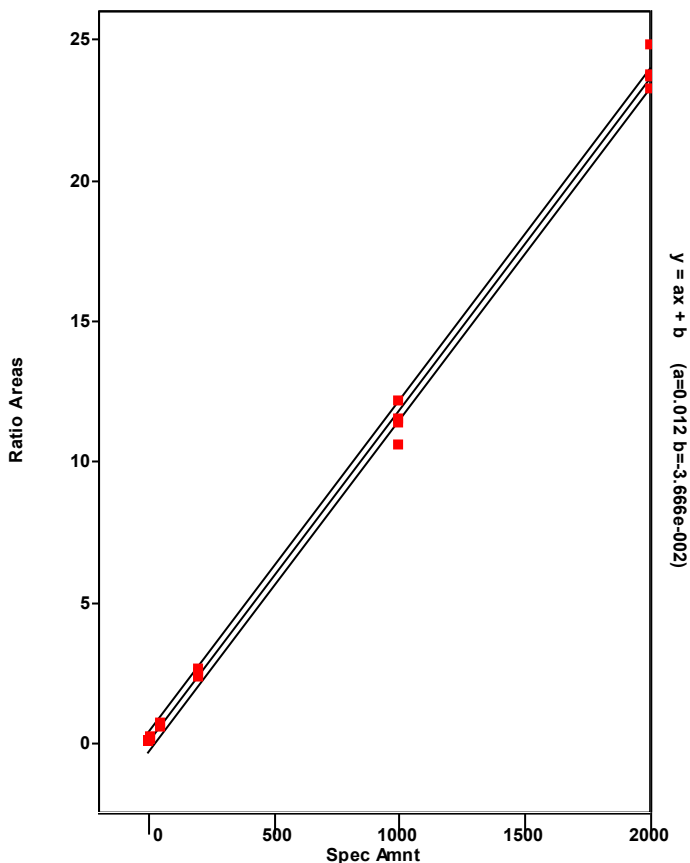


Entry Identifier	Total Hexachlorodibenzofuran__1
d Name	Single native HxCDF
	CAS# 55684-94-1
	600717
	749522
o (A)	1.2477
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	50.21
recovery (A)	100
	0.0000

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

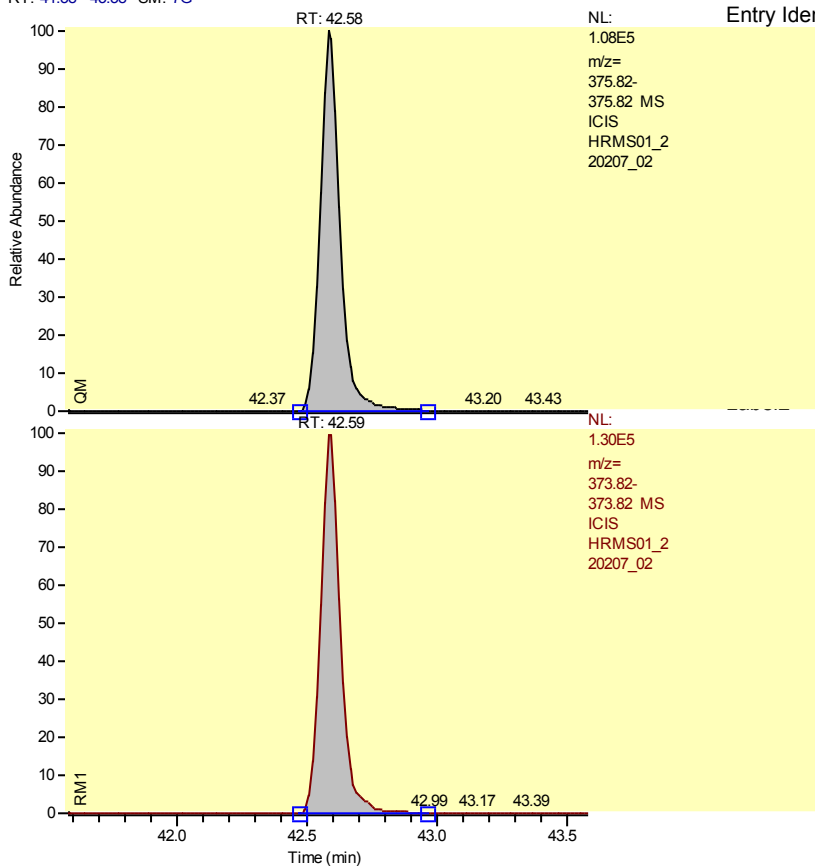
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 41.58 - 43.58 SM: 7G

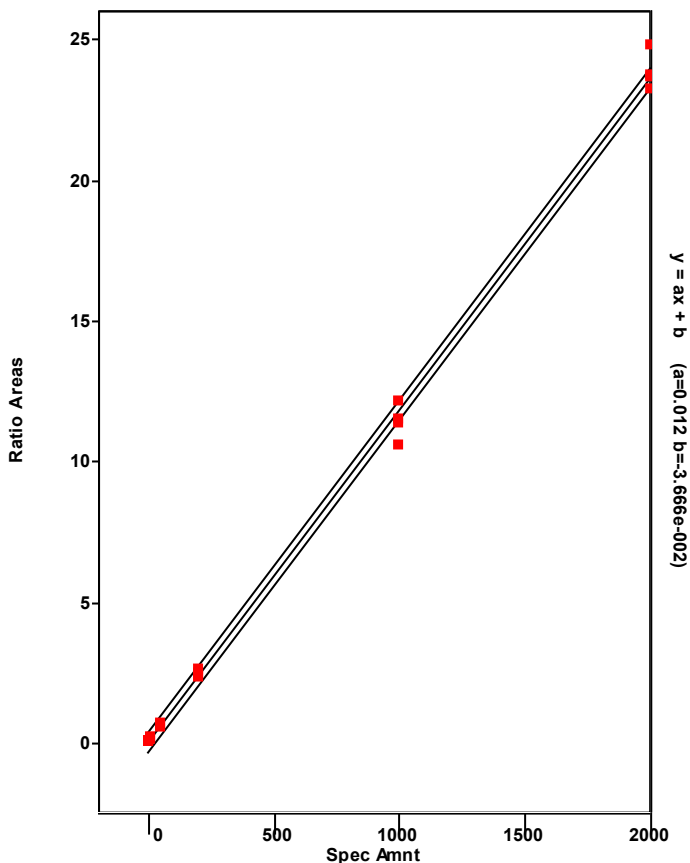


Entry Identifier	Total Hexachlorodibenzofuran__2
d Name	Single native HxCDF
	CAS# 55684-94-1
	572501
	687577
o (A)	1.2010
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	46.86
recovery (A)	94
	0.0000

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

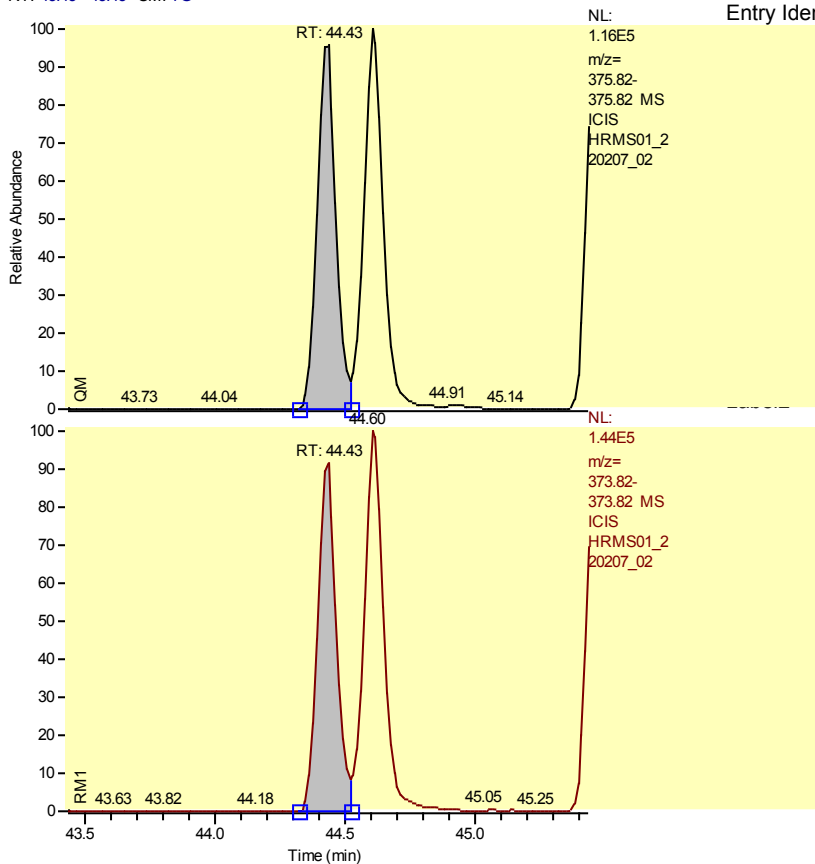
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G

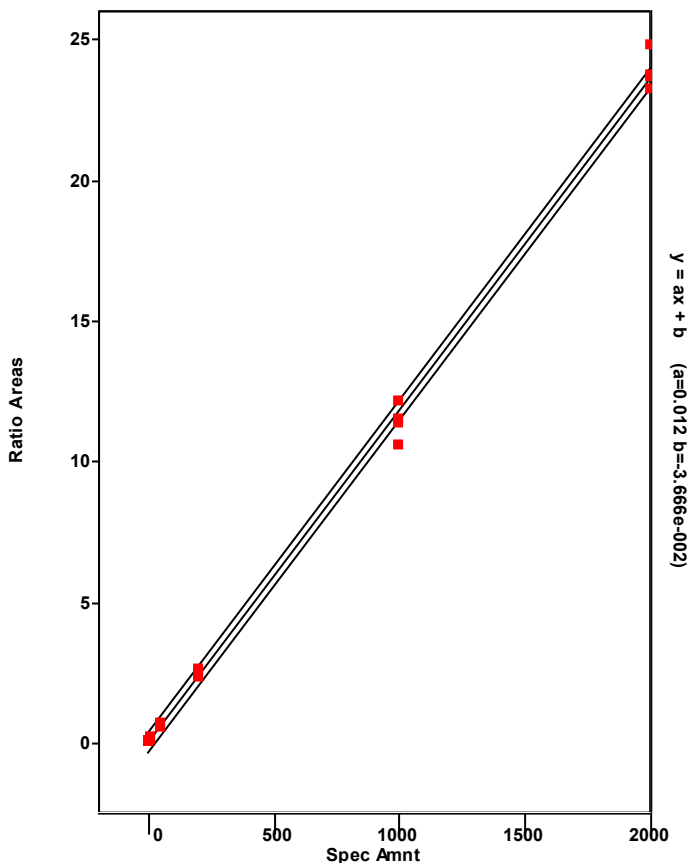


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
	CAS# 55684-94-1
	548826
	650699
Retention (A)	1.1856
Unit	1.0500 - 1.4300
Amount	50.00
Adjusted Amount (A)	44.61
Recovery (A)	89
	0.0000

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

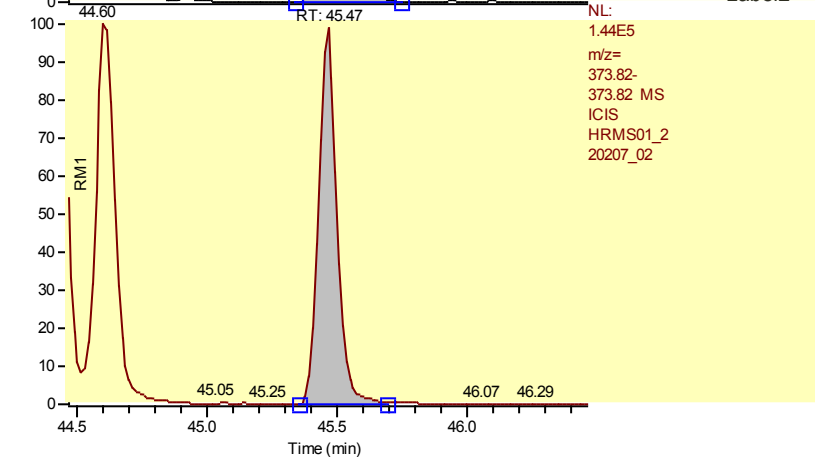
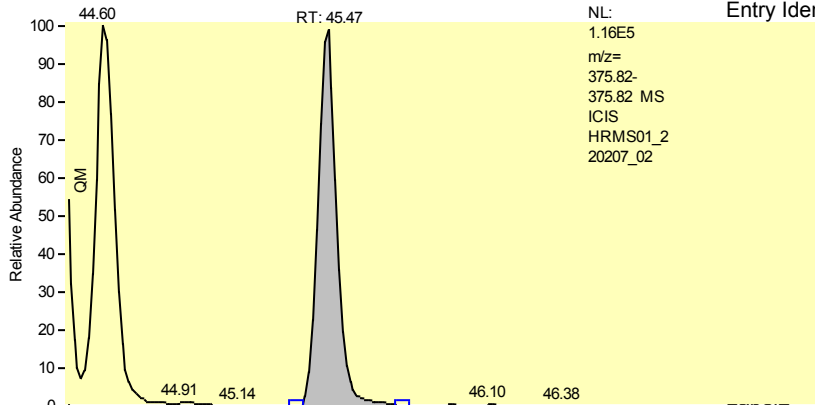
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 44.47 - 46.47 SM: 7G

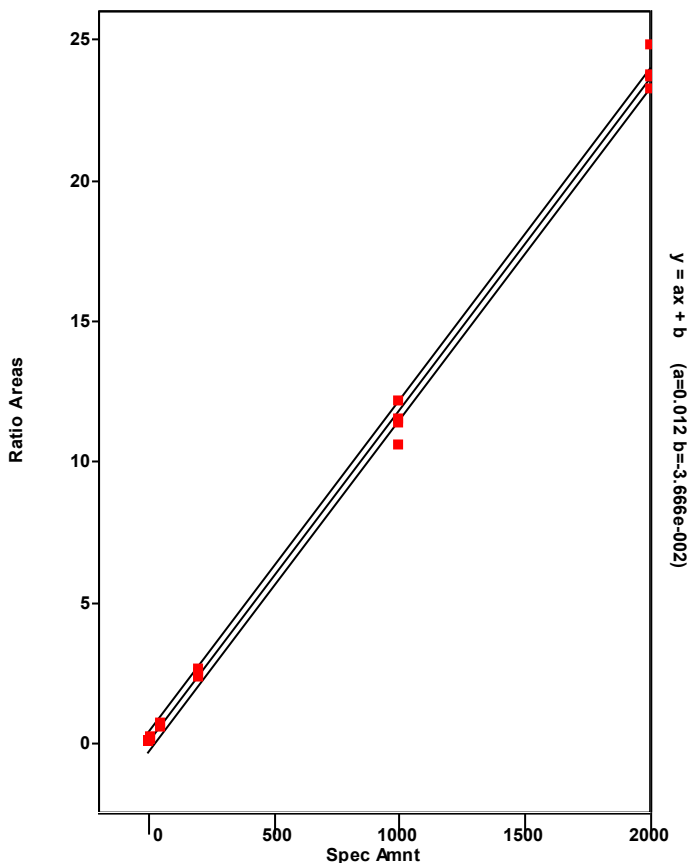


Entry Identifier	Total Hexachlorodibenzofuran__4
Sample Name	Single native HxCDF
	CAS# 55684-94-1
	569990
	697638
Retention (A)	1.2239
Unit	1.0500 - 1.4300
Amount	50.00
Adjusted Amount (A)	47.14
Recovery (A)	94
	0.0000

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

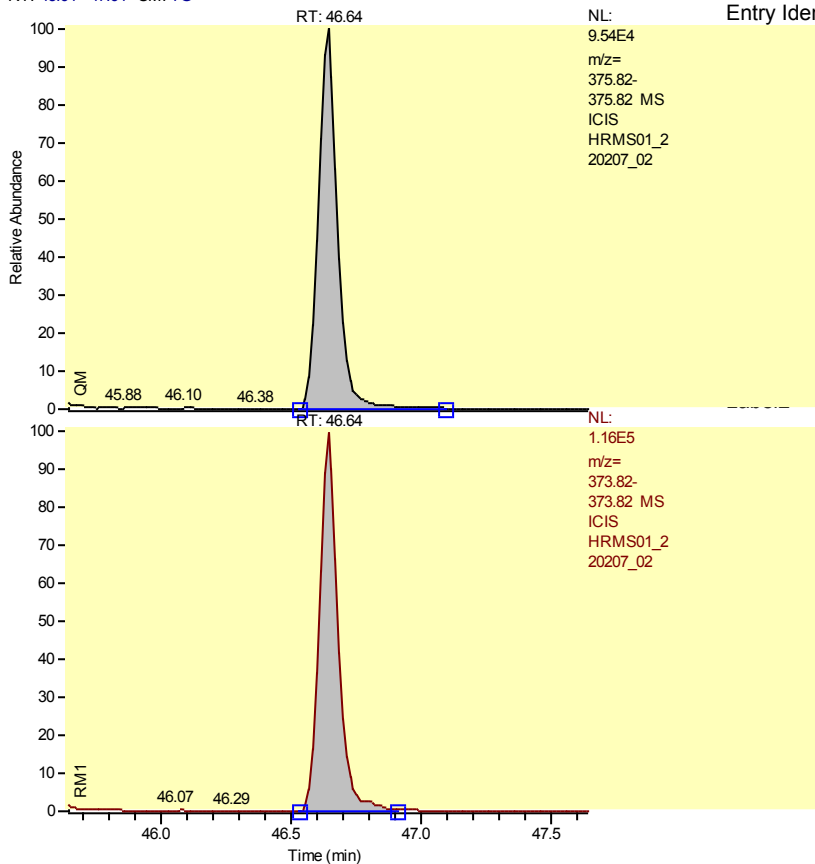
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

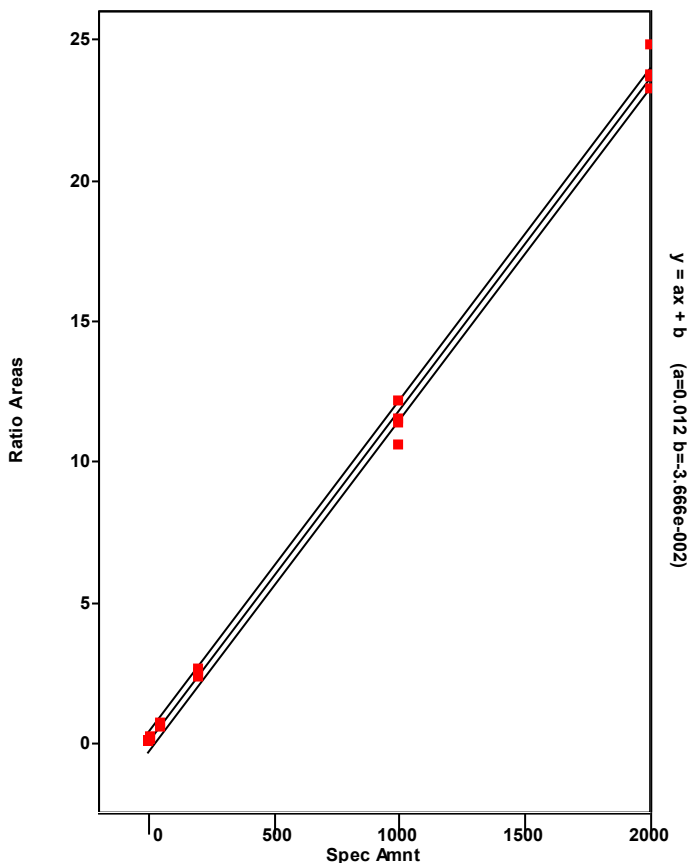


Entry Identifier	Total Hexachlorodibenzofuran__5
d Name	Single native HxCDF
	CAS# 55684-94-1
	490747
	577674
o (A)	1.1771
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	39.73
recovery (A)	79
	0.0000

Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

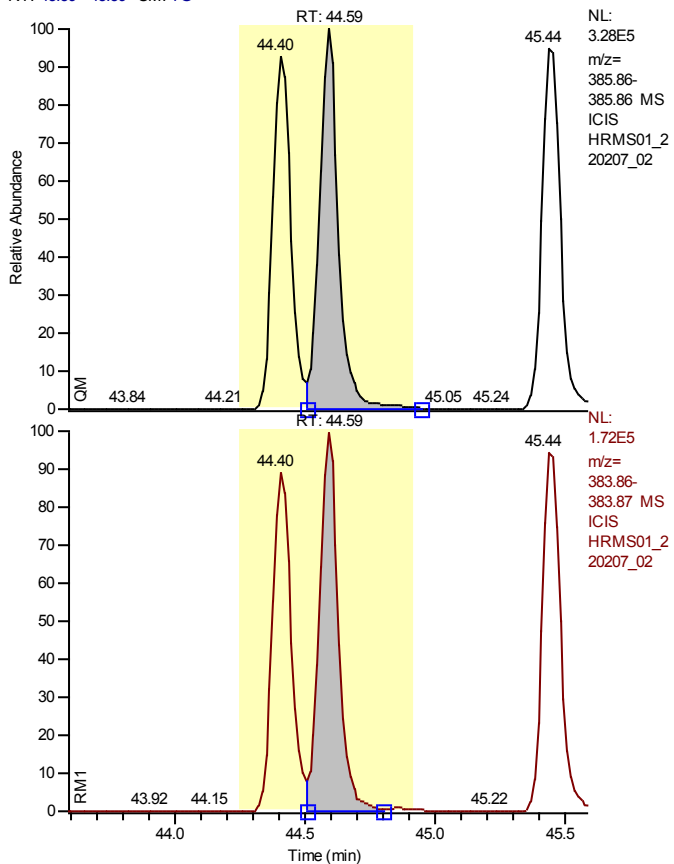
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.59 - 45.59 SM: 7G

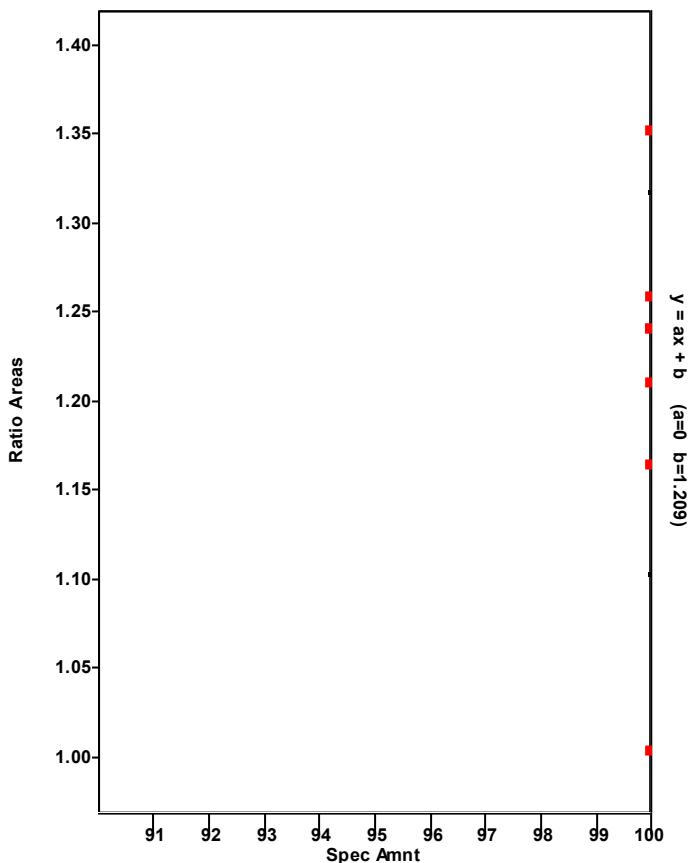


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1666006
RM1 Area	876849
RM1 Ratio (A)	0.5263
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	95.61
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

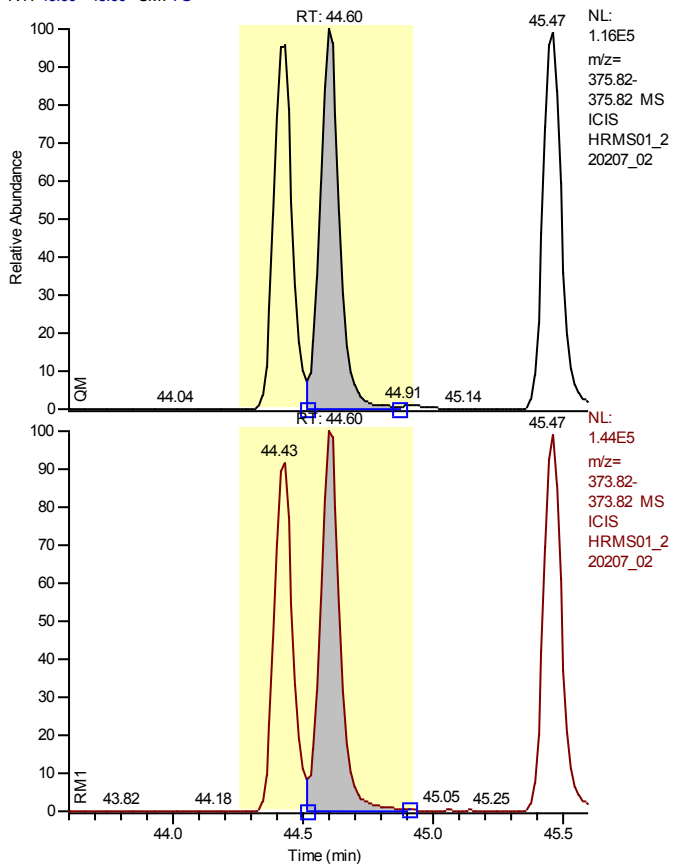
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.60 - 45.60 SM: 7G

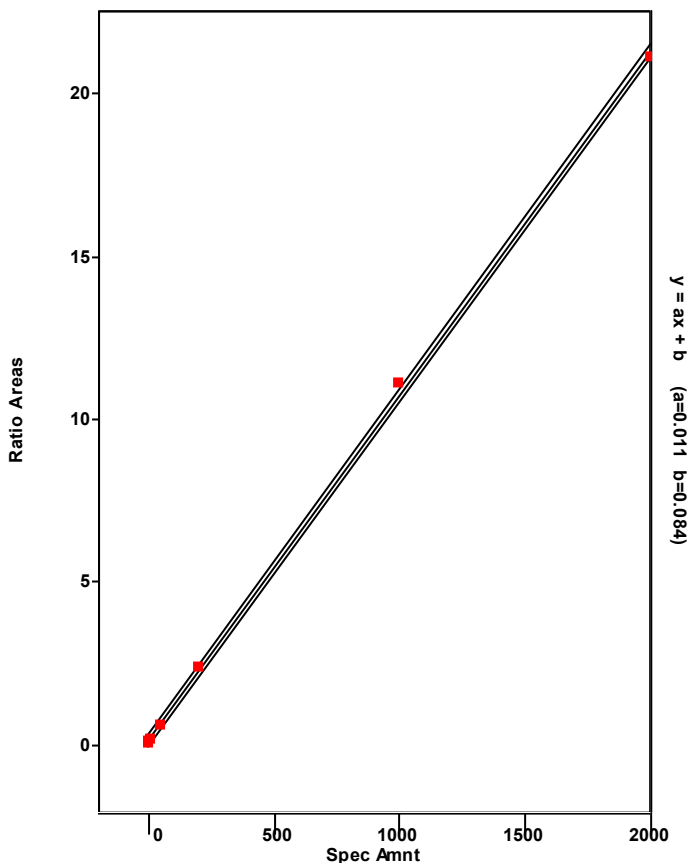


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	600717
RM1 Area	749522
RM1 Ratio (A)	1.2477
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.41
Percent Recovery (A)	93
TEQ (A)	4.6413
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

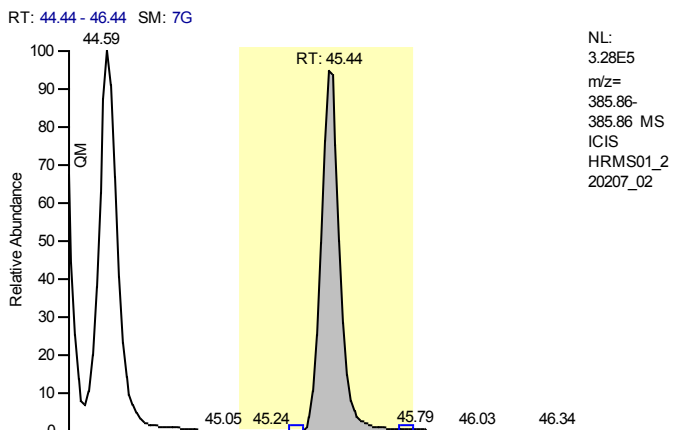
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



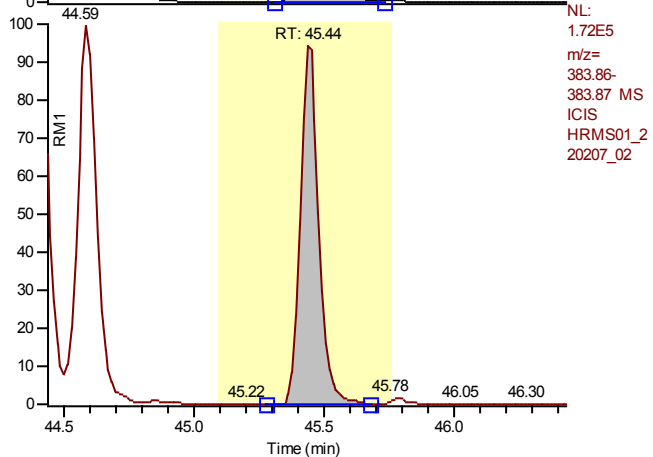
Chromatogram

Entry Parameters



NL:
 3.28E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1559427
RM1 Area	795170
RM1 Ratio (A)	0.5099
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	90.83
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

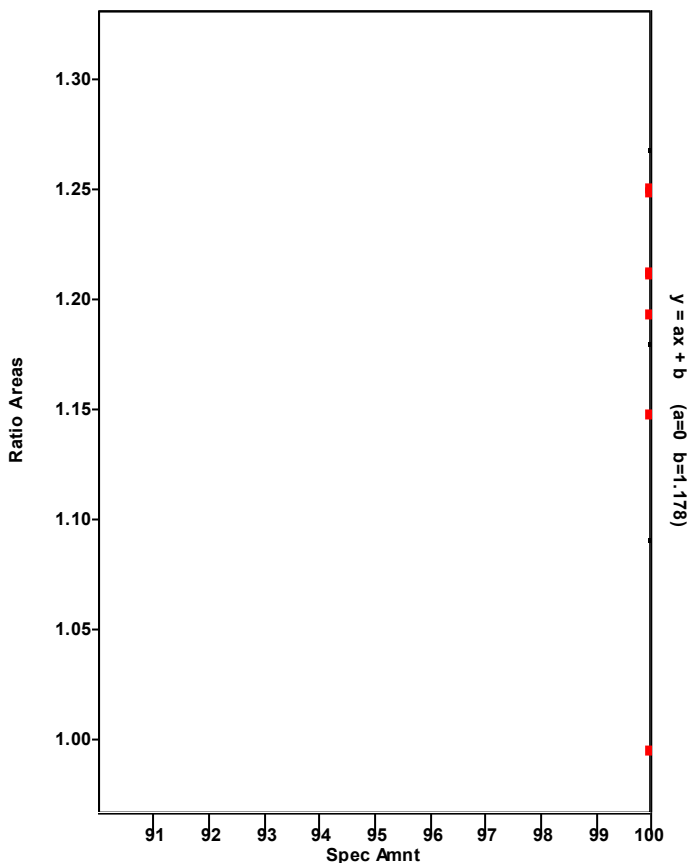


NL:
 1.72E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

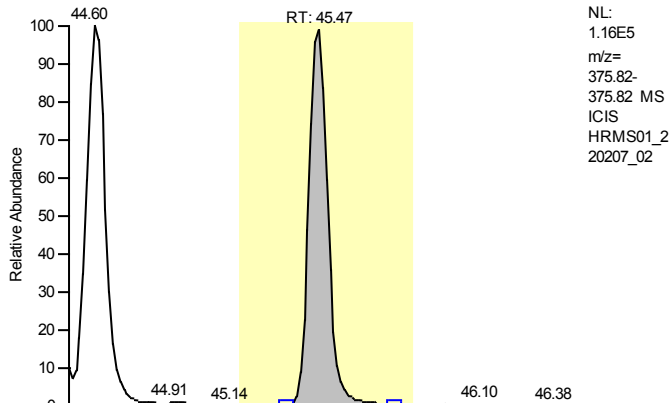
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

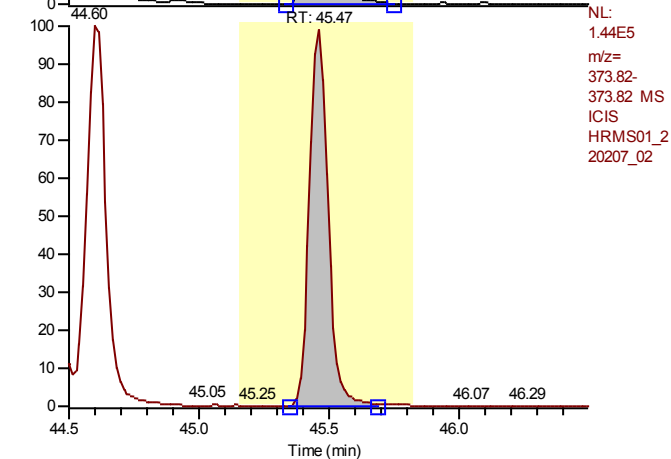
Entry Parameters

RT: 44.50 - 46.50 SM: 7G



NL:
 1.16E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	569990
RM1 Area	697638
RM1 Ratio (A)	1.2239
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.12
Percent Recovery (A)	90
TEQ (A)	4.5115
Label2	

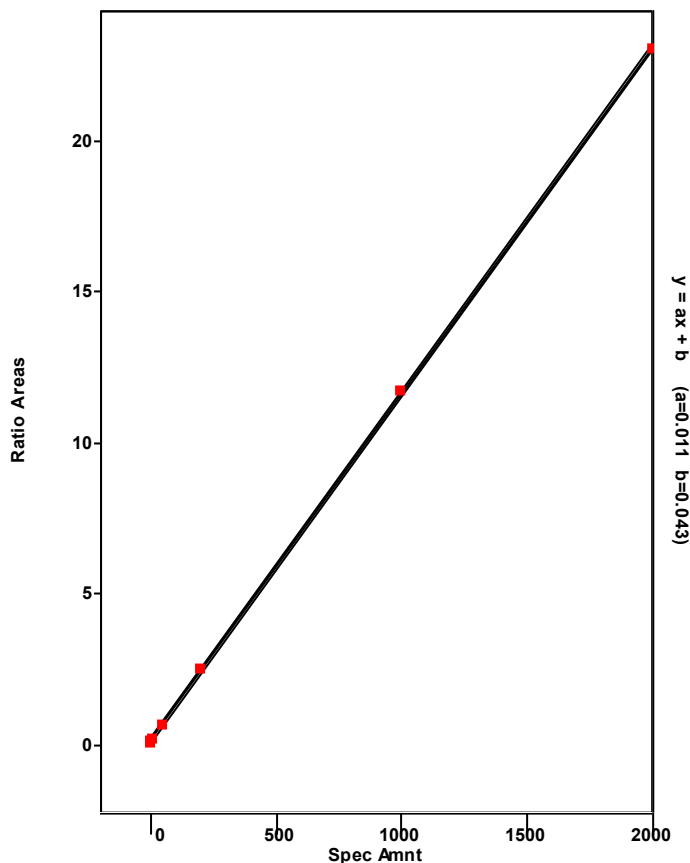


NL:
 1.44E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

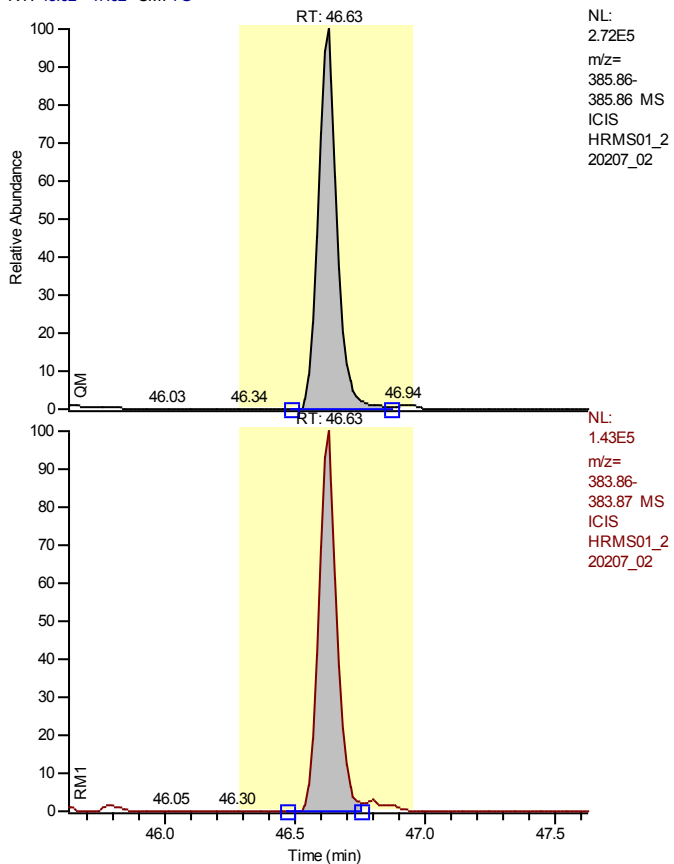
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.62 - 47.62 SM: 7G



NL:
2.72E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_02

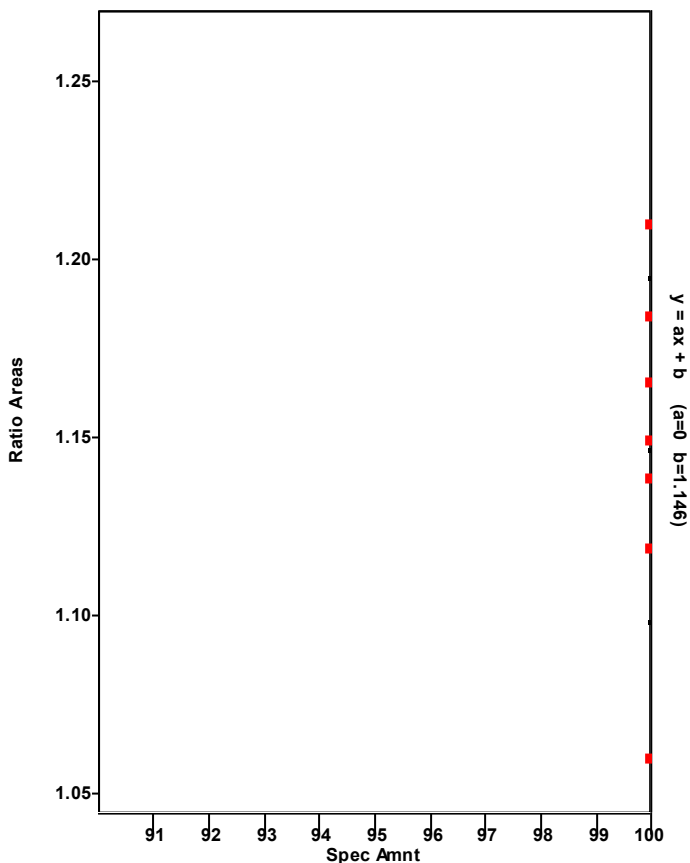
NL:
1.43E5
m/z=
383.86-
383.87 MS
ICIS
HRMS01_2
20207_02

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1370070
RM1 Area	689917
RM1 Ratio (A)	0.5036
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	81.69
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

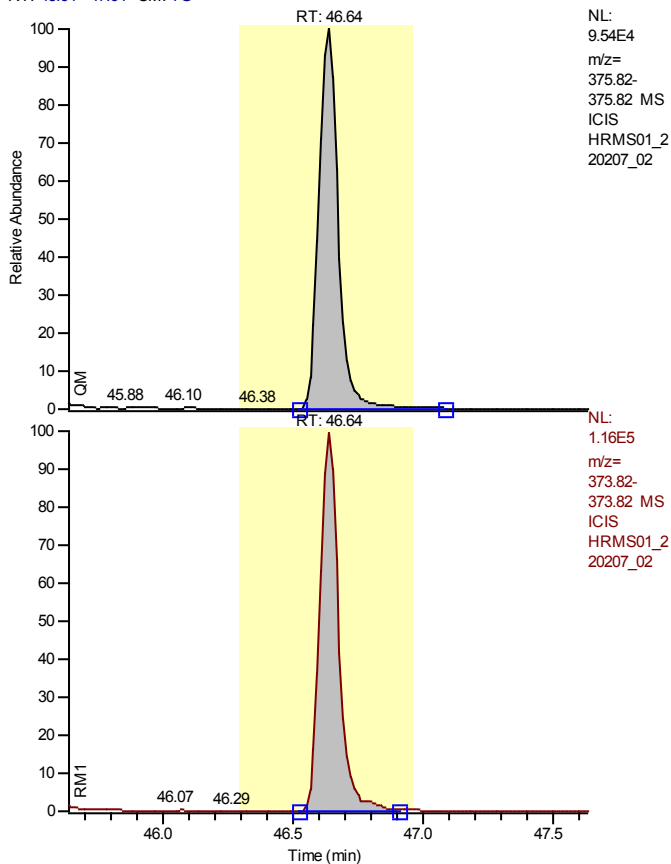
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

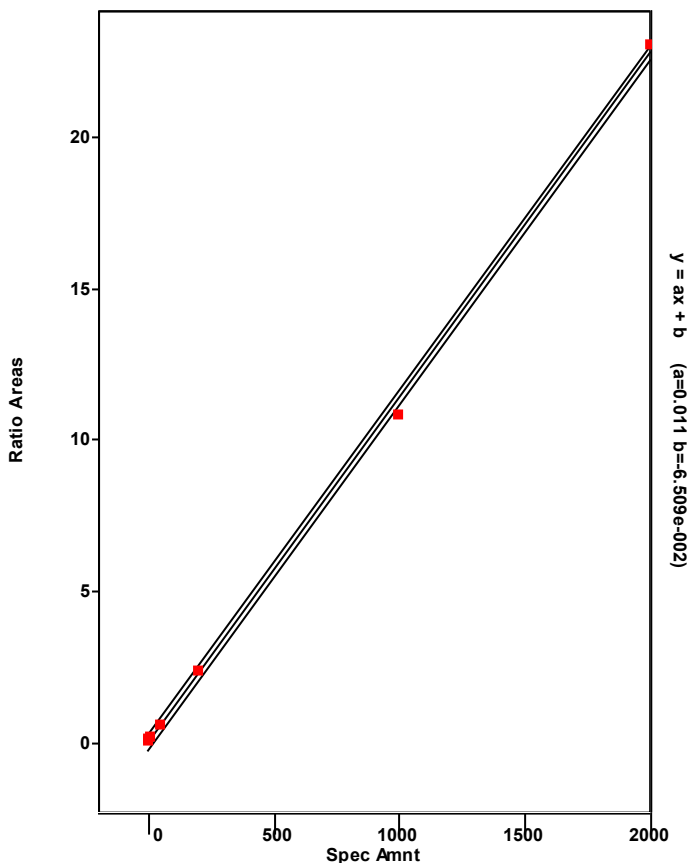


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	490747
RM1 Area	577674
RM1 Ratio (A)	1.1771
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.32
Percent Recovery (A)	93
TEQ (A)	4.6322
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

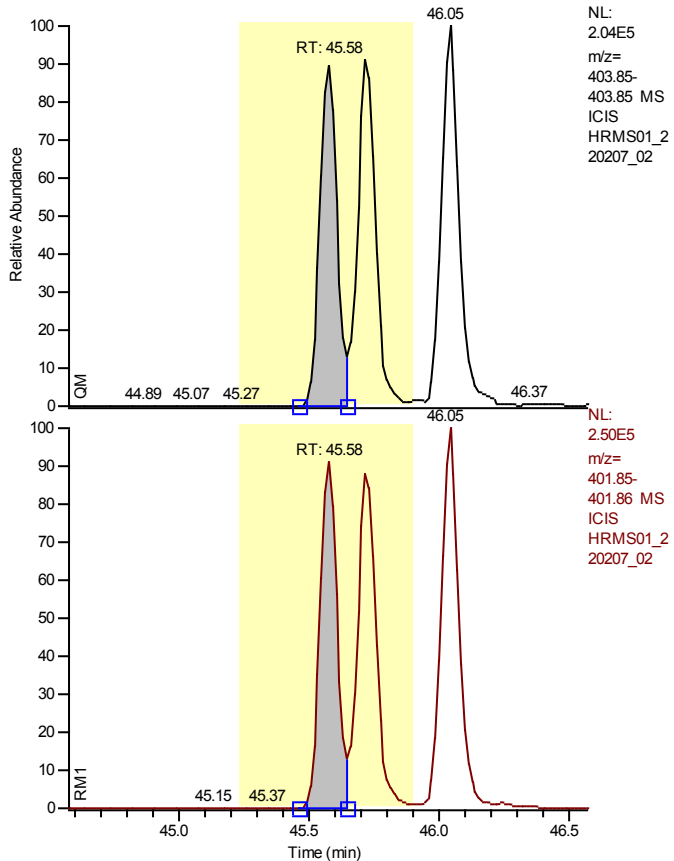
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

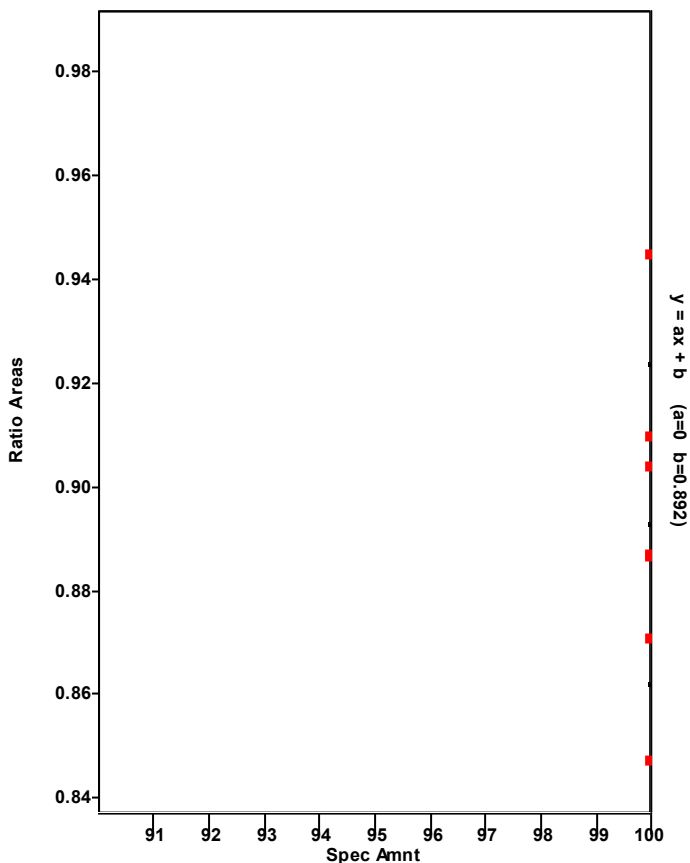
RT: 44.58 - 46.58 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	839107
RM1 Area	1039624
RM1 Ratio (A)	1.2390
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	95.67
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

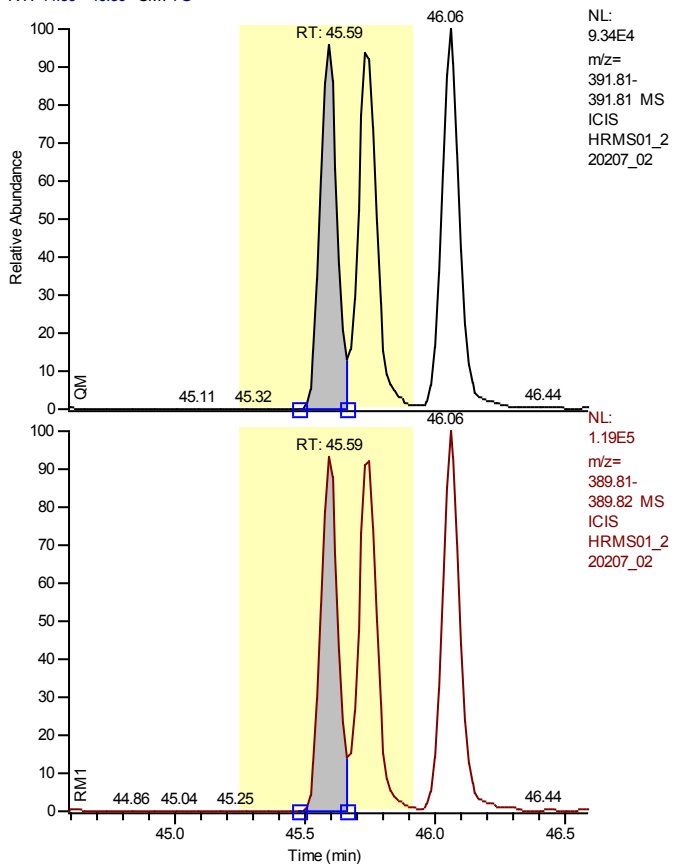
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.59 - 46.59 SM: 7G



NL:
 9.34E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_02

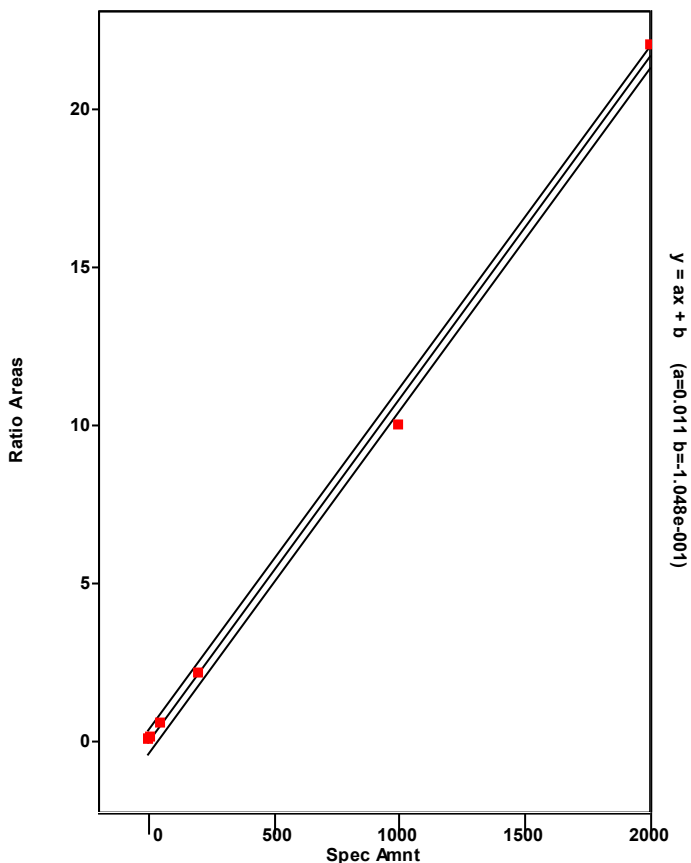
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	408421
RM1 Area	506645
RM1 Ratio (A)	1.2405
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.74
Percent Recovery (A)	93
TEQ (A)	4.6744
Label2	

NL:
 1.19E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

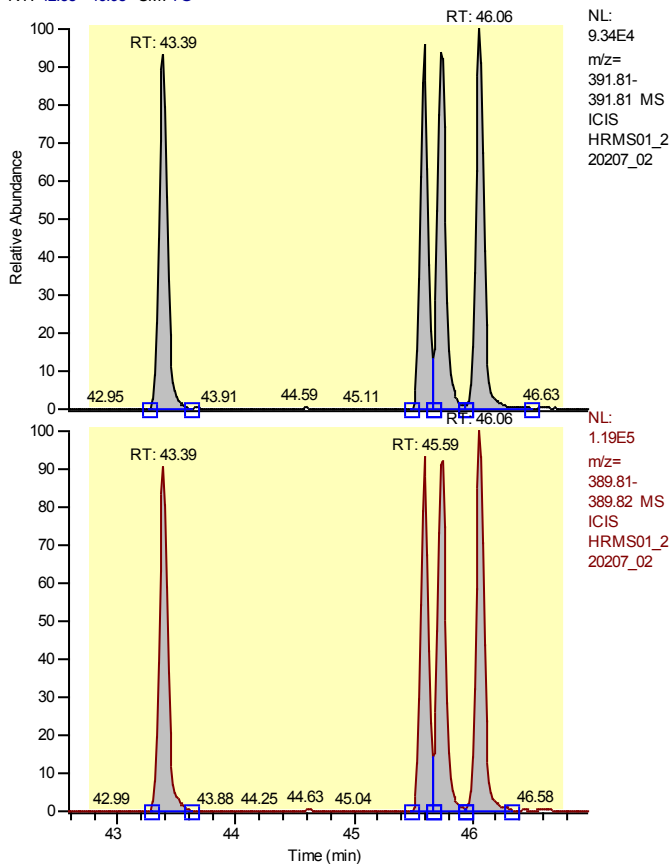
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.58 - 46.98 SM: 7G

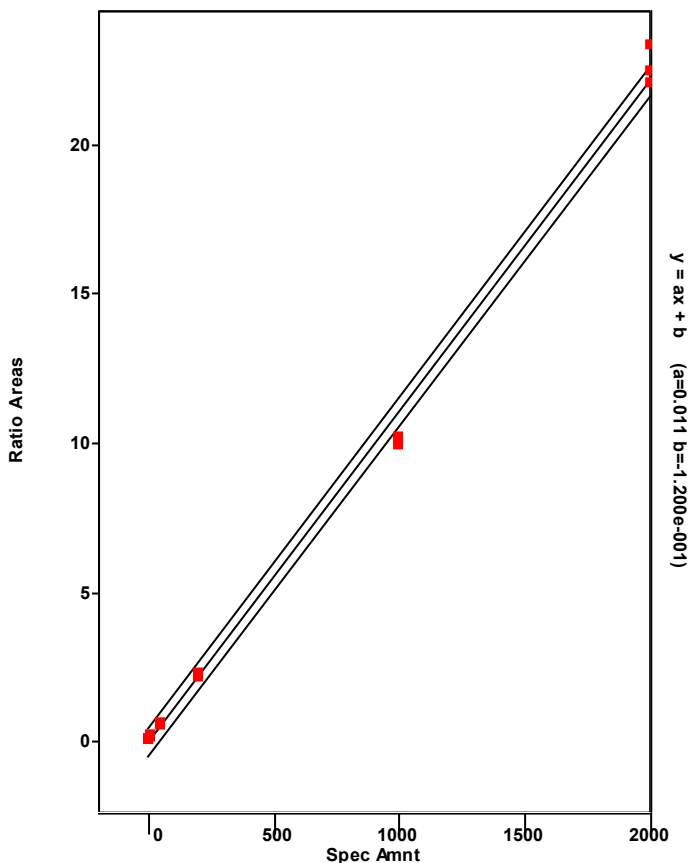


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	1757820
RM1 Area	2180944
RM1 Ratio (A)	1.2407
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	192.57
Percent Recovery (A)	385
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

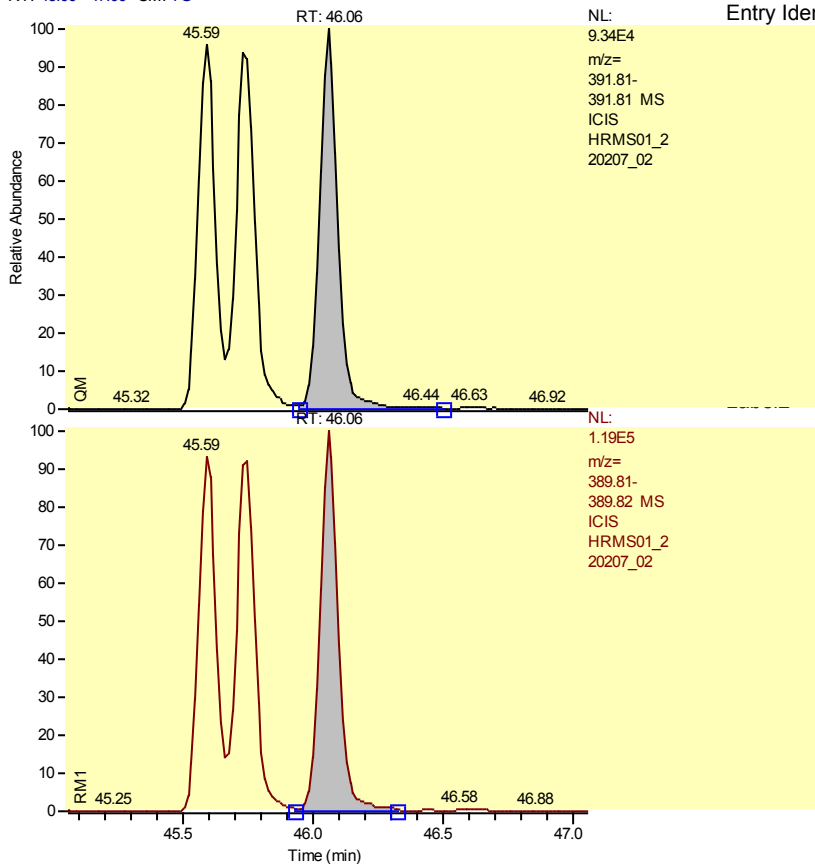
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.06 - 47.06 SM: 7G

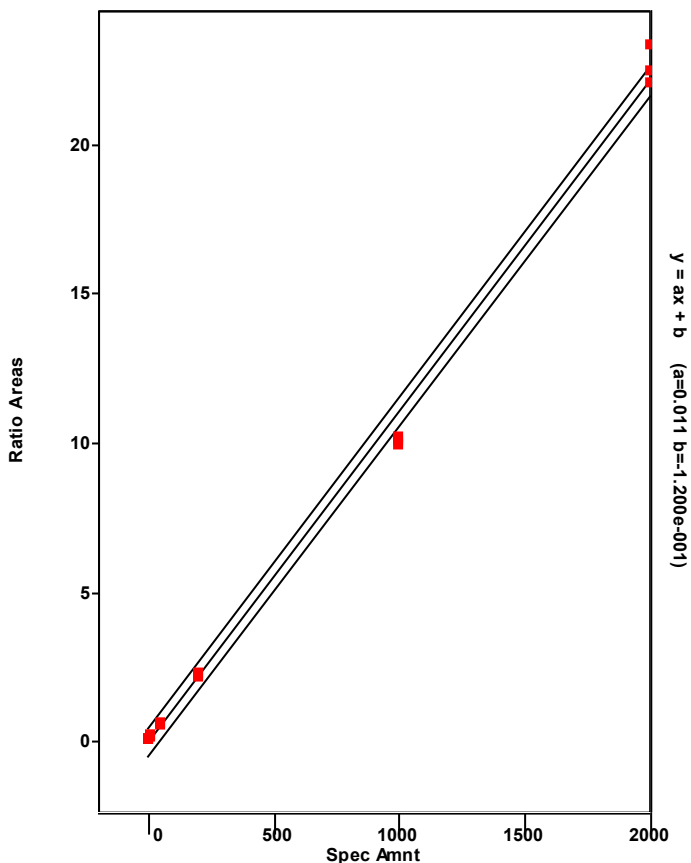


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
d Name	Single native HxCDD
	CAS# 34465-46-8
	457597
	572264
o (A)	1.2506
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	50.35
recovery (A)	101
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

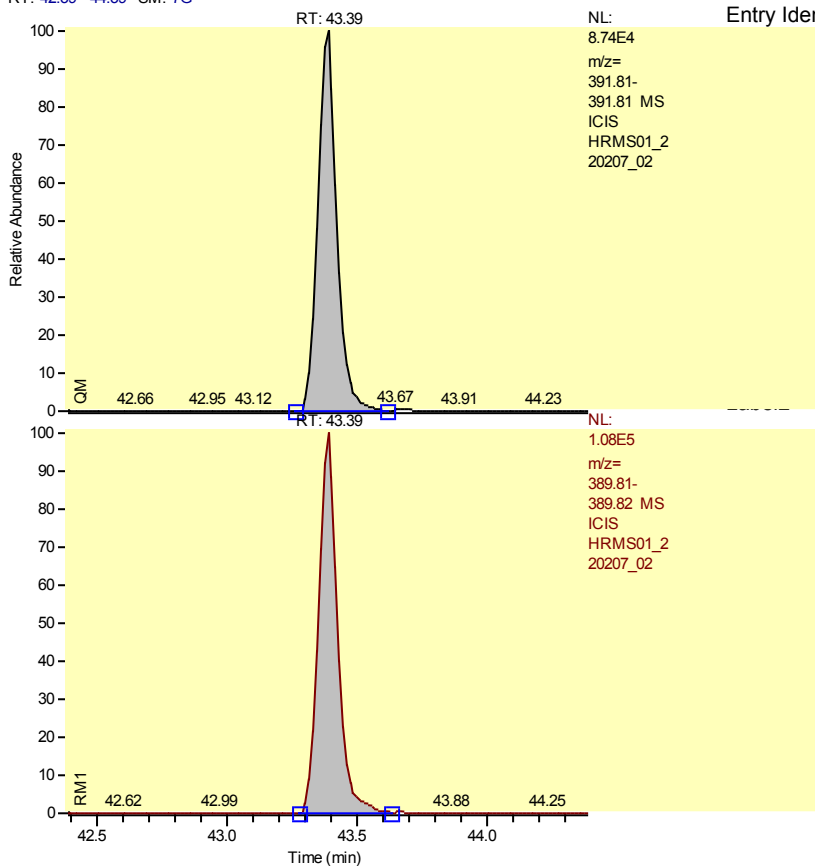
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 42.39 - 44.39 SM: 7G

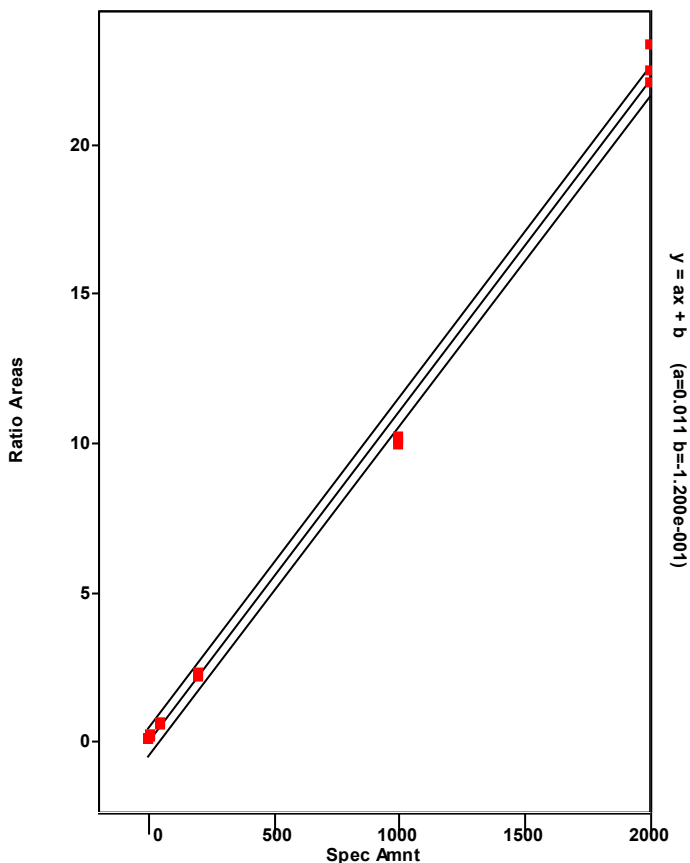


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
d Name	Single native HxCDD
	CAS# 34465-46-8
	442902
	549345
o (A)	1.2403
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	48.51
recovery (A)	97
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

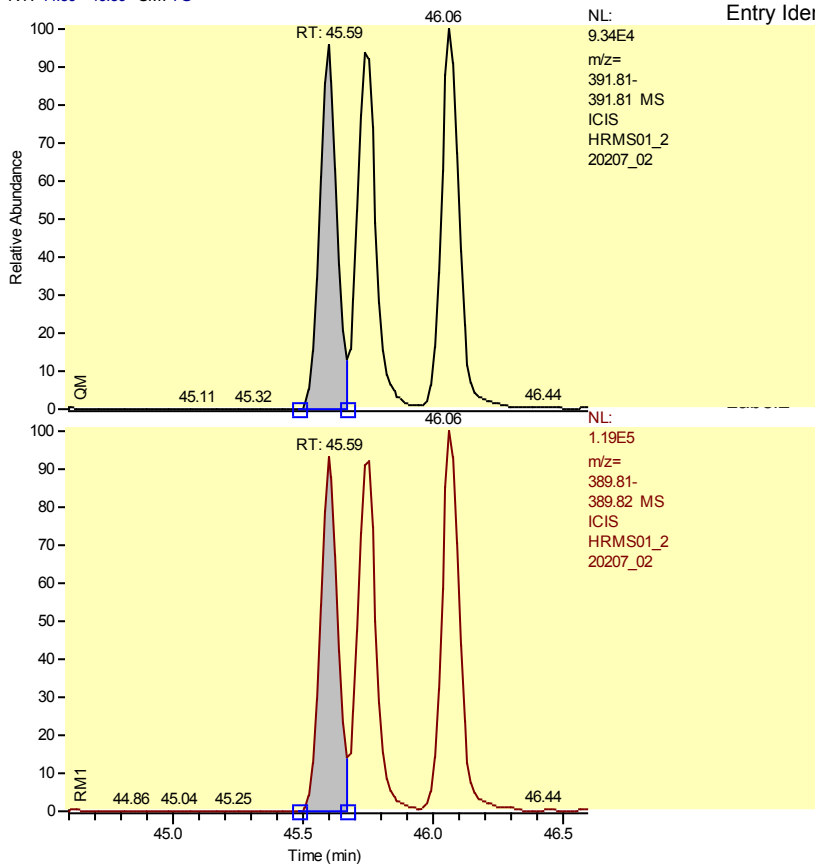
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.59 - 46.59 SM: 7G

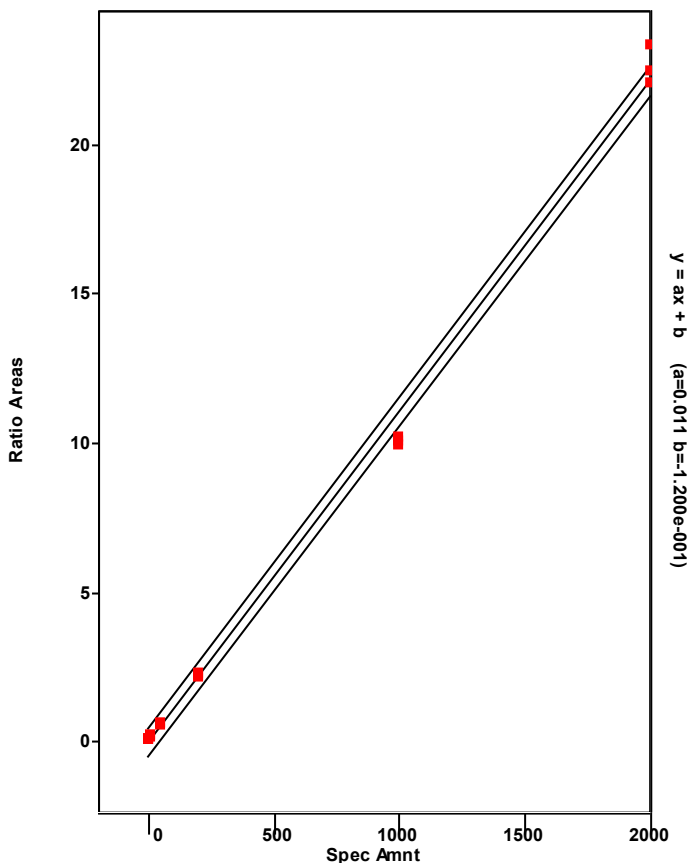


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
d Name	Single native HxCDD
	CAS# 34465-46-8
	408421
	506645
o (A)	1.2405
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	44.74
recovery (A)	89
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

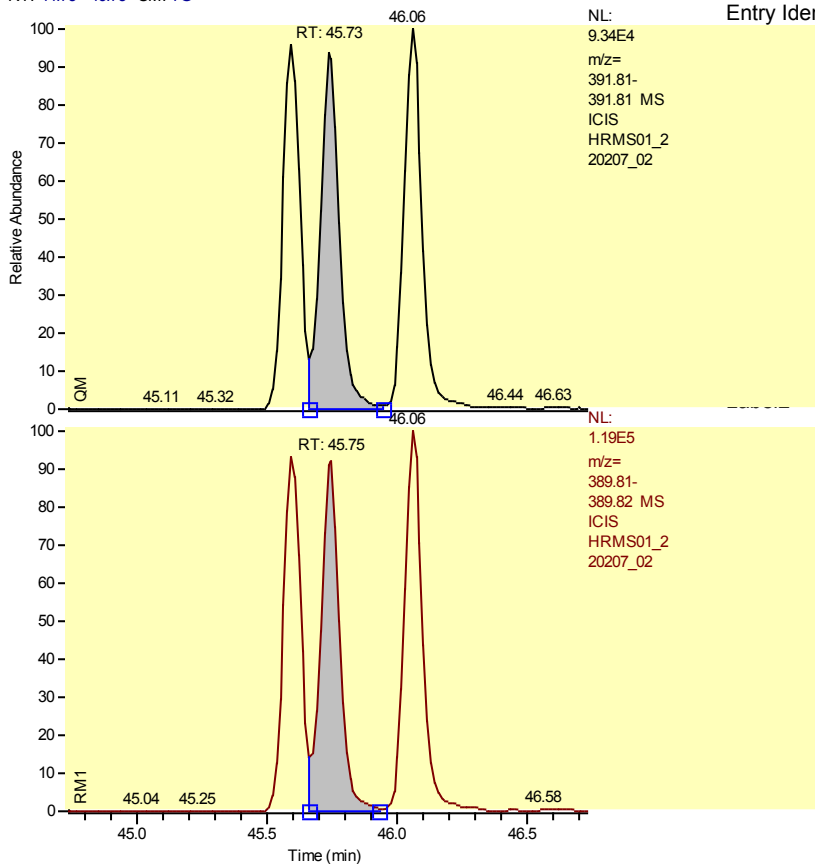
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.73 - 46.73 SM: 7G

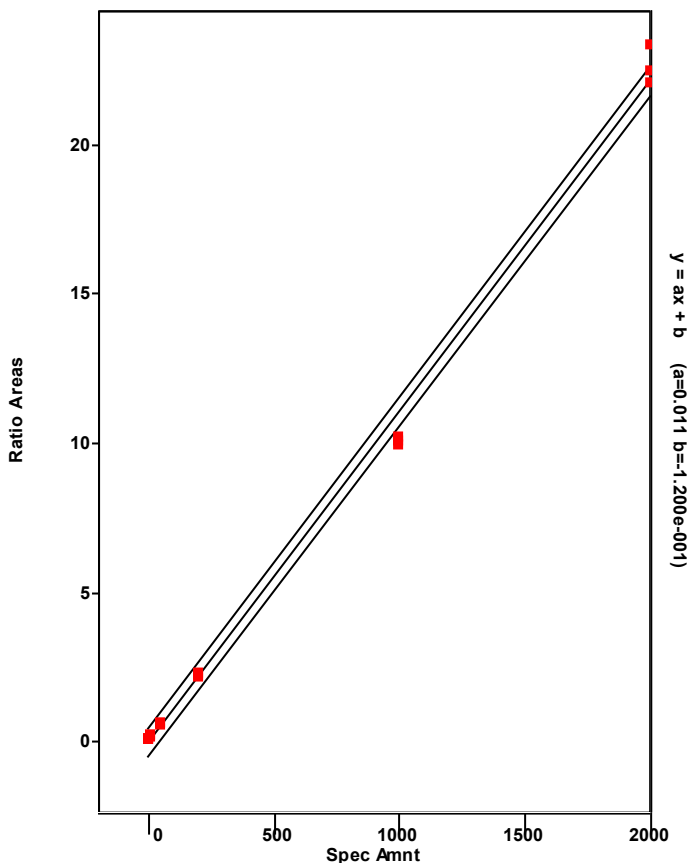


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
d Name	Single native HxCDD
	CAS# 34465-46-8
	448900
	552690
o (A)	1.2312
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	48.97
recovery (A)	98
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

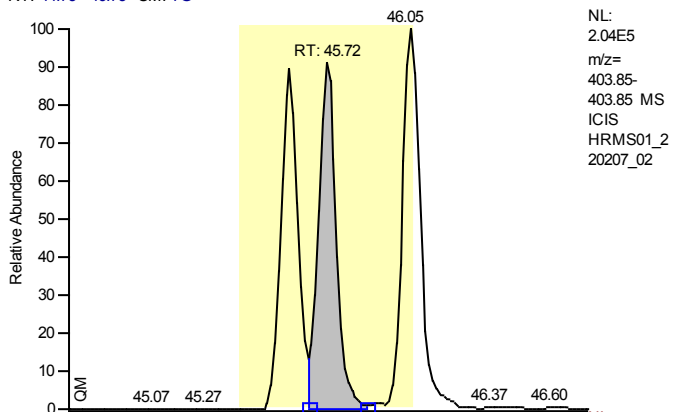
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

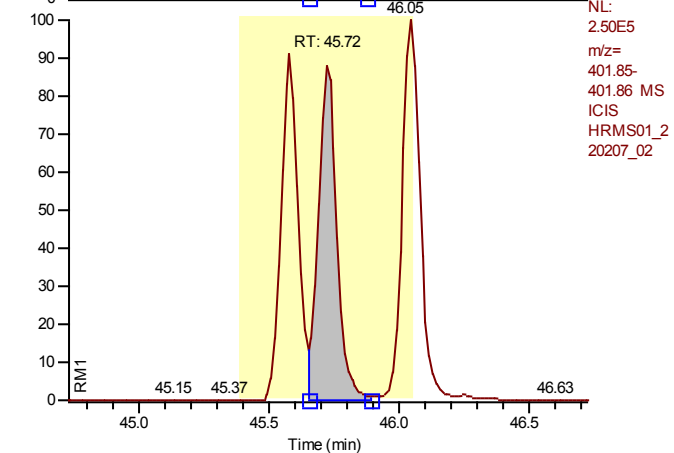
Entry Parameters

RT: 44.73 - 46.73 SM: 7G



NL:
2.04E5
m/z=
403.85-
403.85 MS
ICIS
HRMS01_2
20207_02

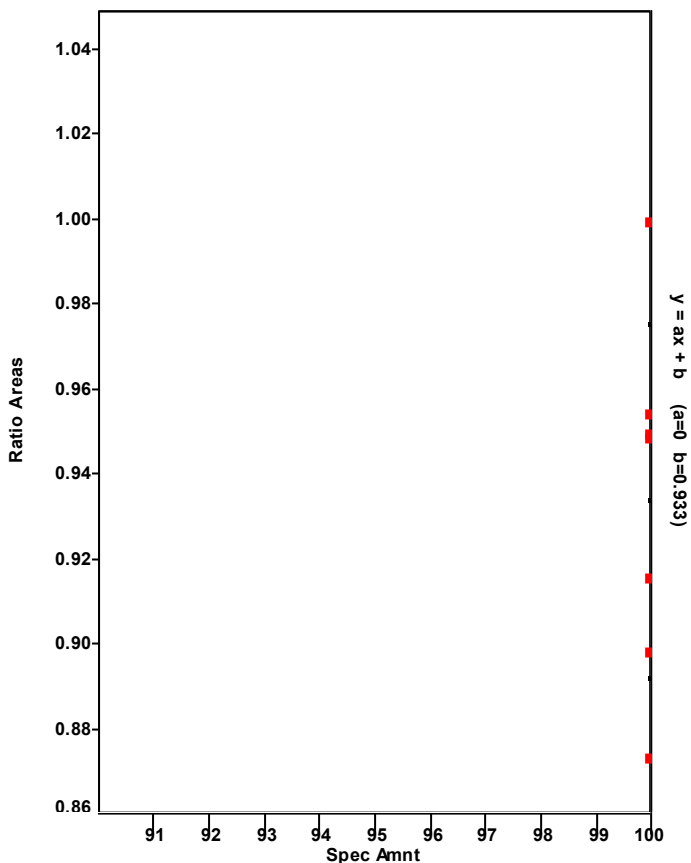
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	893601
RM1 Area	1105130
RM1 Ratio (A)	1.2367
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	97.31
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	



NL:
2.50E5
m/z=
401.85-
401.86 MS
ICIS
HRMS01_2
20207_02

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

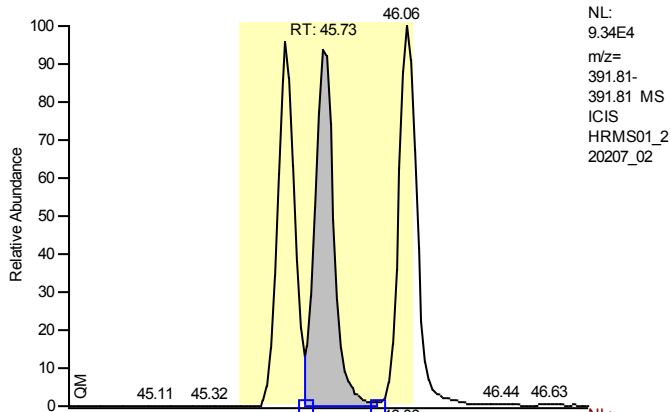
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

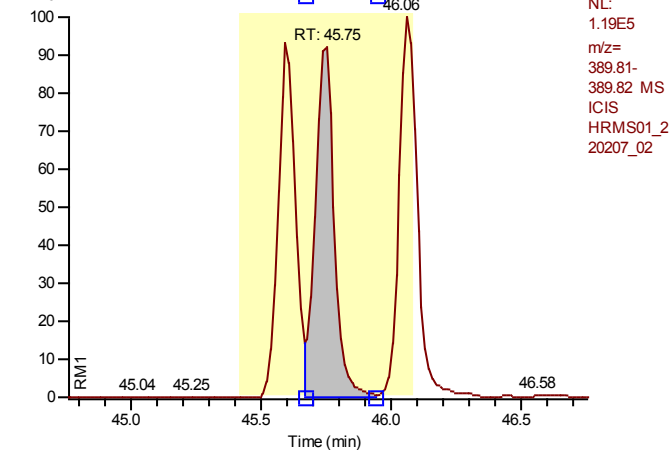
Entry Parameters

RT: 44.75 - 46.75 SM: 7G



NL:
 9.34E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	448900
RM1 Area	552690
RM1 Ratio (A)	1.2312
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.17
Percent Recovery (A)	94
TEQ (A)	4.7174
Label2	

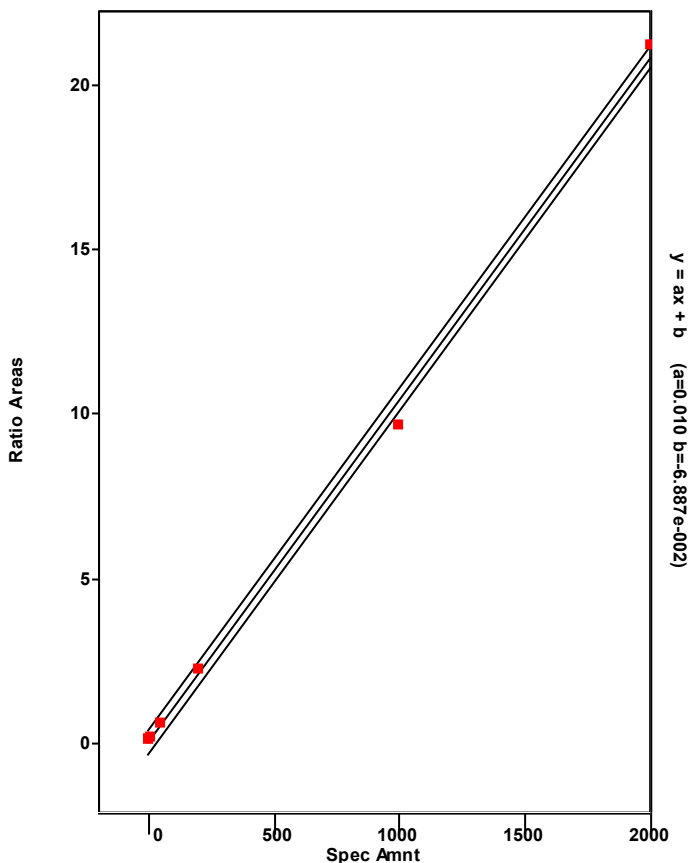


NL:
 1.19E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

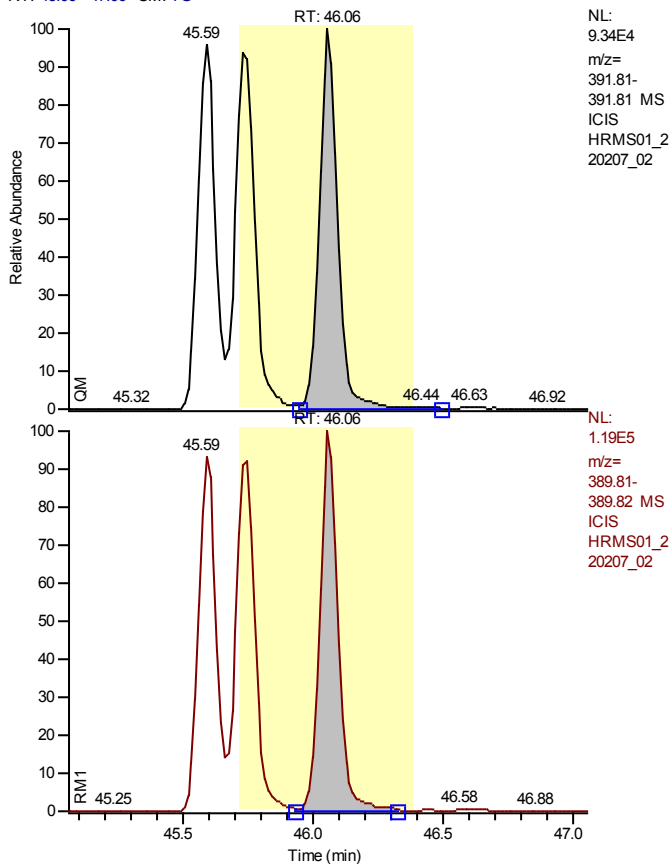
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

RT: 45.06 - 47.06 SM: 7G



NL:
 9.34E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_02

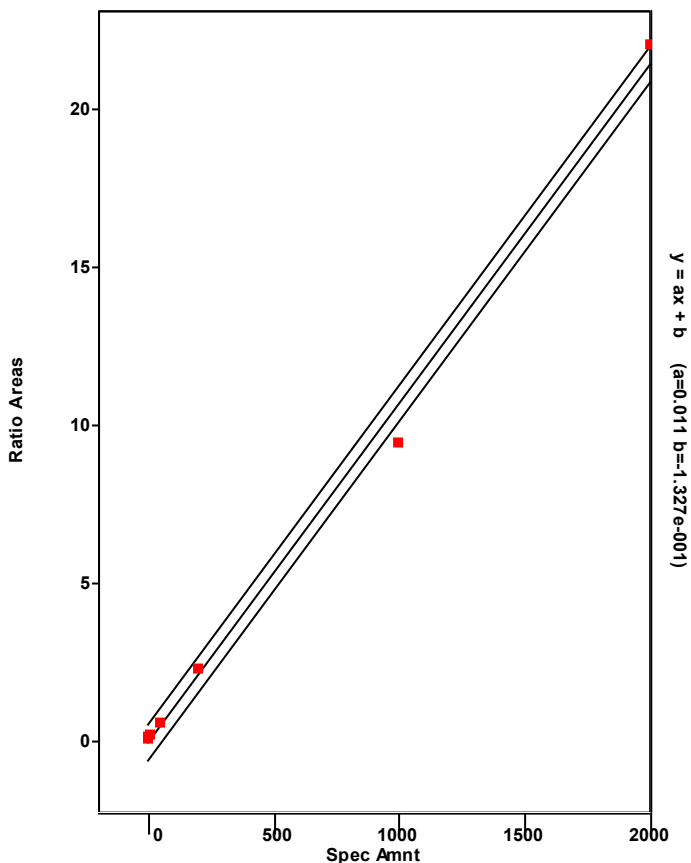
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	457597
RM1 Area	572264
RM1 Ratio (A)	1.2506
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.43
Percent Recovery (A)	97
TEQ (A)	4.8429
Label2	

NL:
 1.19E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_02

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

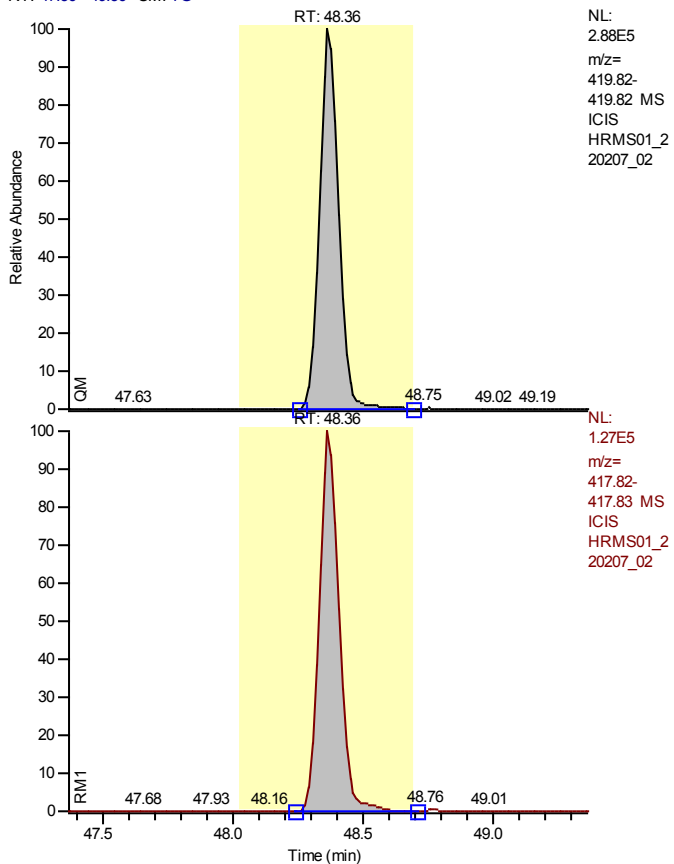
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

Entry Parameters

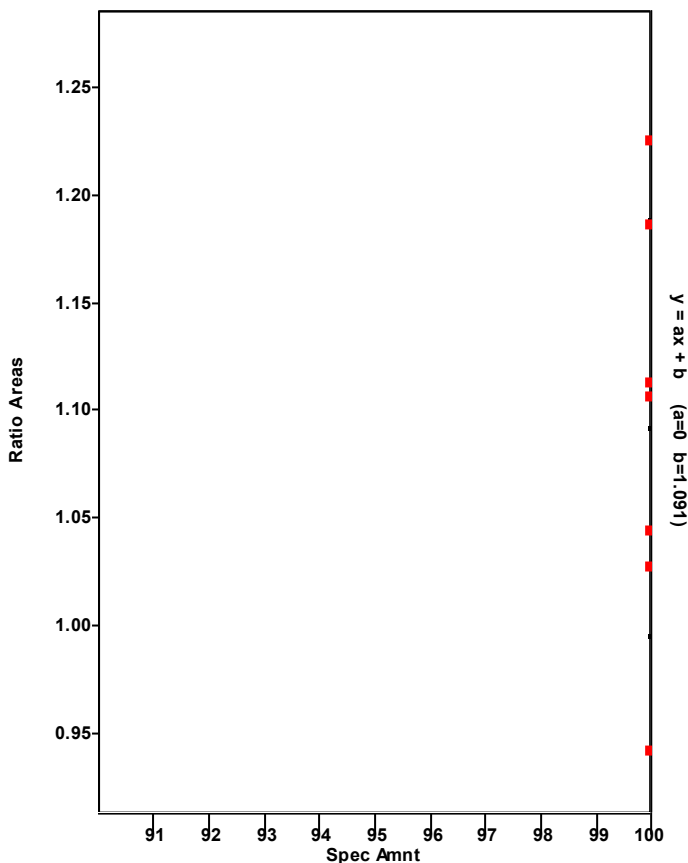
RT: 47.36 - 49.36 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1487043
RM1 Area	677898
RM1 Ratio (A)	0.4559
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	90.20
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

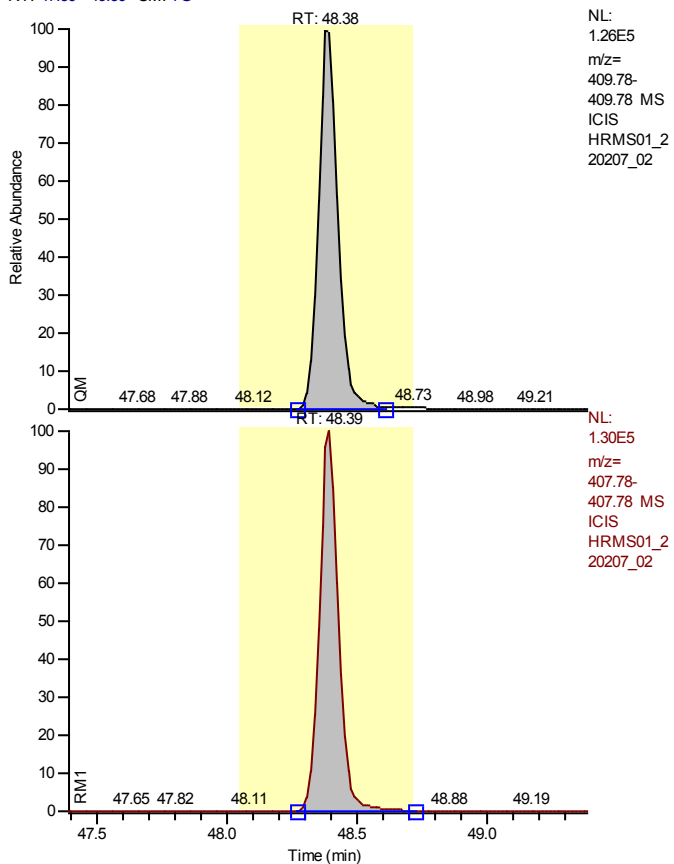
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.39 - 49.39 SM: 7G



NL:
 1.26E5
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_02

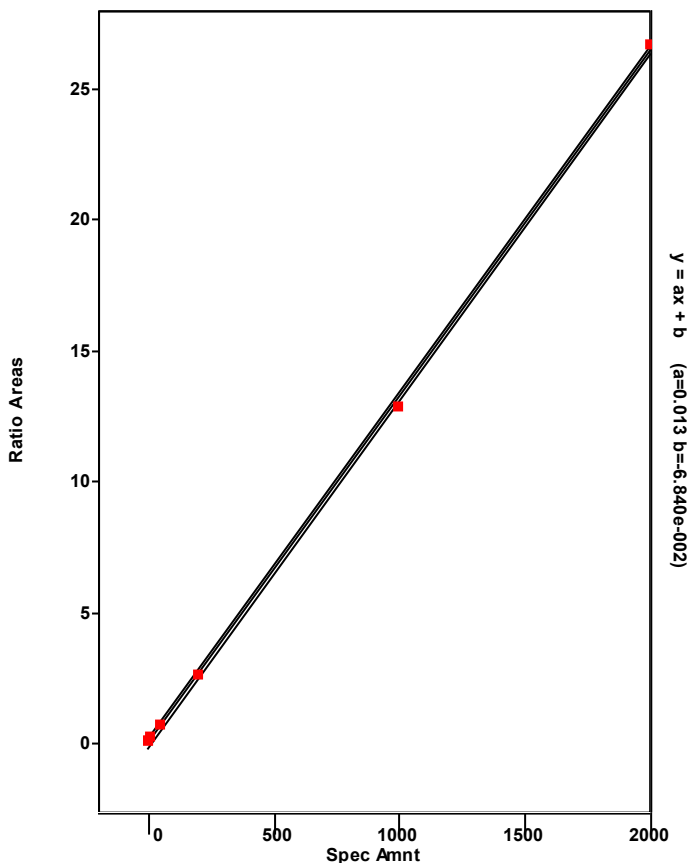
NL:
 1.30E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	655523
RM1 Area	663367
RM1 Ratio (A)	1.0120
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	47.36
Percent Recovery (A)	95
TEQ (A)	0.4736
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

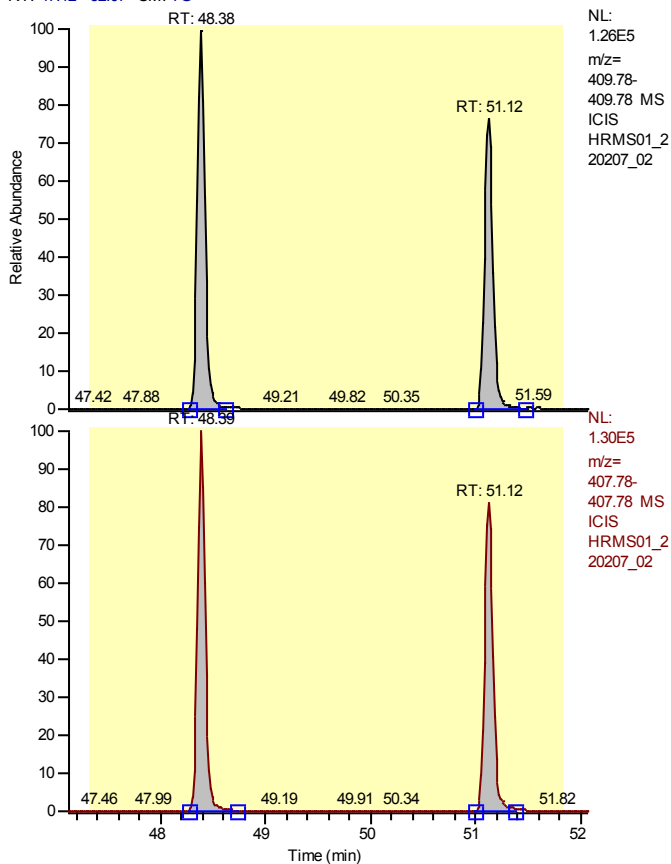
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

RT: 47.12 - 52.07 SM: 7G

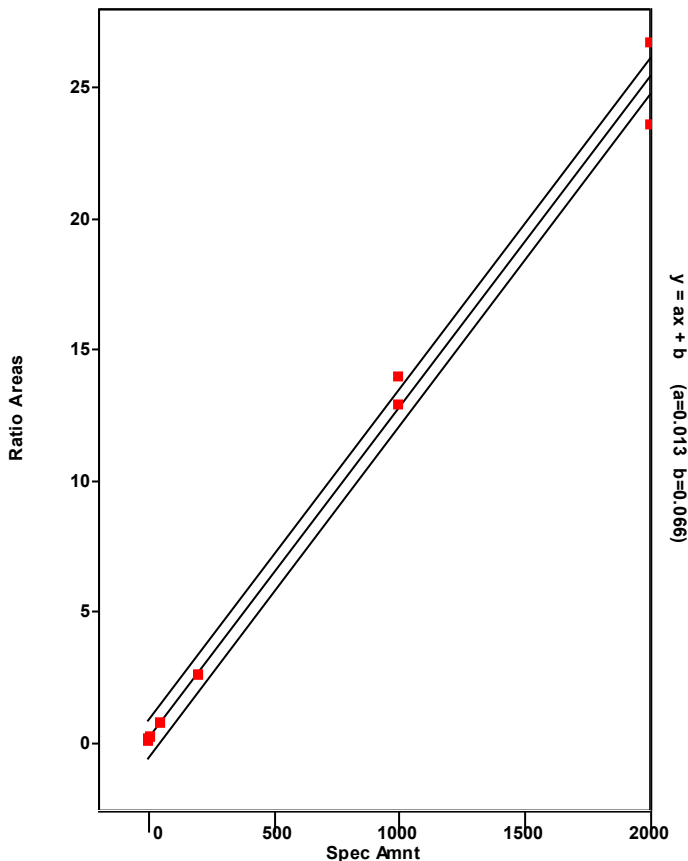


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1202501
RM1 Area	1256105
RM1 Ratio (A)	1.0446
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	90.75
Percent Recovery (A)	182
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

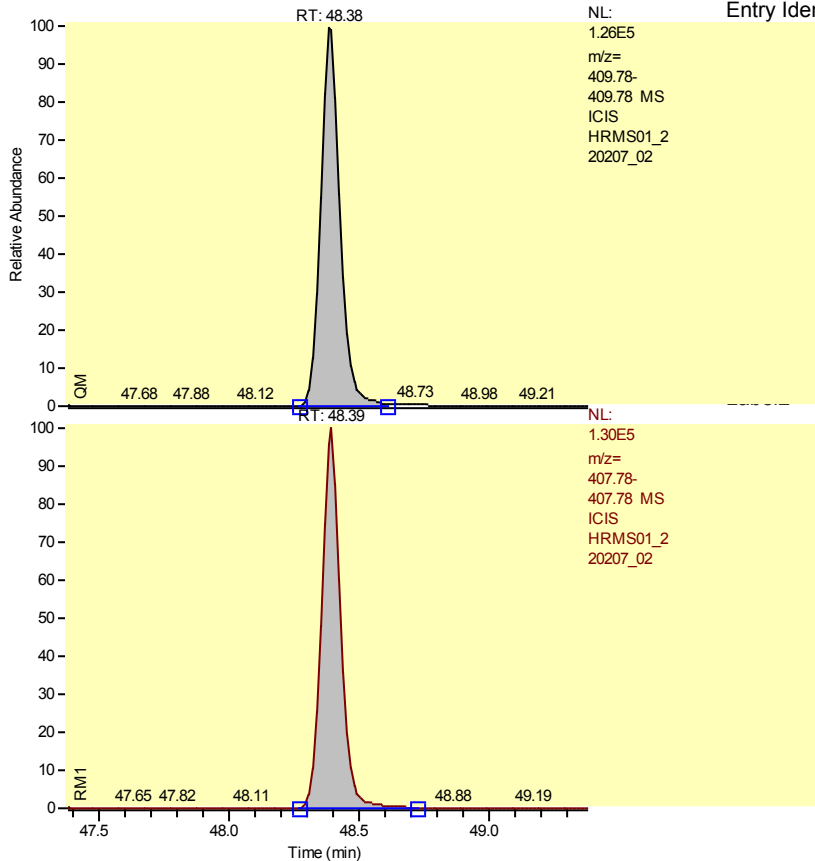
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.38 - 49.38 SM: 7G



NL:
1.26E5
m/z=
409.78-
409.78 MS
ICIS
HRMS01_2
20207_02

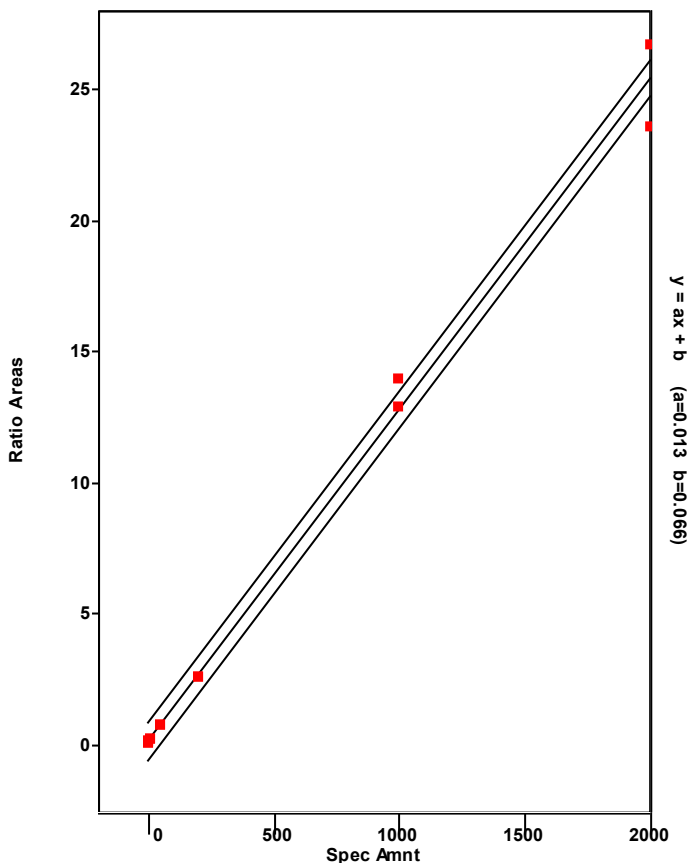
Entry Identifier
d Name
o (A)
nit
Amount
d Amount (A)
recovery (A)

Total Heptachlorodibenzofuran__1
Single native HpCDF
CAS# 38998-75-3
655523
663367
1.0120
0.8800 - 1.2000
50.00
48.68
97
0.0000

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

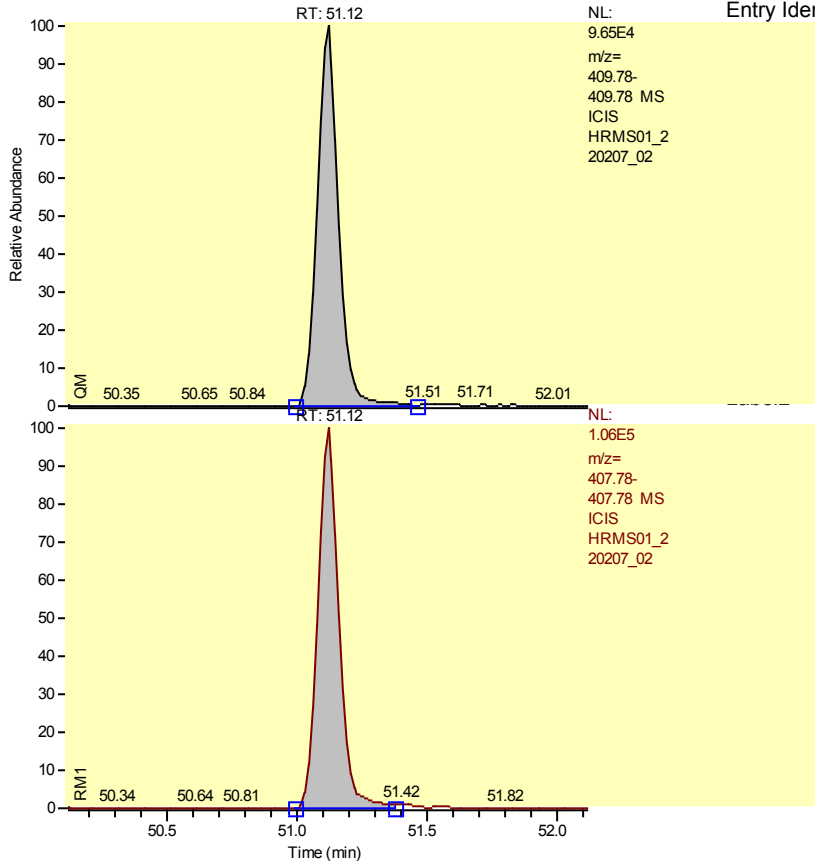
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.12- 52.12 SM: 7G

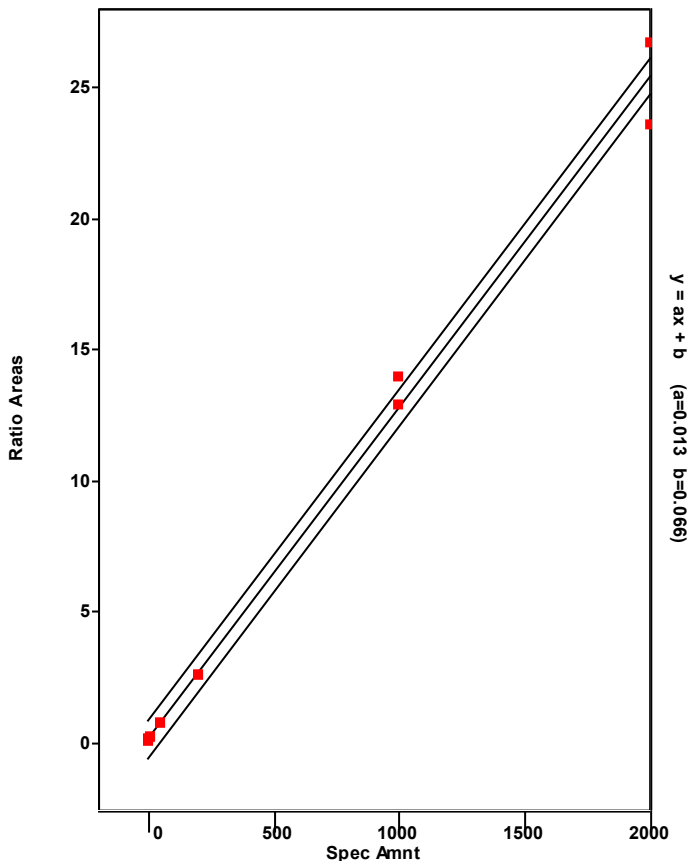


Entry Identifier	Total Heptachlorodibenzofuran__2
d Name	Single native HpCDF
	CAS# 38998-75-3
	546978
	592738
o (A)	1.0837
nit	0.8800 - 1.2000
Amount	50.00
d Amount (A)	42.07
recovery (A)	84
	0.0000

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

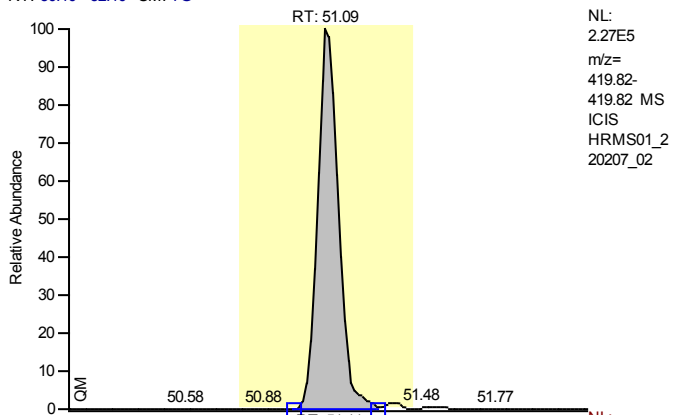
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



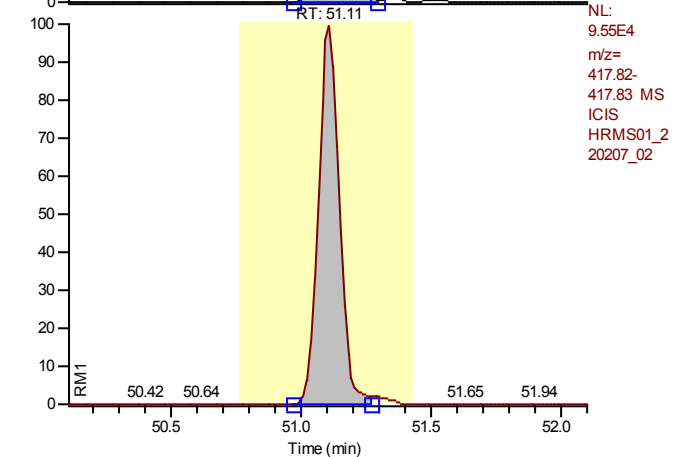
Chromatogram

Entry Parameters

RT: 50.10 - 52.10 SM: 7G

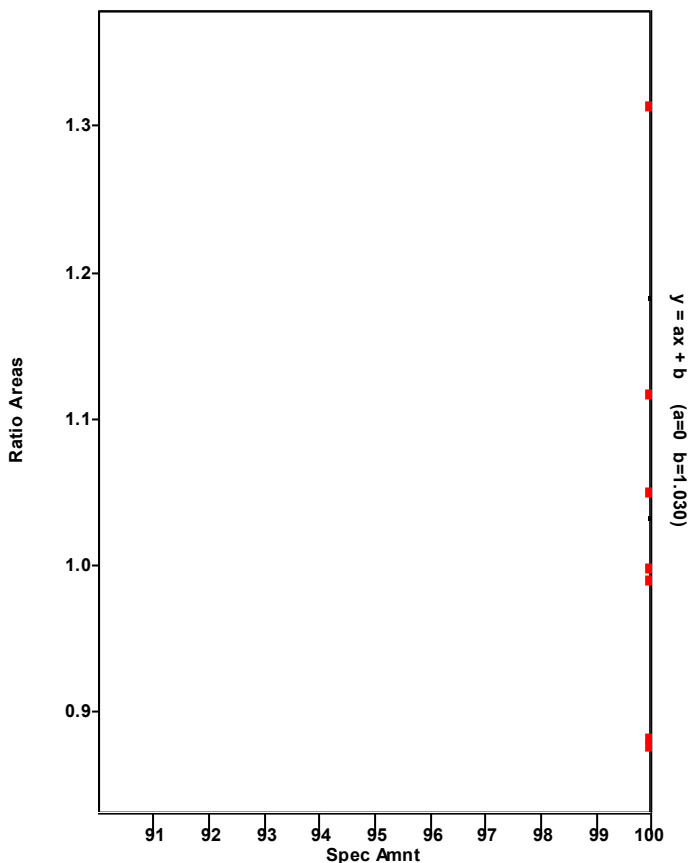


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1280899
RM1 Area	535206
RM1 Ratio (A)	0.4178
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	80.11
Percent Recovery (A)	80
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

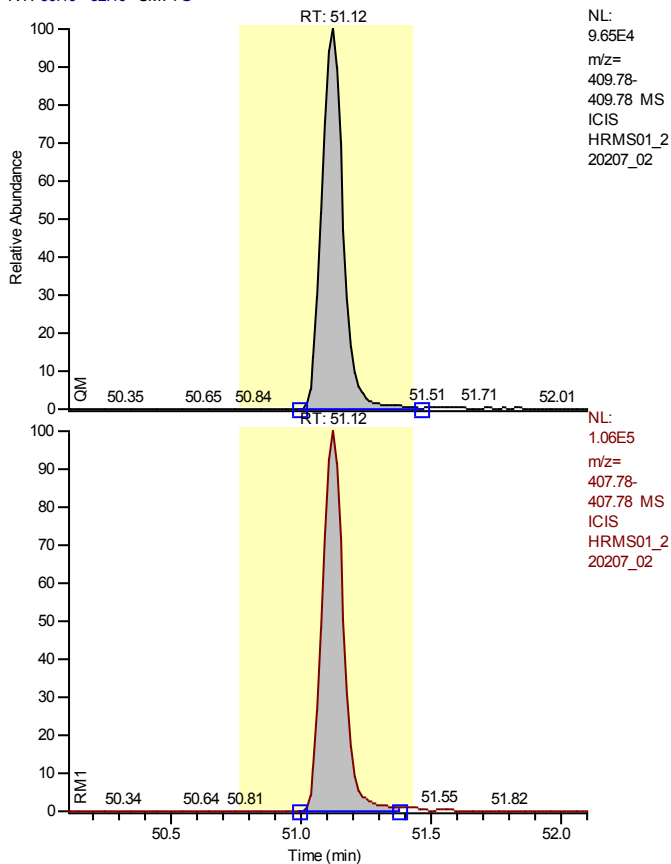
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.10 - 52.10 SM: 7G



NL:
 9.65E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_02

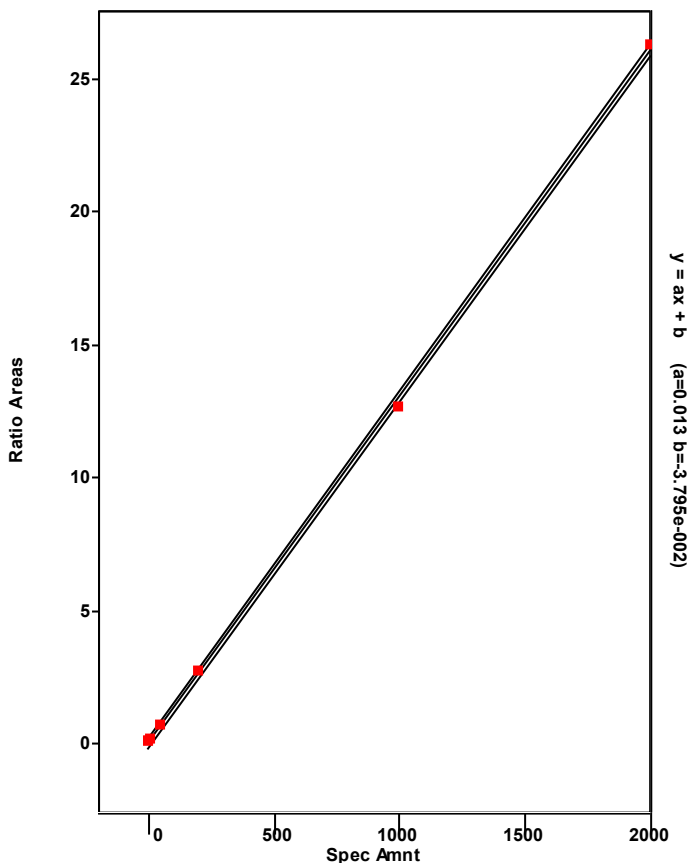
NL:
 1.06E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_02

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	546978
RM1 Area	592738
RM1 Ratio (A)	1.0837
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.65
Percent Recovery (A)	97
TEQ (A)	0.4865
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

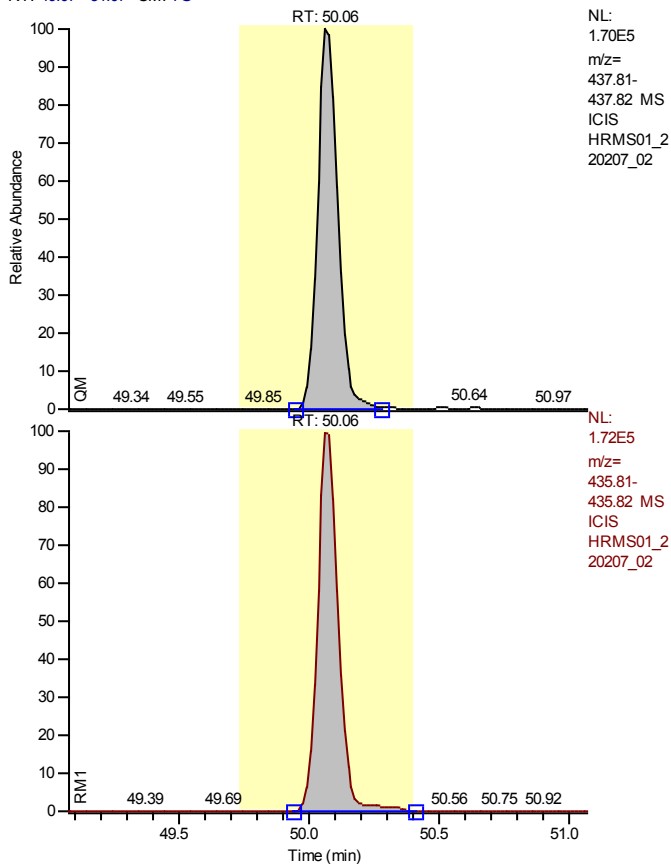
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



Chromatogram

Entry Parameters

RT: 49.07 - 51.07 SM: 7G



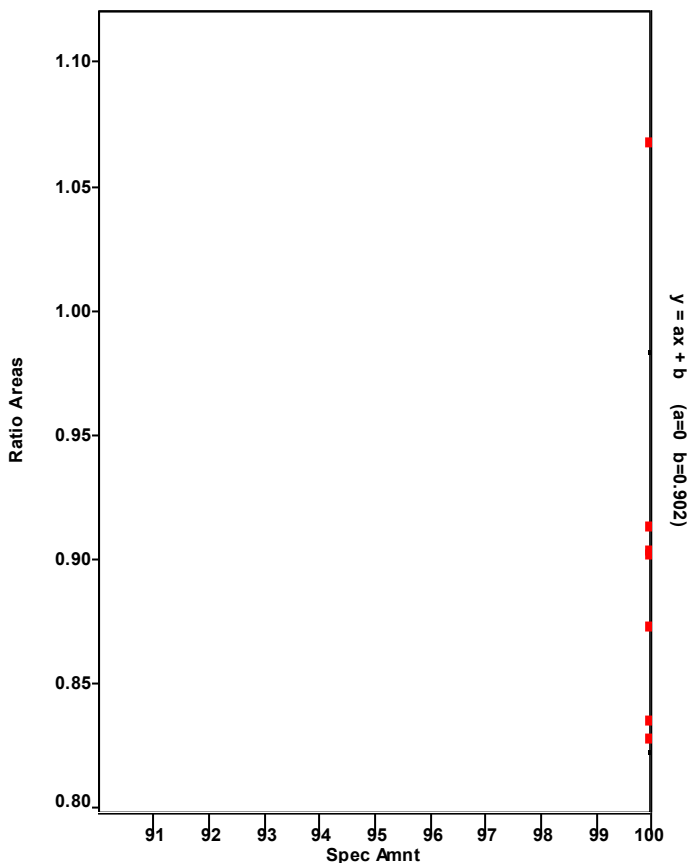
NL:
1.70E5
m/z=
437.81-
437.82 MS
ICIS
HRMS01_2
20207_02

NL:
1.72E5
m/z=
435.81-
435.82 MS
ICIS
HRMS01_2
20207_02

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	915367
RM1 Area	946031
RM1 Ratio (A)	1.0335
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	93.79
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

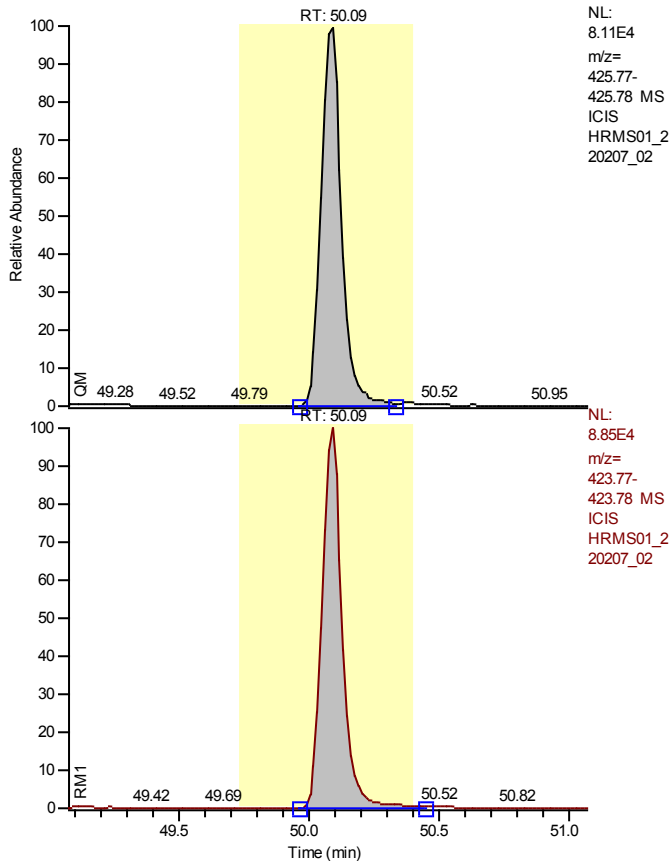
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.08 - 51.08 SM: 7G

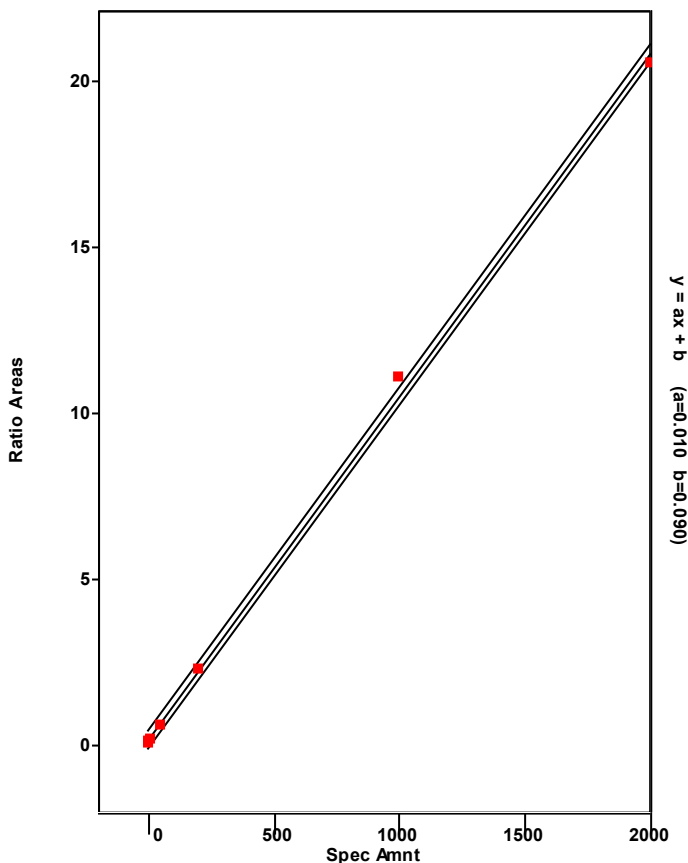


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	441589
RM1 Area	472290
RM1 Ratio (A)	1.0695
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	45.49
Percent Recovery (A)	91
TEQ (A)	0.4549
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

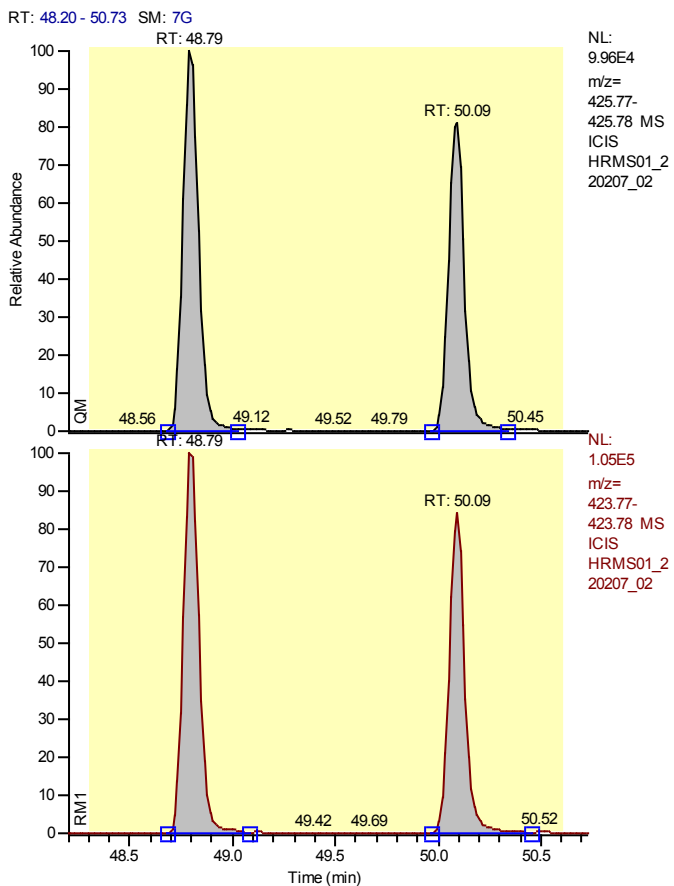
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

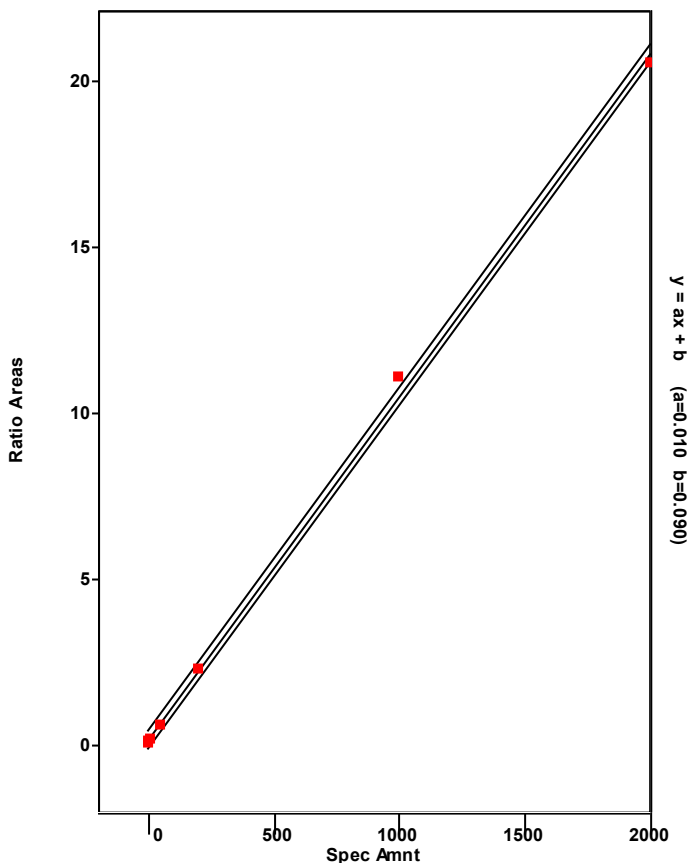


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	963386
RM1 Area	1026469
RM1 Ratio (A)	1.0655
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	99.05
Percent Recovery (A)	198
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

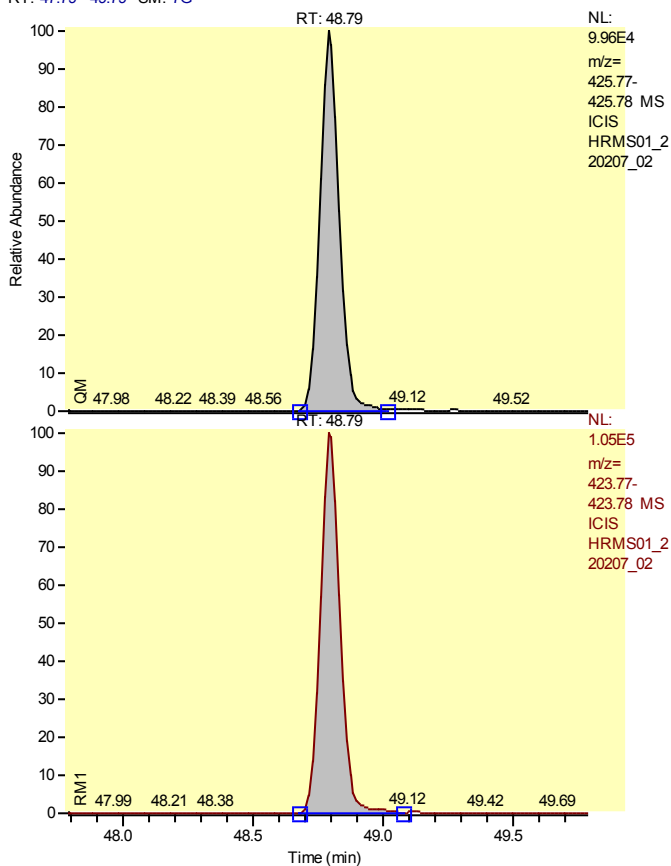
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 47.79 - 49.79 SM: 7G

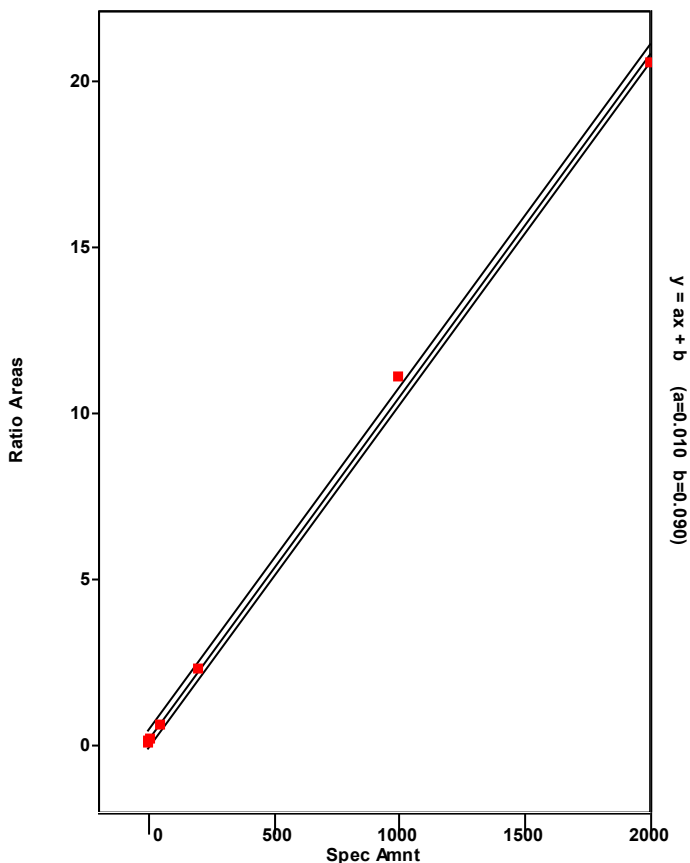


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	521797
RM1 Area	554179
RM1 Ratio (A)	1.0621
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	53.56
Percent Recovery (A)	107
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

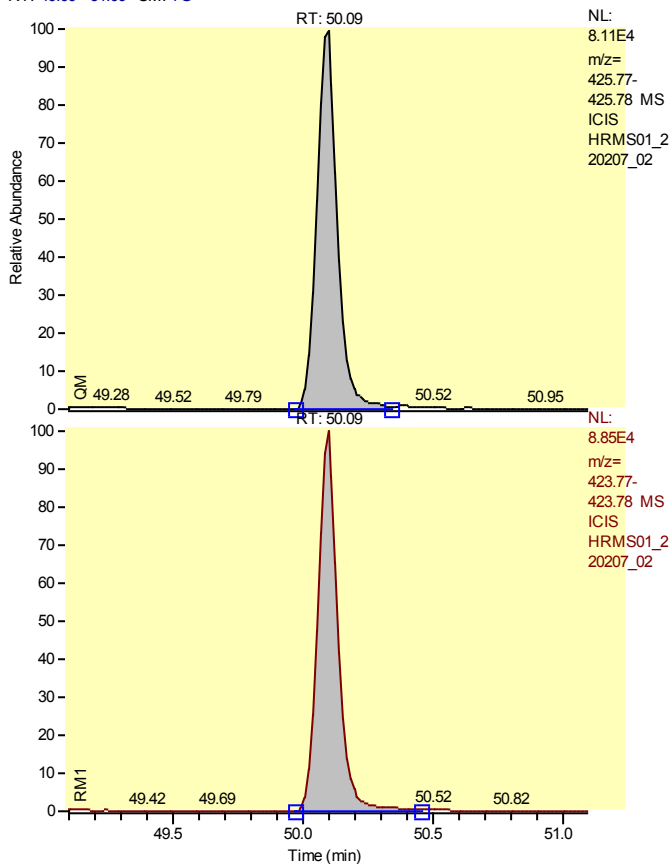
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.09 - 51.09 SM: 7G

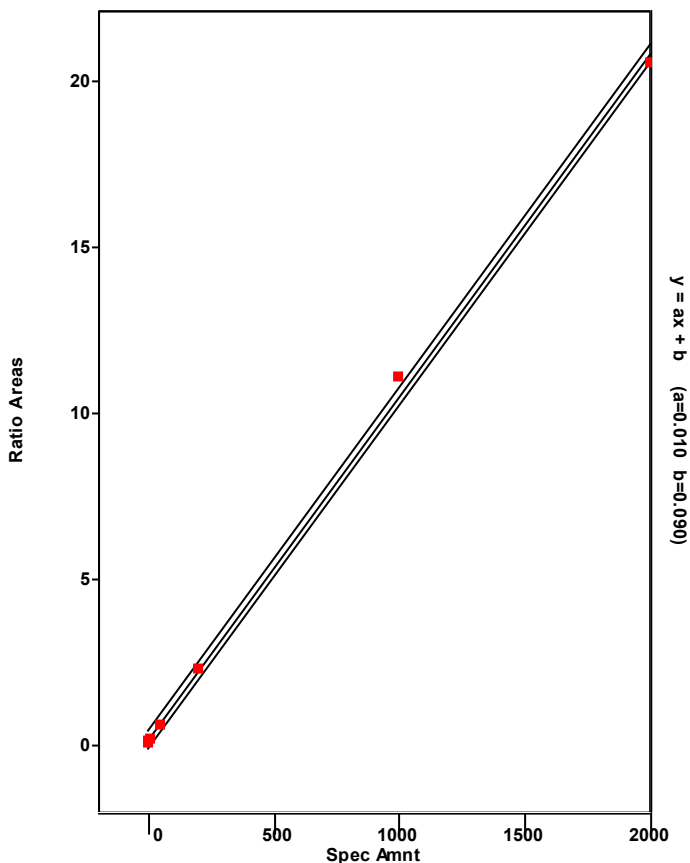


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	441589
RM1 Area	472290
RM1 Ratio (A)	1.0695
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	45.49
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

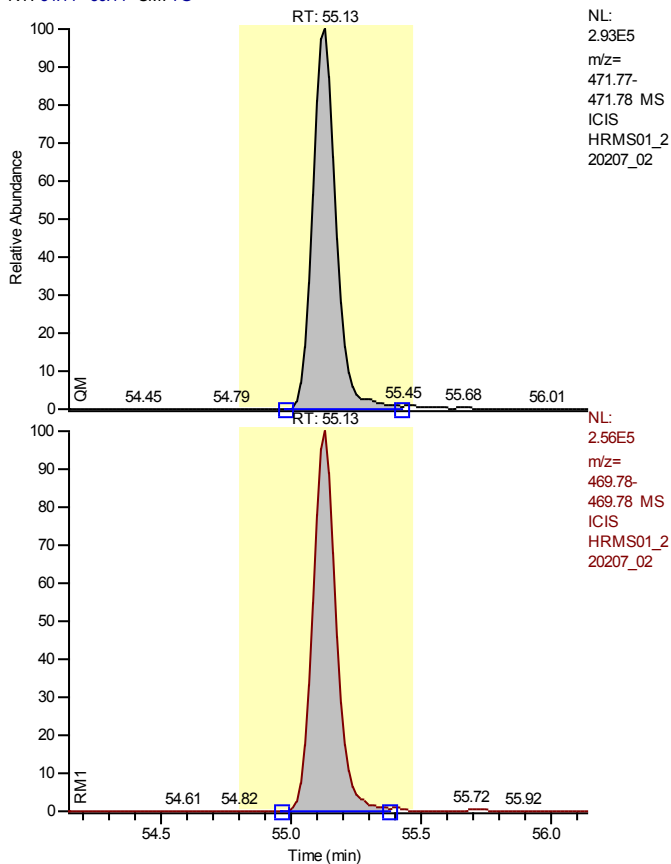
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 54.14 - 56.14 SM: 7G

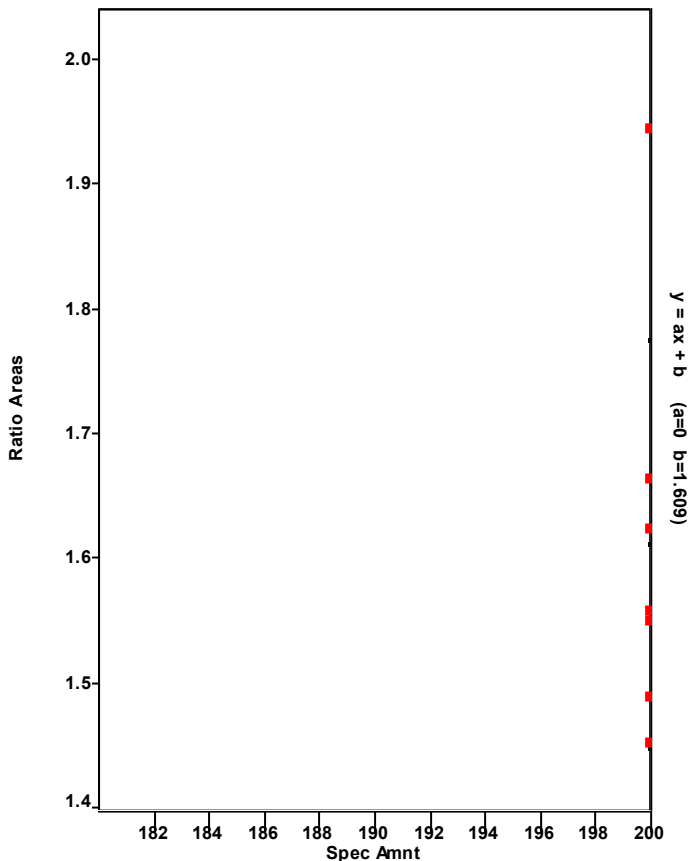


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1839081
RM1 Area	1601986
RM1 Ratio (A)	0.8711
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	194.31
Percent Recovery (A)	97
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

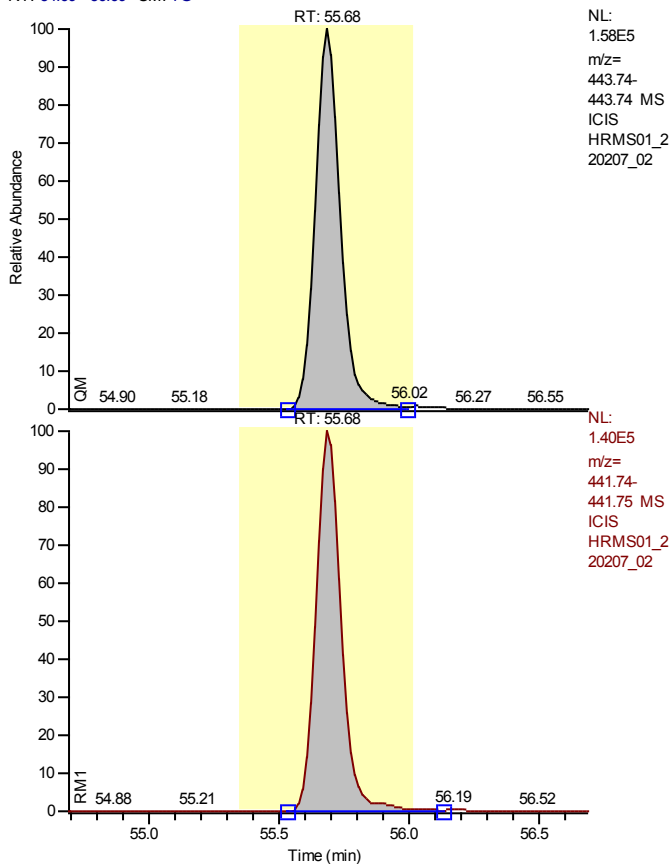
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.69 - 56.69 SM: 7G

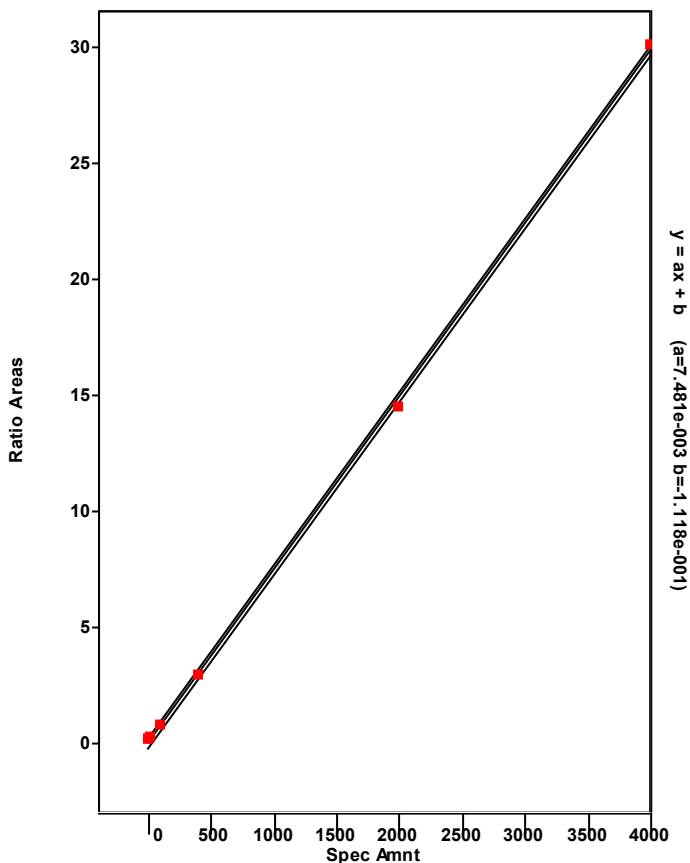


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	1055085
RM1 Area	946368
RM1 Ratio (A)	0.8970
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	83.38
Percent Recovery (A)	83
TEQ (A)	0.0250
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

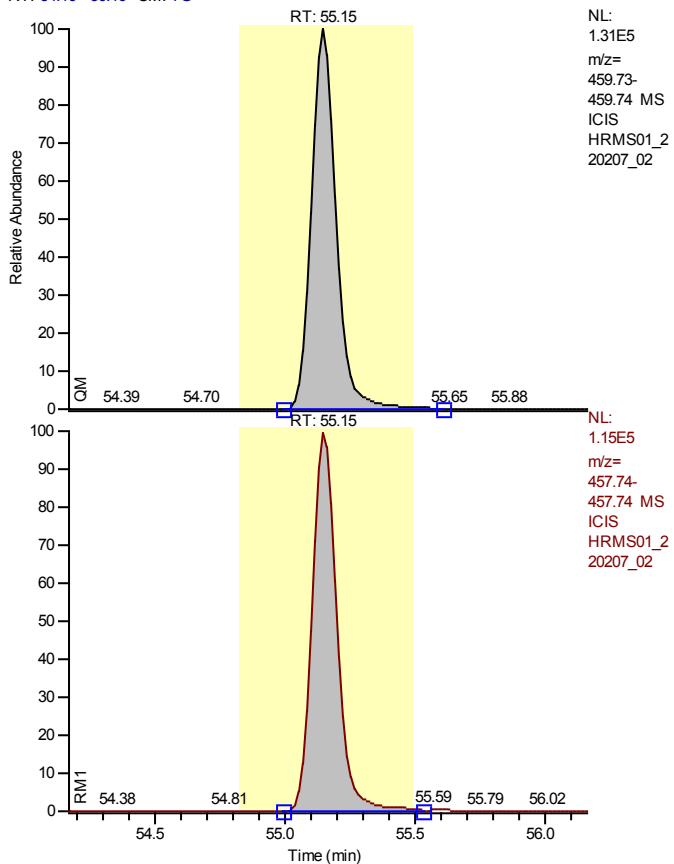
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.16 - 56.16 SM: 7G



NL:
1.31E5
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20207_02

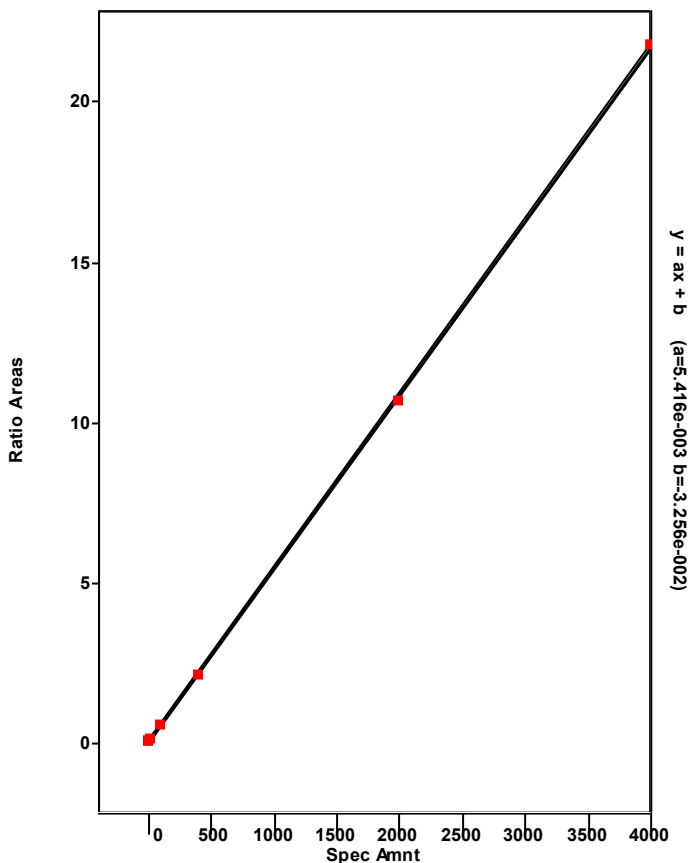
NL:
1.15E5
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20207_02

Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	866517
RM1 Area	759423
RM1 Ratio (A)	0.8764
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	87.36
Percent Recovery (A)	87
TEQ (A)	0.0262
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

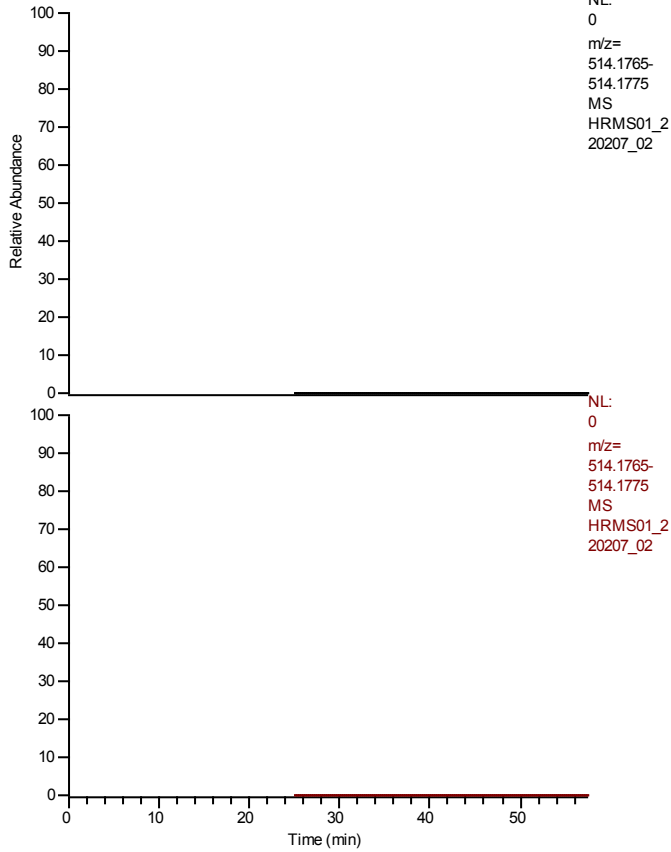
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

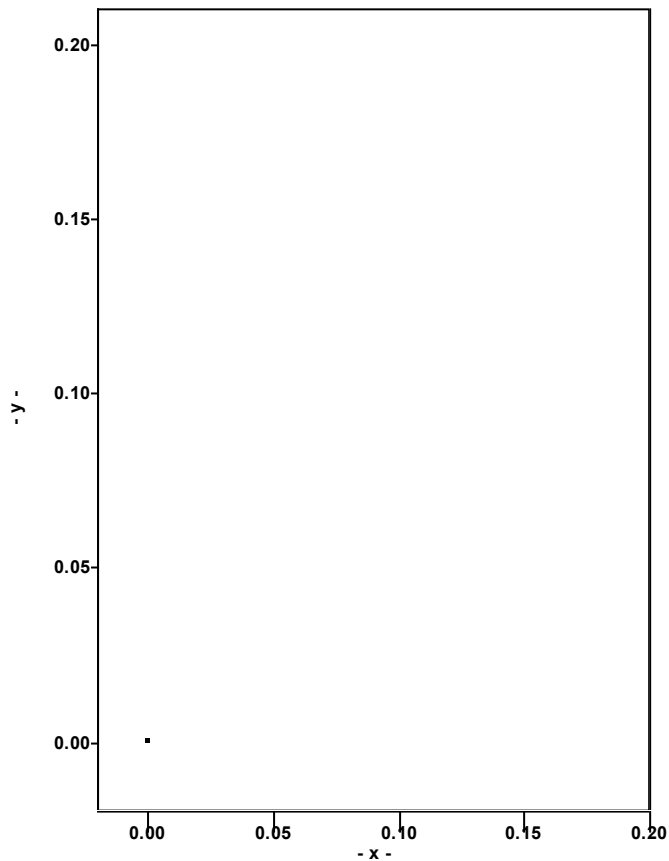
RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	8748049
RM1 Area	10118196
RM1 Ratio (A)	1.1566
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	797.09
Percent Recovery (A)	---
TEQ (A)	107.1898
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Analytical Event

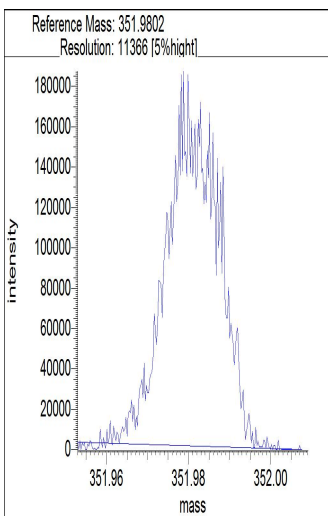
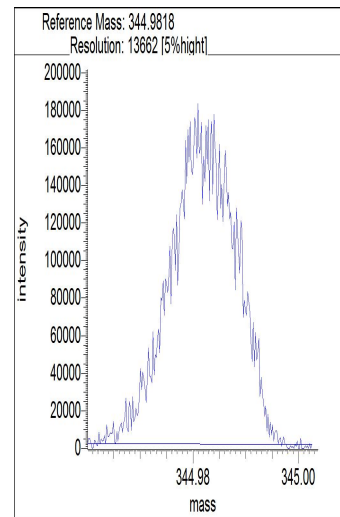
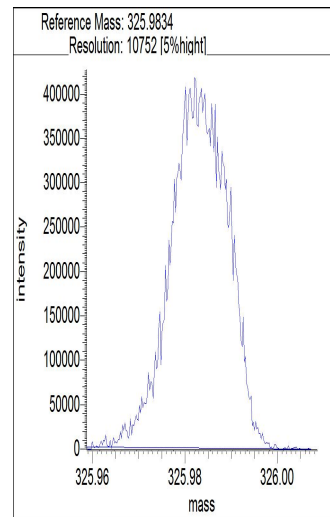
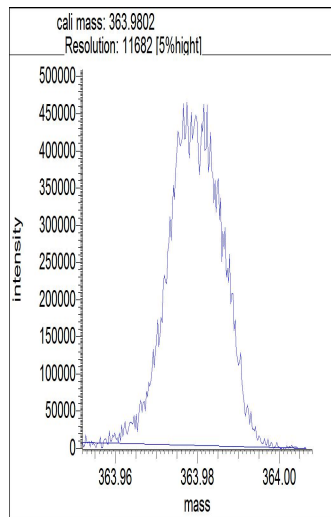
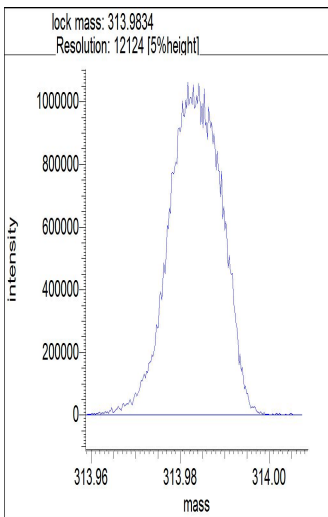
Continuing Calibration

Resolution Check Report (DFS SN: 1209)

Date: 08 Feb 2022 09:48
MID Experiment: EPA1613_RTX2
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 8000
Reference: FC43
Status: RESOLUTION PASSED

Segment 1

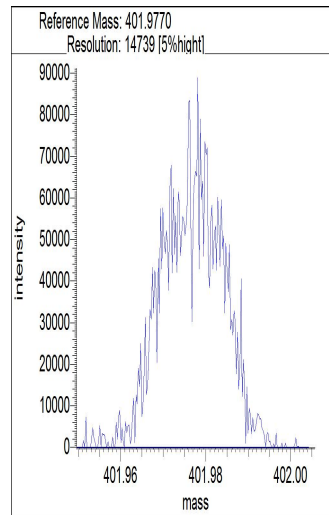
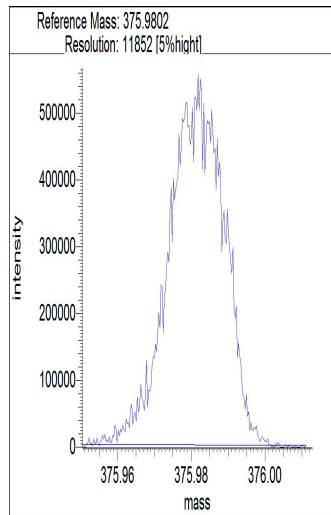
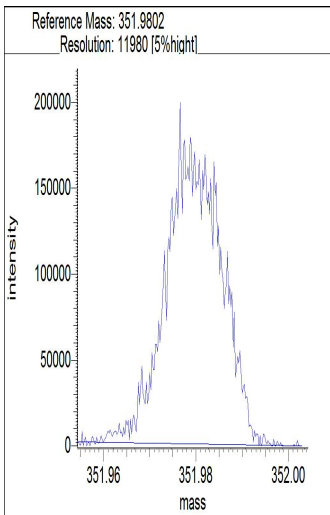
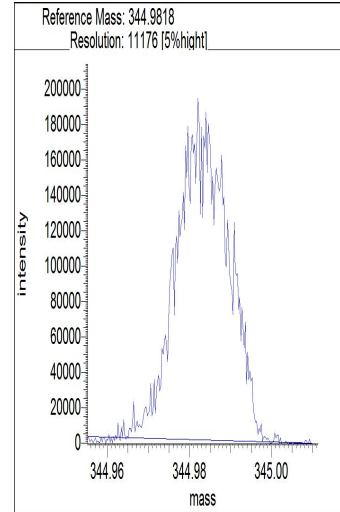
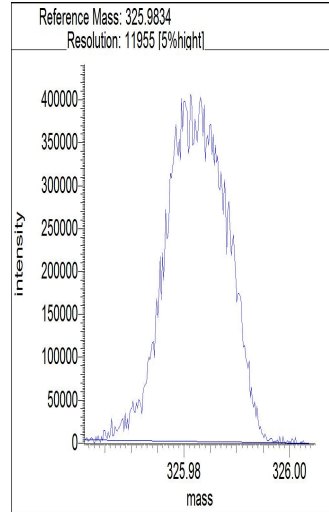
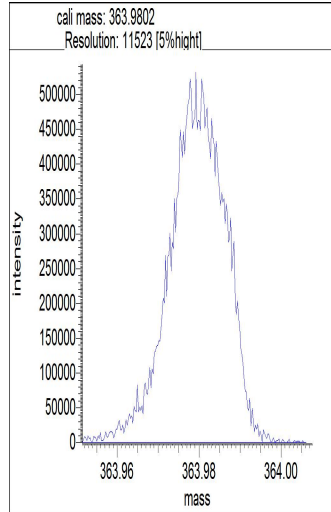
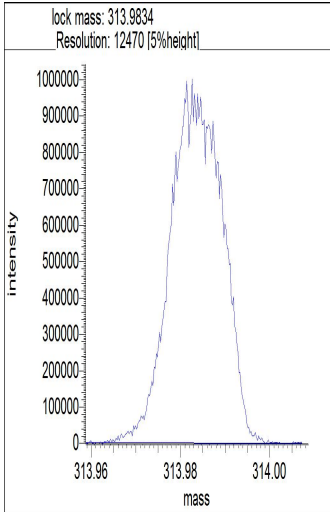
Lock mass 313.9834 [m/z] Resolution: 12124 [5%height]
Cali. mass 363.9802 [m/z] Resolution: 11682 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 10752 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 13662 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11366 [5%height]



Segment 2

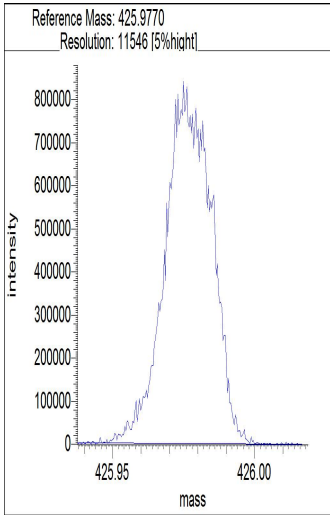
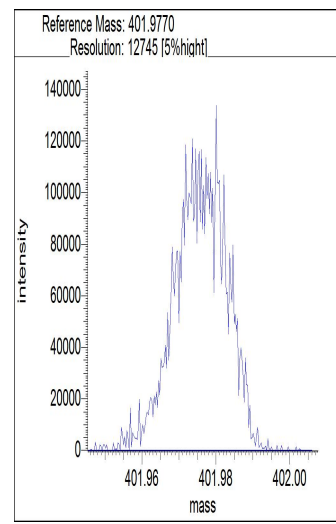
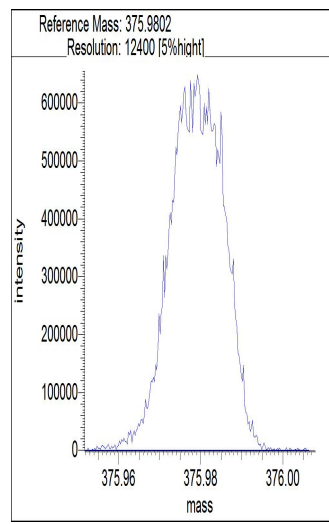
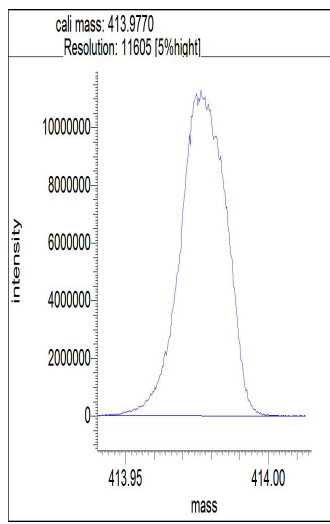
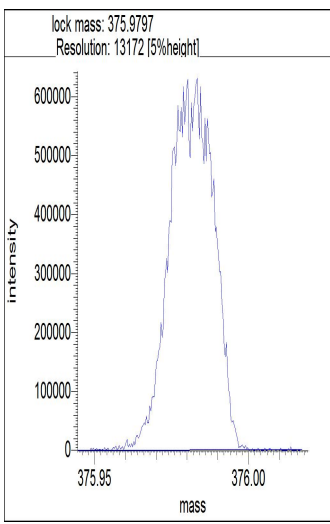
Lock mass 313.9834 [m/z] Resolution: 12470 [5%height]

Cali. mass 363.9802 [m/z] Resolution: 11523 [5%height]
Ref. mass 325.9834 [m/z] Resolution: 11955 [5%height]
Ref. mass 344.9818 [m/z] Resolution: 11176 [5%height]
Ref. mass 351.9802 [m/z] Resolution: 11980 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 11852 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 14739 [5%height]



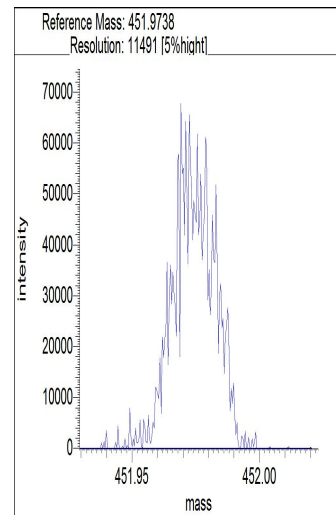
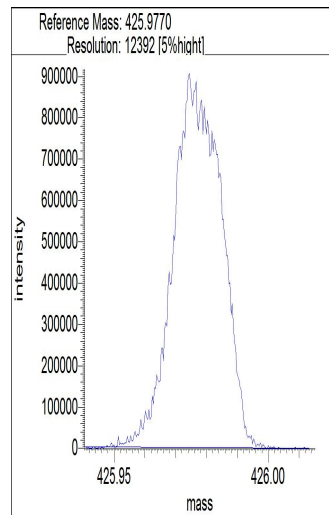
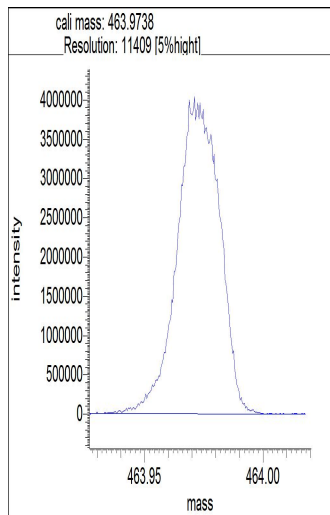
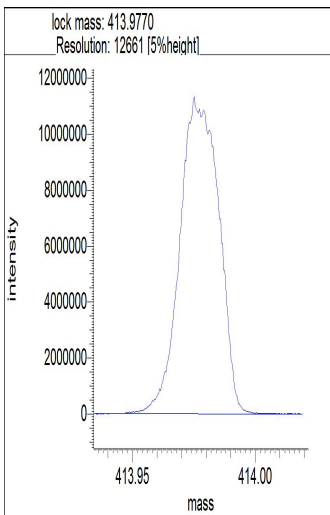
Segment 3

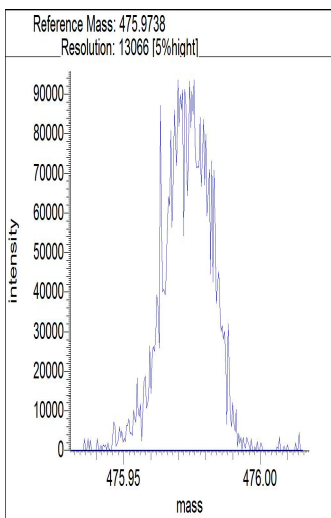
Lock mass 375.9797 [m/z] Resolution: 13172 [5%height]
Cali. mass 413.9770 [m/z] Resolution: 11605 [5%height]
Ref. mass 375.9802 [m/z] Resolution: 12400 [5%height]
Ref. mass 401.9770 [m/z] Resolution: 12745 [5%height]
Ref. mass 425.9770 [m/z] Resolution: 11546 [5%height]



Segment 4

- Lock mass 413.9770 [m/z] Resolution: 12661 [5%height]
- Cali. mass 463.9738 [m/z] Resolution: 11409 [5%height]
- Ref. mass 425.9770 [m/z] Resolution: 12392 [5%height]
- Ref. mass 451.9738 [m/z] Resolution: 11491 [5%height]
- Ref. mass 475.9738 [m/z] Resolution: 13066 [5%height]





Segment 5

Lock mass 425.9768 [m/z] Resolution: 12959 [5%height]

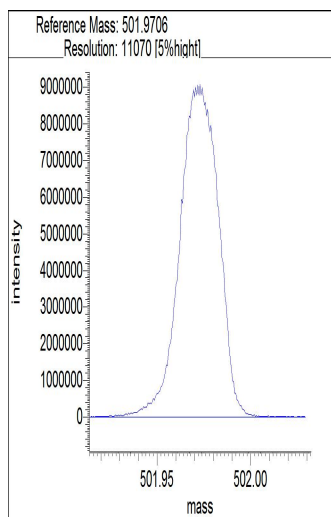
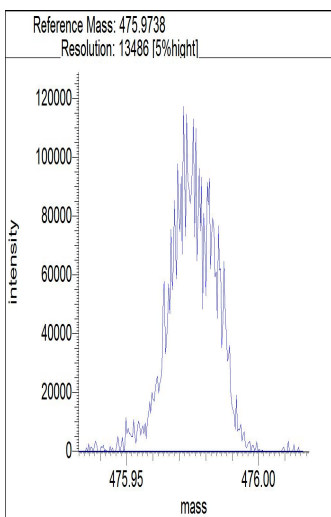
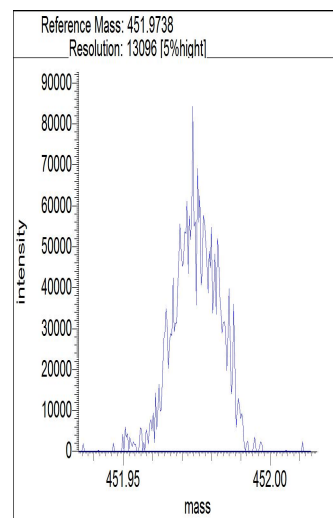
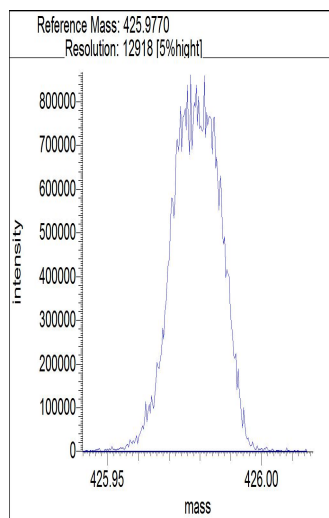
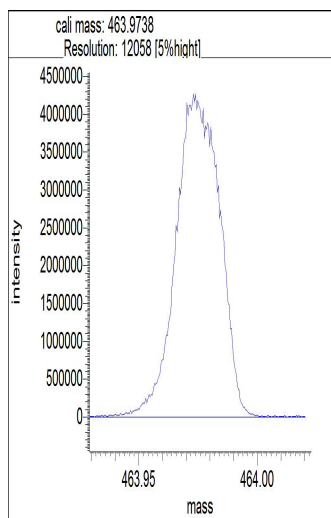
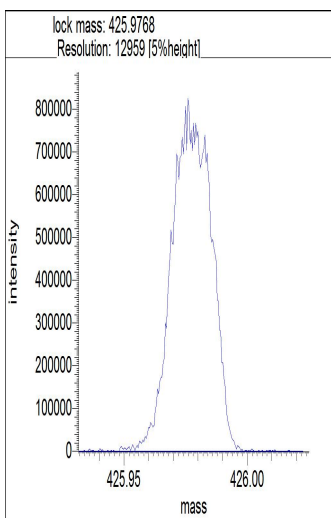
Cali. mass 463.9738 [m/z] Resolution: 12058 [5%height]

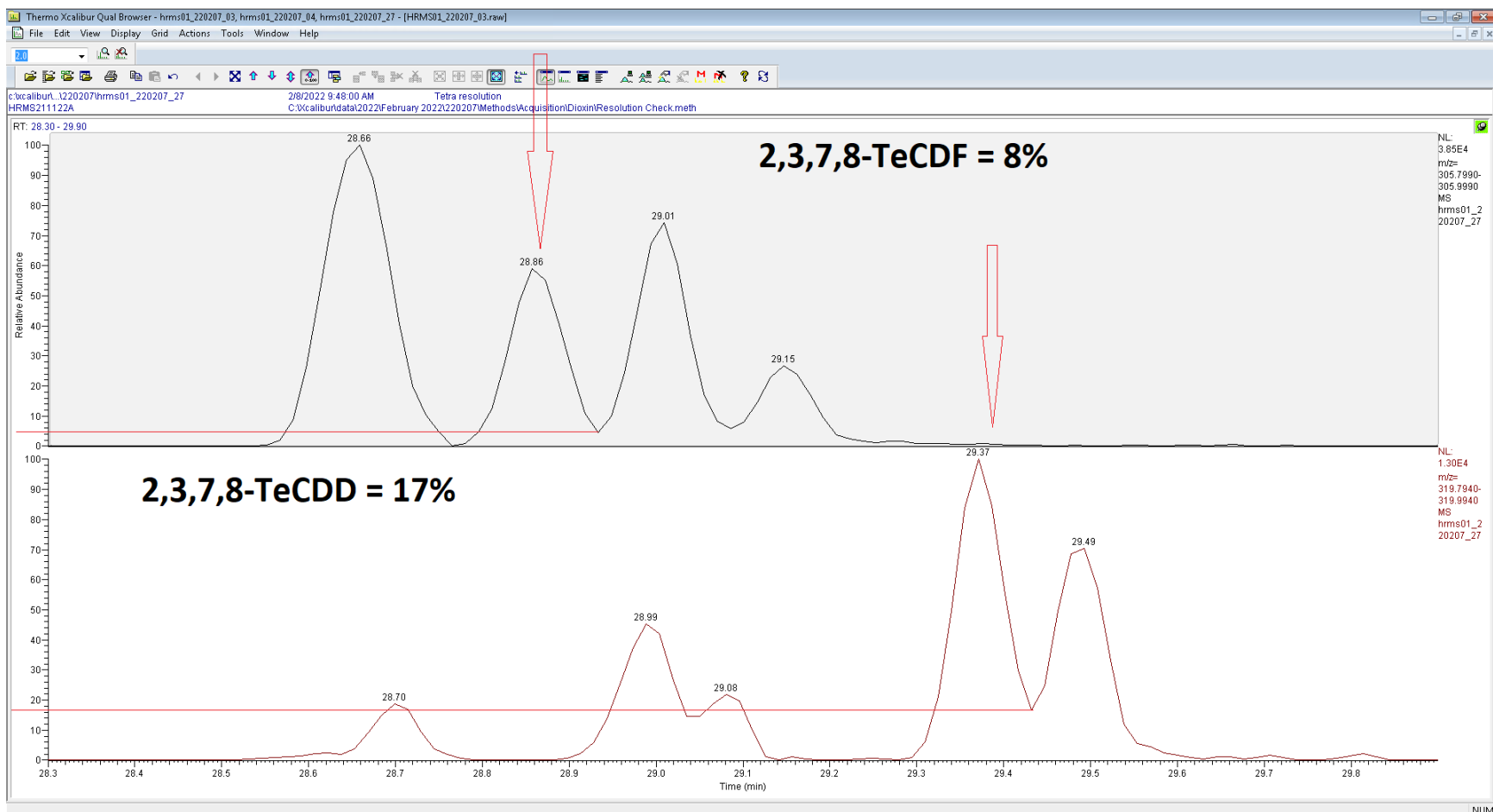
Ref. mass 425.9770 [m/z] Resolution: 12918 [5%height]

Ref. mass 451.9738 [m/z] Resolution: 13096 [5%height]

Ref. mass 475.9738 [m/z] Resolution: 13486 [5%height]

Ref. mass 501.9706 [m/z] Resolution: 11070 [5%height]





Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 08:30
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Comment	HRMS210614B
Vial	2
Sample Name	WG1602307-2
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_26_seq
Data	hrms01_220207_26
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

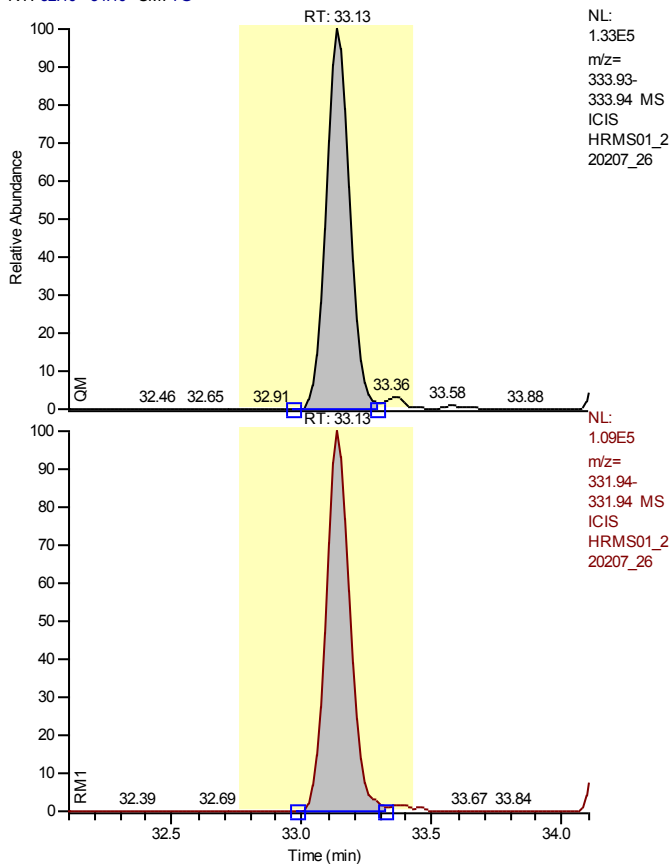
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		830332	686350	0.8266	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1435462	1114350	0.7763	0.6500 - 0.8900	100.00	103.47	103	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	144872	103810	0.7166	0.6500 - 0.8900	10.00	10.49	105	1.0494
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	385097	294984	0.7660	0.6500 - 0.8900	10.00	28.70	287	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	144872	103810	0.7166	0.6500 - 0.8900	10.00	10.49	105	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	153570	127036	0.8272	0.6500 - 0.8900	10.00	11.84	118	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	86656	64138	0.7401	0.6500 - 0.8900	10.00	6.36	64	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		918790	764640	0.8322	0.6500 - 0.8900	100.00	95.41	95	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	101146	86838	0.8585	0.6500 - 0.8900	10.00	10.55	106	10.5512
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	468217	357002	0.7625	0.6500 - 0.8900	10.00	46.32	463	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	159671	115777	0.7251	0.6500 - 0.8900	10.00	15.46	155	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	81089	59774	0.7371	0.6500 - 0.8900	10.00	7.91	79	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	49555	39130	0.7896	0.6500 - 0.8900	10.00	4.98	50	0.0000
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	101146	86838	0.8585	0.6500 - 0.8900	10.00	10.55	106	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	76756	55483	0.7228	0.6500 - 0.8900	10.00	7.42	74	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		695325	1083168	1.5578	1.3200 - 1.7800	100.00	80.86	81	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	310948	485130	1.5602	1.3200 - 1.7800	50.00	45.21	90	1.3564
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	1499414	2346227	1.5648	1.3200 - 1.7800	50.00	215.03	430	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	405983	615225	1.5154	1.3200 - 1.7800	50.00	57.10	114	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	419851	680194	1.6201	1.3200 - 1.7800	50.00	61.51	123	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	310948	485130	1.5602	1.3200 - 1.7800	50.00	44.51	89	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	362632	565677	1.5599	1.3200 - 1.7800	50.00	51.91	104	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		705668	1104274	1.5649	1.3200 - 1.7800	100.00	87.45	87	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	362632	565677	1.5599	1.3200 - 1.7800	50.00	47.29	95	14.1862
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		479281	757676	1.5809	1.3200 - 1.7800	100.00	89.51	90	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	235506	366942	1.5581	1.3200 - 1.7800	50.00	48.56	97	48.5554
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	911038	1423537	1.5625	1.3200 - 1.7800	50.00	188.16	376	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	308723	477056	1.5453	1.3200 - 1.7800	50.00	63.33	127	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	366810	579538	1.5799	1.3200 - 1.7800	50.00	76.27	153	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	235506	366942	1.5581	1.3200 - 1.7800	50.00	48.56	97	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		168289	168289	1.0000	0.8500 - 1.1500	10.00	8.86	89	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		653602	804720	1.2312	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1286086	698835	0.5434	0.4300 - 0.5900	100.00	121.15	121	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	514104	636429	1.2379	1.0500 - 1.4300	50.00	50.29	101	5.0292
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	2200156	2728525	1.2402	1.0500 - 1.4300	50.00	207.68	415	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	514104	636429	1.2379	1.0500 - 1.4300	50.00	48.48	97	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	446502	557336	1.2482	1.0500 - 1.4300	50.00	42.30	85	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	510508	634372	1.2426	1.0500 - 1.4300	50.00	48.24	96	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	397023	488200	1.2297	1.0500 - 1.4300	50.00	37.30	75	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	332019	412187	1.2415	1.0500 - 1.4300	50.00	31.36	63	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1316691	678036	0.5150	0.4300 - 0.5900	100.00	113.18	113	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	510508	634372	1.2426	1.0500 - 1.4300	50.00	50.17	100	5.0168
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1009429	553857	0.5487	0.4300 - 0.5900	100.00	91.01	91	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	397023	488200	1.2297	1.0500 - 1.4300	50.00	47.45	95	4.7453
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		949469	489711	0.5158	0.4300 - 0.5900	100.00	86.13	86	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	332019	412187	1.2415	1.0500 - 1.4300	50.00	46.18	92	4.6183
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		612909	720945	1.1763	1.0500 - 1.4300	100.00	102.50	103	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	296258	365399	1.2334	1.0500 - 1.4300	50.00	47.61	95	4.7606
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	1299475	1611760	1.2403	1.0500 - 1.4300	50.00	200.47	401	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	392706	479822	1.2218	1.0500 - 1.4300	50.00	60.08	120	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	296258	365399	1.2334	1.0500 - 1.4300	50.00	45.56	91	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	318342	404605	1.2710	1.0500 - 1.4300	50.00	49.78	100	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	292169	361934	1.2388	1.0500 - 1.4300	50.00	45.04	90	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		677071	821826	1.2138	1.0500 - 1.4300	100.00	110.13	110	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	318342	404605	1.2710	1.0500 - 1.4300	50.00	45.40	91	4.5404
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	292433	365131	1.2486	1.0500 - 1.4300	50.00	41.23	82	4.1233
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1062055	433299	0.4080	0.3700 - 0.5100	100.00	94.02	94	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	464909	463289	0.9965	0.8800 - 1.2000	50.00	48.26	97	0.4826
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	888948	902342	1.0151	0.8800 - 1.2000	50.00	95.73	191	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	464909	463289	0.9965	0.8800 - 1.2000	50.00	49.60	99	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	424039	439053	1.0354	0.8800 - 1.2000	50.00	46.13	92	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		987769	441810	0.4473	0.3700 - 0.5100	100.00	95.16	95	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	424039	439053	1.0354	0.8800 - 1.2000	50.00	46.80	94	0.4680
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		618807	679494	1.0981	0.8800 - 1.2000	100.00	98.72	99	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	334962	350711	1.0470	0.8800 - 1.2000	50.00	48.93	98	0.4893
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	706224	727931	1.0307	0.8800 - 1.2000	50.00	102.35	205	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	371262	377220	1.0160	0.8800 - 1.2000	50.00	53.42	107	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	334962	350711	1.0470	0.8800 - 1.2000	50.00	48.93	98	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1355707	1276262	0.9414	0.7600 - 1.0200	200.00	224.29	112	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	821520	743804	0.9054	0.7600 - 1.0200	100.00	85.25	85	0.0256
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	687167	633173	0.9214	0.7600 - 1.0200	100.00	92.74	93	0.0278
72	overall TEQ	overall TEQ test		6548386	7544752	1.1522	0.0000 - 0.0000	0.00	812.43	---	110.0259

Chromatogram

Entry Parameters

RT: 32.10 - 34.10 SM: 7G



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333.94 MS
ICIS
HRMS01_2
20207_26

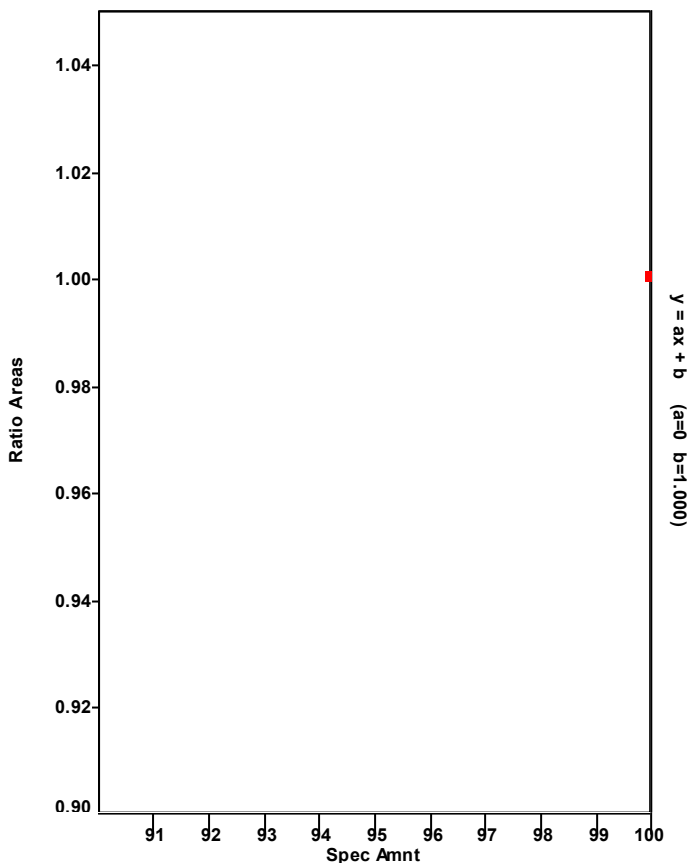
NL:
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HRMS01_2
20207_26

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	830332
RM1 Area	686350
RM1 Ratio (A)	0.8266
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

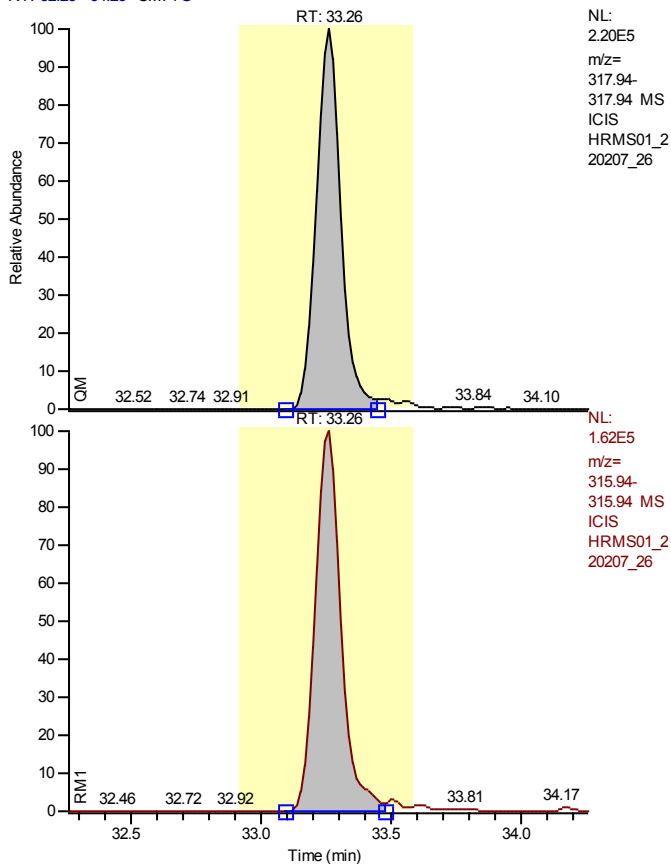
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.25 - 34.25 SM: 7G

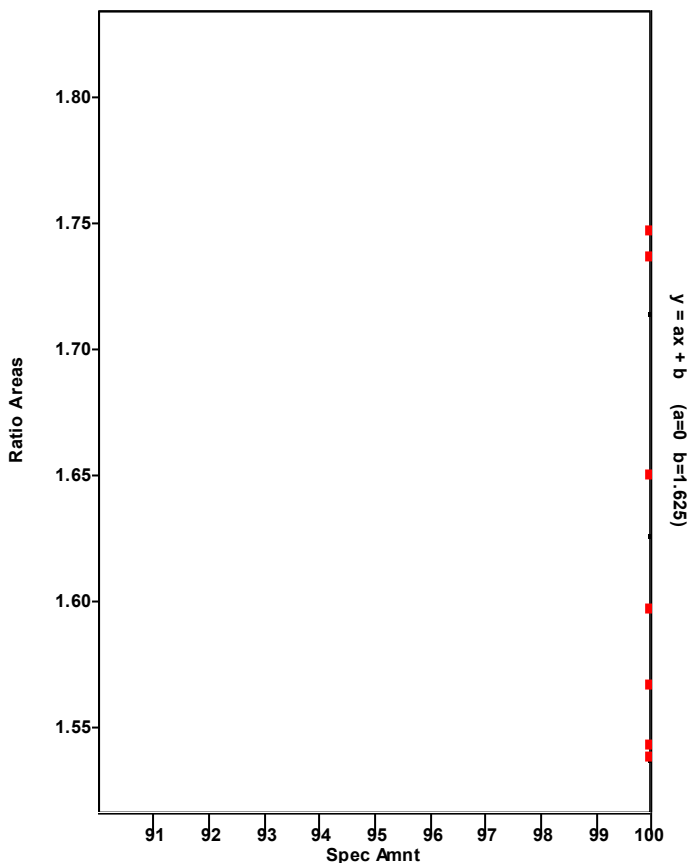


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1435462
RM1 Area	1114350
RM1 Ratio (A)	0.7763
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	103.47
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

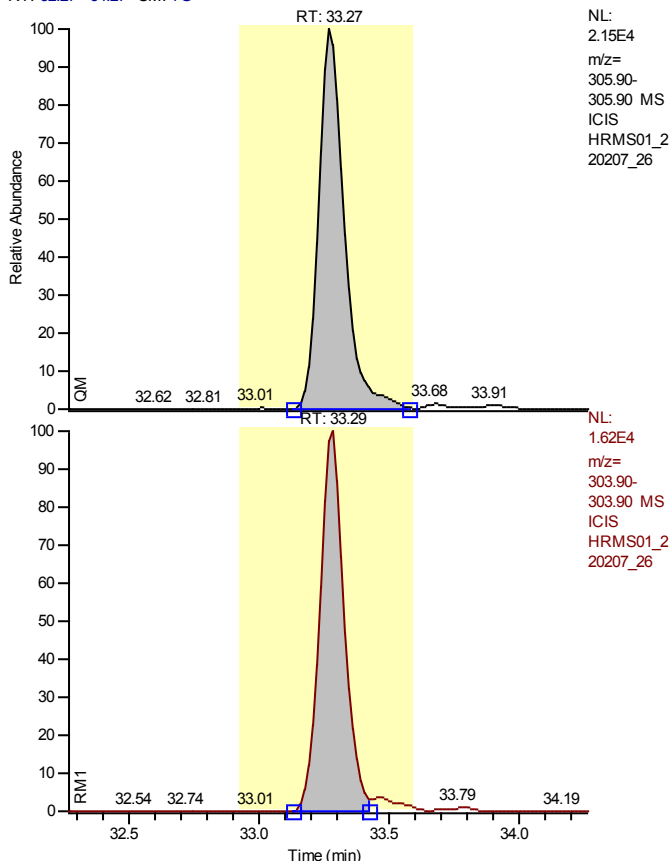
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G

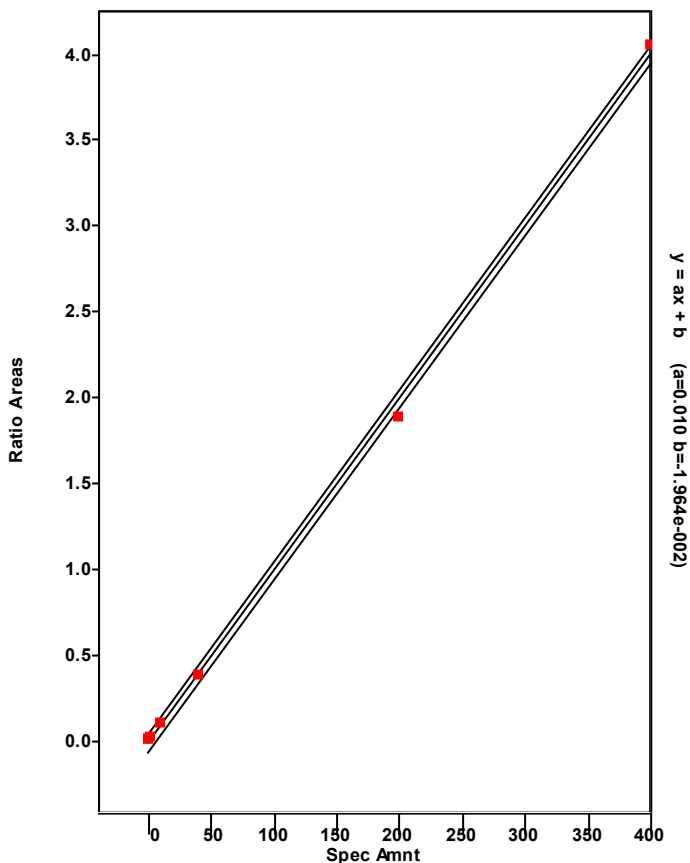


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	144872
RM1 Area	103810
RM1 Ratio (A)	0.7166
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.49
Percent Recovery (A)	105
TEQ (A)	1.0494
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

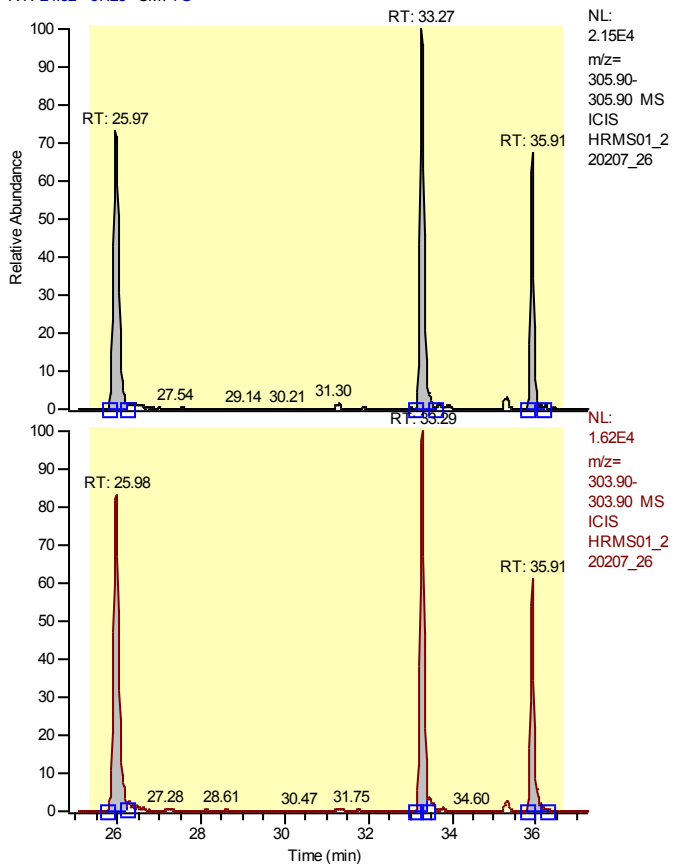
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.82 - 37.25 SM: 7G

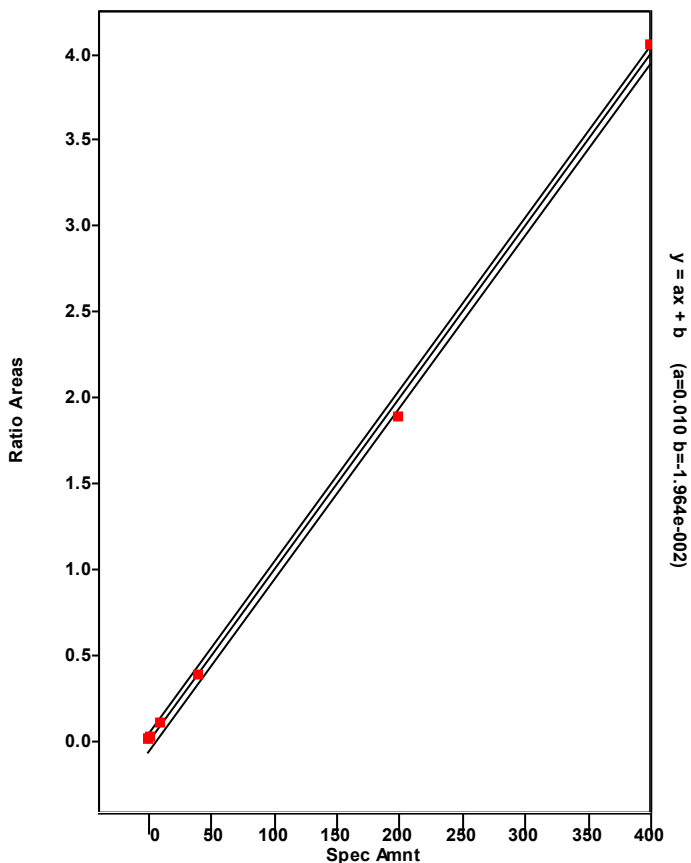


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	385097
RM1 Area	294984
RM1 Ratio (A)	0.7660
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	28.70
Percent Recovery (A)	287
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

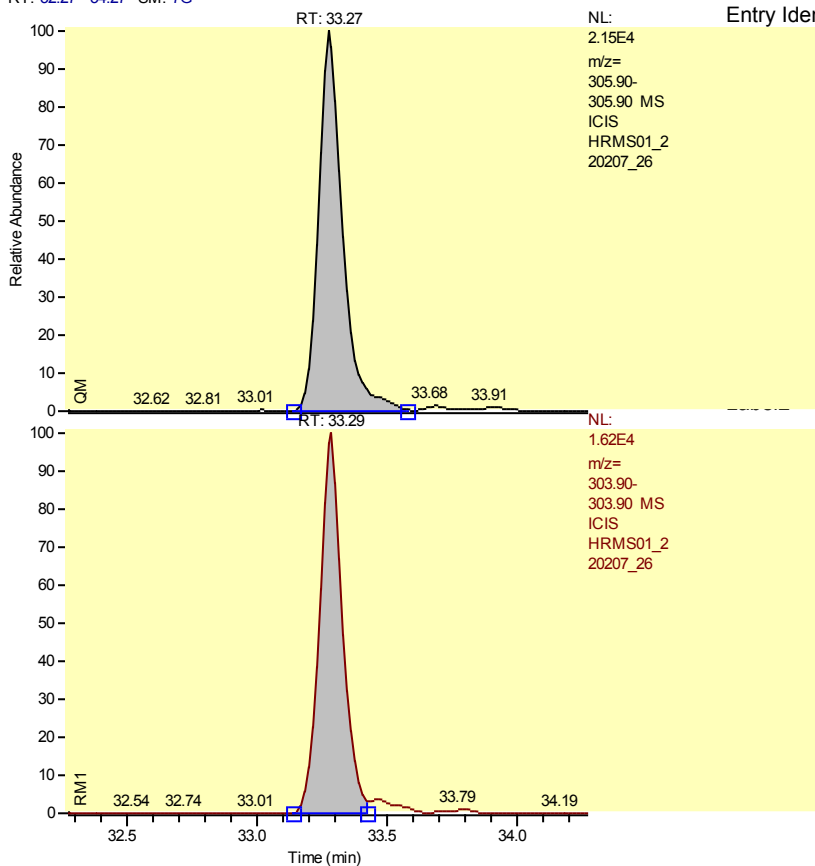
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G

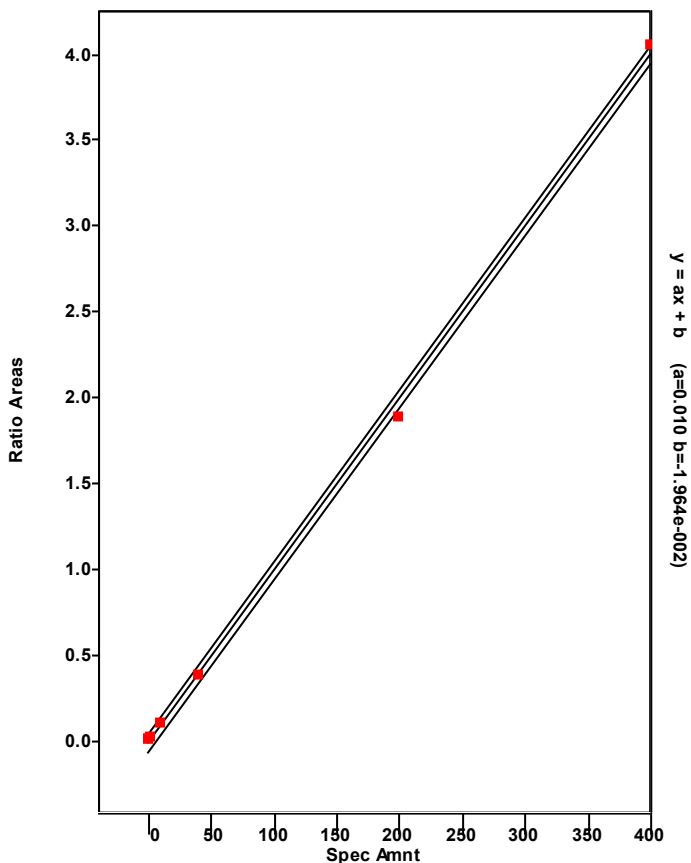


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
	CAS# 55722-27-5
	144872
	103810
Area (A)	0.7166
Unit	0.6500 - 0.8900
Amount	10.00
Adjusted Amount (A)	10.49
Recovery (A)	105
	0.0000

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

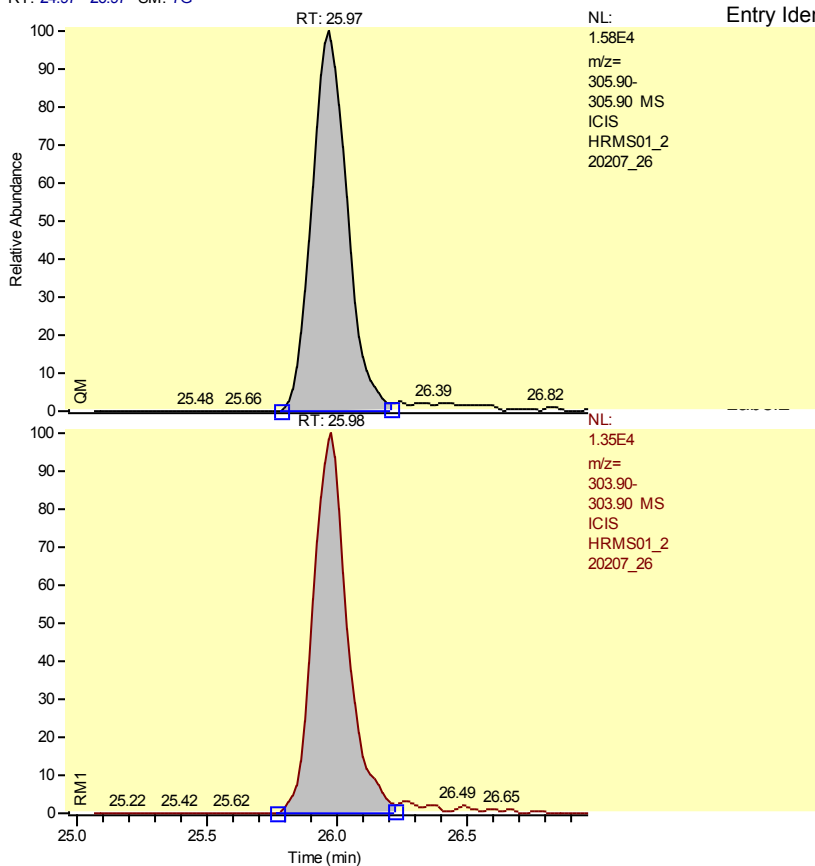
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.97 - 26.97 SM: 7G

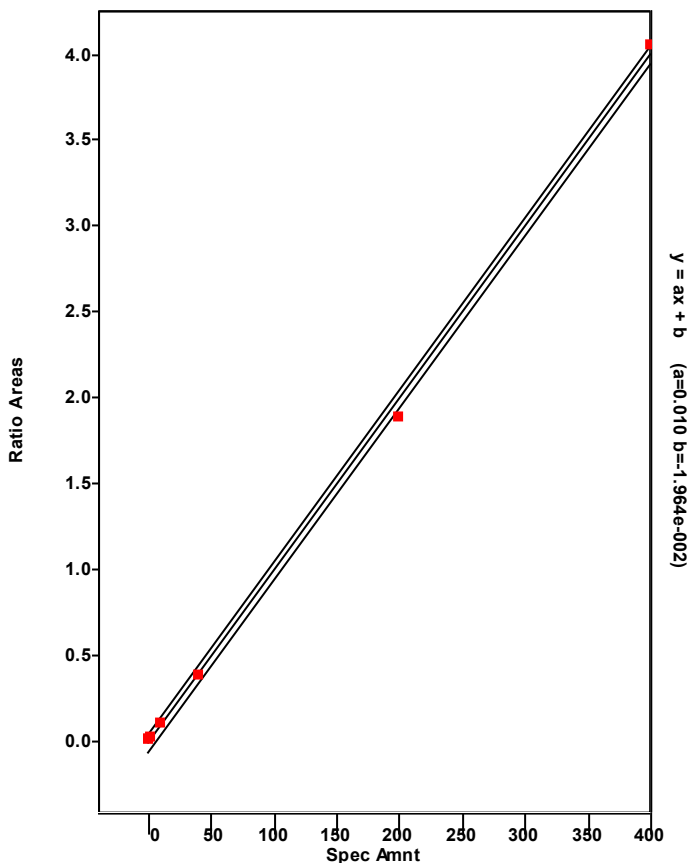


Entry Identifier	Total Tetrachlorodibenzofuran__2
d Name	Single native TCDF
	CAS# 55722-27-5
	153570
	127036
o (A)	0.8272
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	11.84
recovery (A)	118
	0.0000

Entry: Total Tetrachlorodibenzofuran__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__2

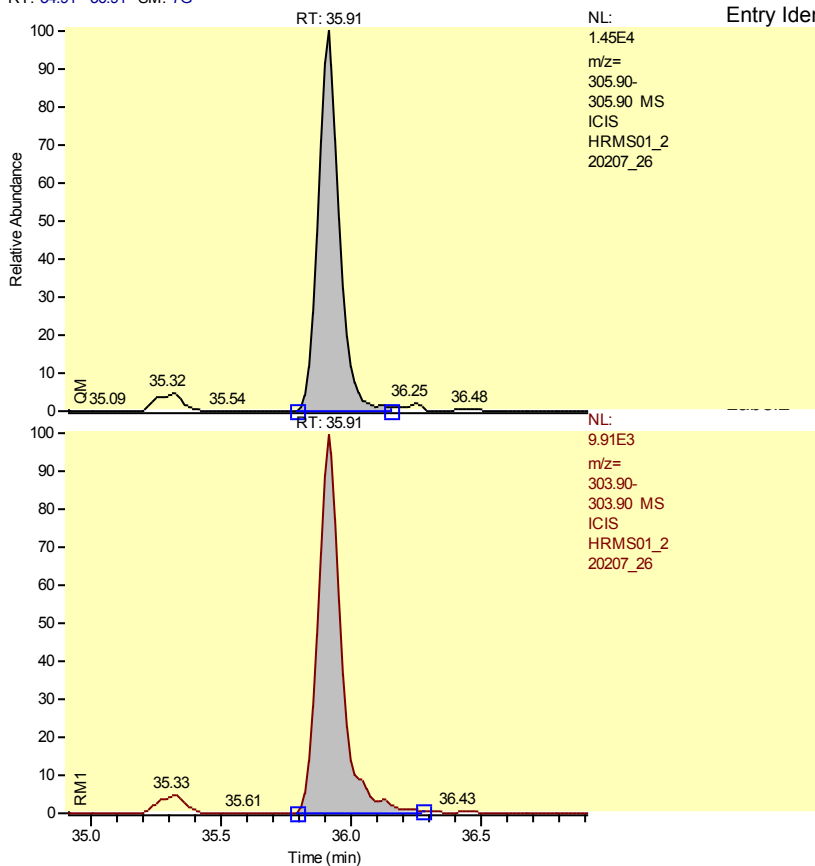
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 34.91 - 36.91 SM: 7G

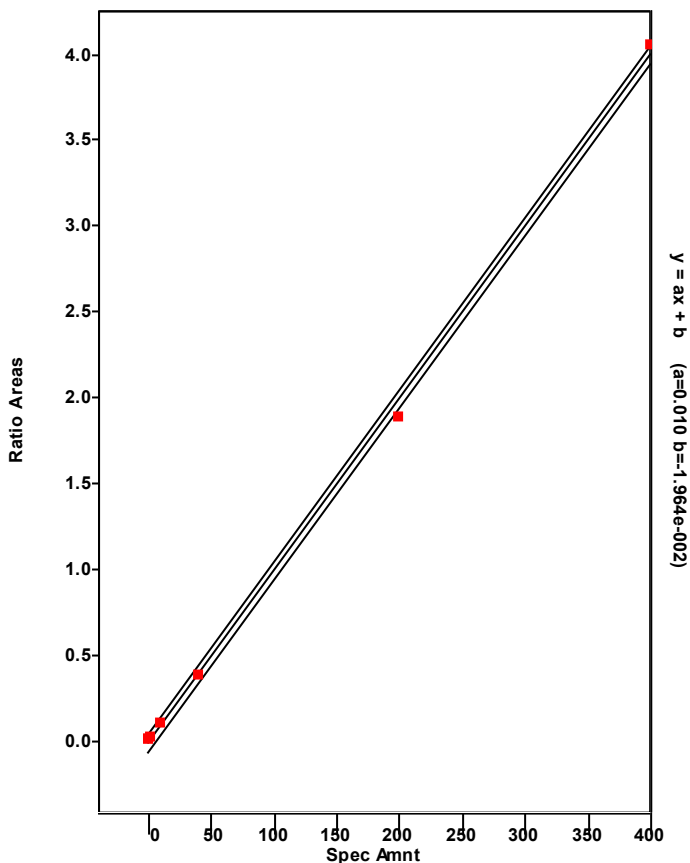


Entry Identifier	Total Tetrachlorodibenzofuran__3
d Name	Single native TCDF
	CAS# 55722-27-5
	86656
	64138
o (A)	0.7401
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	6.36
recovery (A)	64
	0.0000

Entry: Total Tetrachlorodibenzofuran__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__3

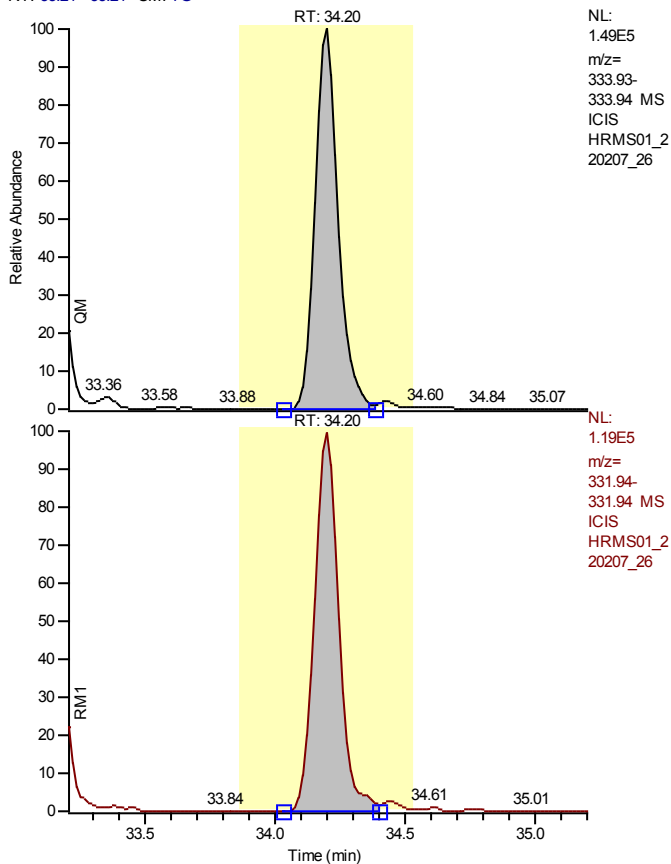
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G



NL:
1.49E5
m/z=
333.93-
333.94 MS
ICIS
HRMS01_2
20207_26

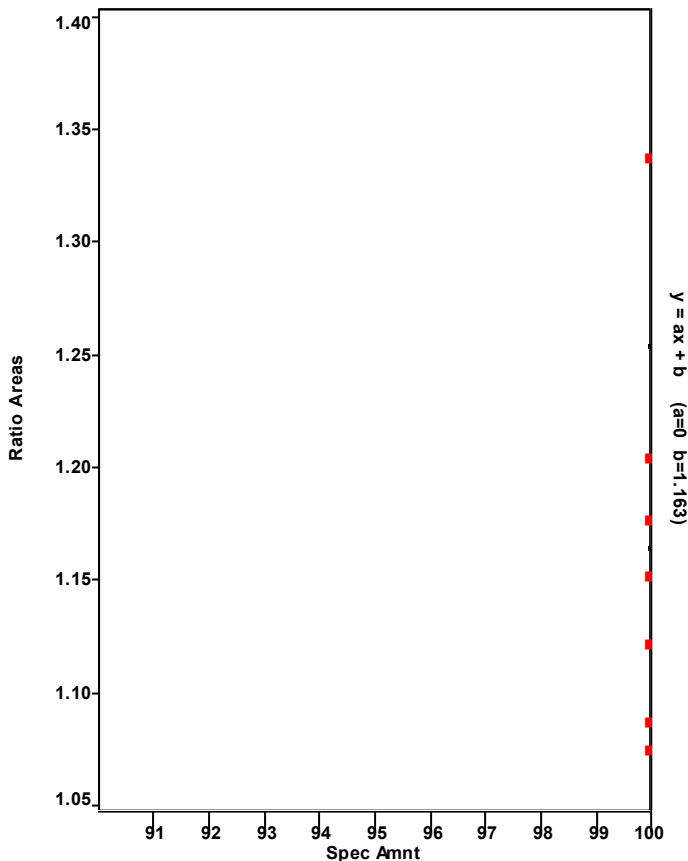
NL:
1.19E5
m/z=
331.94-
331.94 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	918790
RM1 Area	764640
RM1 Ratio (A)	0.8322
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	95.41
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

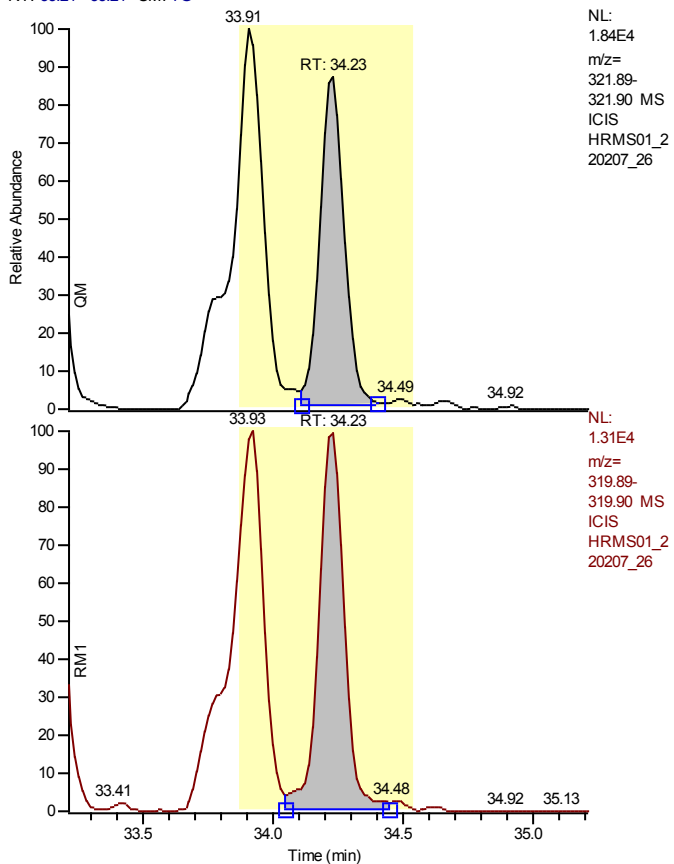
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G



NL:
 1.84E4
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20207_26

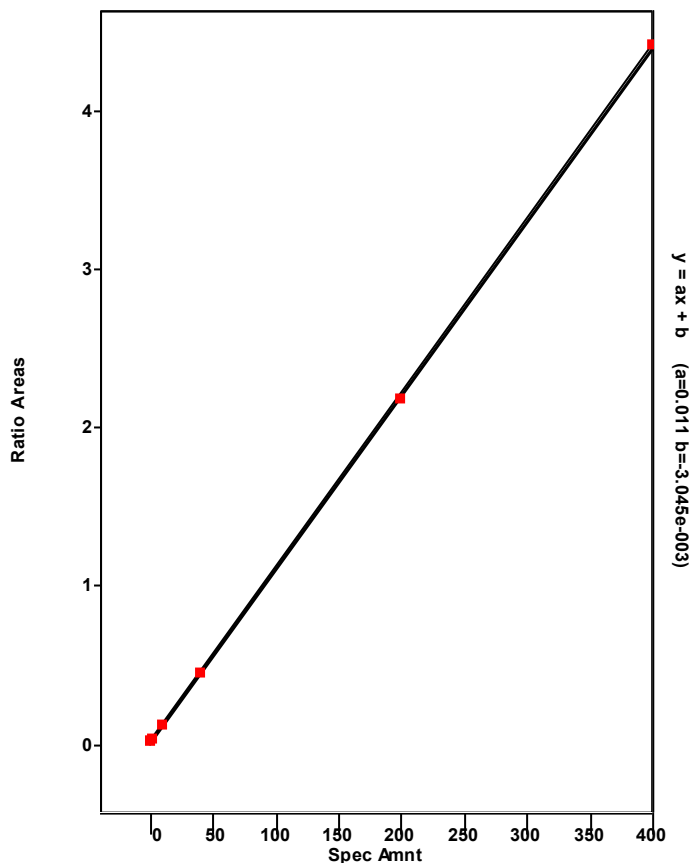
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	101146
RM1 Area	86838
RM1 Ratio (A)	0.8585
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.55
Percent Recovery (A)	106
TEQ (A)	10.5512
Label2	

NL:
 1.31E4
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20207_26

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

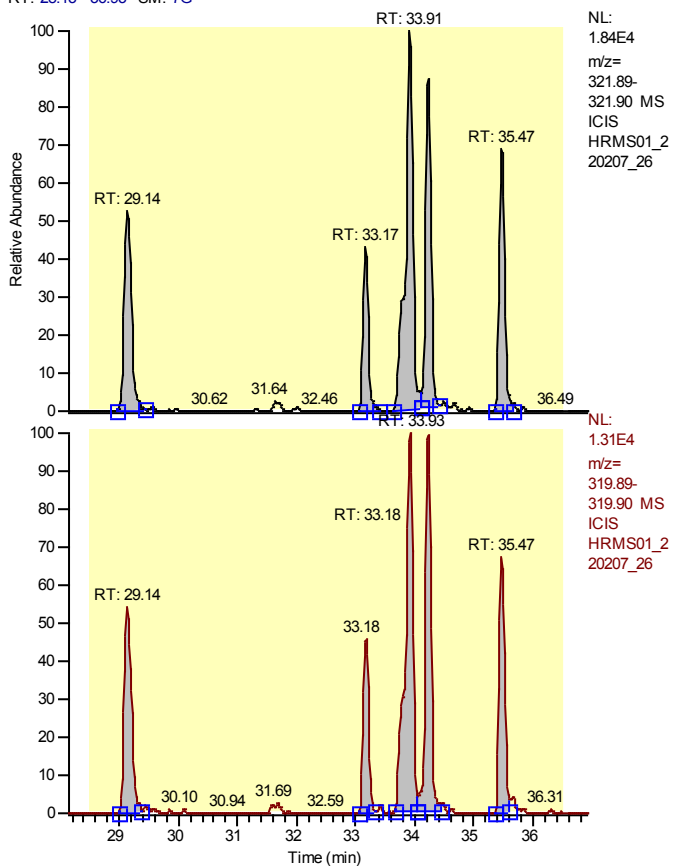
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.13 - 36.93 SM: 7G

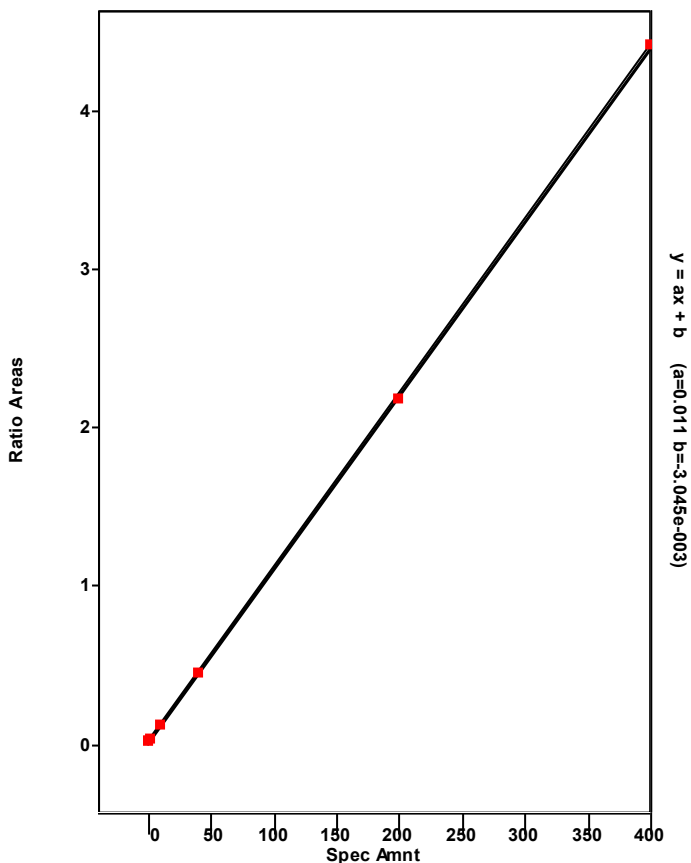


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	468217
RM1 Area	357002
RM1 Ratio (A)	0.7625
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	46.32
Percent Recovery (A)	463
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

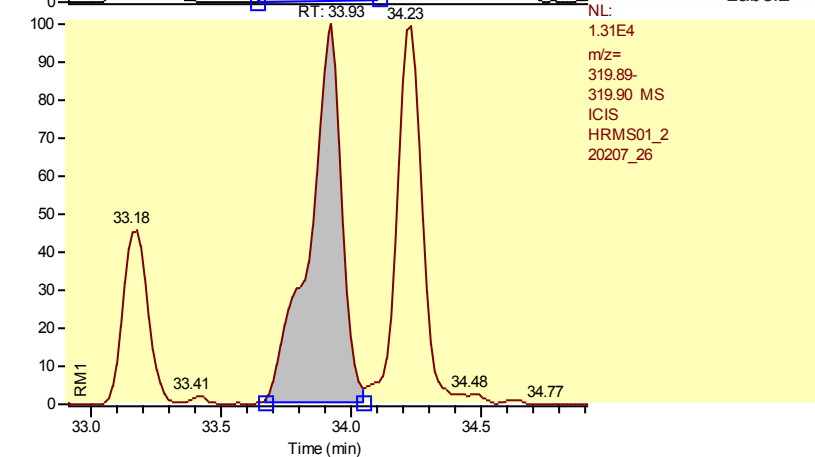
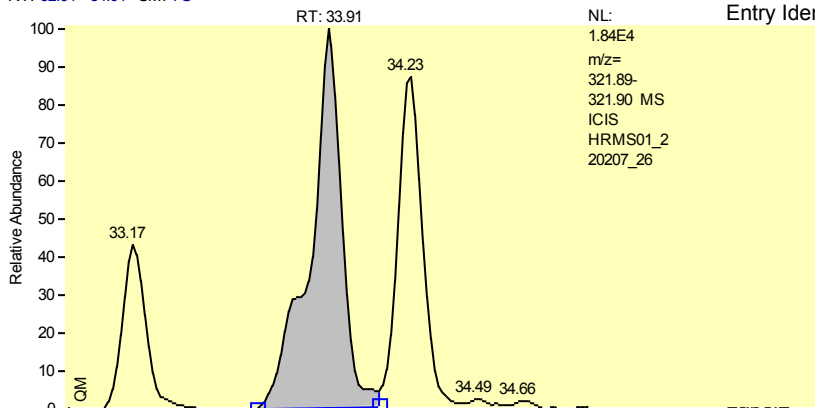
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 32.91 - 34.91 SM: 7G

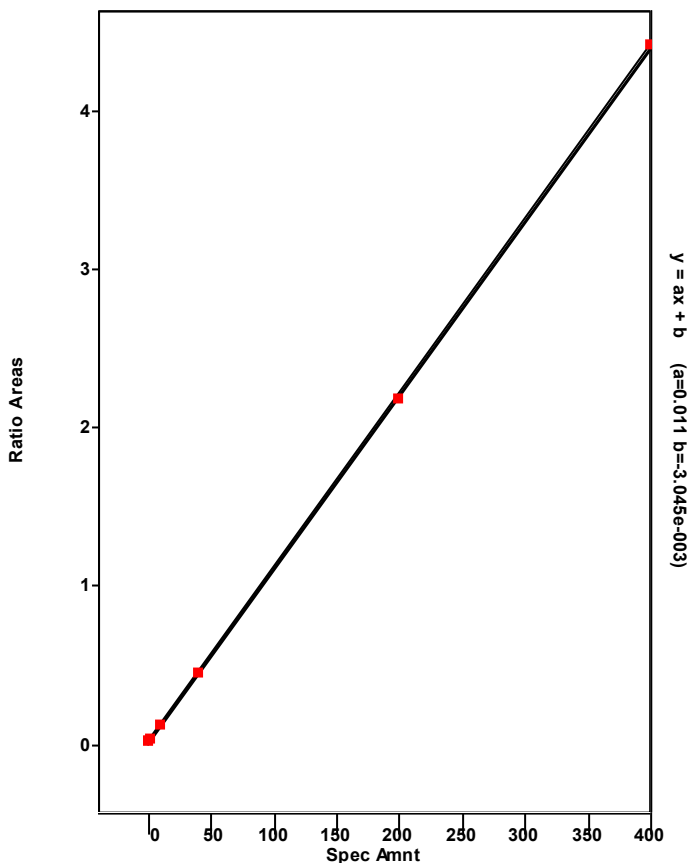


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
d Name	Single native TCDD
	CAS# 41903-57-5
	159671
	115777
o (A)	0.7251
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	15.46
recovery (A)	155
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

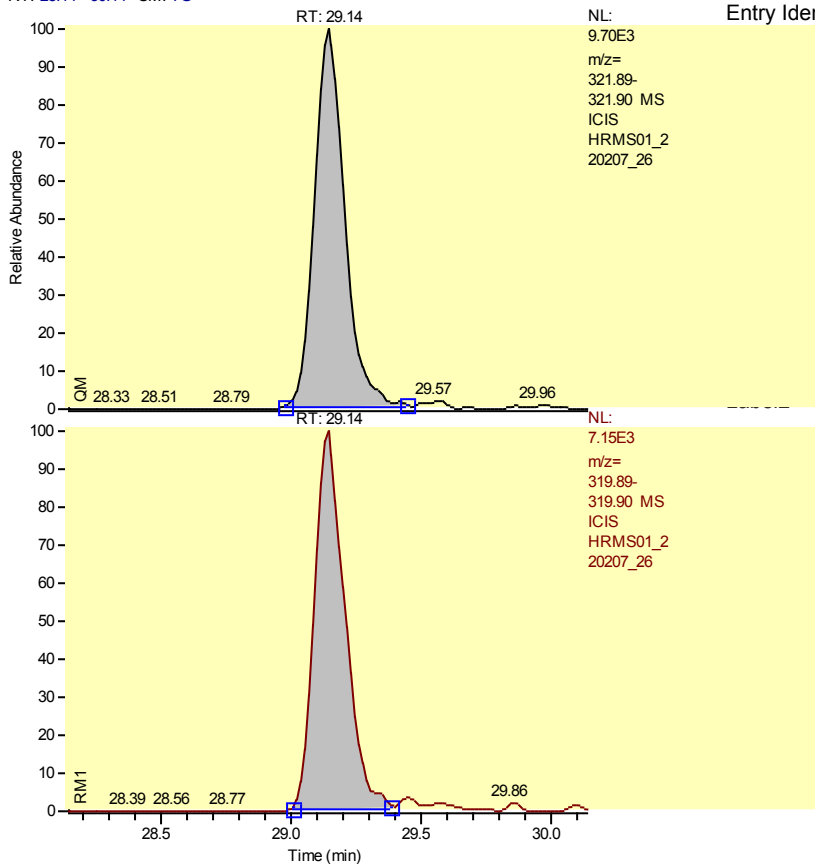
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.14 - 30.14 SM: 7G

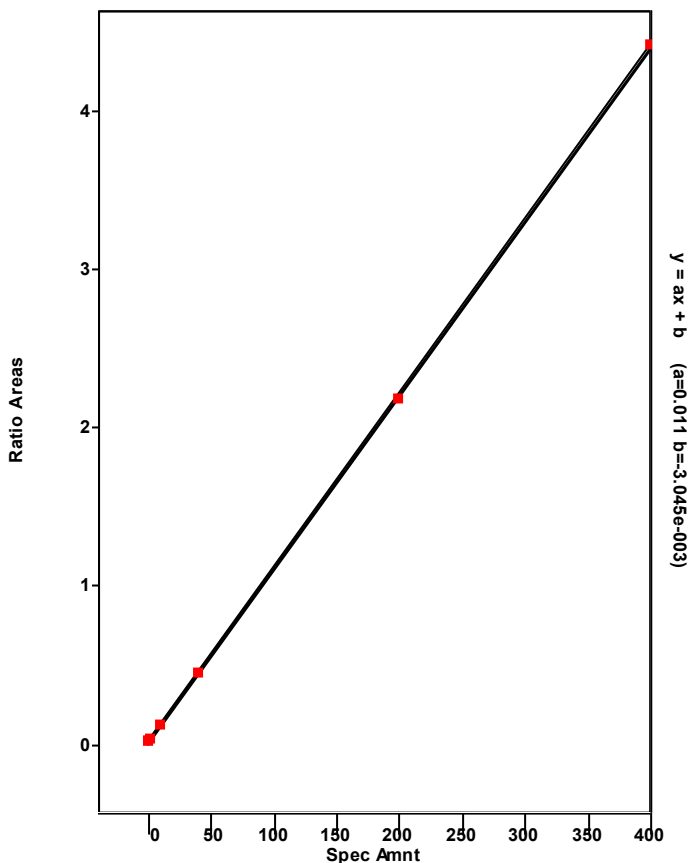


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
d Name	Single native TCDD
	CAS# 41903-57-5
	81089
	59774
o (A)	0.7371
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	7.91
recovery (A)	79
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__2 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

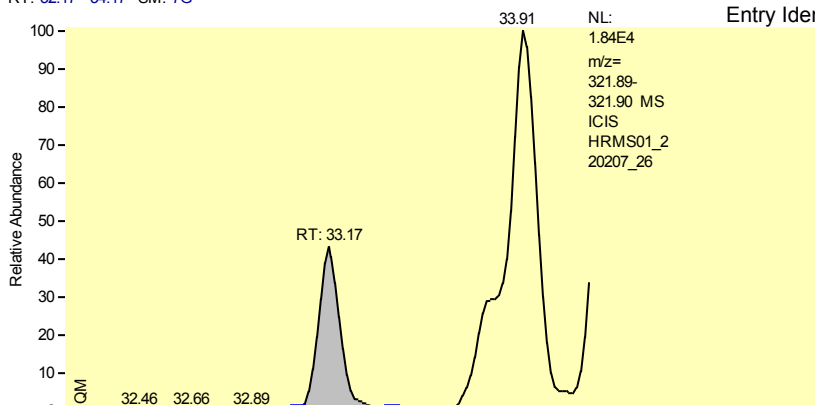
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



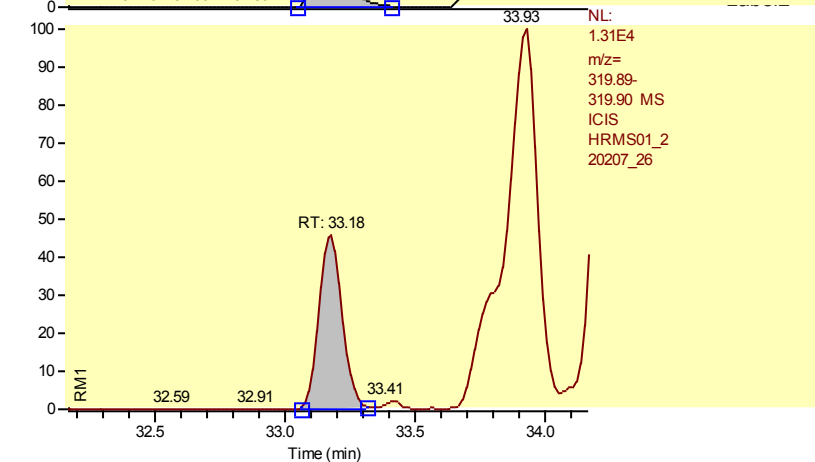
Chromatogram

Entry Parameters

RT: 32.17 - 34.17 SM: 7G



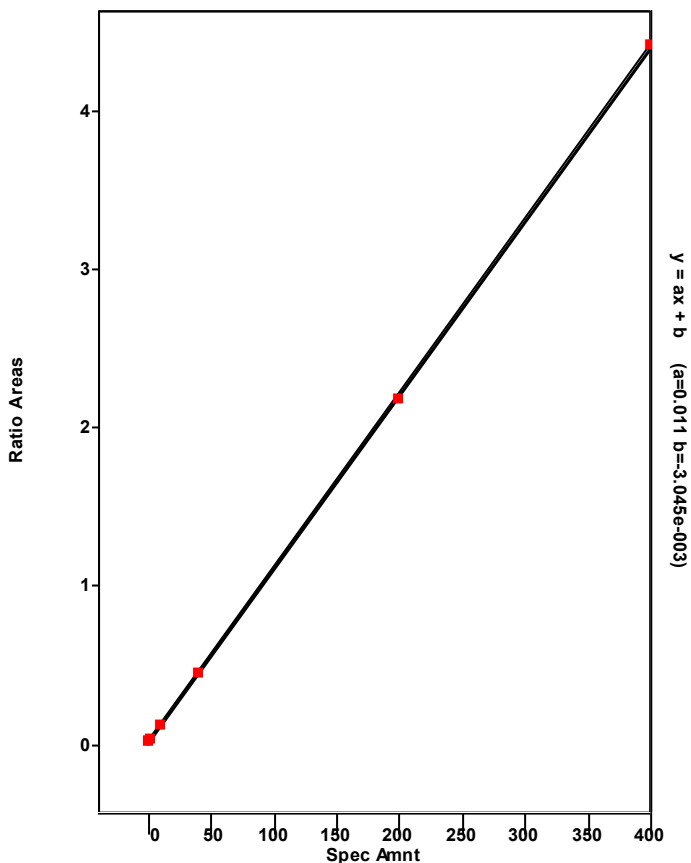
Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
d Name	Single native TCDD
	CAS# 41903-57-5
	49555
	39130
o (A)	0.7896
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	4.98
recovery (A)	50
	0.0000



Entry: Total Tetrachlorodibenzo-p-dioxin__3 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

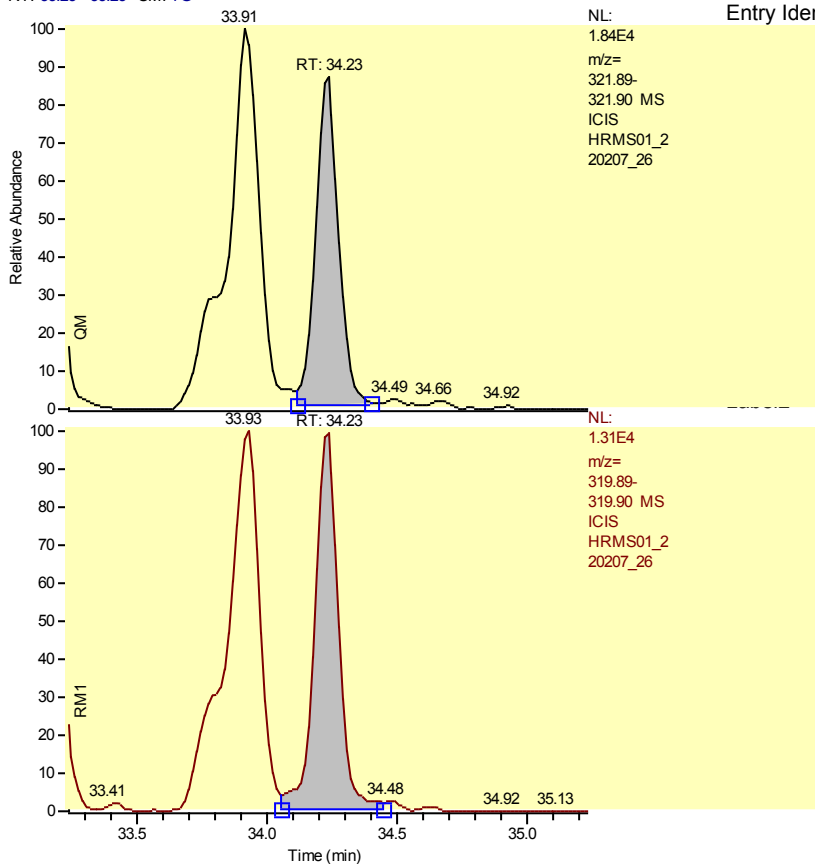
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G

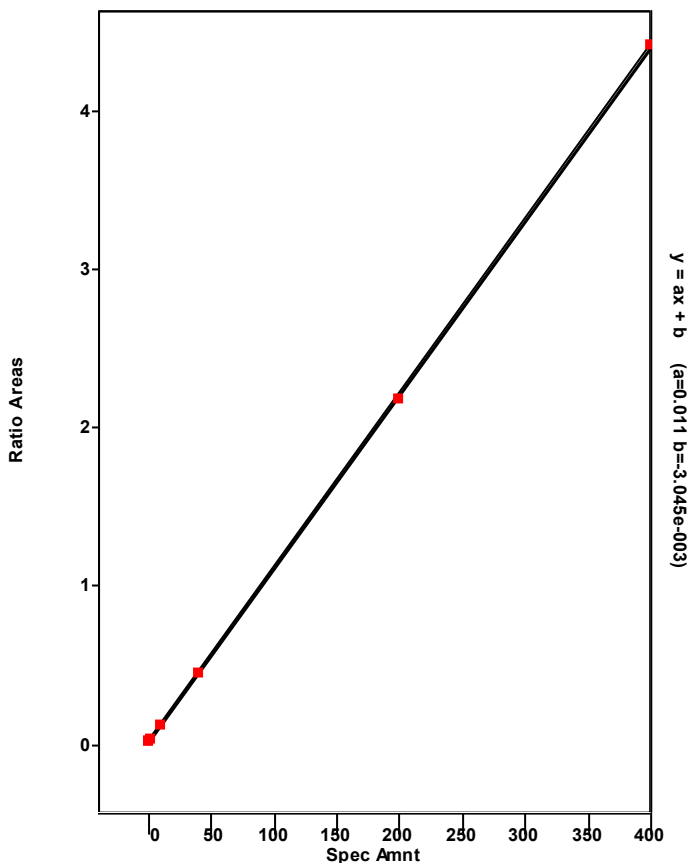


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
d Name	Single native TCDD
	CAS# 41903-57-5
	101146
	86838
o (A)	0.8585
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	10.55
ecovery (A)	106
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__4 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

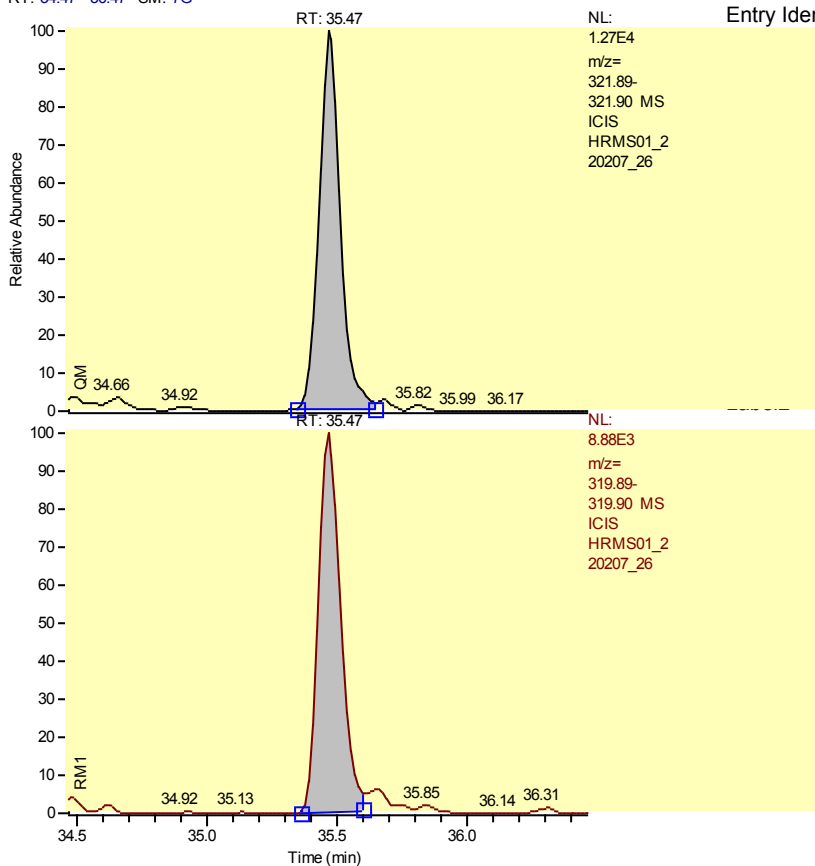
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 34.47 - 36.47 SM: 7G

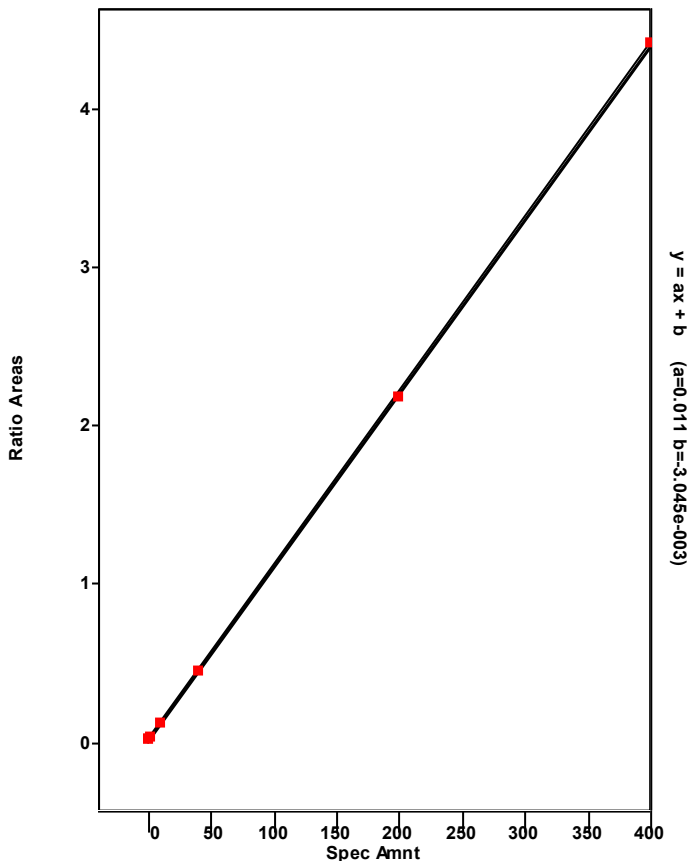


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
d Name	Single native TCDD
	CAS# 41903-57-5
	76756
	55483
o (A)	0.7228
nit	0.6500 - 0.8900
Amount	10.00
d Amount (A)	7.42
recovery (A)	74
	0.0000

Entry: Total Tetrachlorodibenzo-p-dioxin__5 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

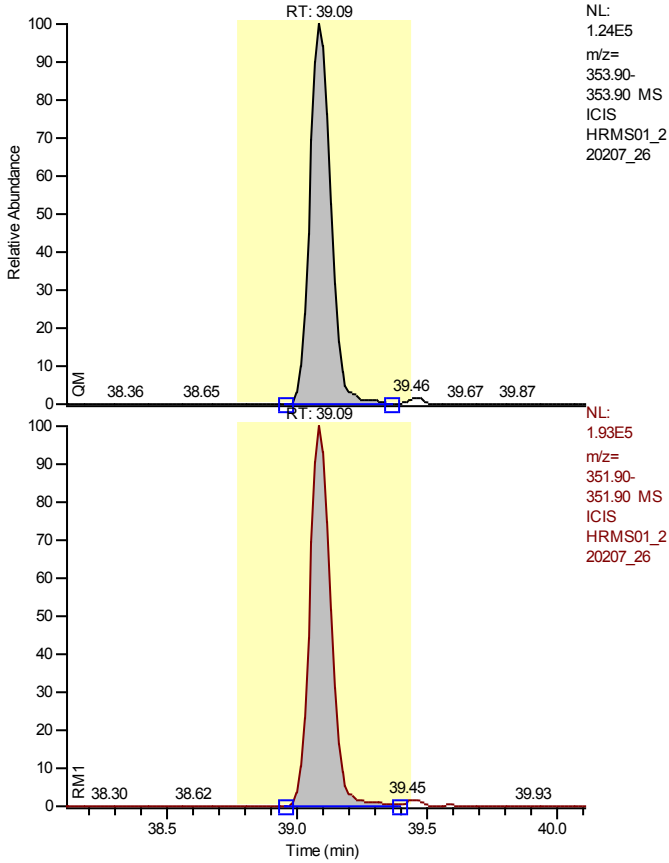
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.11 - 40.11 SM: 7G

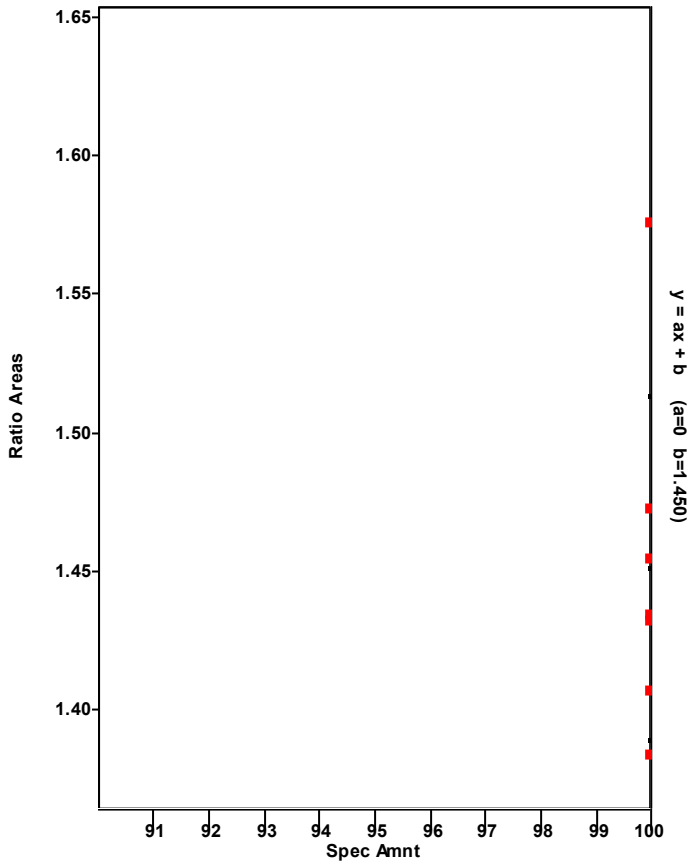


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	695325
RM1 Area	1083168
RM1 Ratio (A)	1.5578
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	80.86
Percent Recovery (A)	81
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

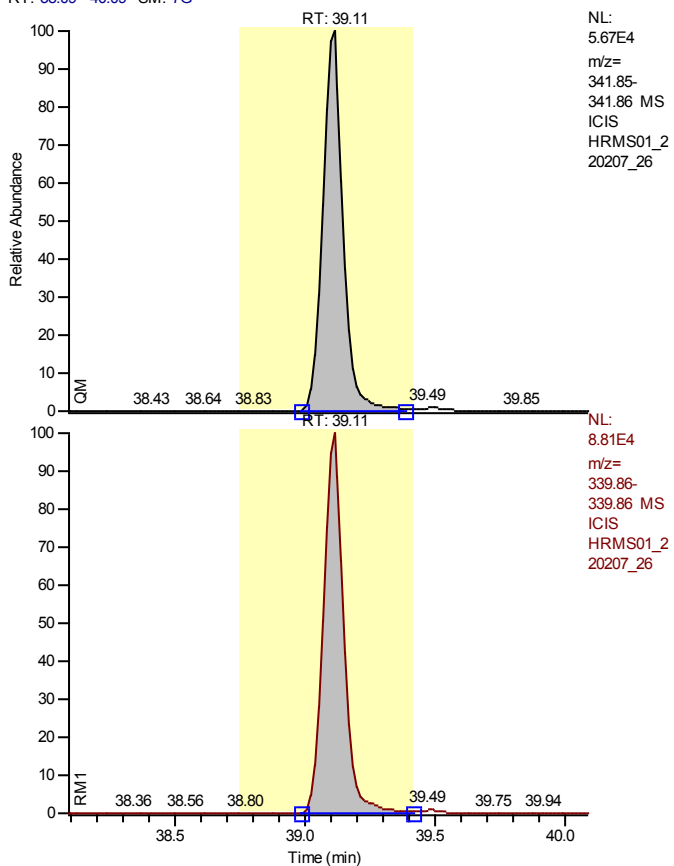
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G

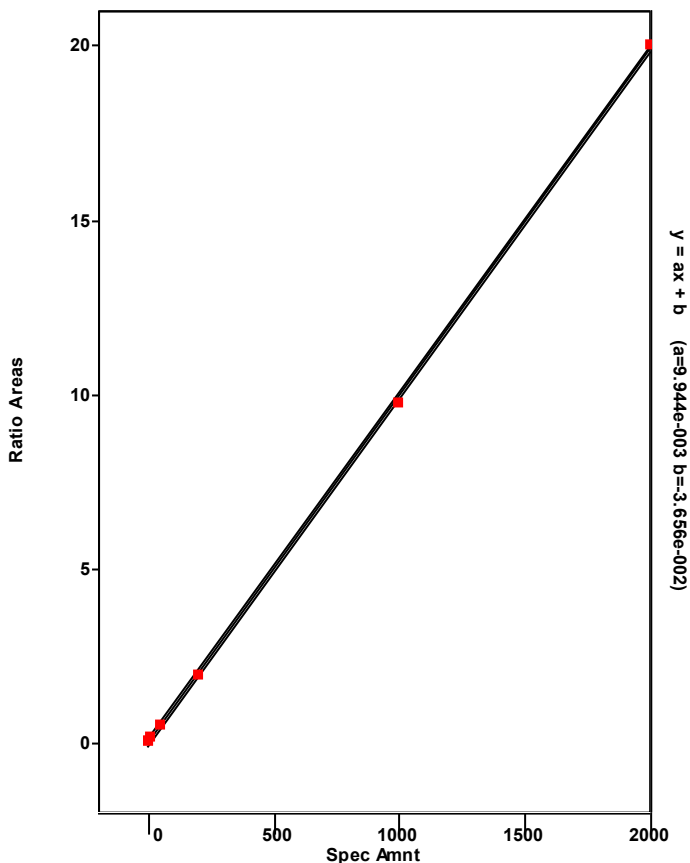


Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	310948
RM1 Area	485130
RM1 Ratio (A)	1.5602
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	45.21
Percent Recovery (A)	90
TEQ (A)	1.3564
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

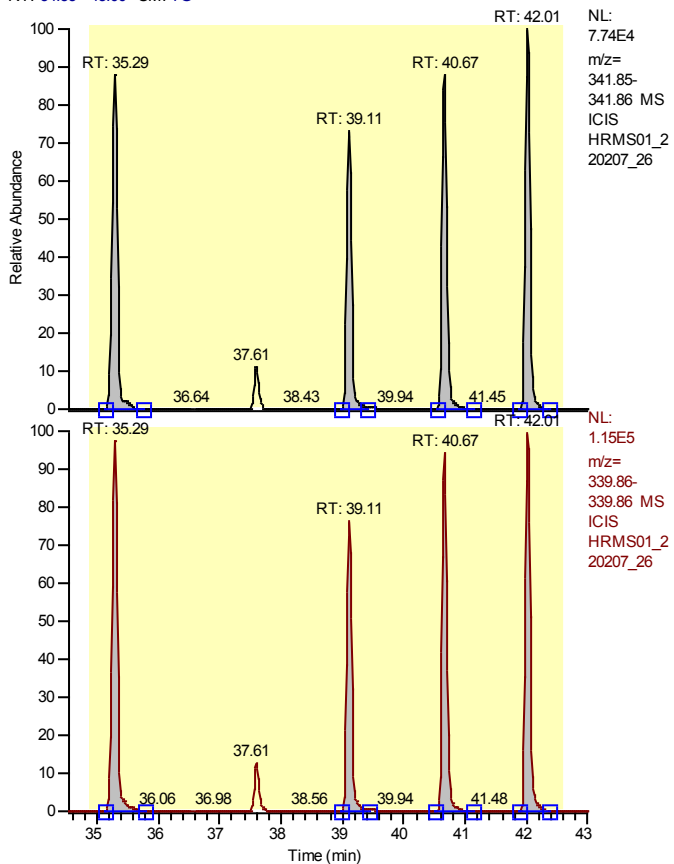
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.53 - 43.00 SM: 7G

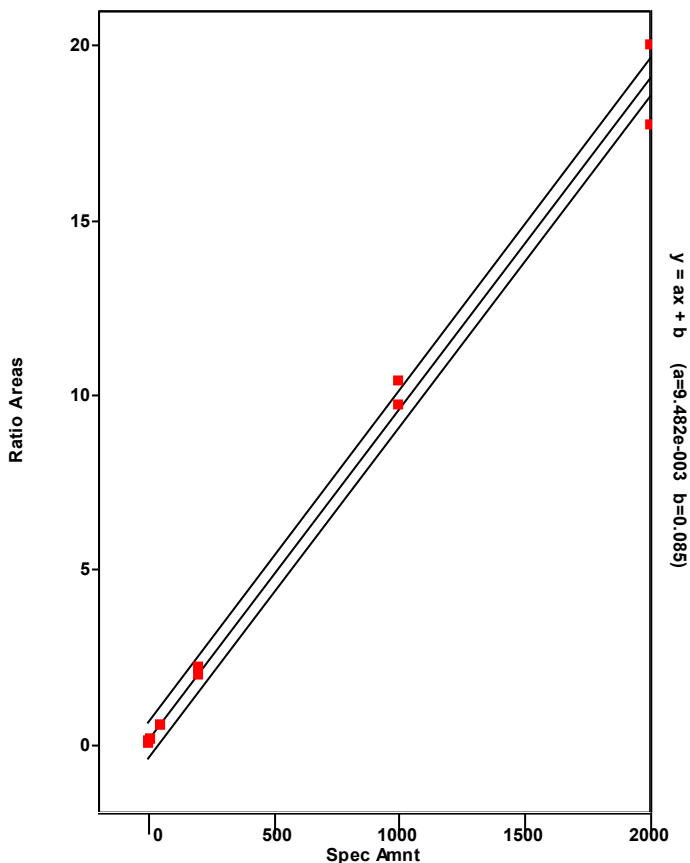


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	1499414
RM1 Area	2346227
RM1 Ratio (A)	1.5648
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	215.03
Percent Recovery (A)	430
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

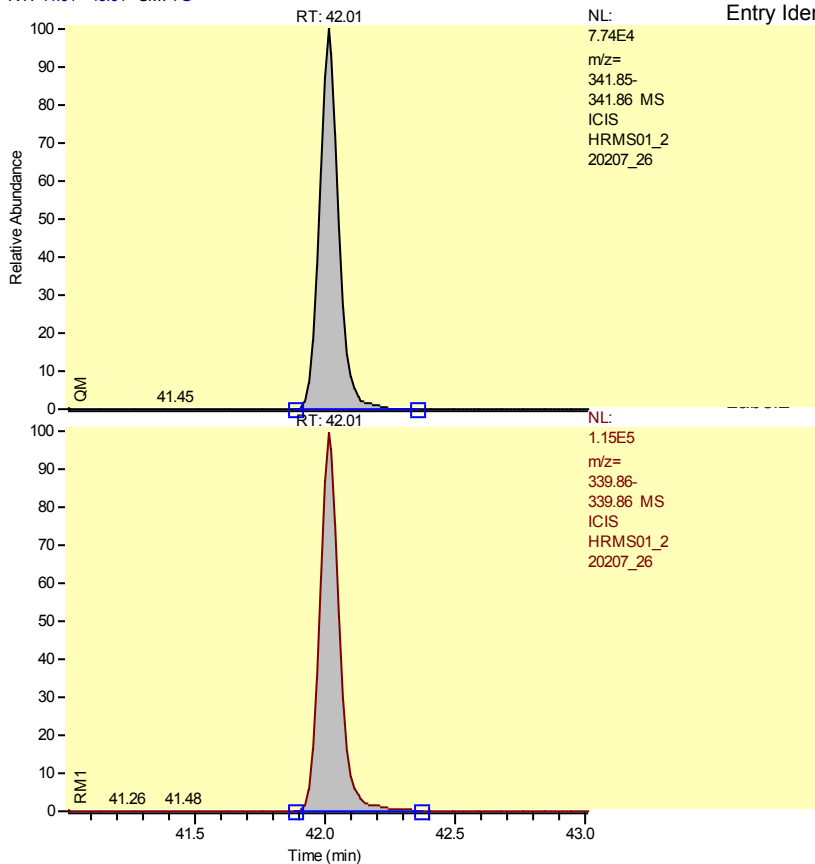
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 41.01 - 43.01 SM: 7G



NL:
7.74E4
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20207_26

Entry Identifier
d Name
o (A)
nit
Amount
d Amount (A)
recovery (A)

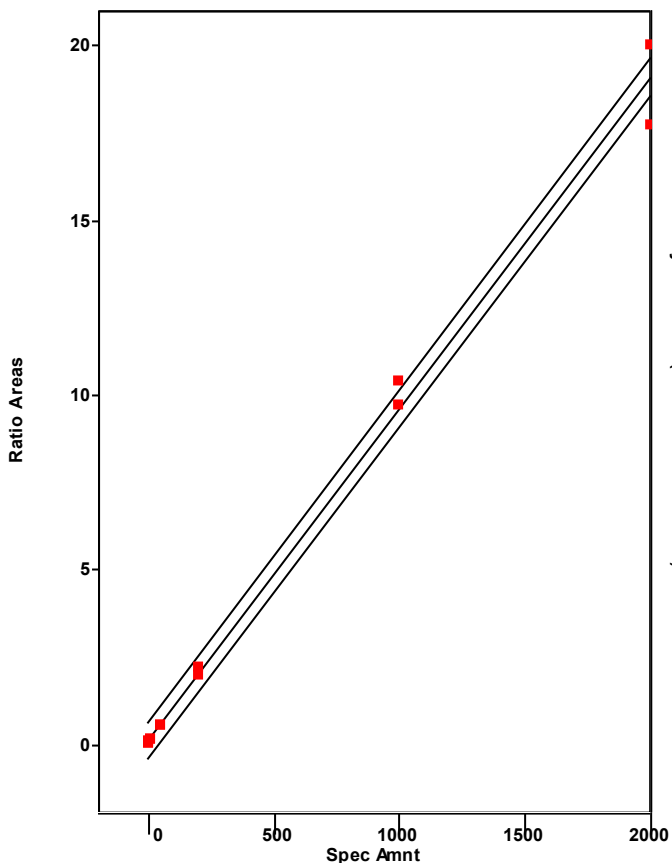
Total Pentachlorodibenzofuran__1
Single native PeCDF
CAS# 30402-15-4
405983
615225
1.5154
1.3200 - 1.7800
50.00
57.10
114
0.0000

NL:
1.15E5
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20207_26

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

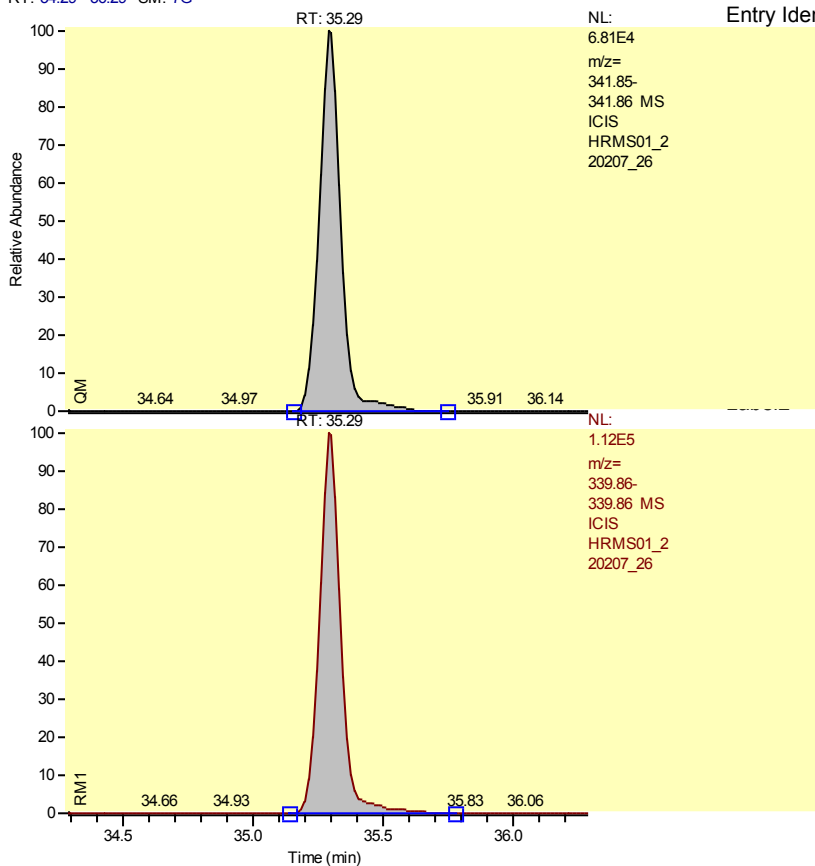
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 34.29 - 36.29 SM: 7G

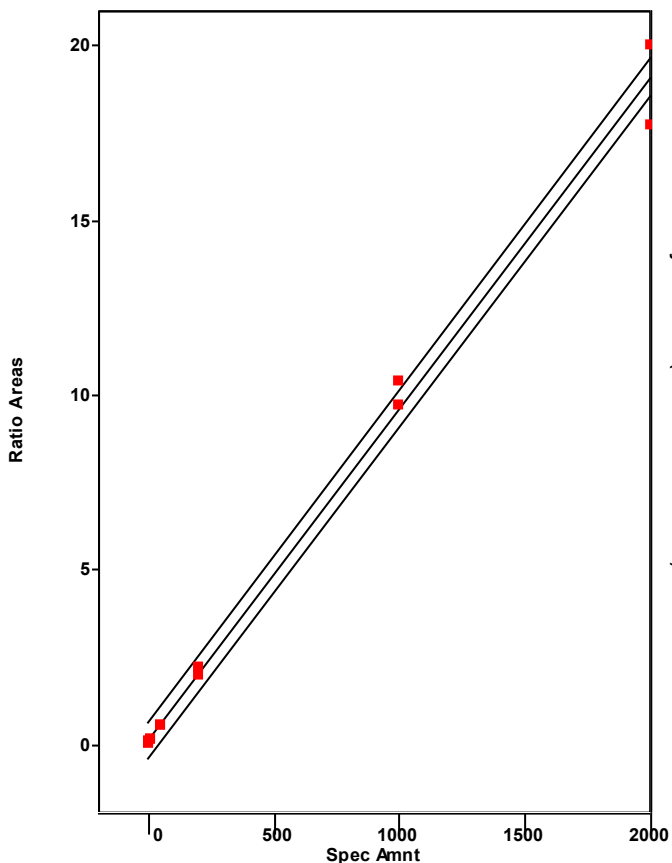


Entry Identifier	Total Pentachlorodibenzofuran__2
d Name	Single native PeCDF
	CAS# 30402-15-4
	419851
	680194
o (A)	1.6201
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	61.51
recovery (A)	123
	0.0000

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

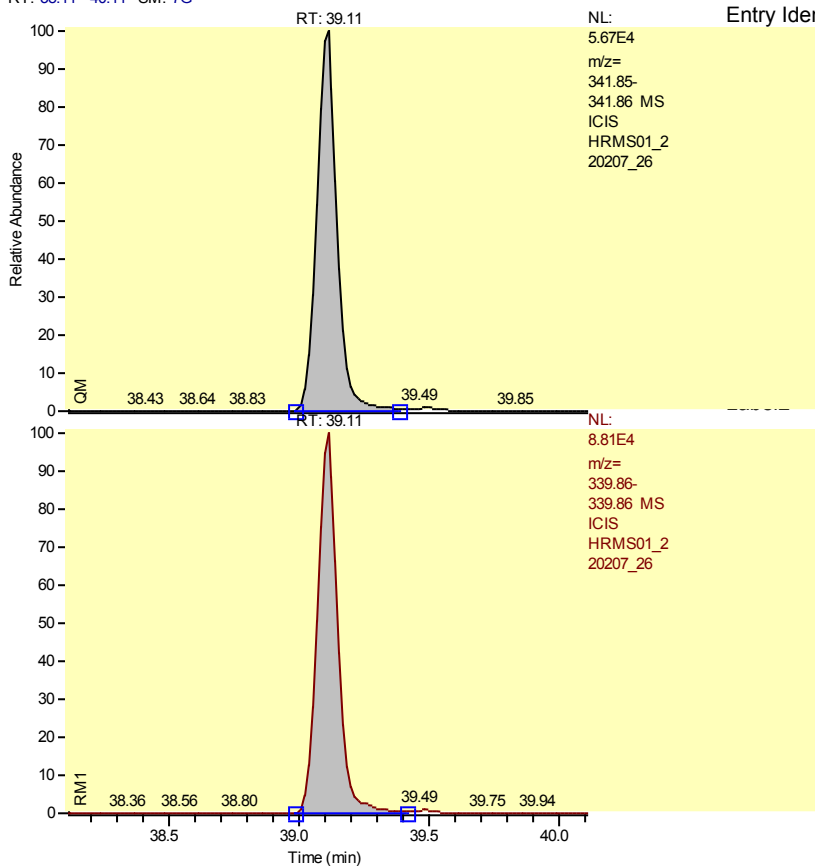
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.11-40.11 SM: 7G

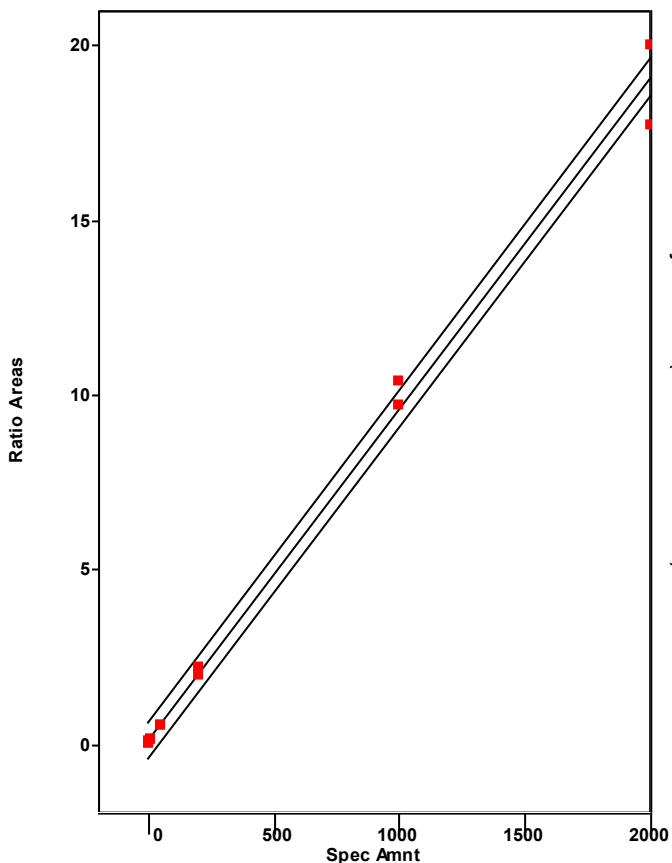


Entry Identifier	Total Pentachlorodibenzofuran__3
d Name	Single native PeCDF
	CAS# 30402-15-4
	310948
	485130
o (A)	1.5602
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	44.51
recovery (A)	89
	0.0000

Entry: Total Pentachlorodibenzofuran__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__3

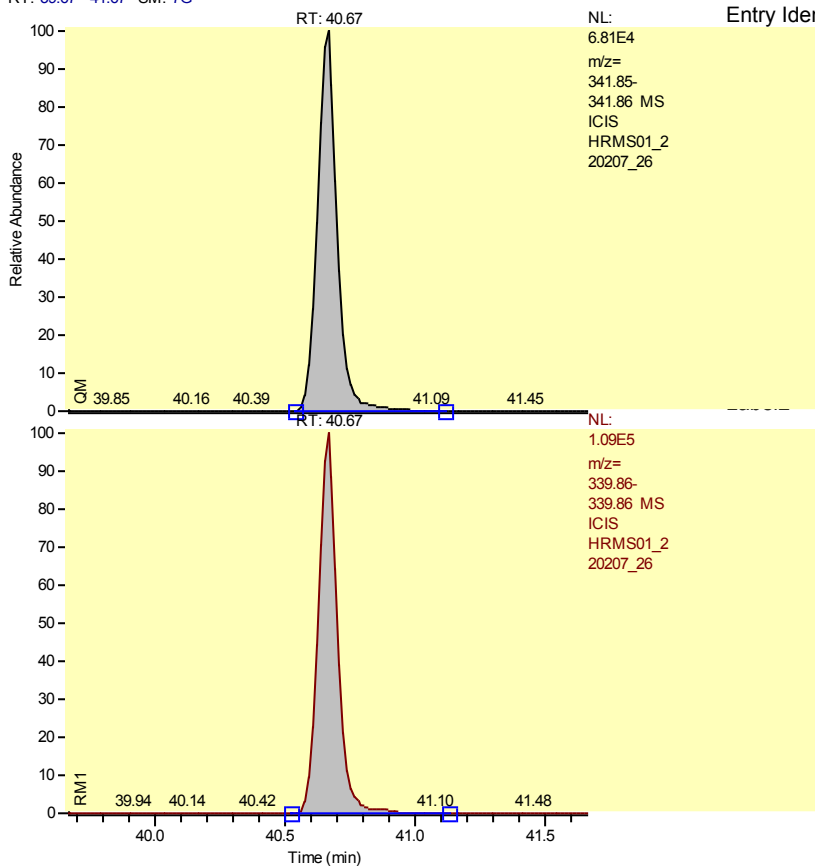
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.67 - 41.67 SM: 7G

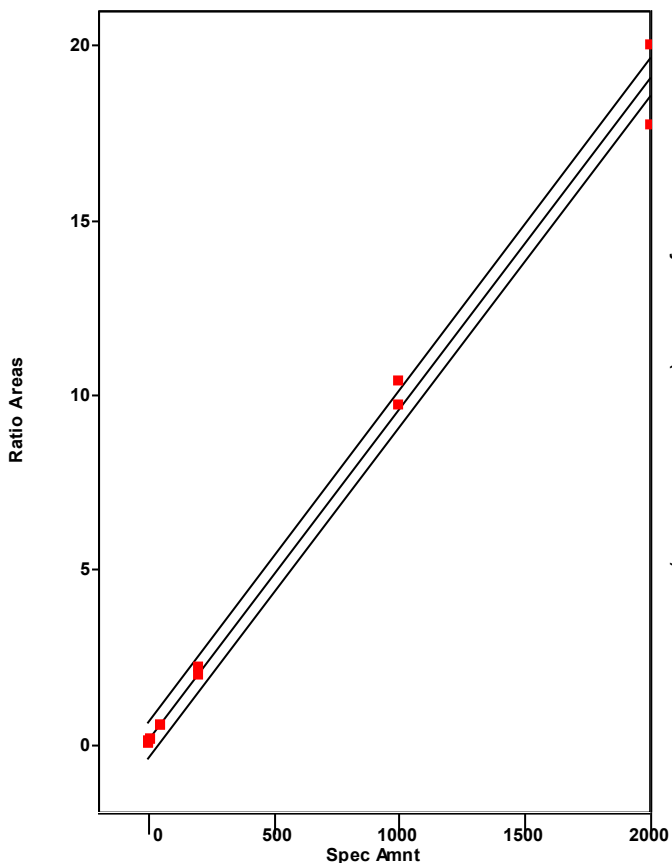


Entry Identifier	Total Pentachlorodibenzofuran__4
6.81E4	Single native PeCDF
m/z=	CAS# 30402-15-4
341.85-	362632
341.86 MS	565677
ICIS	1.5599
HRMS01_2	1.3200 - 1.7800
20207_26	Amount
	50.00
	Adjusted Amount (A)
	51.91
	Recovery (A)
	104
	0.0000

Entry: Total Pentachlorodibenzofuran__4 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__4

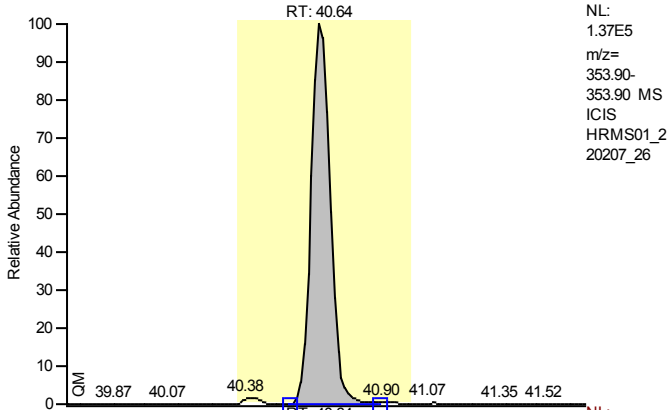
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

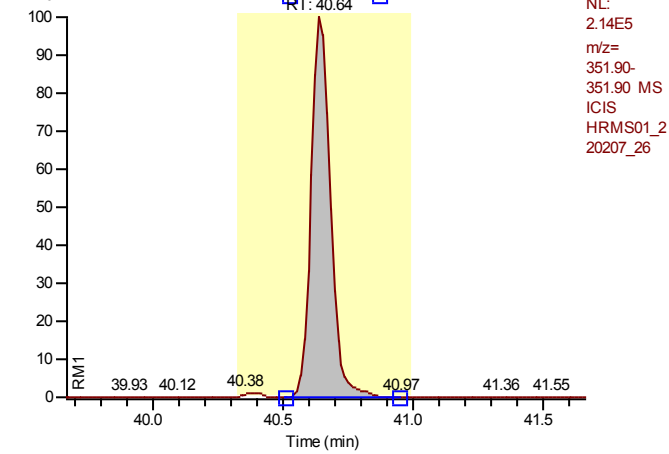
Entry Parameters

RT: 39.66 - 41.66 SM: 7G



NL:
 1.37E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_26

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	705668
RM1 Area	1104274
RM1 Ratio (A)	1.5649
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	87.45
Percent Recovery (A)	87
TEQ (A)	0.0000
Label2	

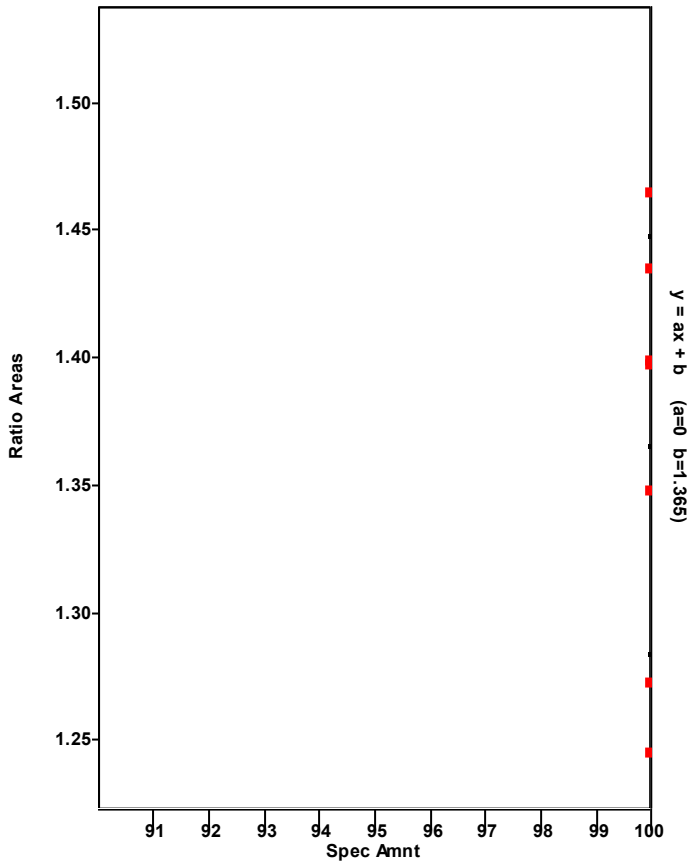


NL:
 2.14E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_26

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

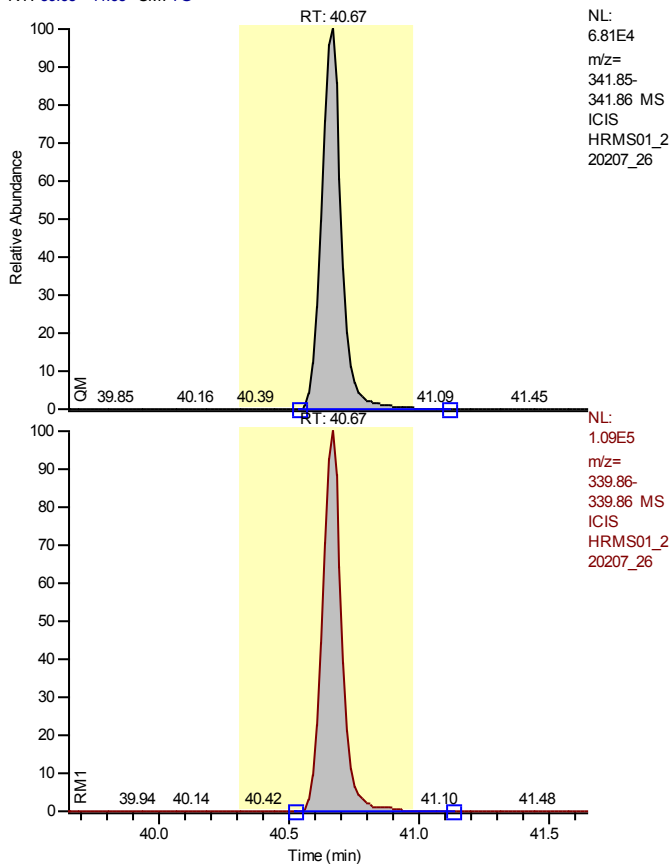
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G



NL:
6.81E4
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20207_26

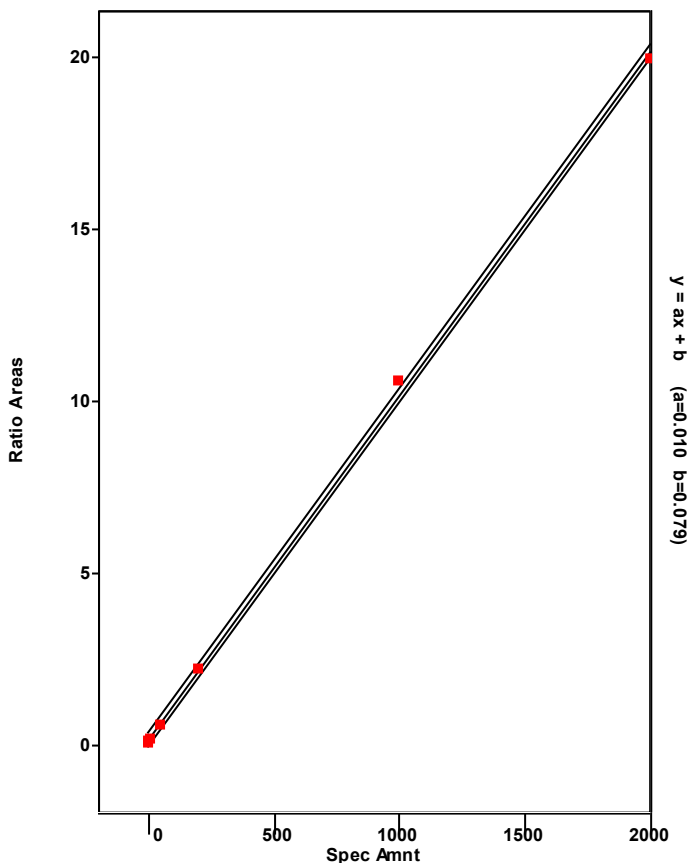
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	362632
RM1 Area	565677
RM1 Ratio (A)	1.5599
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	47.29
Percent Recovery (A)	95
TEQ (A)	14.1862
Label2	

NL:
1.09E5
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20207_26

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

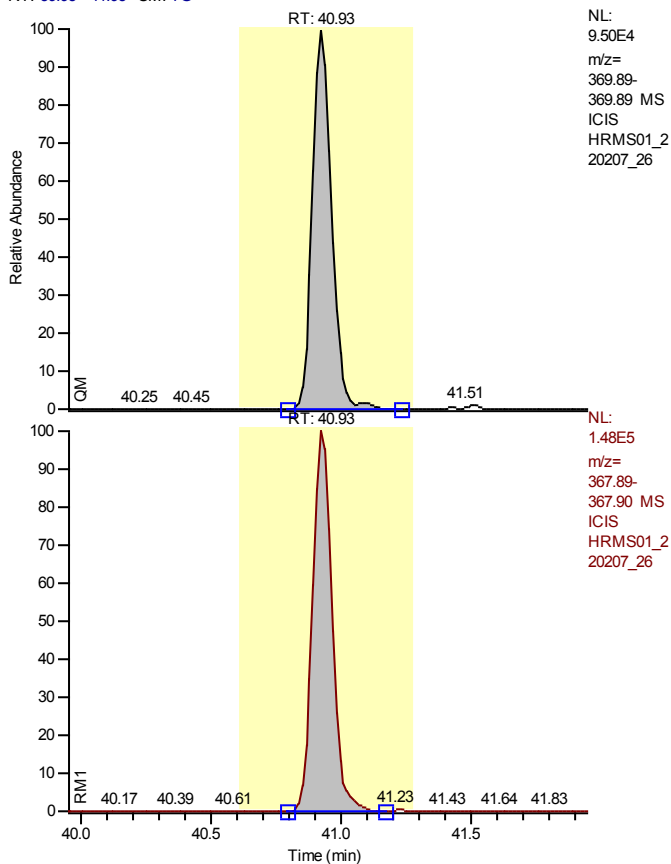
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

RT: 39.95 - 41.95 SM: 7G

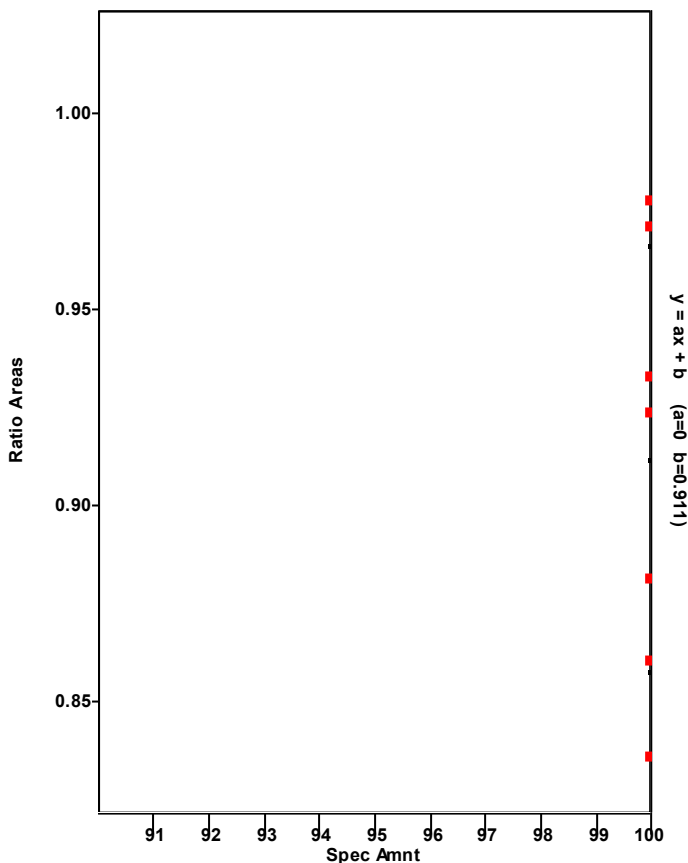


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	479281
RM1 Area	757676
RM1 Ratio (A)	1.5809
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	89.51
Percent Recovery (A)	90
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

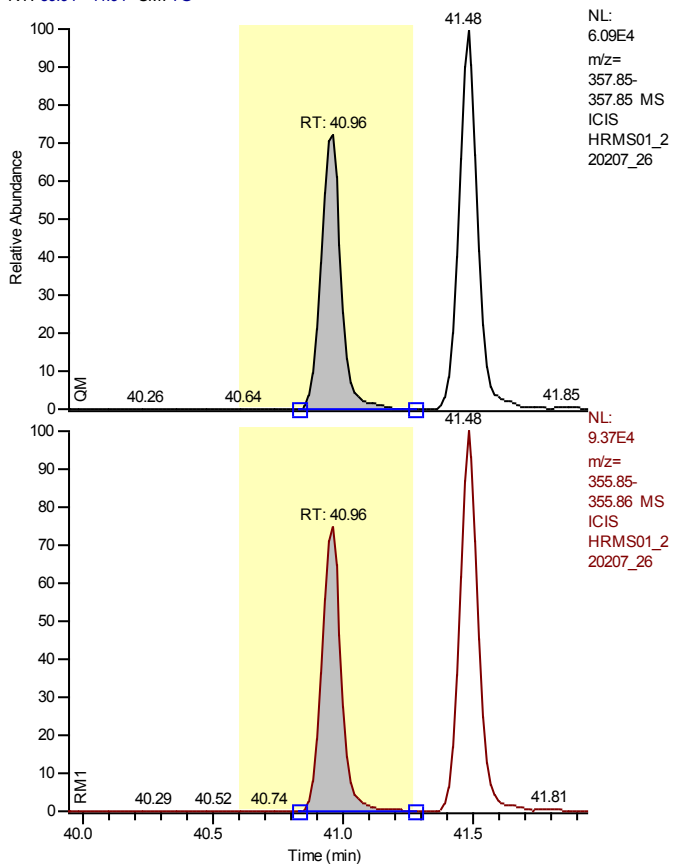
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G

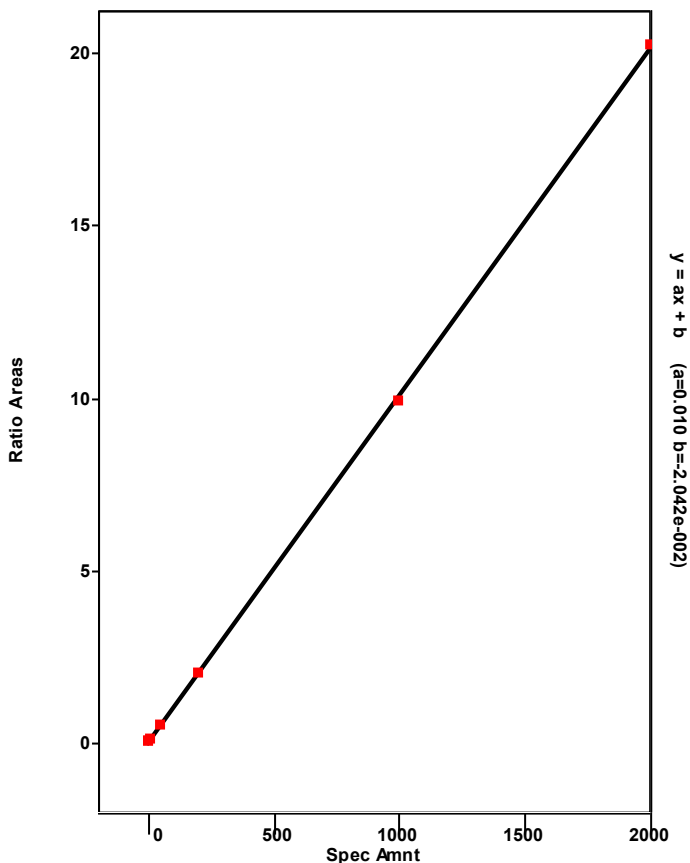


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	235506
RM1 Area	366942
RM1 Ratio (A)	1.5581
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	48.56
Percent Recovery (A)	97
TEQ (A)	48.5554
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

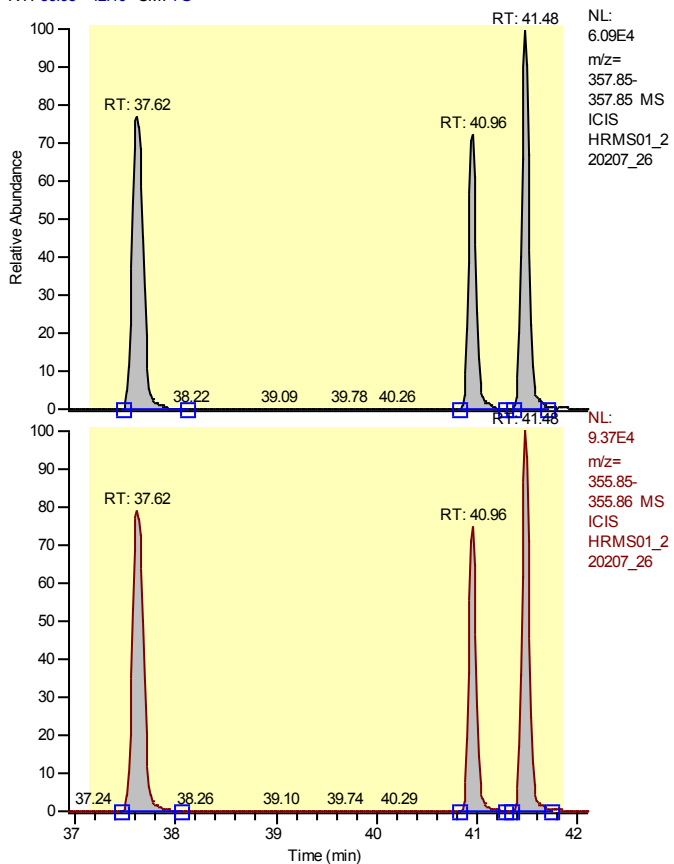
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.93 - 42.10 SM: 7G

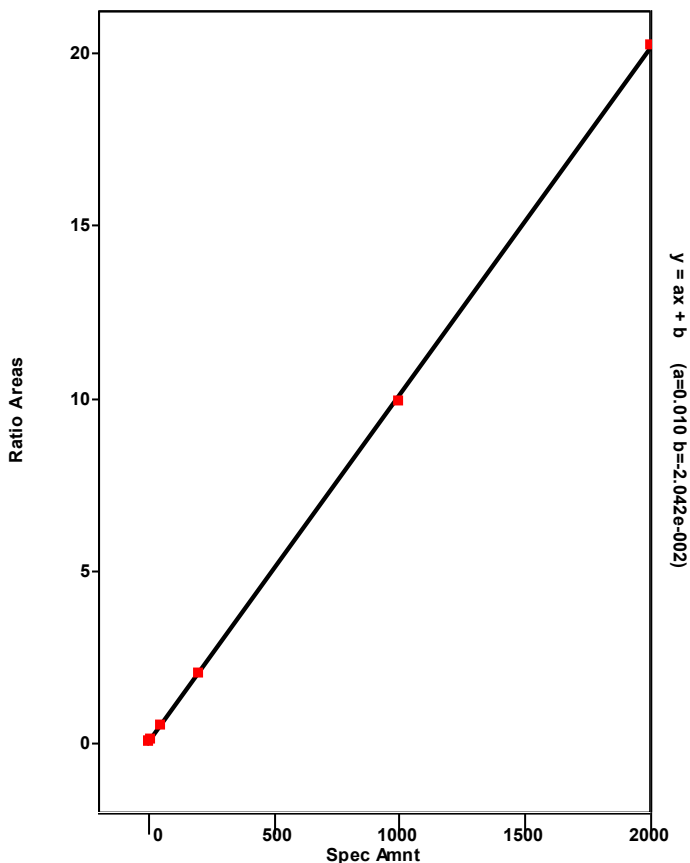


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	911038
RM1 Area	1423537
RM1 Ratio (A)	1.5625
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	188.16
Percent Recovery (A)	376
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

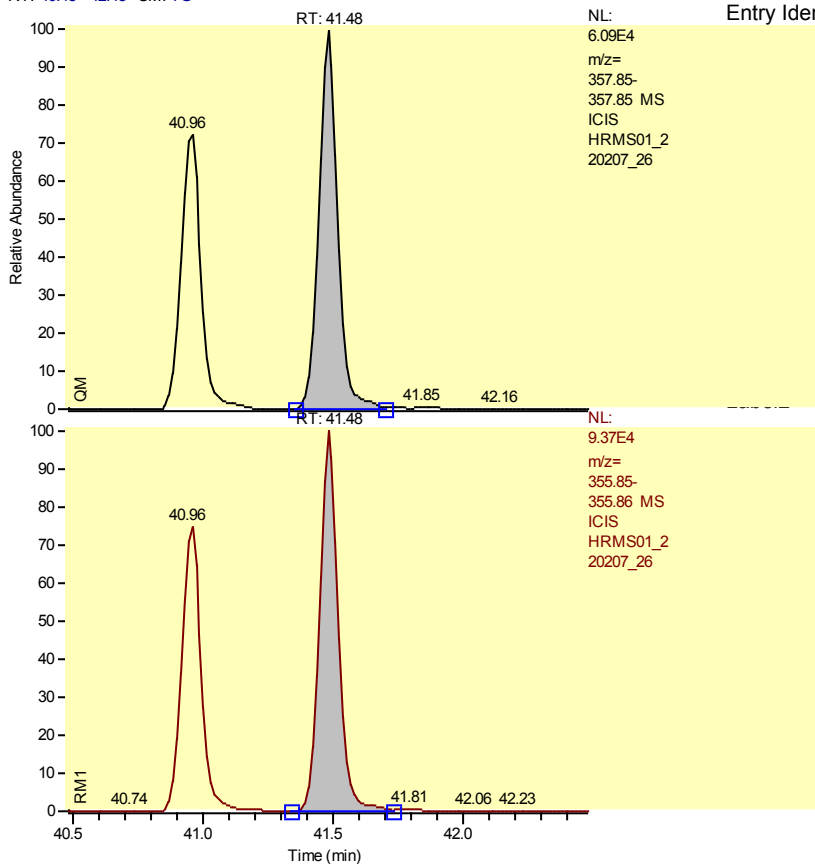
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 40.48 - 42.48 SM: 7G

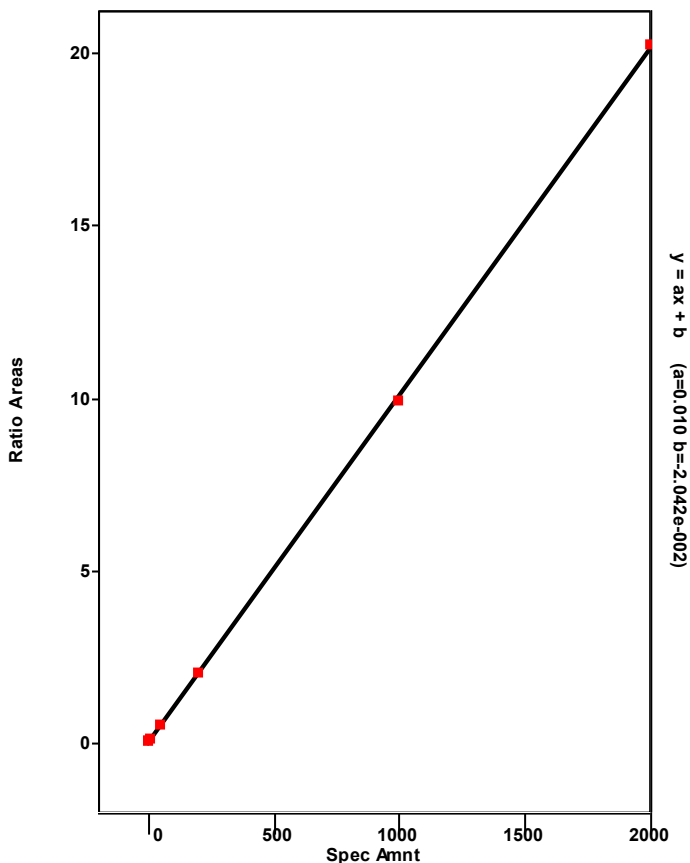


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
d Name	Single native PeCDD
	CAS# 36088-22-9
	308723
	477056
o (A)	1.5453
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	63.33
recovery (A)	127
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

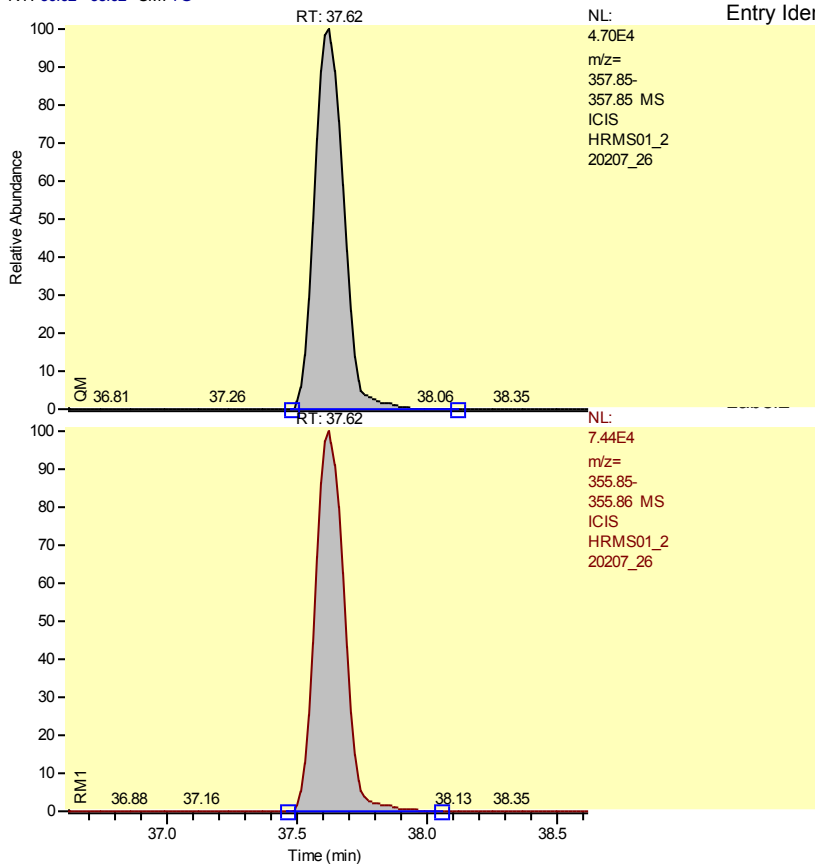
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.62 - 38.62 SM: 7G

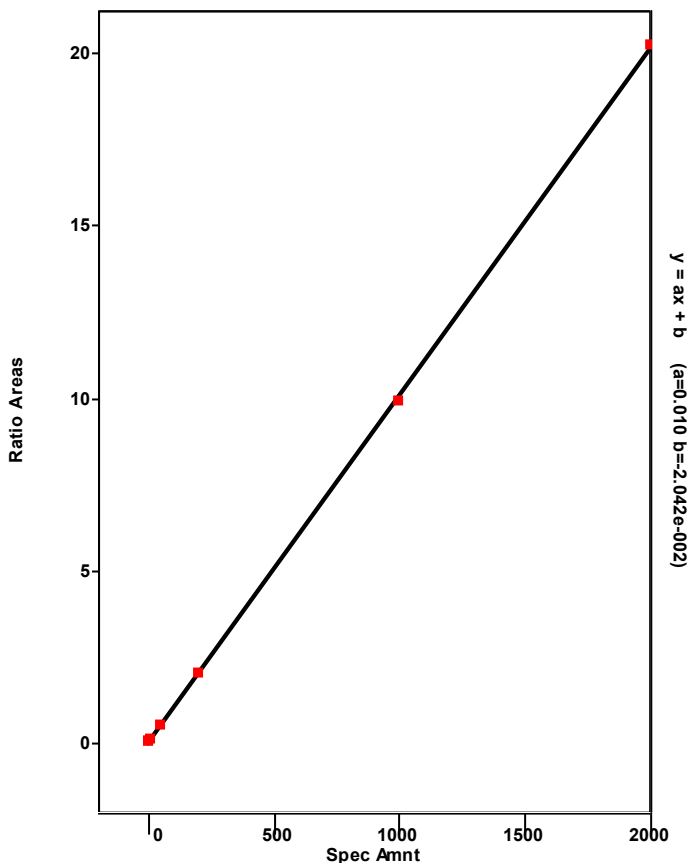


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
d Name	Single native PeCDD
	CAS# 36088-22-9
	366810
	579538
o (A)	1.5799
nit	1.3200 - 1.7800
Amount	50.00
d Amount (A)	76.27
recovery (A)	153
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

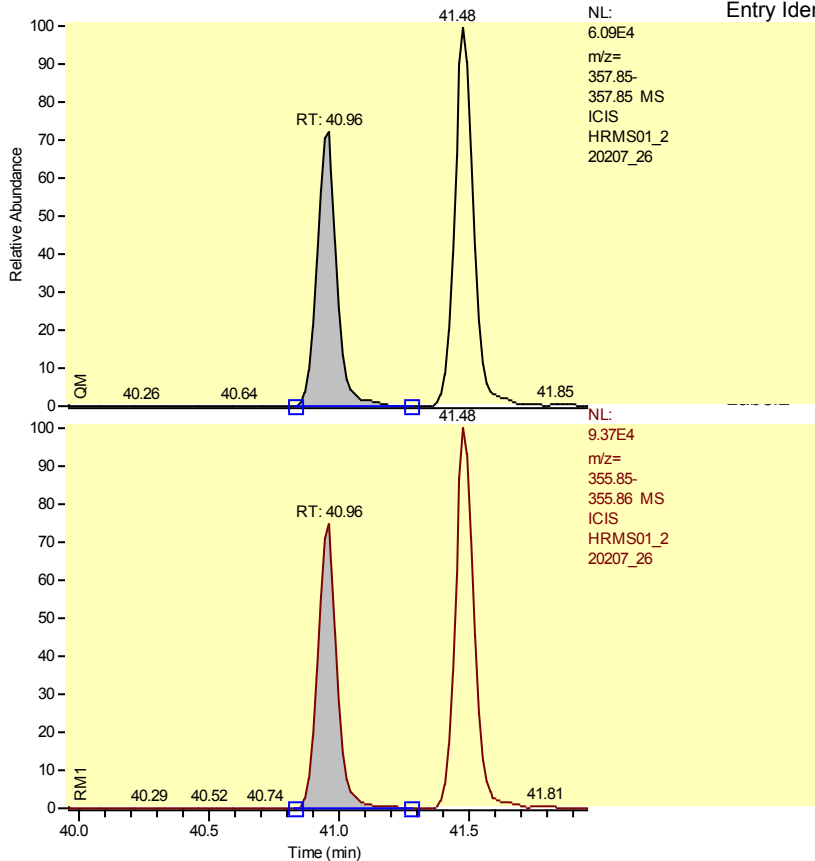
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G

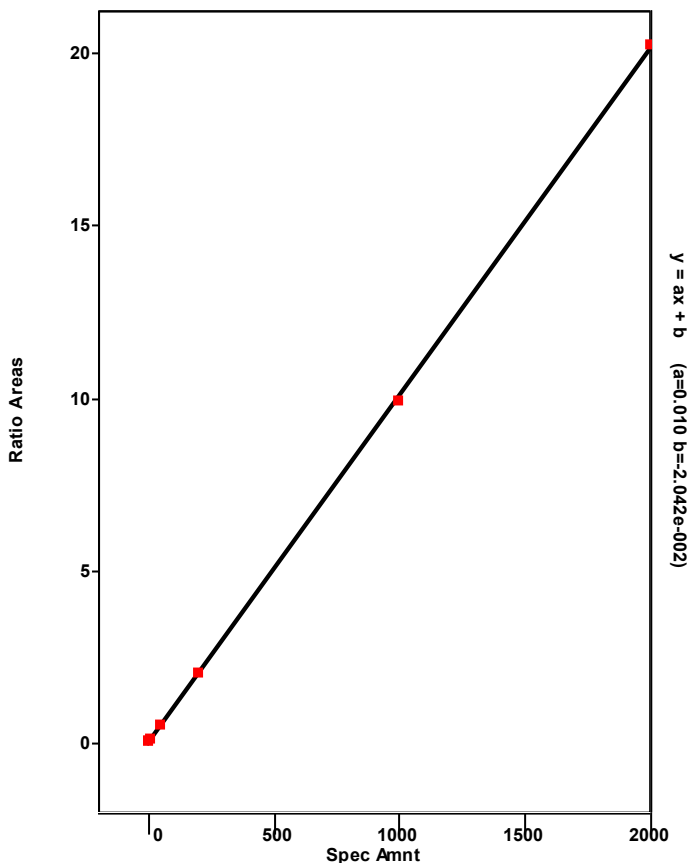


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
	CAS# 36088-22-9
	235506
	366942
Area (A)	1.5581
Unit	1.3200 - 1.7800
Amount	50.00
Adjusted Amount (A)	48.56
Recovery (A)	97
	0.0000

Entry: Total Pentachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

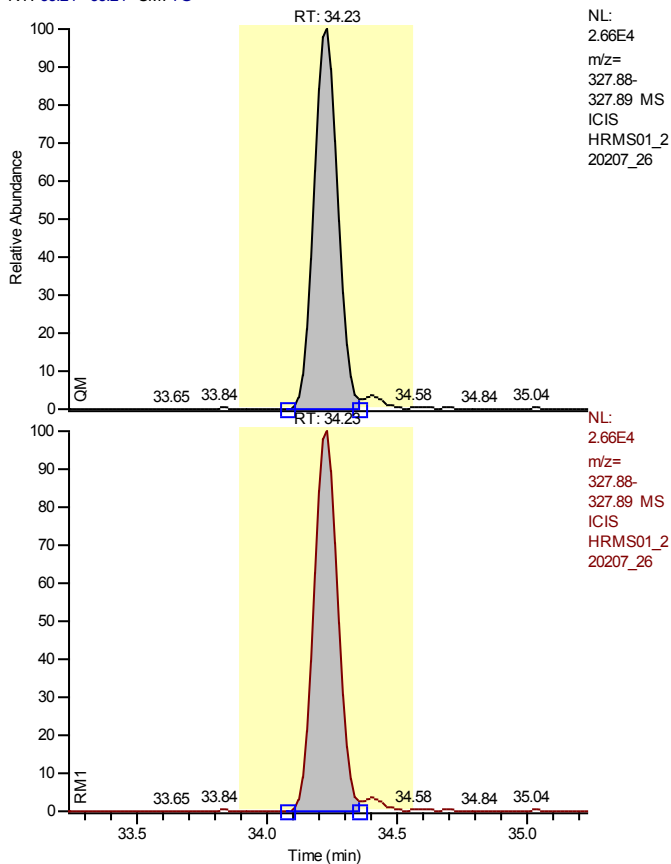
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G



NL:
2.66E4
m/z=
327.88-
327.89 MS
ICIS
HRMS01_2
20207_26

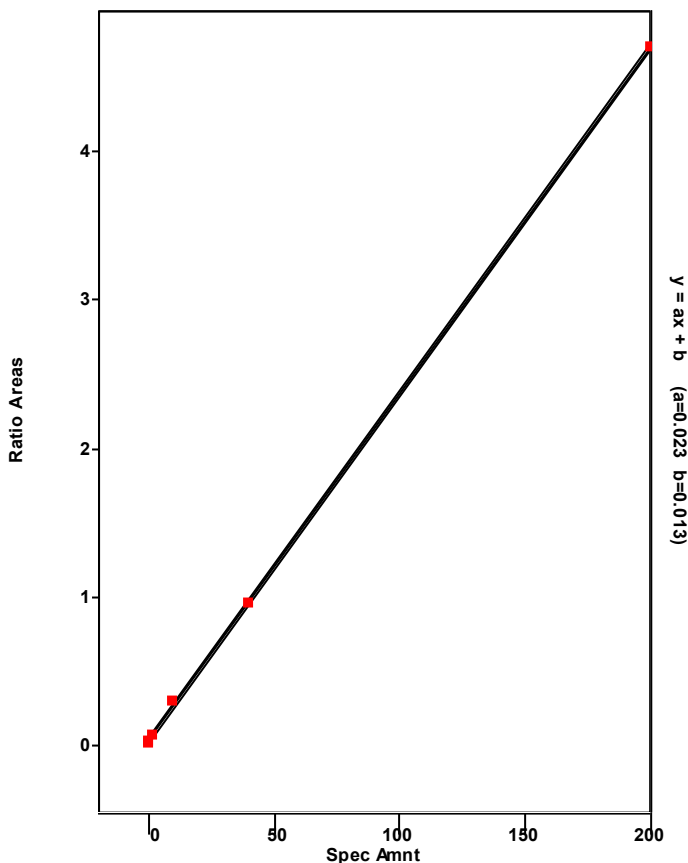
NL:
2.66E4
m/z=
327.88-
327.89 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	168289
RM1 Area	168289
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.86
Percent Recovery (A)	89
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

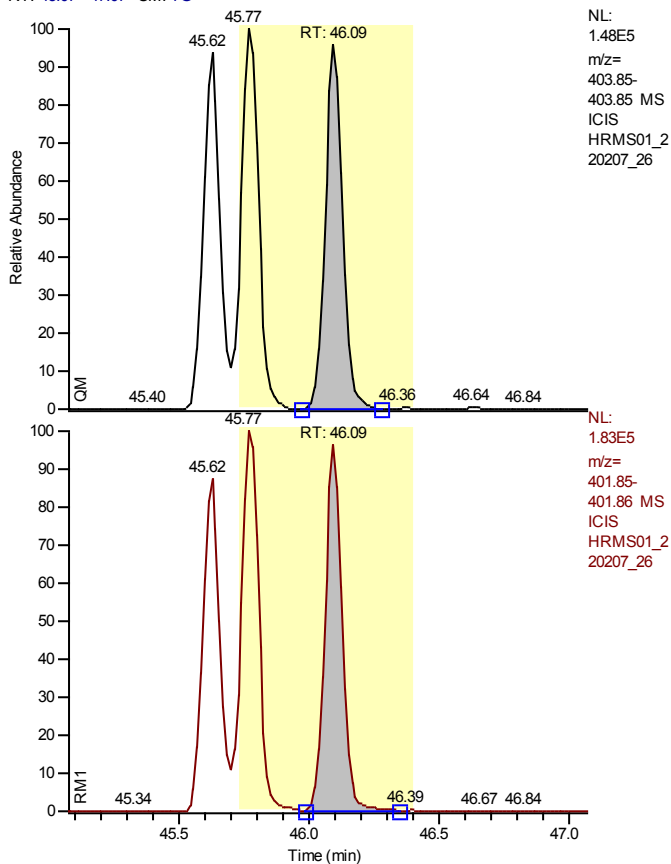
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
1.48E5
m/z=
403.85-
403.85 MS
ICIS
HRMS01_2
20207_26

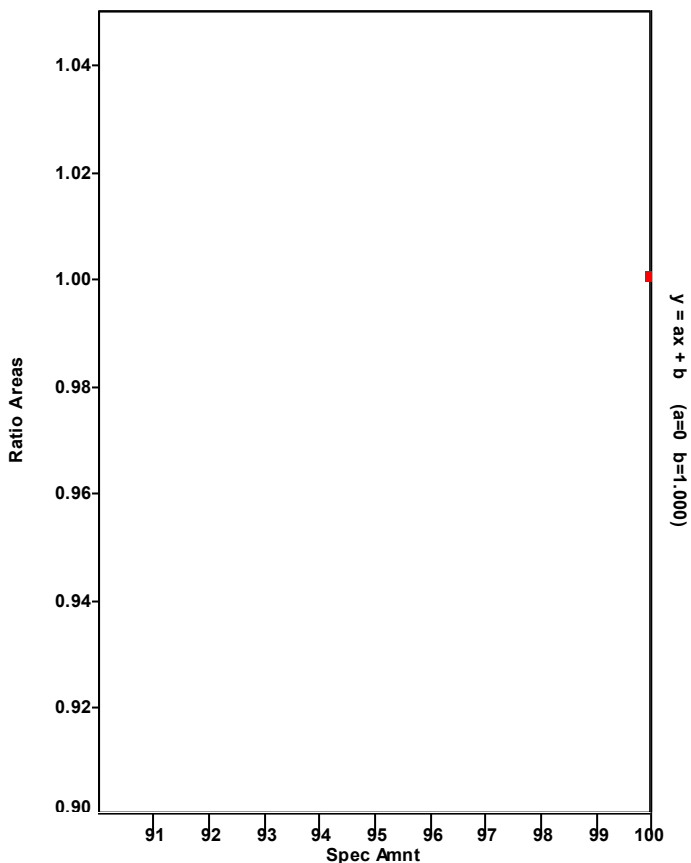
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	653602
RM1 Area	804720
RM1 Ratio (A)	1.2312
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

NL:
1.83E5
m/z=
401.85-
401.86 MS
ICIS
HRMS01_2
20207_26

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

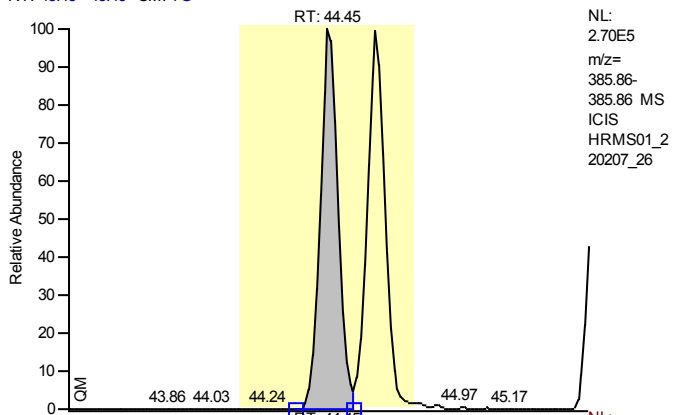
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

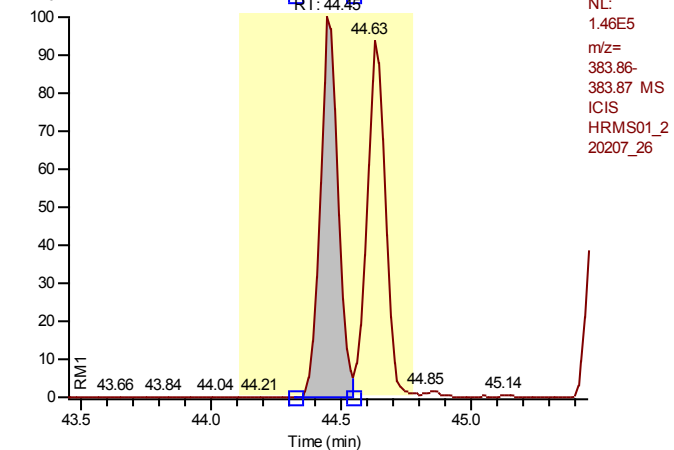
Entry Parameters

RT: 43.45 - 45.45 SM: 7G



NL:
2.70E5
m/z=
385.86-
385.86 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1286086
RM1 Area	698835
RM1 Ratio (A)	0.5434
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	121.15
Percent Recovery (A)	121
TEQ (A)	0.0000
Label2	

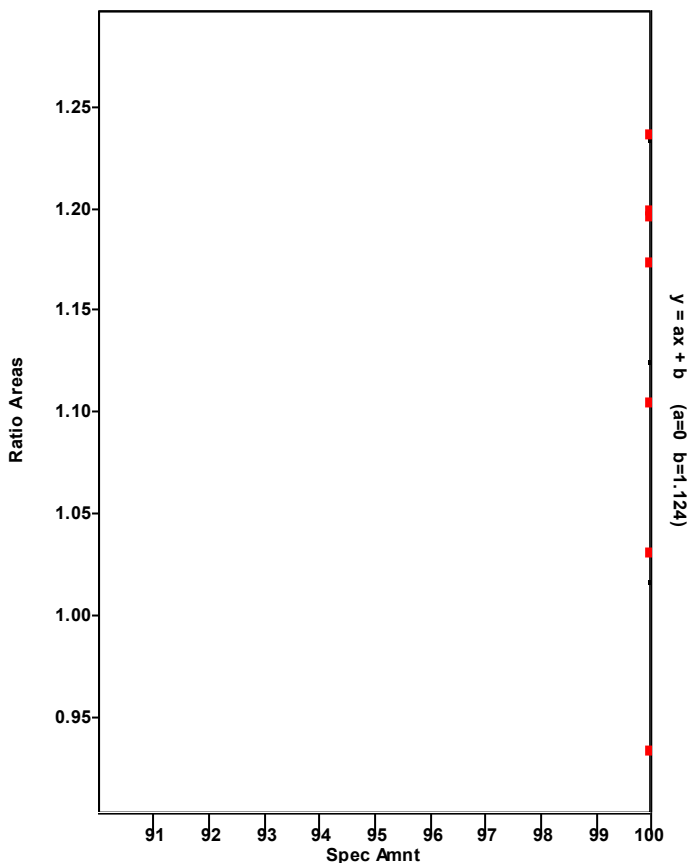


NL:
1.46E5
m/z=
383.86-
383.87 MS
ICIS
HRMS01_2
20207_26

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

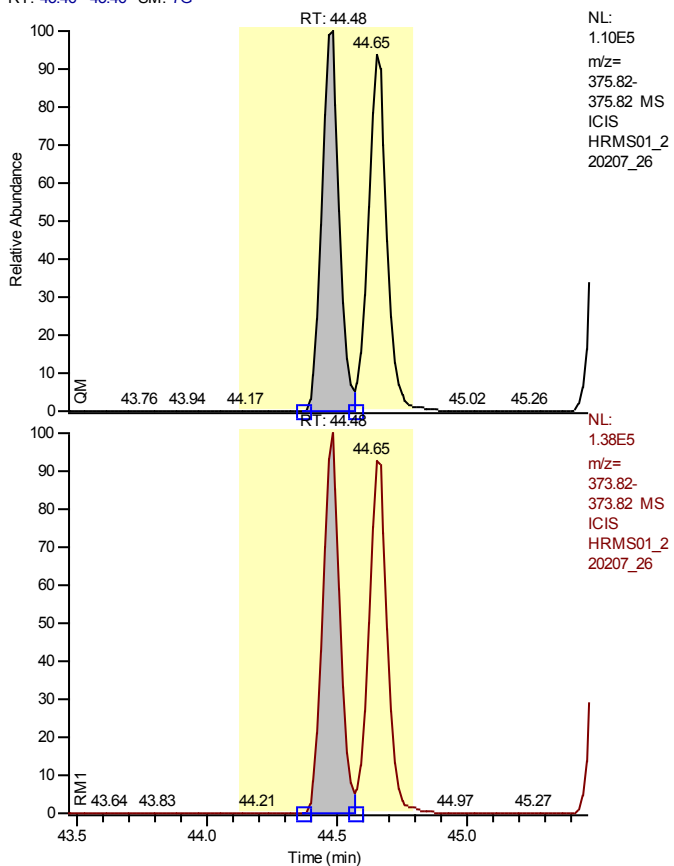
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.46 - 45.46 SM: 7G

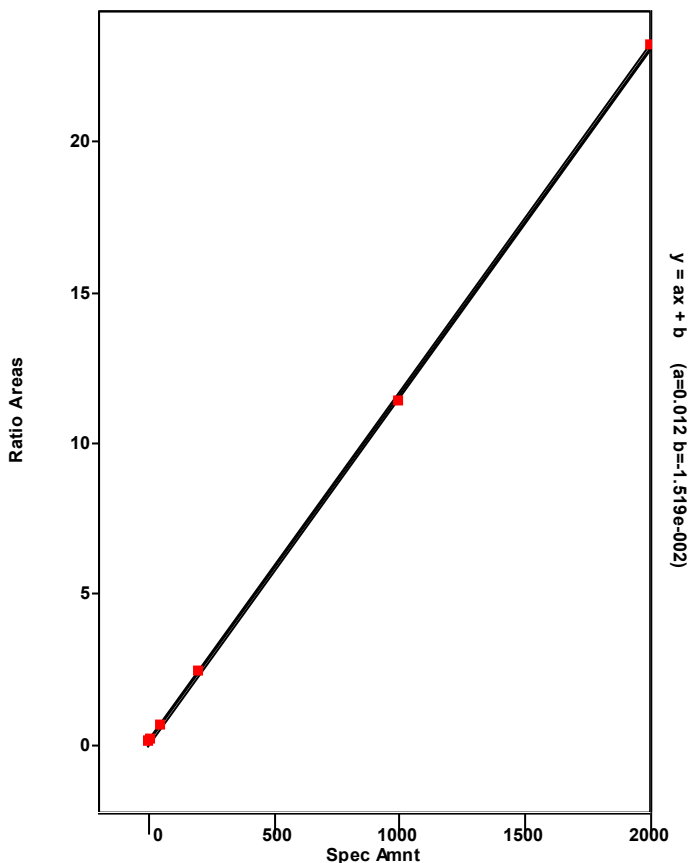


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	514104
RM1 Area	636429
RM1 Ratio (A)	1.2379
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.29
Percent Recovery (A)	101
TEQ (A)	5.0292
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

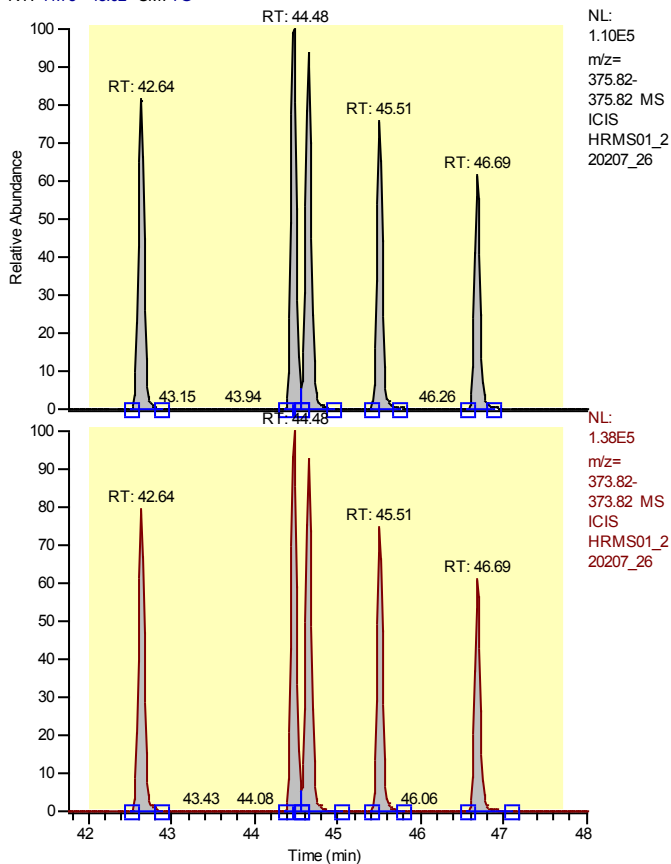
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.75 - 48.02 SM: 7G

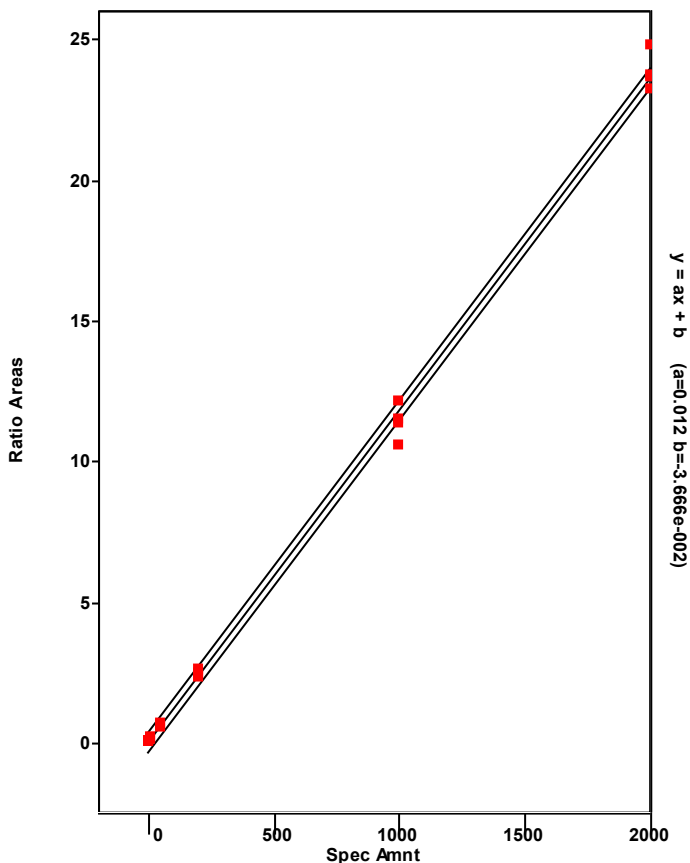


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	2200156
RM1 Area	2728525
RM1 Ratio (A)	1.2402
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	207.68
Percent Recovery (A)	415
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

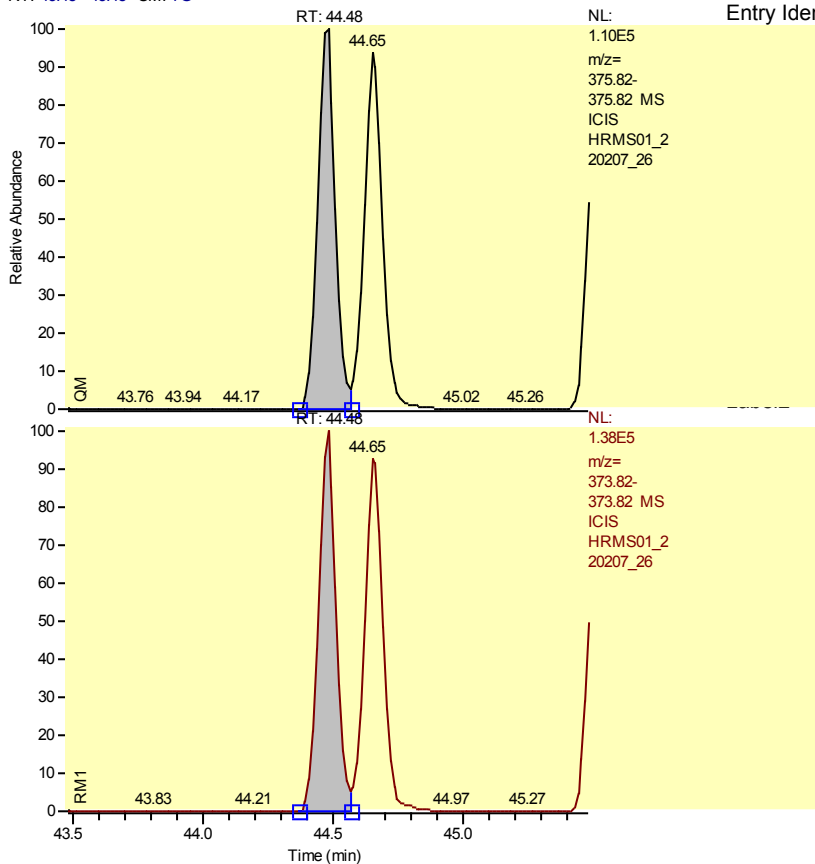
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.48 - 45.48 SM: 7G

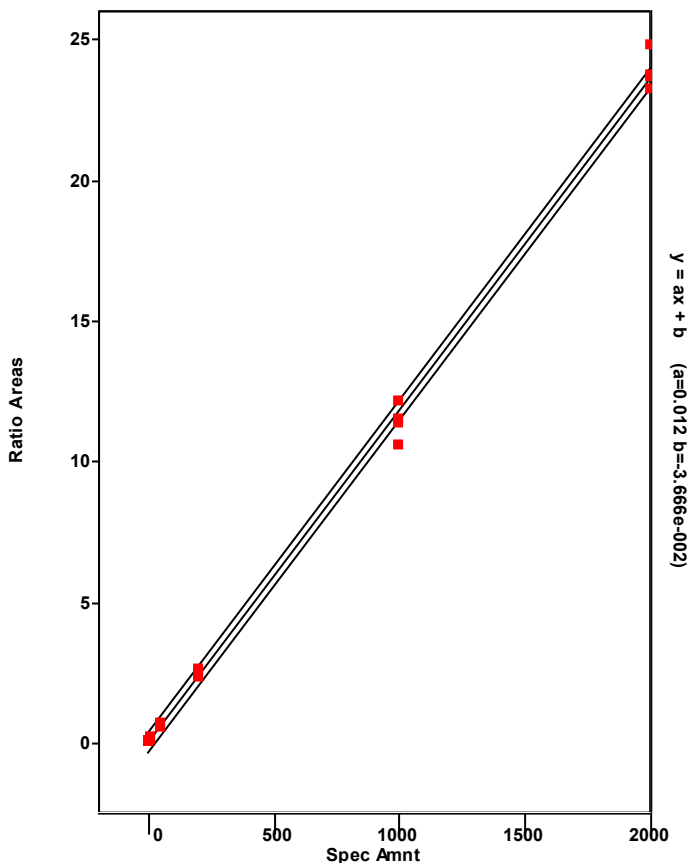


Entry Identifier	Total Hexachlorodibenzofuran__1
d Name	Single native HxCDF
	CAS# 55684-94-1
	514104
	636429
o (A)	1.2379
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	48.48
recovery (A)	97
	0.0000

Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

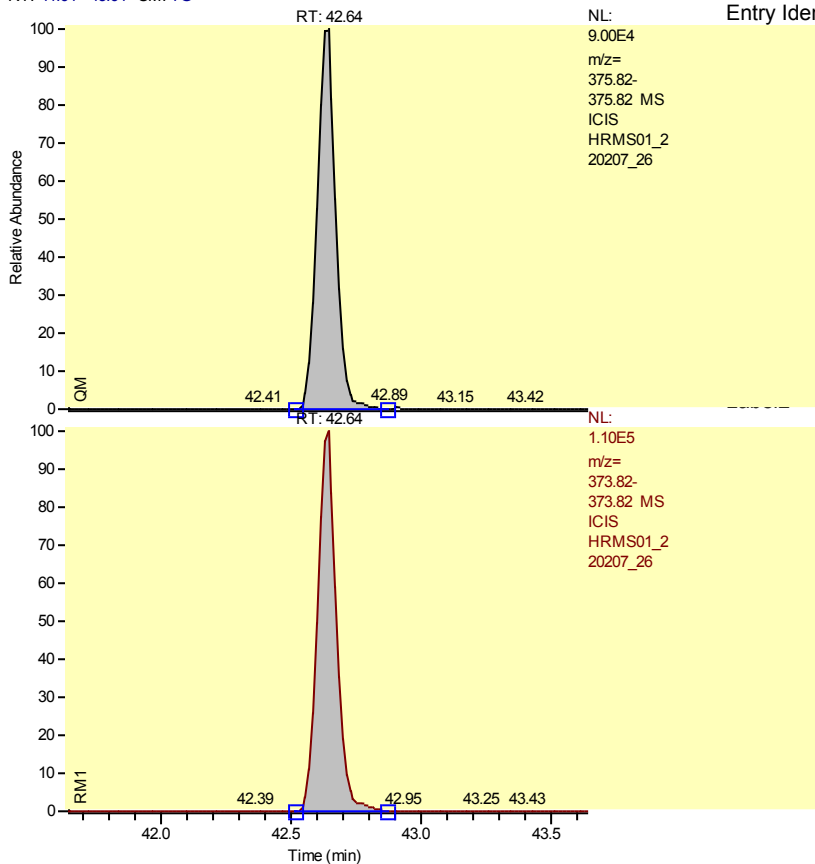
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 41.64 - 43.64 SM: 7G



NL:
 9.00E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_26

Entry Identifier
 d Name
 (A)
 nit
 Amount
 d Amount (A)
 recovery (A)

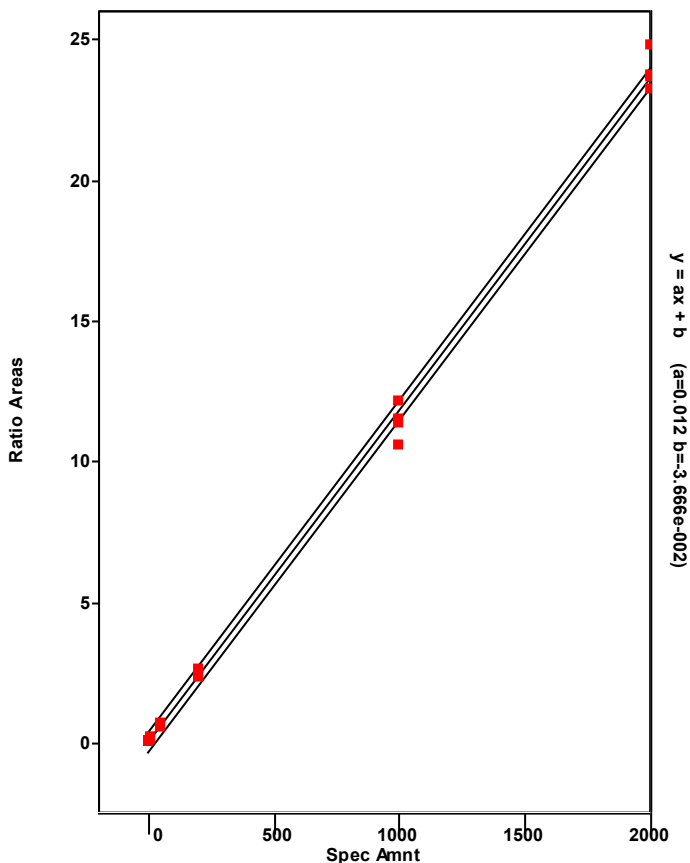
Total Hexachlorodibenzofuran__2
 Single native HxCDF
 CAS# 55684-94-1
 446502
 557336
 1.2482
 1.0500 - 1.4300
 50.00
 42.30
 85
 0.0000

NL:
 1.10E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_26

Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

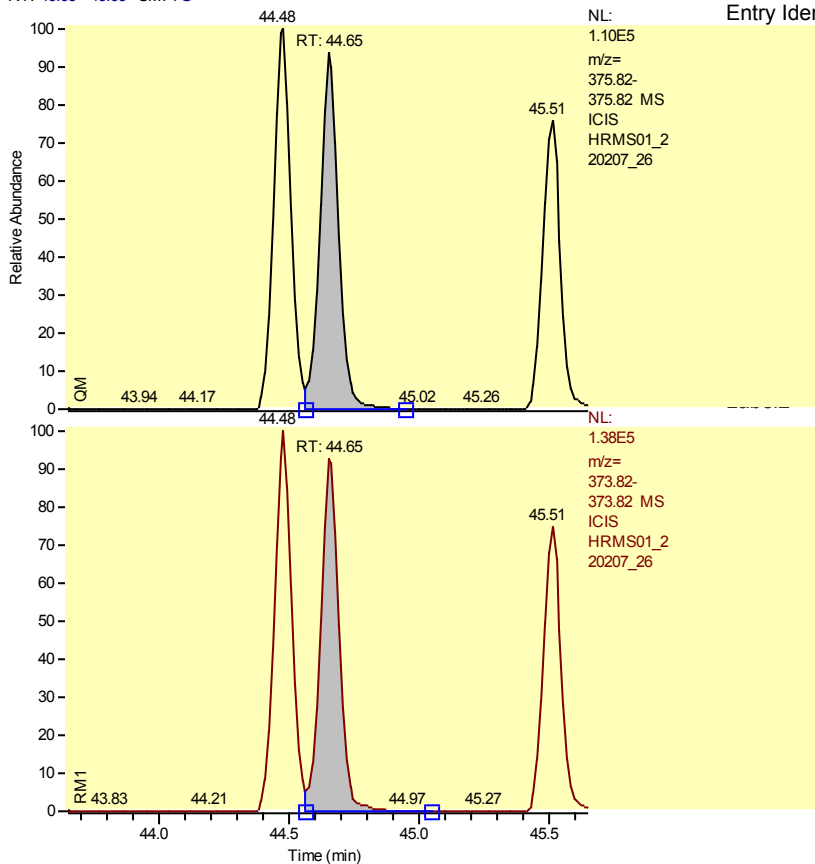
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

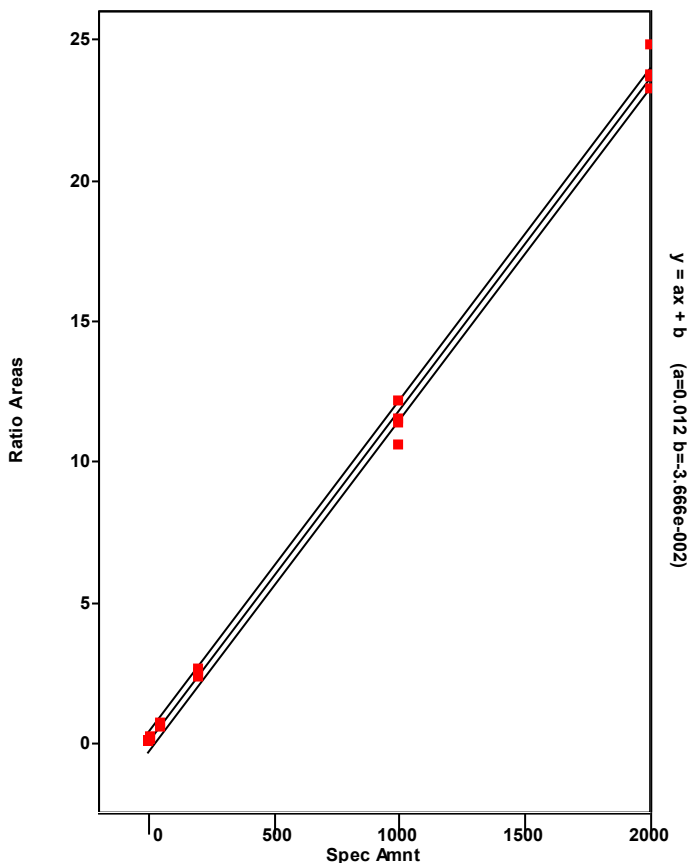


Entry Identifier	Total Hexachlorodibenzofuran__3
Product Name	Single native HxCDF
	CAS# 55684-94-1
	510508
	634372
Retention (A)	1.2426
Unit	1.0500 - 1.4300
Amount	50.00
Adjusted Amount (A)	48.24
Recovery (A)	96
	0.0000

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

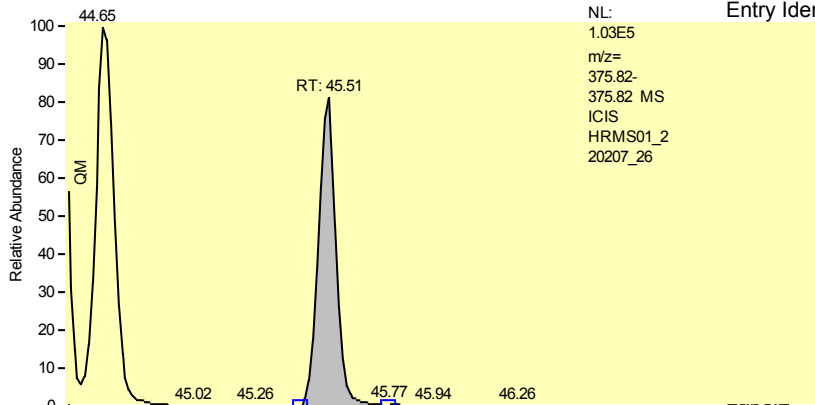
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

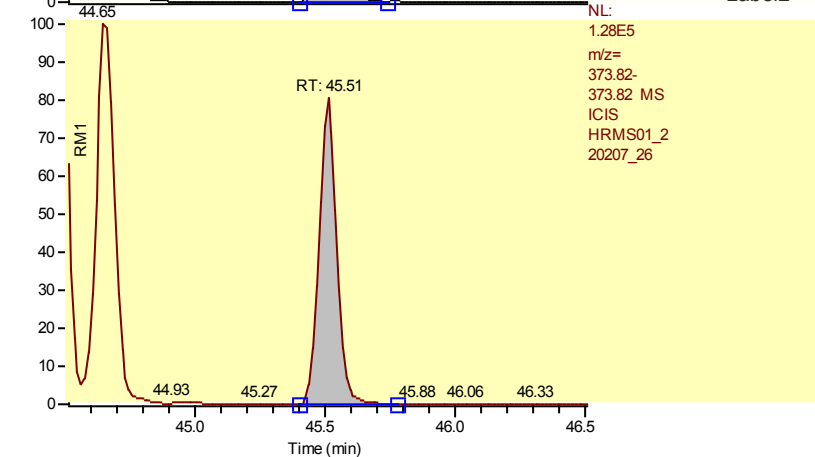
RT: 44.51 - 46.51 SM: 7G



NL:
 1.03E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_26

Entry Identifier
 d Name
 (A)
 nit
 Amount
 d Amount (A)
 ecovery (A)

Total Hexachlorodibenzofuran__4
 Single native HxCDF
 CAS# 55684-94-1
 397023
 488200
 1.2297
 1.0500 - 1.4300
 50.00
 37.30
 75
 0.0000

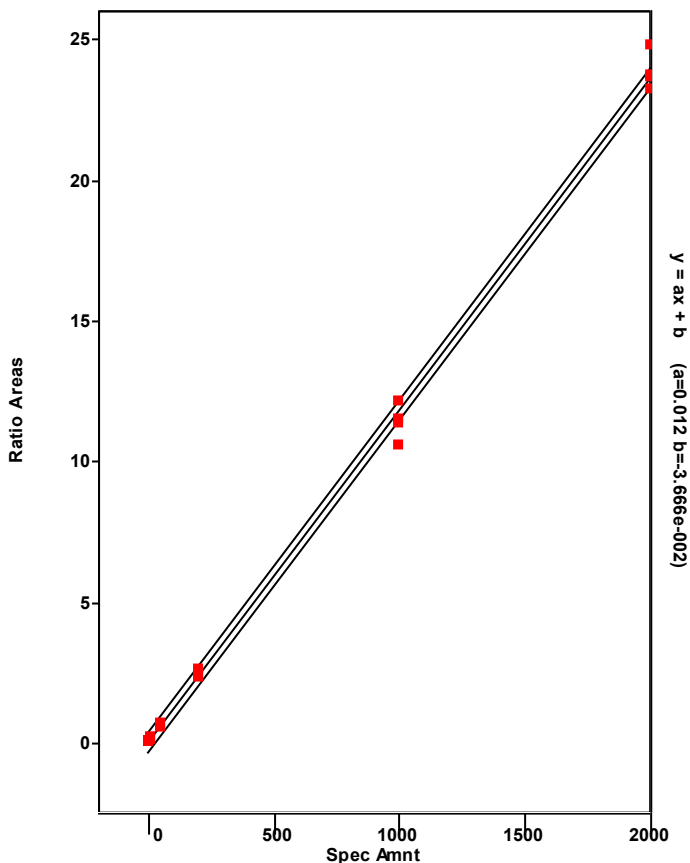


NL:
 1.28E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_26

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

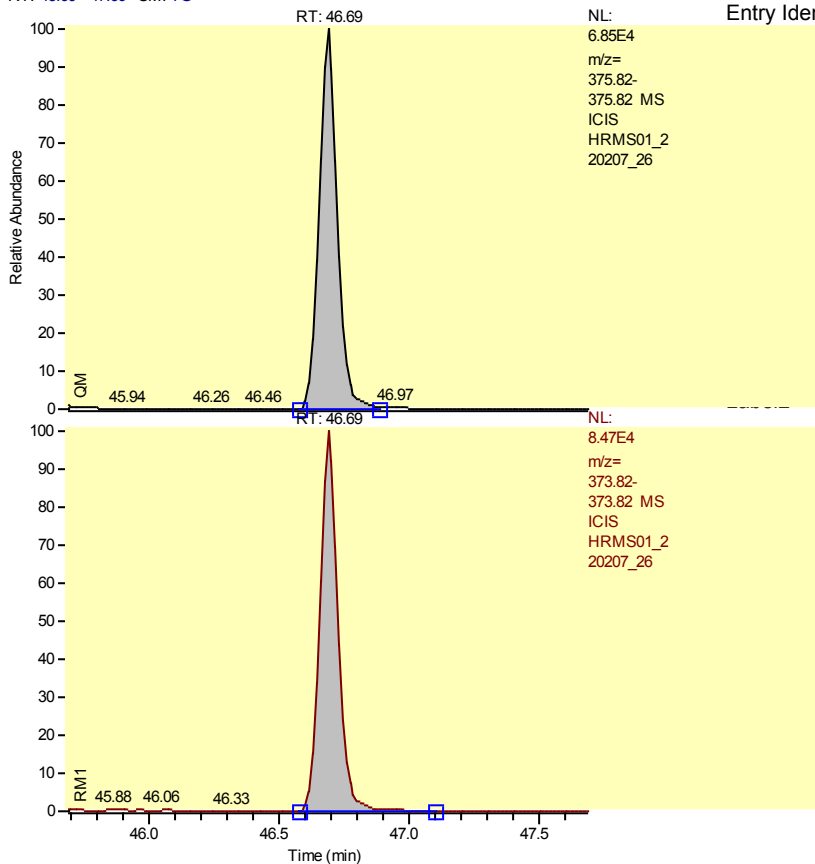
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.69 - 47.69 SM: 7G

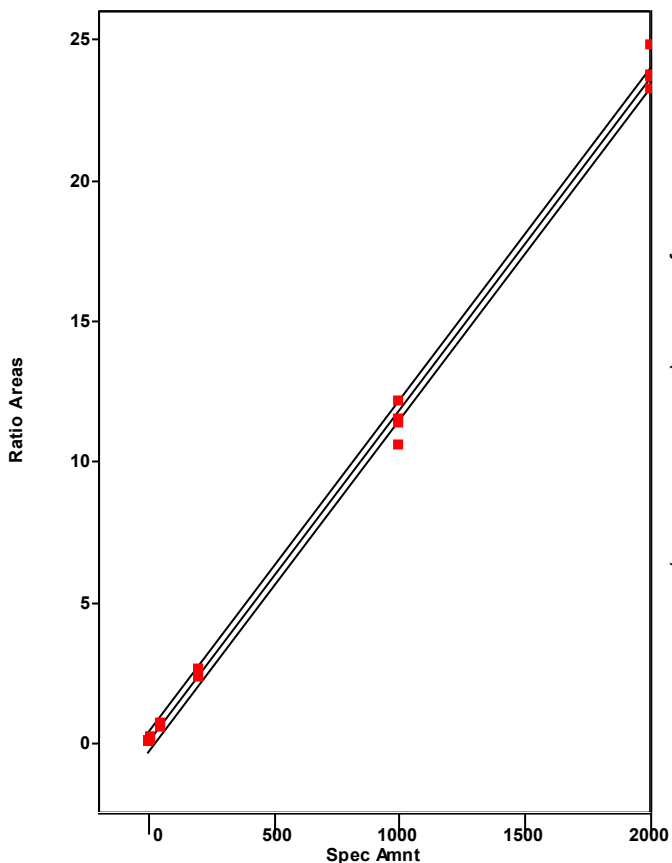


Entry Identifier	Total Hexachlorodibenzofuran__5
d Name	Single native HxCDF
	CAS# 55684-94-1
	332019
	412187
o (A)	1.2415
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	31.36
recovery (A)	63
	0.0000

Entry: Total Hexachlorodibenzofuran__5 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__5

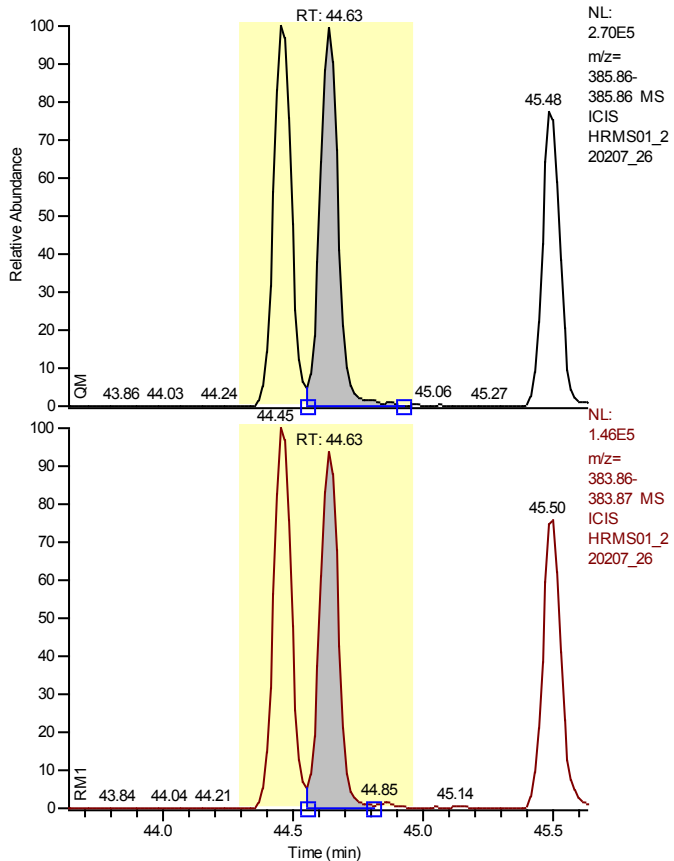
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

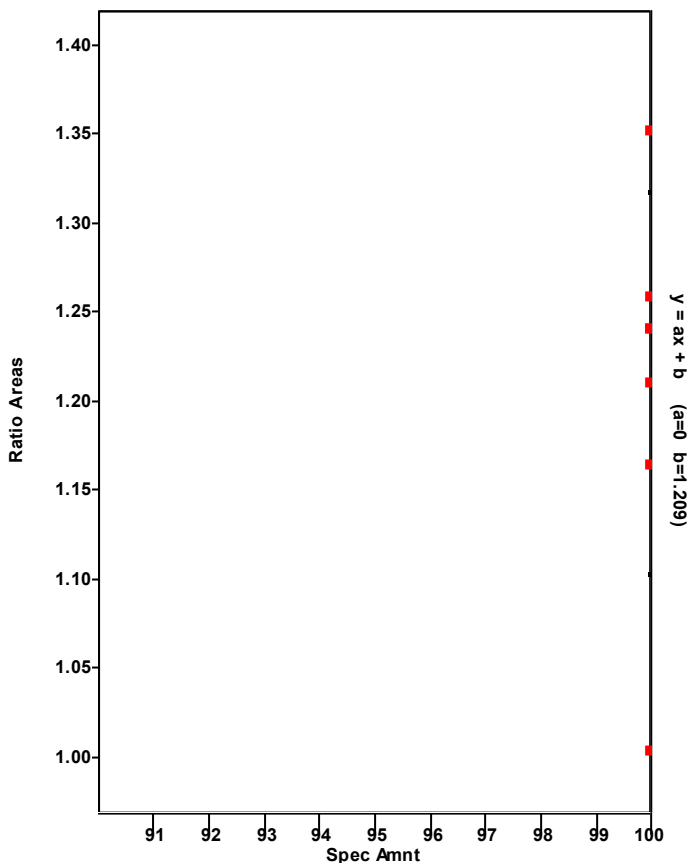


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1316691
RM1 Area	678036
RM1 Ratio (A)	0.5150
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	113.18
Percent Recovery (A)	113
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

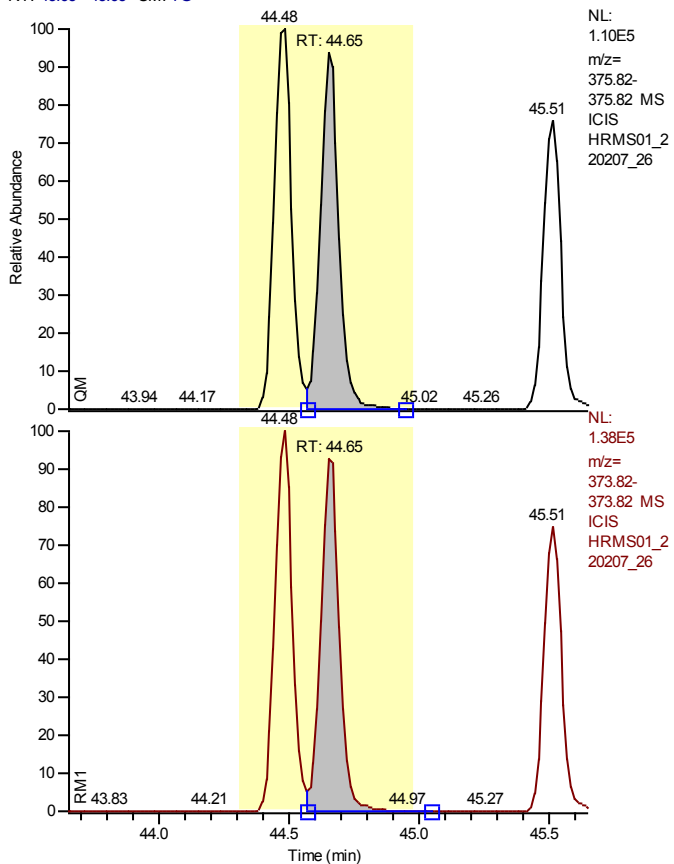
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

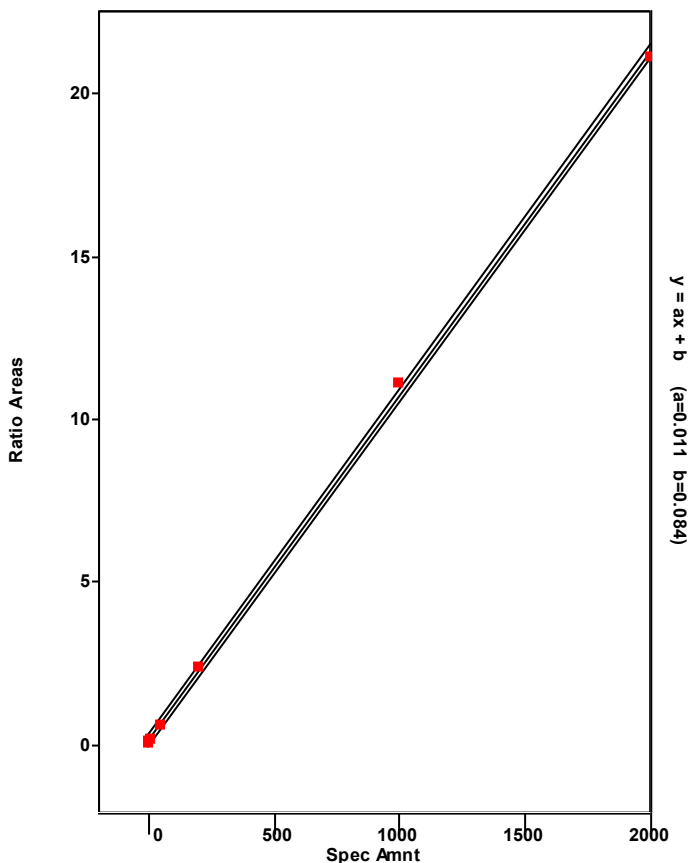


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	510508
RM1 Area	634372
RM1 Ratio (A)	1.2426
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.17
Percent Recovery (A)	100
TEQ (A)	5.0168
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

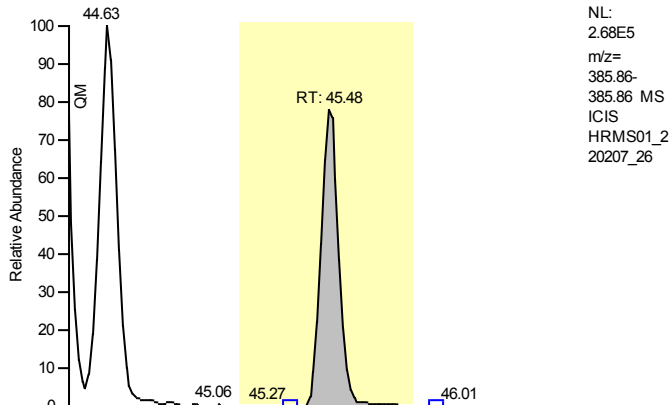
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



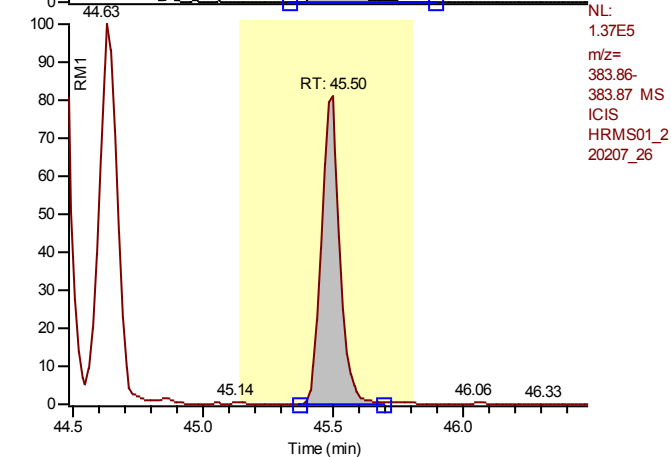
Chromatogram

Entry Parameters

RT: 44.48 - 46.48 SM: 7G



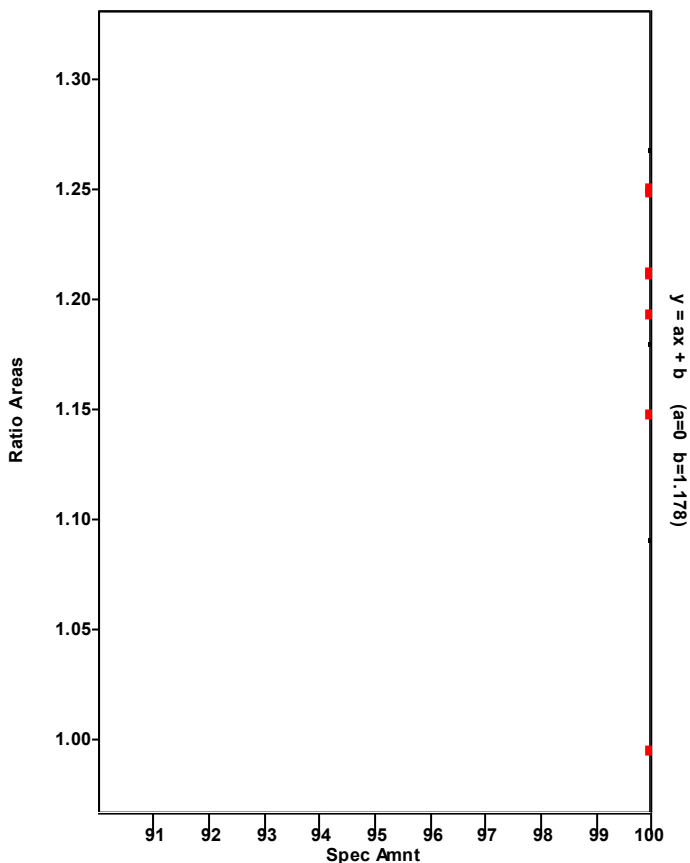
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1009429
RM1 Area	553857
RM1 Ratio (A)	0.5487
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	91.01
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	



Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

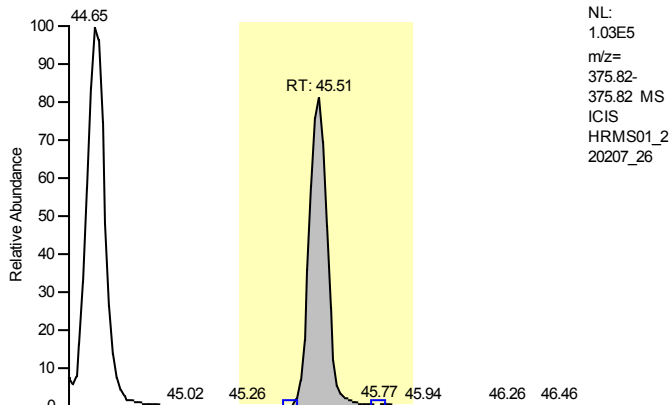
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



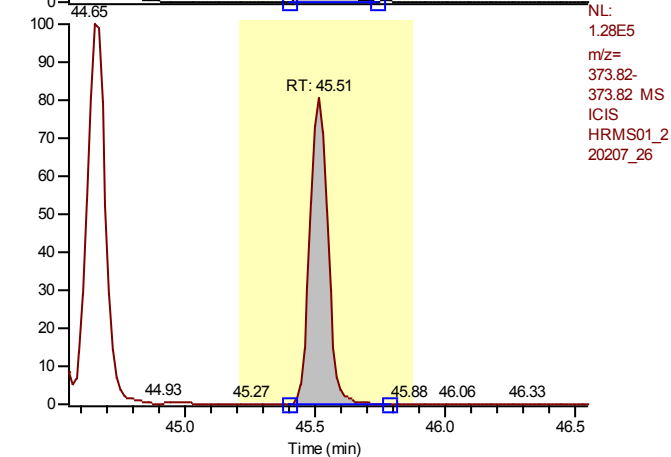
Chromatogram

Entry Parameters

RT: 44.55 - 46.55 SM: 7G



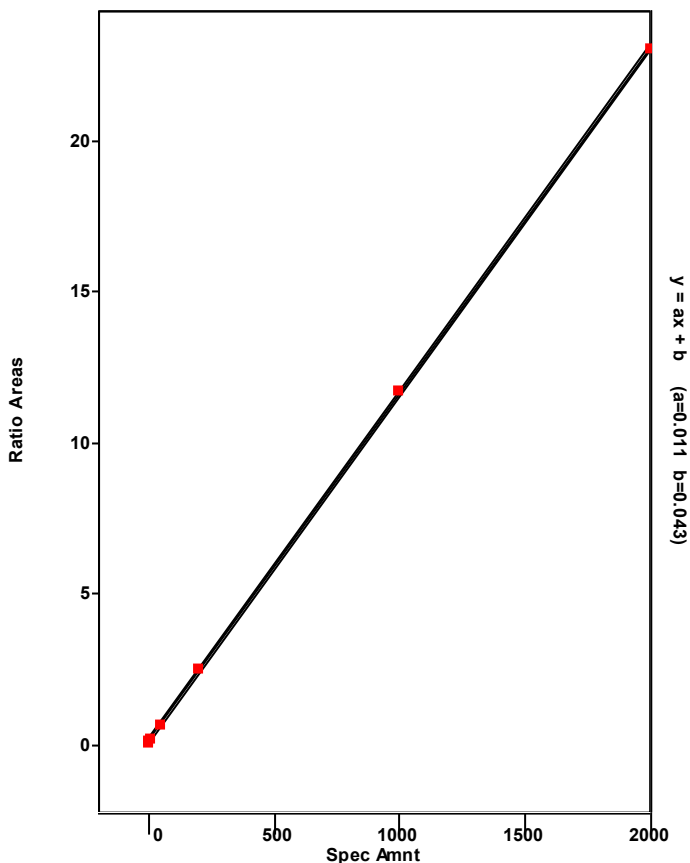
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	397023
RM1 Area	488200
RM1 Ratio (A)	1.2297
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.45
Percent Recovery (A)	95
TEQ (A)	4.7453
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

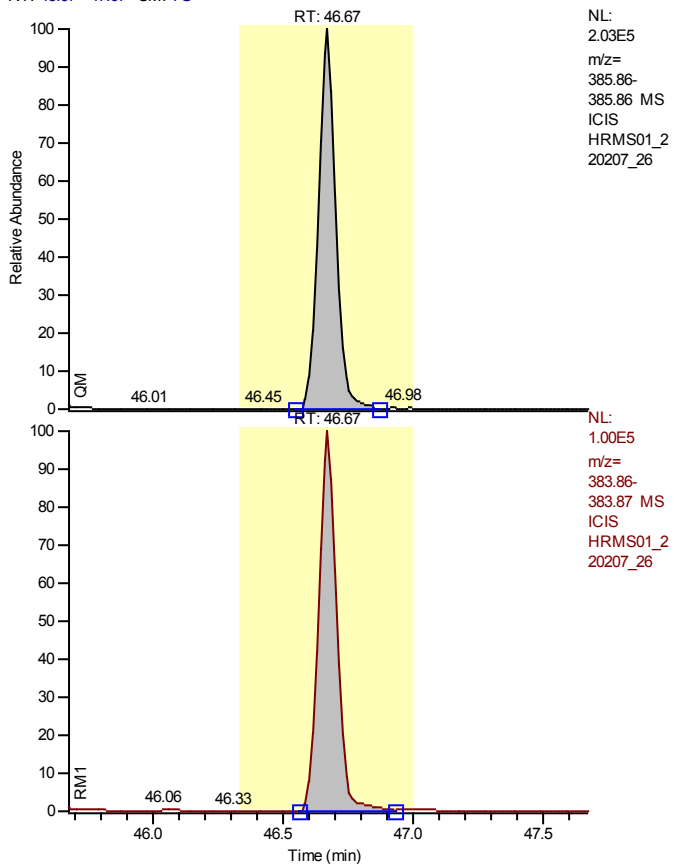
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

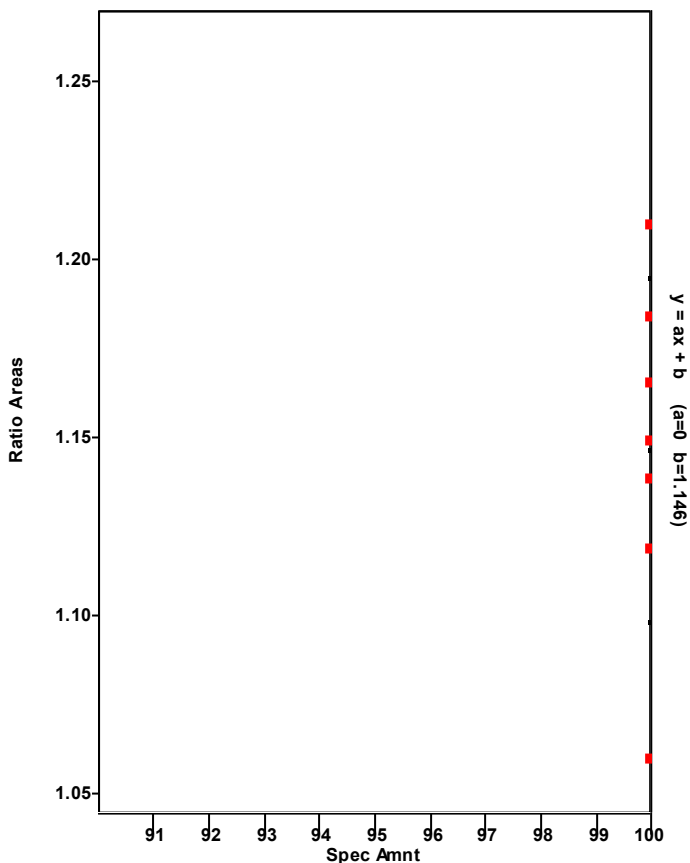


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	949469
RM1 Area	489711
RM1 Ratio (A)	0.5158
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	86.13
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

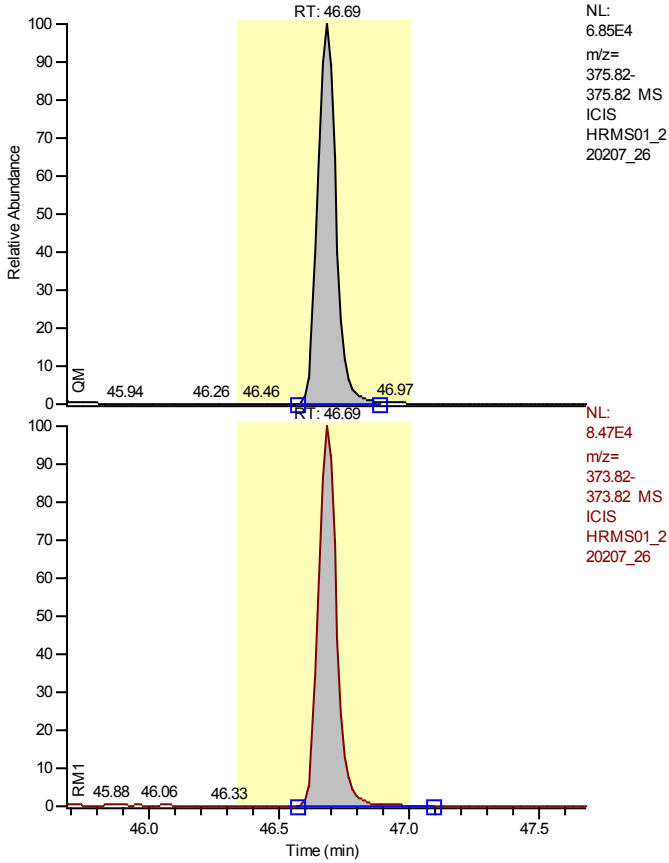
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G



NL:
6.85E4
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20207_26

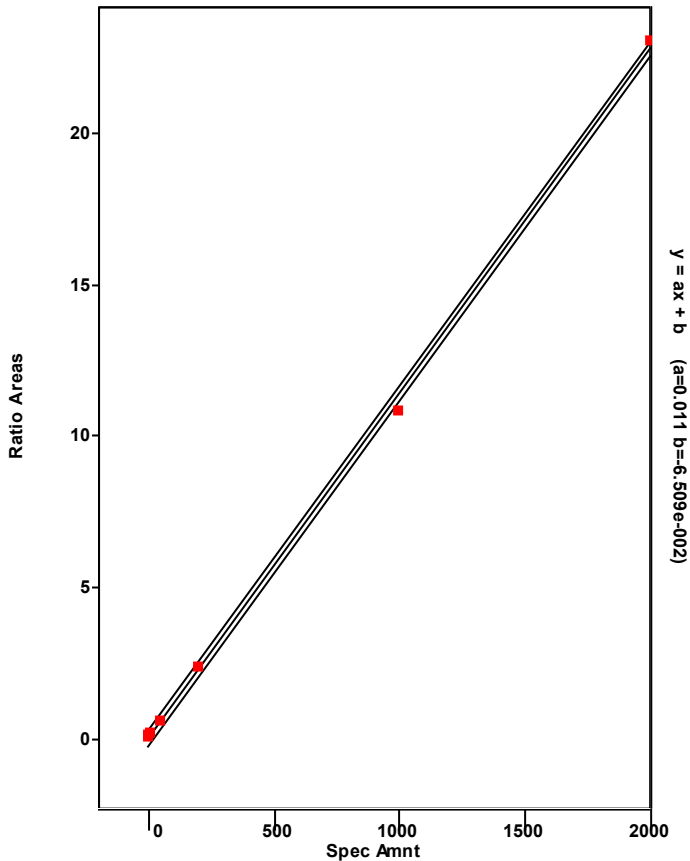
NL:
8.47E4
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	332019
RM1 Area	412187
RM1 Ratio (A)	1.2415
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	46.18
Percent Recovery (A)	92
TEQ (A)	4.6183
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

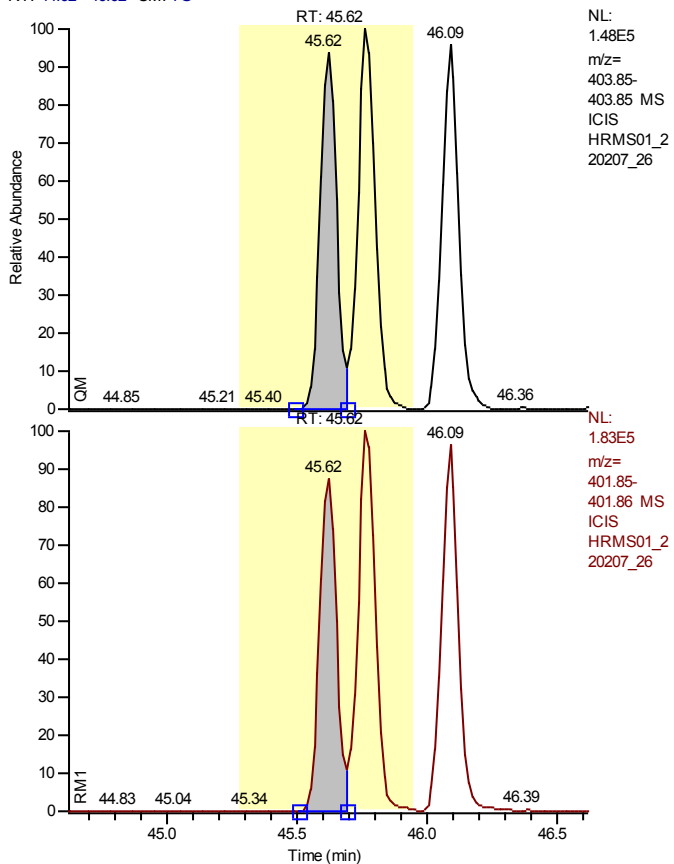
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

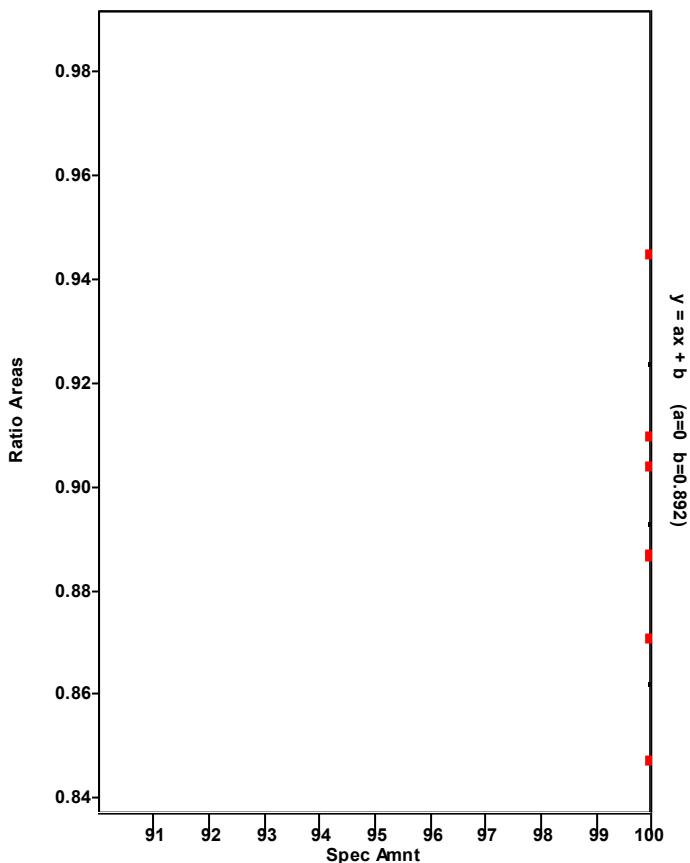
RT: 44.62 - 46.62 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	612909
RM1 Area	720945
RM1 Ratio (A)	1.1763
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	102.50
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

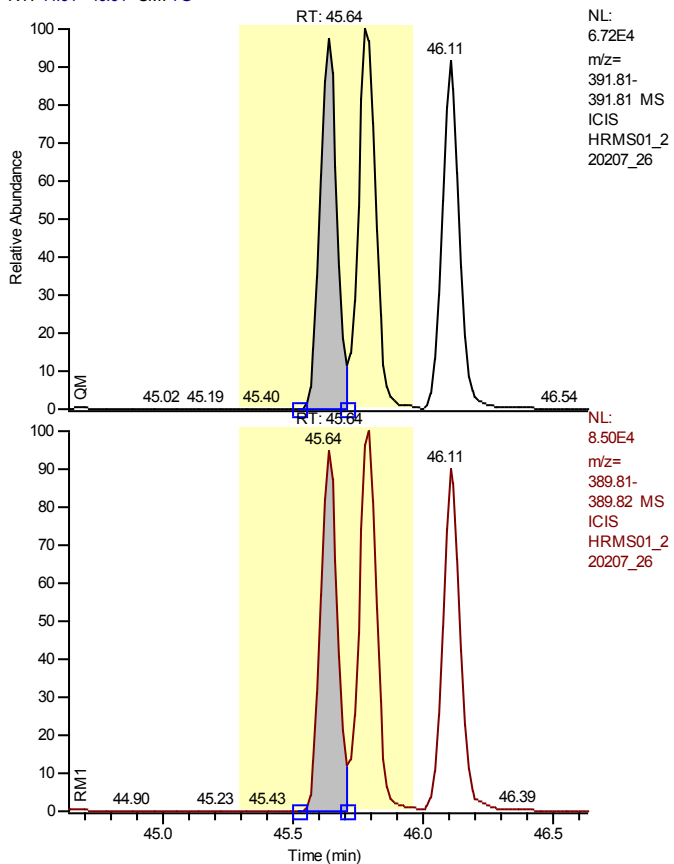
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.64 - 46.64 SM: 7G

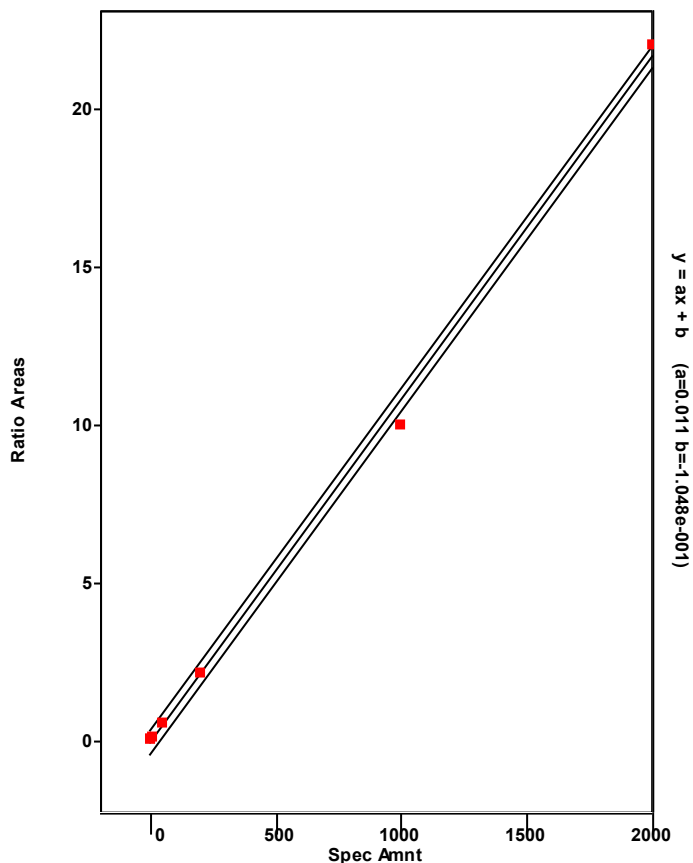


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	296258
RM1 Area	365399
RM1 Ratio (A)	1.2334
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.61
Percent Recovery (A)	95
TEQ (A)	4.7606
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

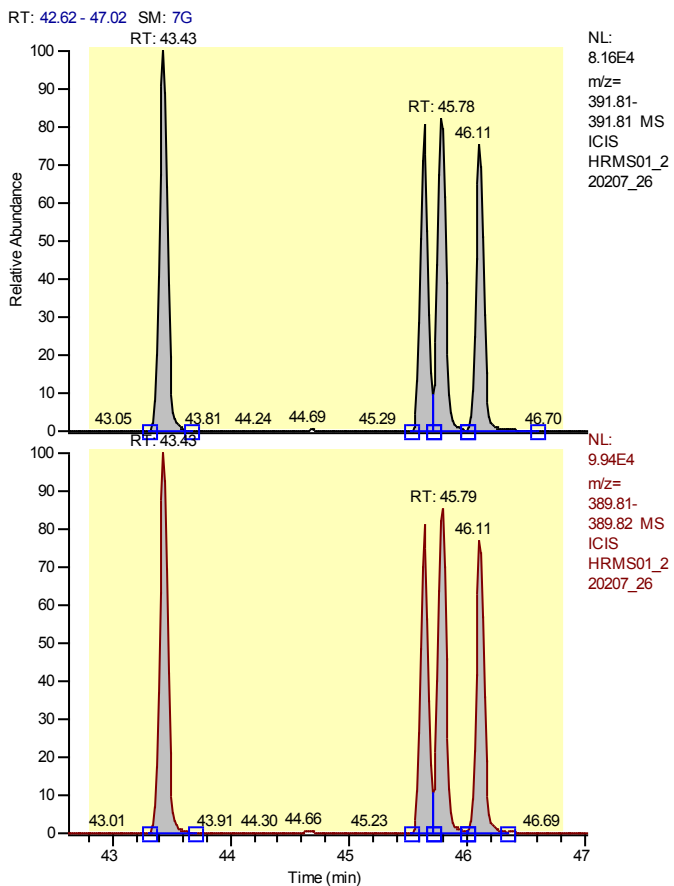
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

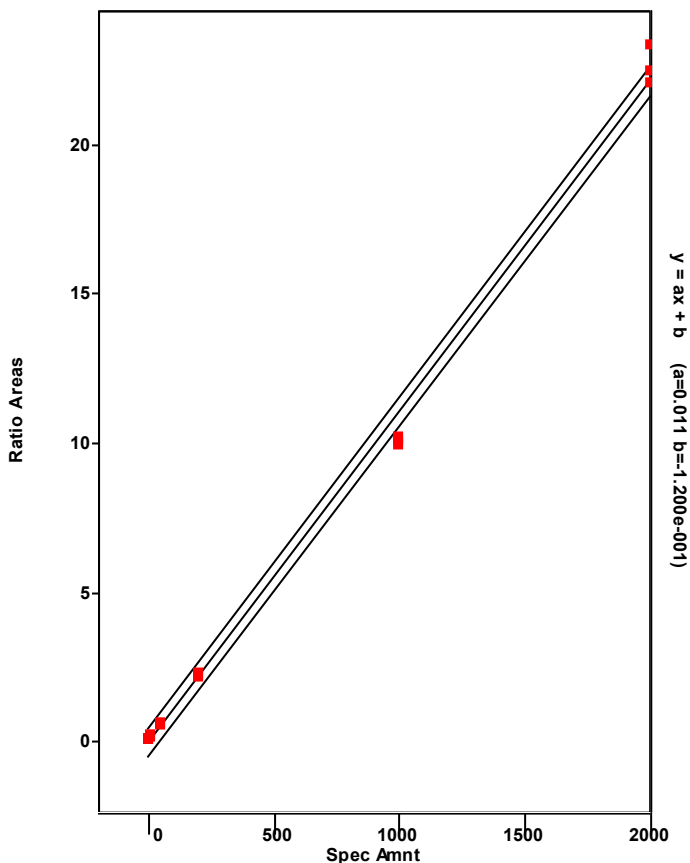


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	1299475
RM1 Area	1611760
RM1 Ratio (A)	1.2403
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	200.47
Percent Recovery (A)	401
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

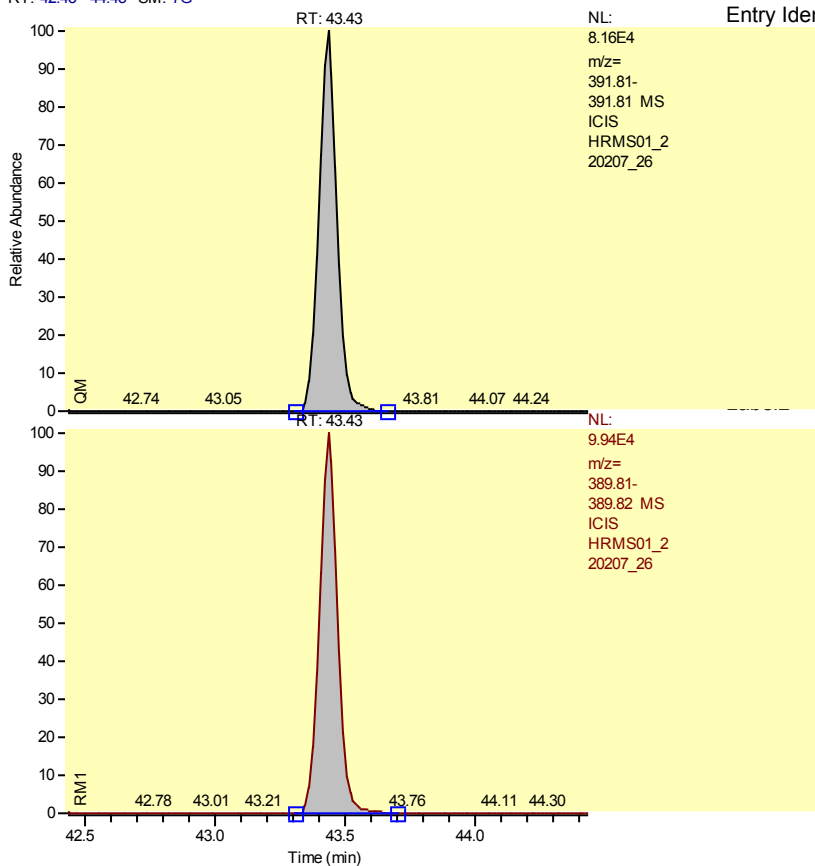
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 42.43 - 44.43 SM: 7G

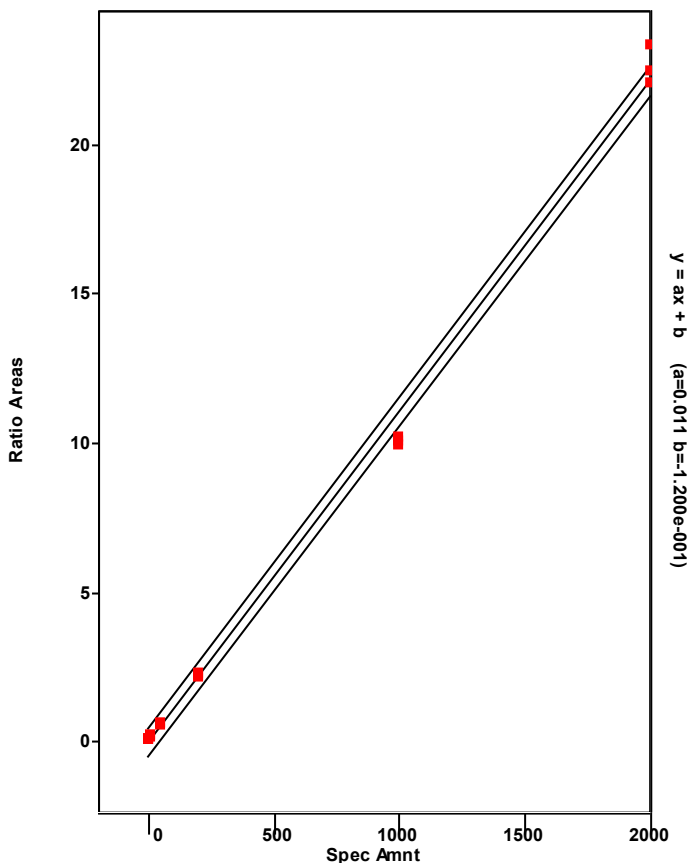


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
d Name	Single native HxCDD
	CAS# 34465-46-8
	392706
	479822
o (A)	1.2218
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	60.08
recovery (A)	120
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

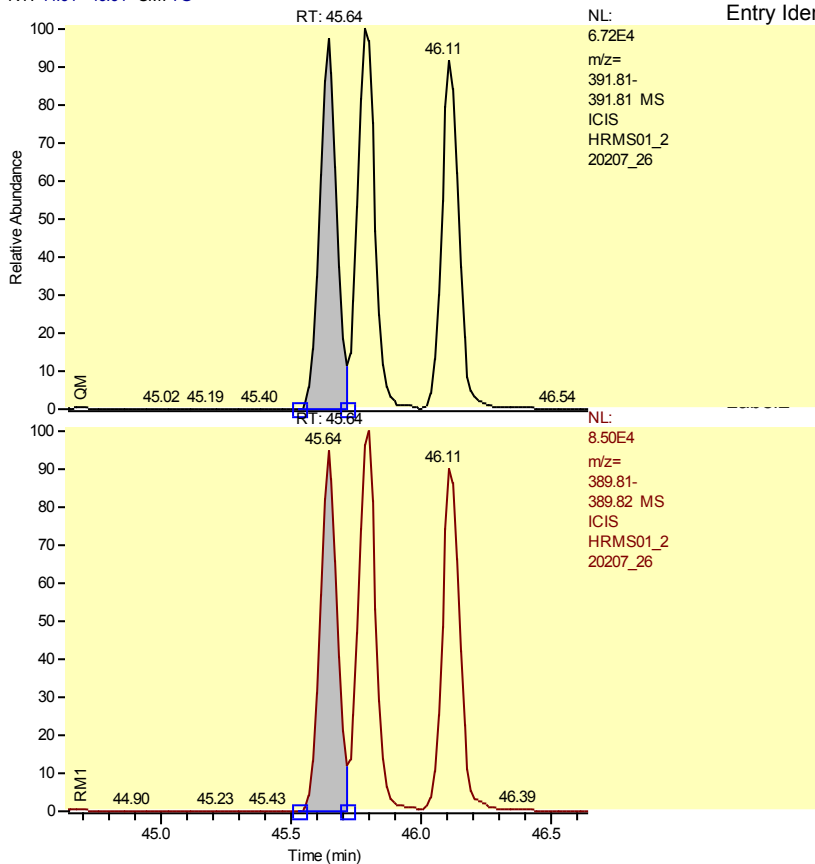
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.64 - 46.64 SM: 7G

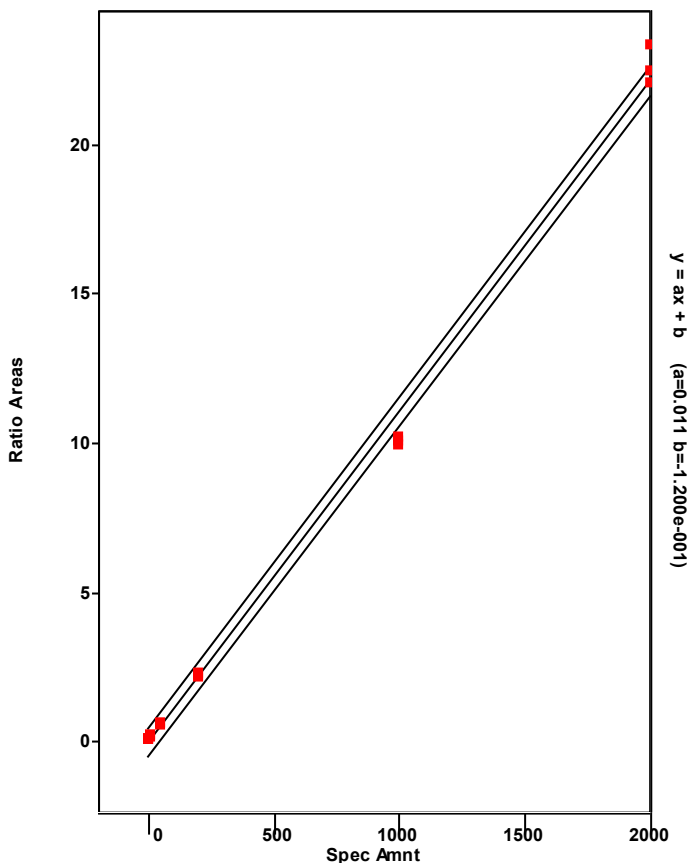


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
d Name	Single native HxCDD
	CAS# 34465-46-8
	296258
	365399
o (A)	1.2334
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	45.56
recovery (A)	91
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

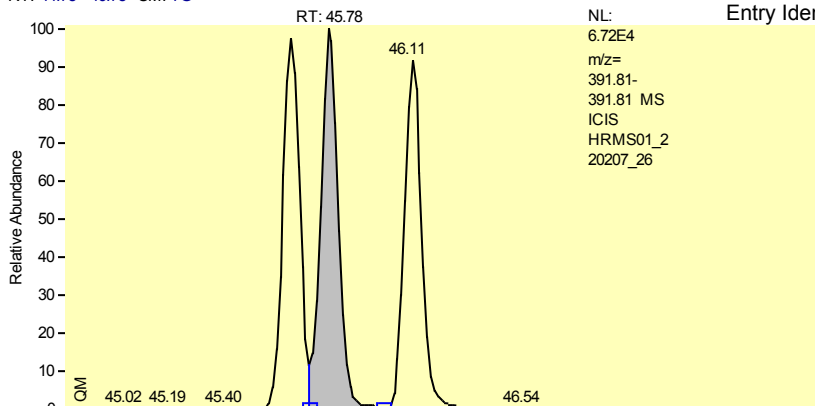
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



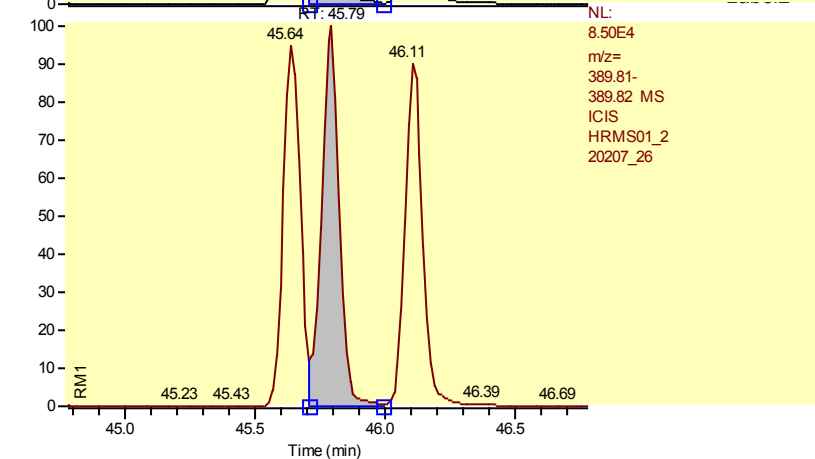
Chromatogram

Entry Parameters

RT: 44.78 - 46.78 SM: 7G



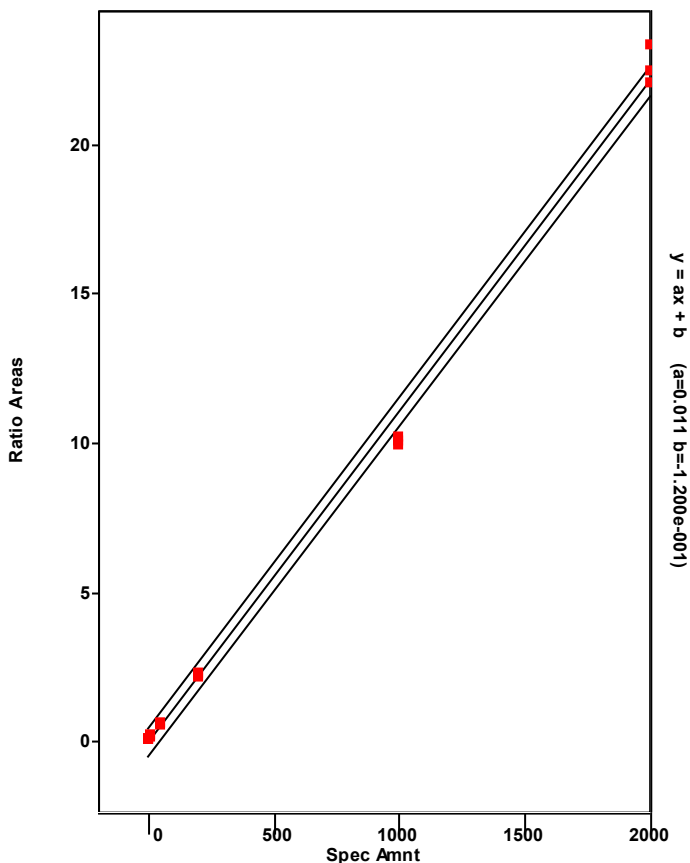
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
d Name	Single native HxCDD
	CAS# 34465-46-8
	318342
	404605
o (A)	1.2710
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	49.78
recovery (A)	100
	0.0000



Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

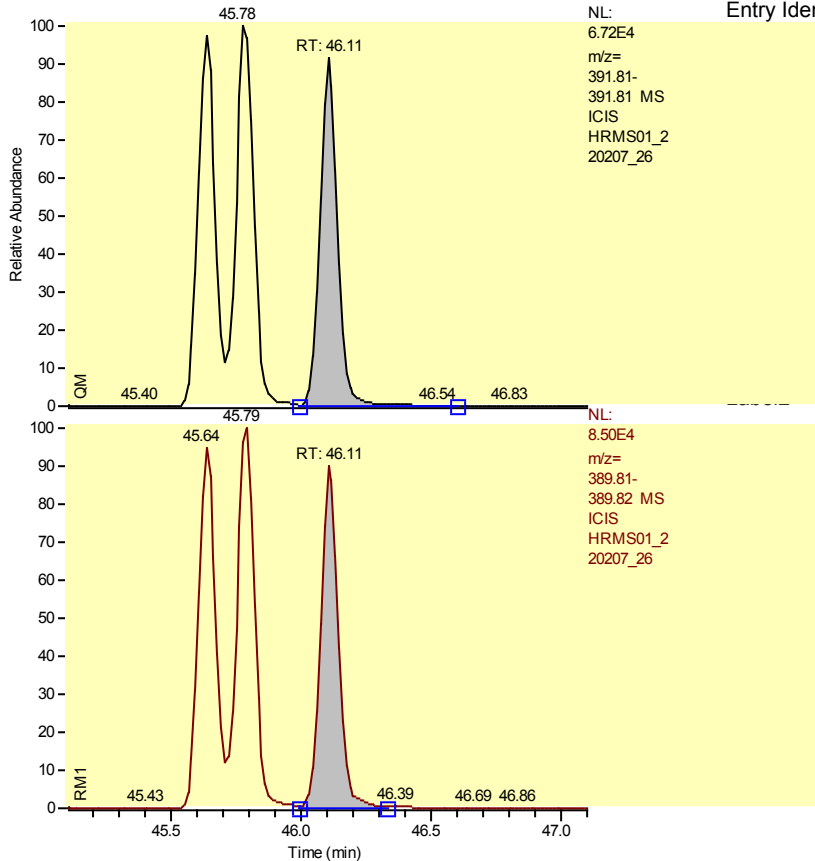
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 45.11 - 47.11 SM: 7G

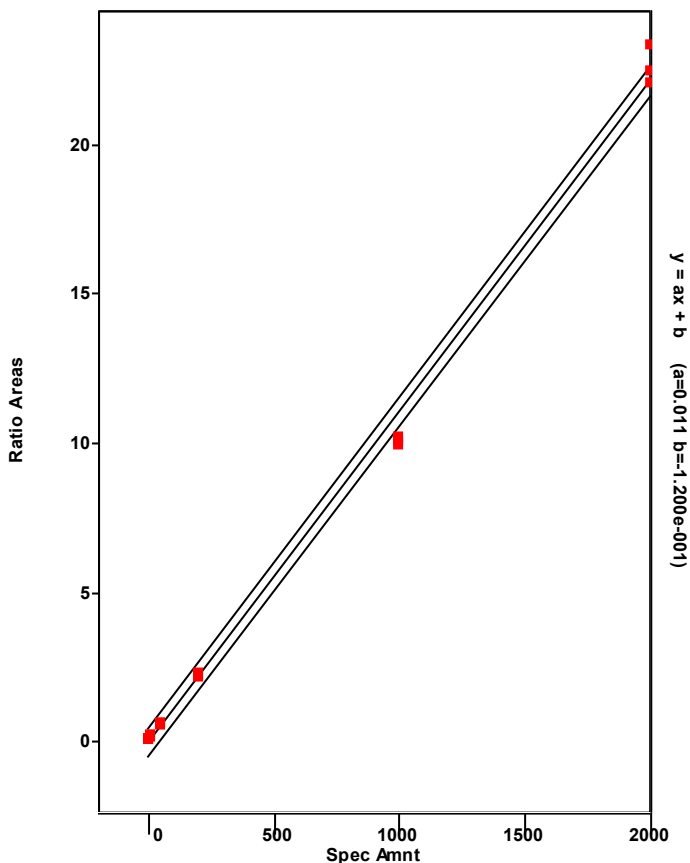


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
d Name	Single native HxCDD
	CAS# 34465-46-8
	292169
	361934
o (A)	1.2388
nit	1.0500 - 1.4300
Amount	50.00
d Amount (A)	45.04
recovery (A)	90
	0.0000

Entry: Total Hexachlorodibenzo-p-dioxin__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

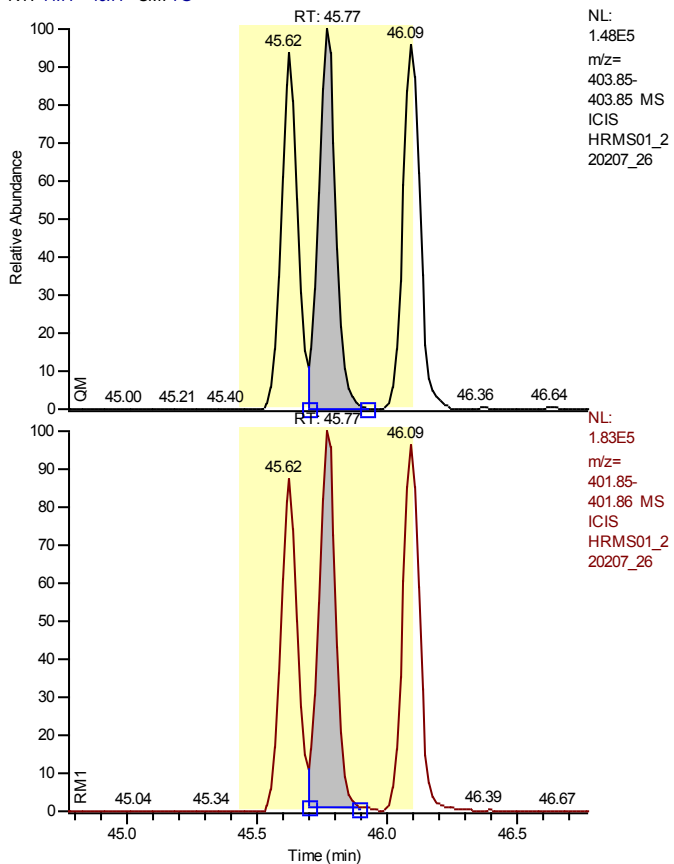
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

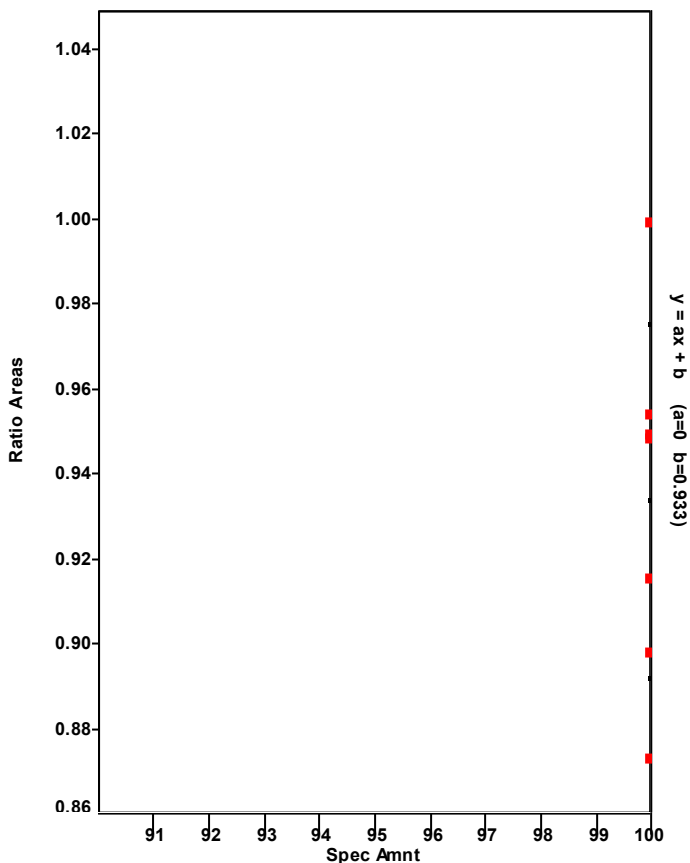
RT: 44.77 - 46.77 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	677071
RM1 Area	821826
RM1 Ratio (A)	1.2138
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	110.13
Percent Recovery (A)	110
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

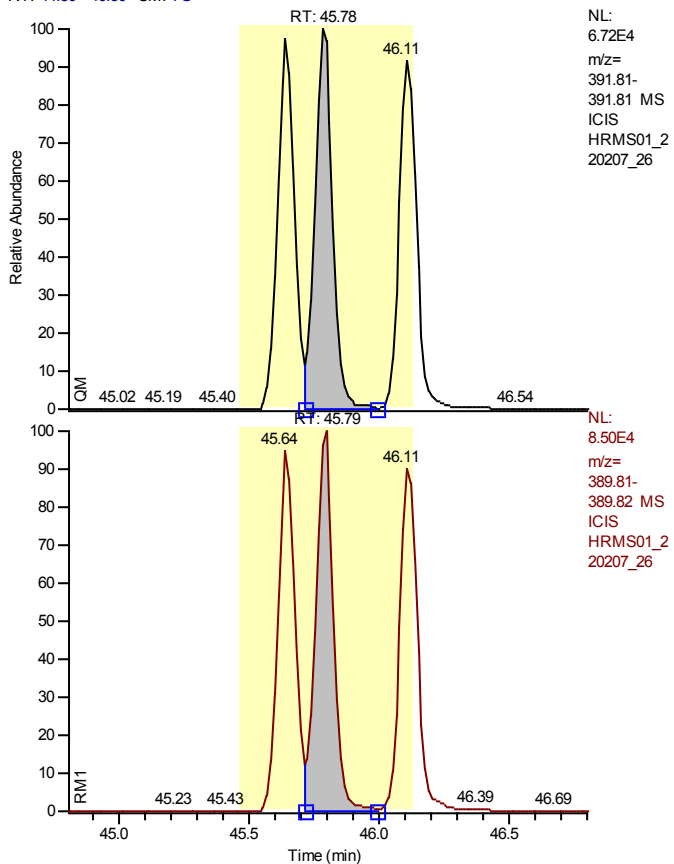
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.80 - 46.80 SM: 7G



NL:
6.72E4
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20207_26

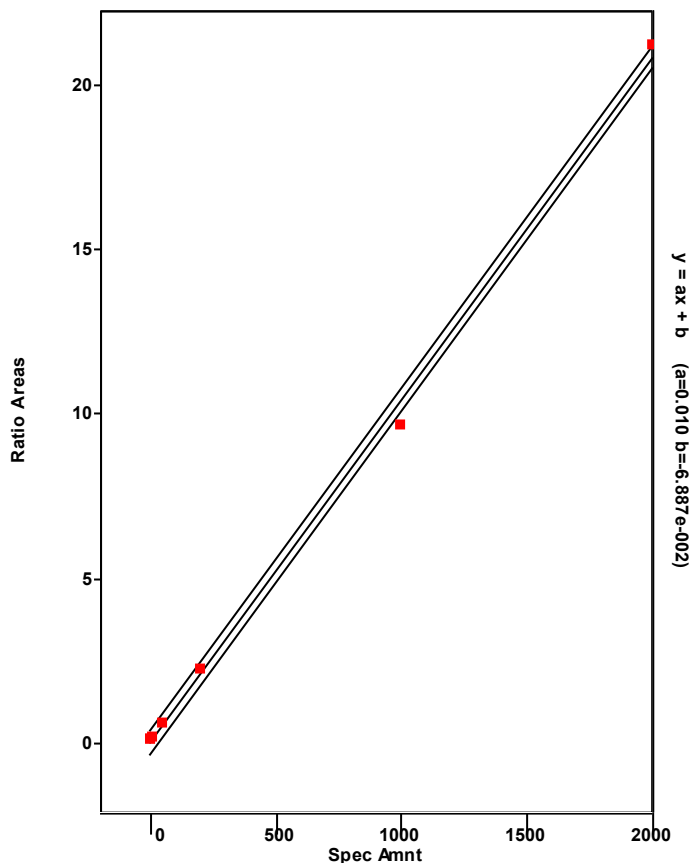
NL:
8.50E4
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	318342
RM1 Area	404605
RM1 Ratio (A)	1.2710
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	45.40
Percent Recovery (A)	91
TEQ (A)	4.5404
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

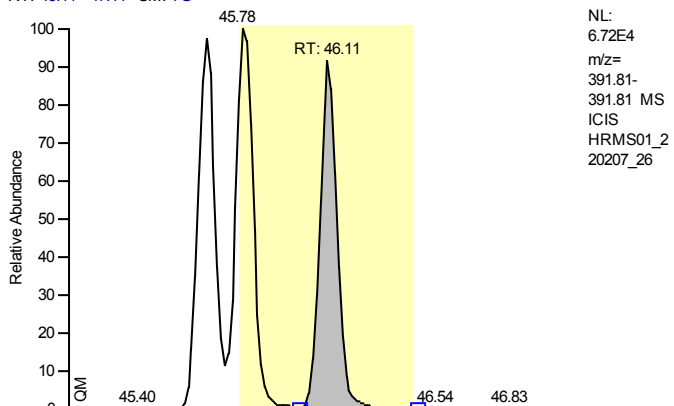
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



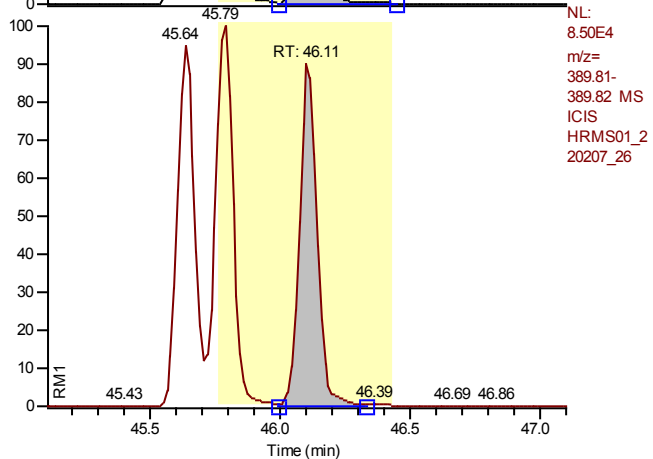
Chromatogram

Entry Parameters

RT: 45.11 - 47.11 SM: 7G



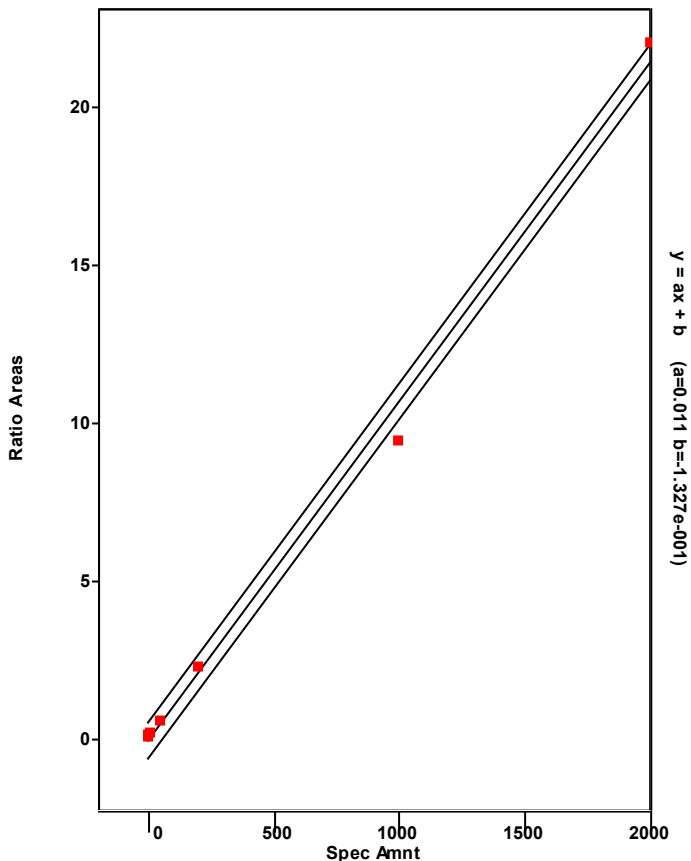
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	292433
RM1 Area	365131
RM1 Ratio (A)	1.2486
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	41.23
Percent Recovery (A)	82
TEQ (A)	4.1233
Label2	



Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

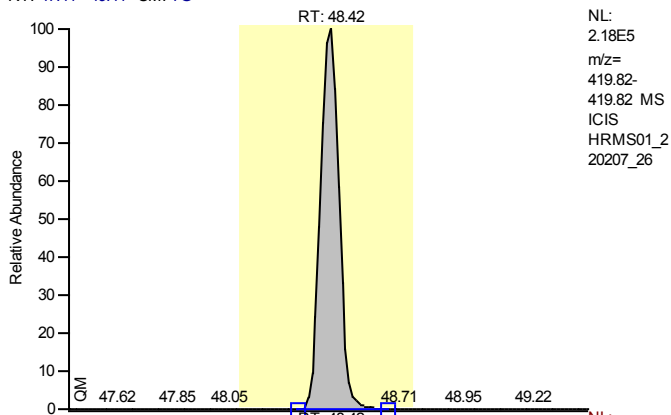
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



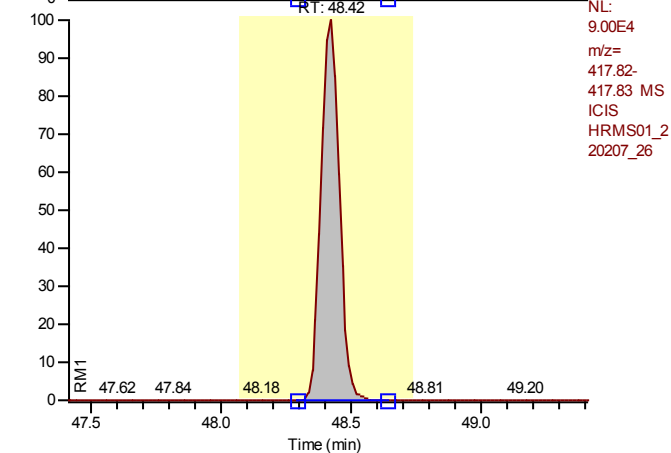
Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

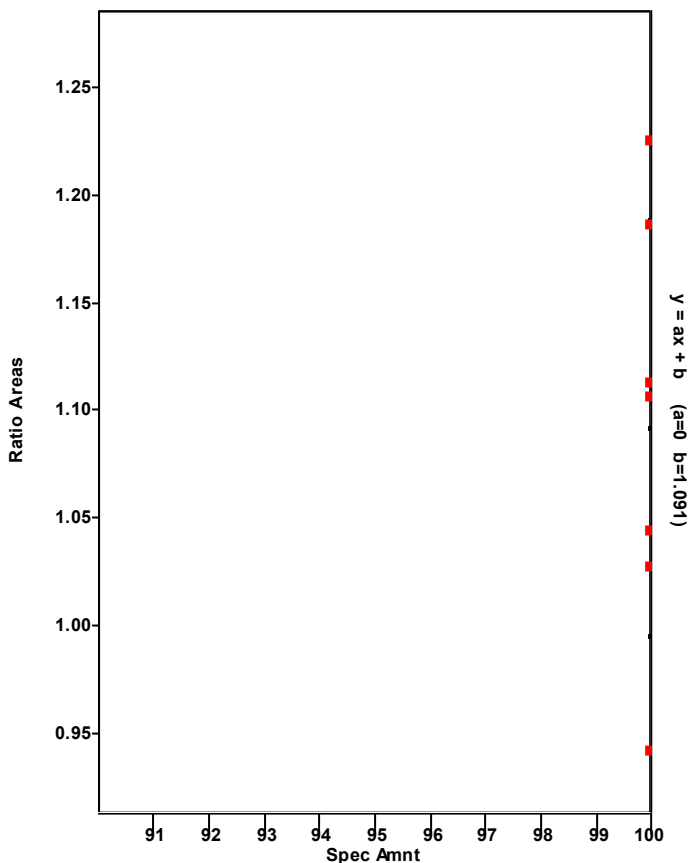


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1062055
RM1 Area	433299
RM1 Ratio (A)	0.4080
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	94.02
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

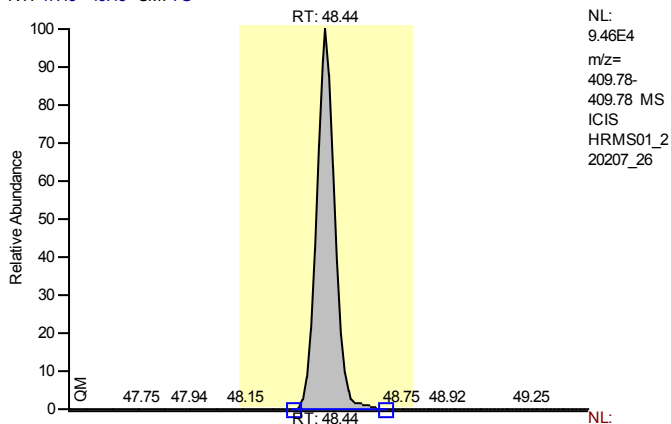
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

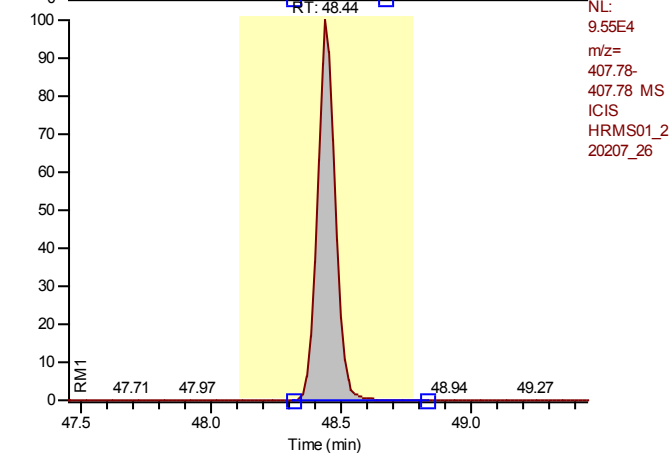
Entry Parameters

RT: 47.45 - 49.45 SM: 7G



NL:
 9.46E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_26

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	464909
RM1 Area	463289
RM1 Ratio (A)	0.9965
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.26
Percent Recovery (A)	97
TEQ (A)	0.4826
Label2	

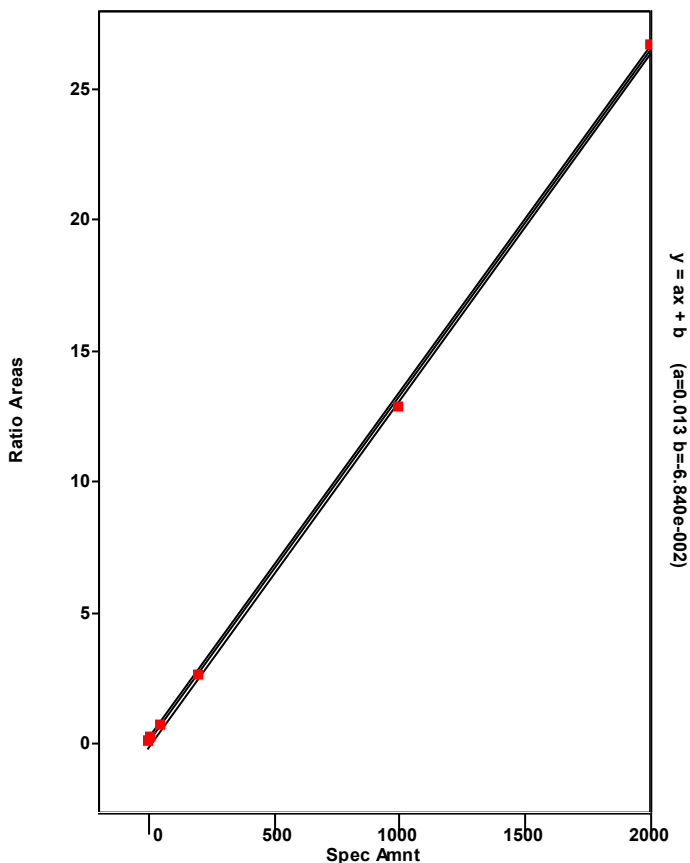


NL:
 9.55E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_26

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

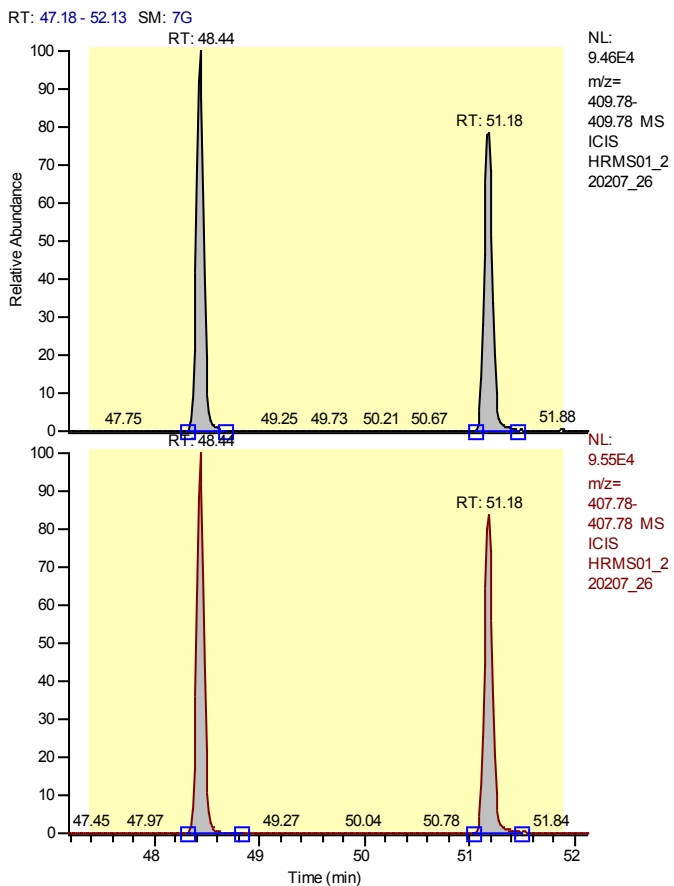
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

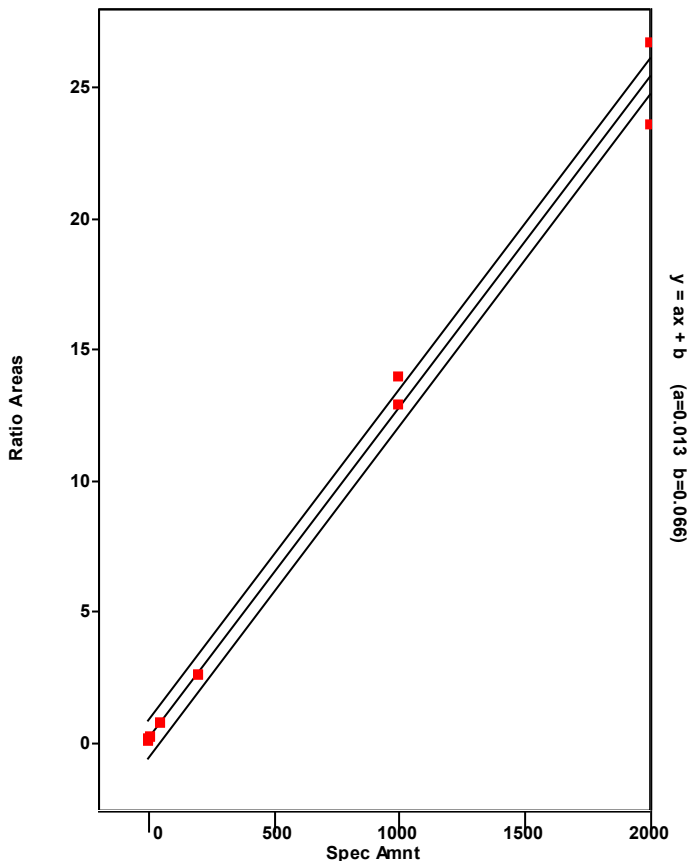


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	888948
RM1 Area	902342
RM1 Ratio (A)	1.0151
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	95.73
Percent Recovery (A)	191
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

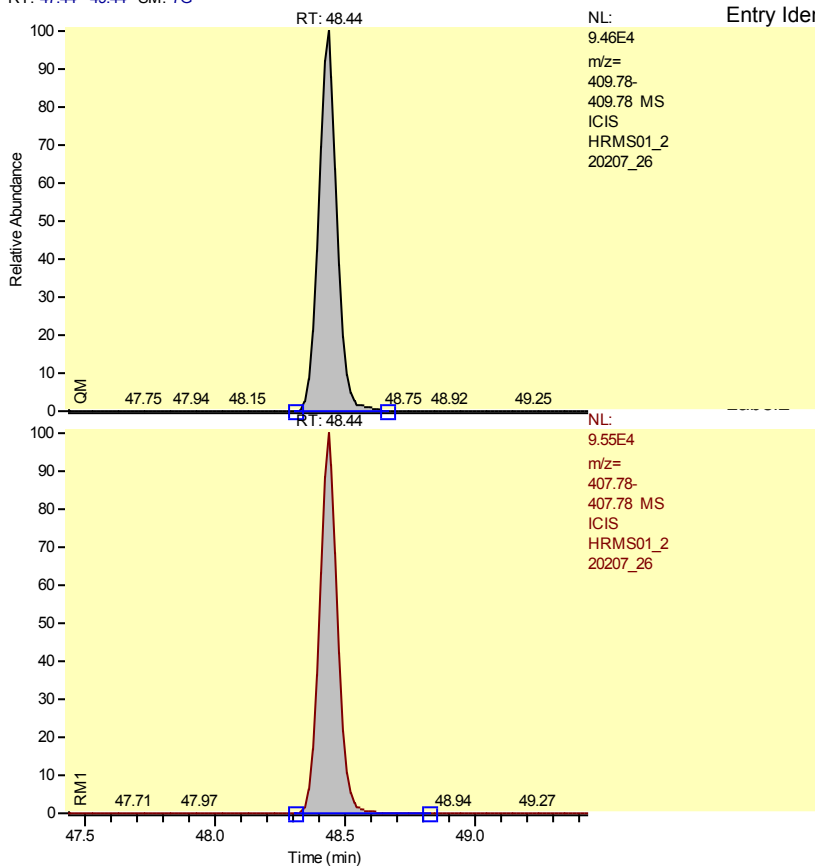
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.44 - 49.44 SM: 7G

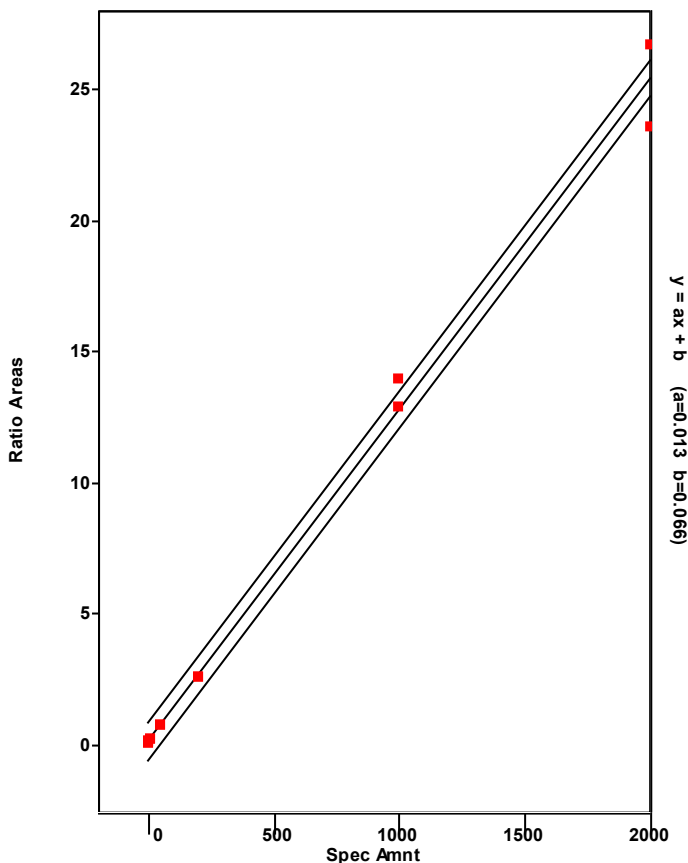


Entry Identifier	Total Heptachlorodibenzofuran__1
d Name	Single native HpCDF
	CAS# 38998-75-3
	464909
	463289
o (A)	0.9965
nit	0.8800 - 1.2000
Amount	50.00
d Amount (A)	49.60
recovery (A)	99
	0.0000

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

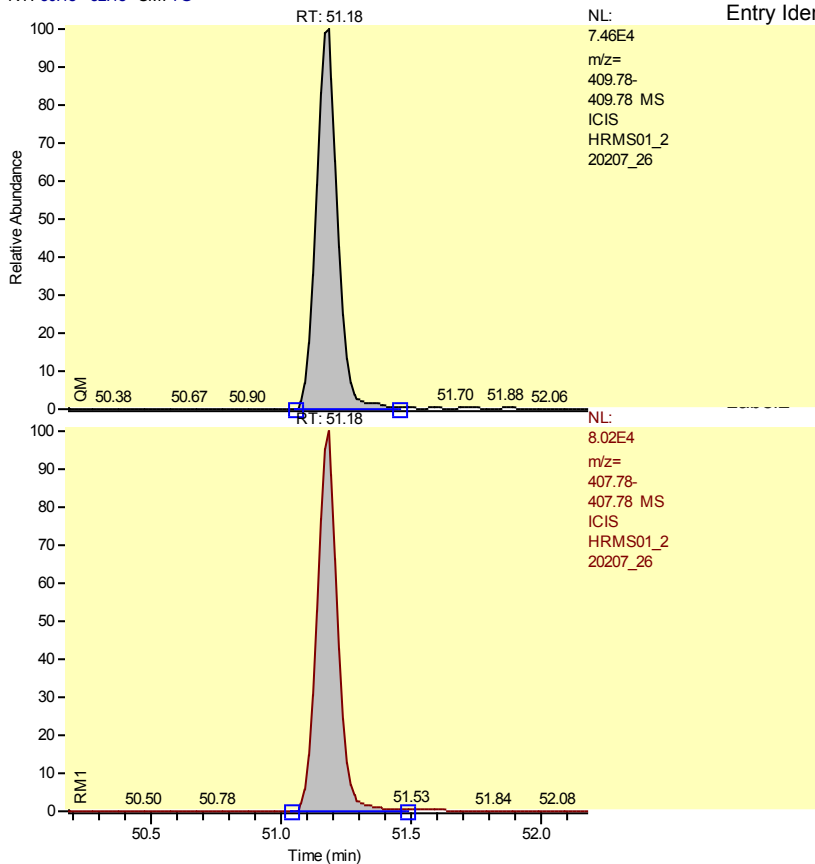
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.18 - 52.18 SM: 7G

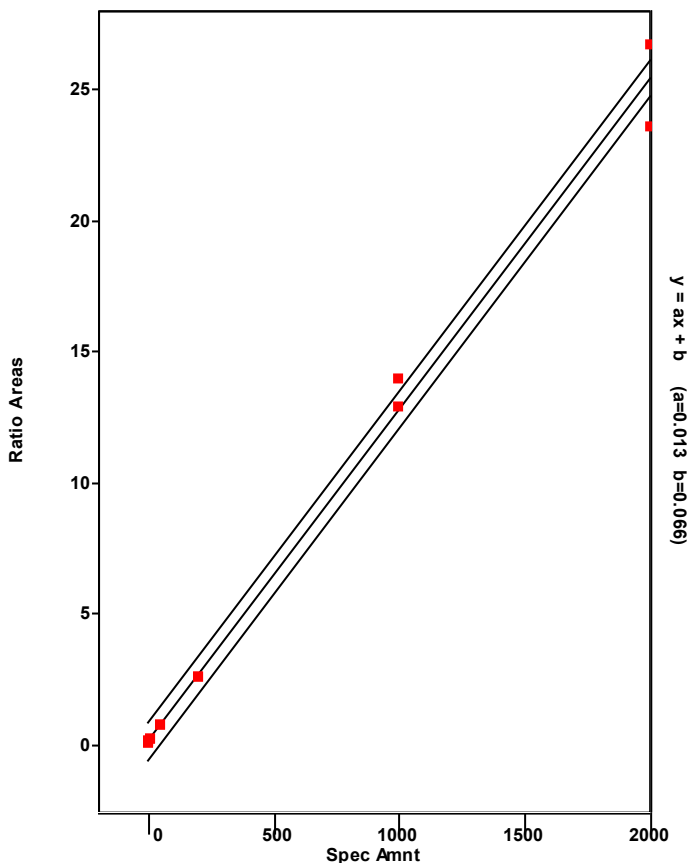


Entry Identifier	Total Heptachlorodibenzofuran__2
d Name	Single native HpCDF
	CAS# 38998-75-3
	424039
	439053
o (A)	1.0354
nit	0.8800 - 1.2000
Amount	50.00
d Amount (A)	46.13
recovery (A)	92
	0.0000

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

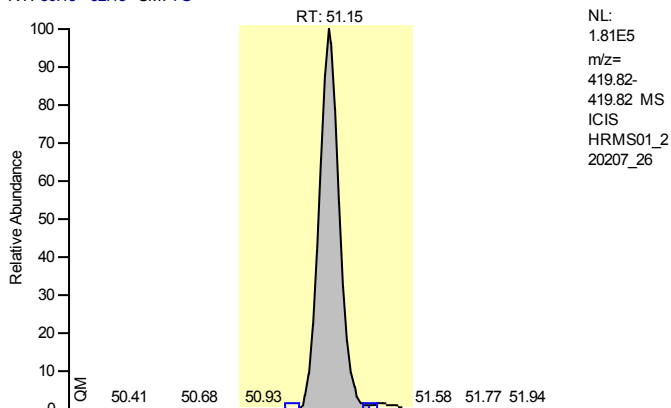
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

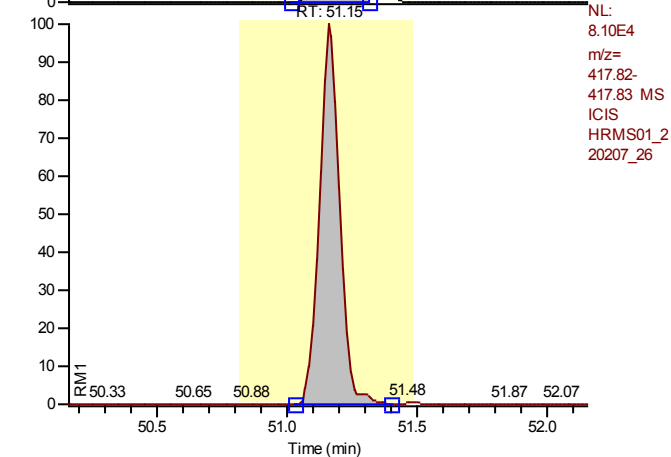
Entry Parameters

RT: 50.15 - 52.15 SM: 7G



NL:
 1.81E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_26

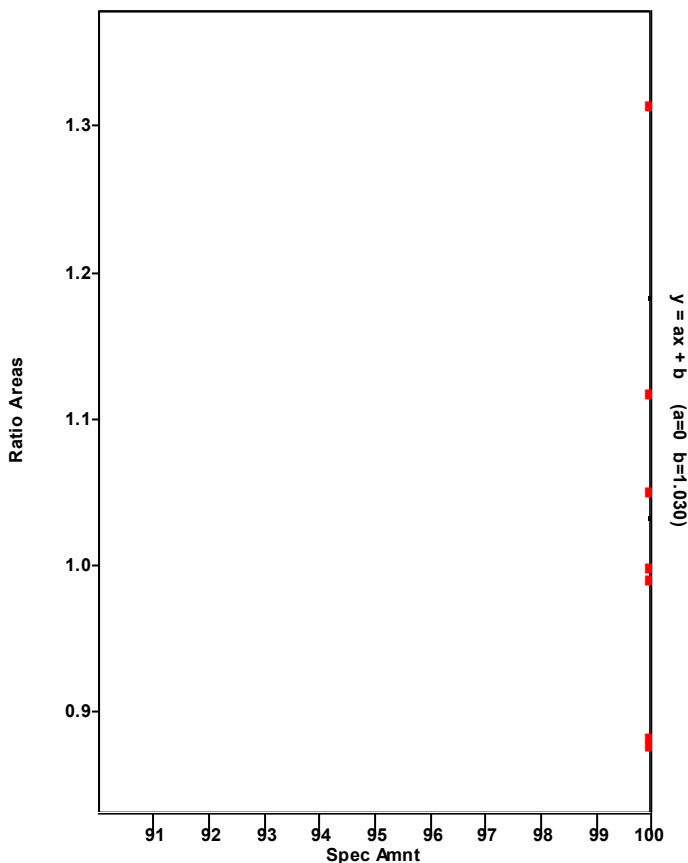
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	987769
RM1 Area	441810
RM1 Ratio (A)	0.4473
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	95.16
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	



NL:
 8.10E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_26

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

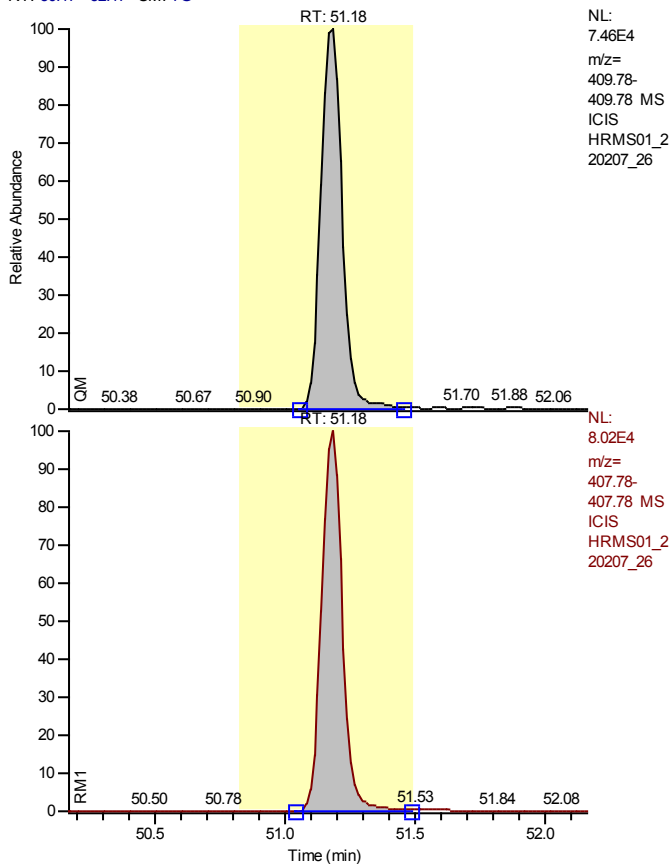
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G

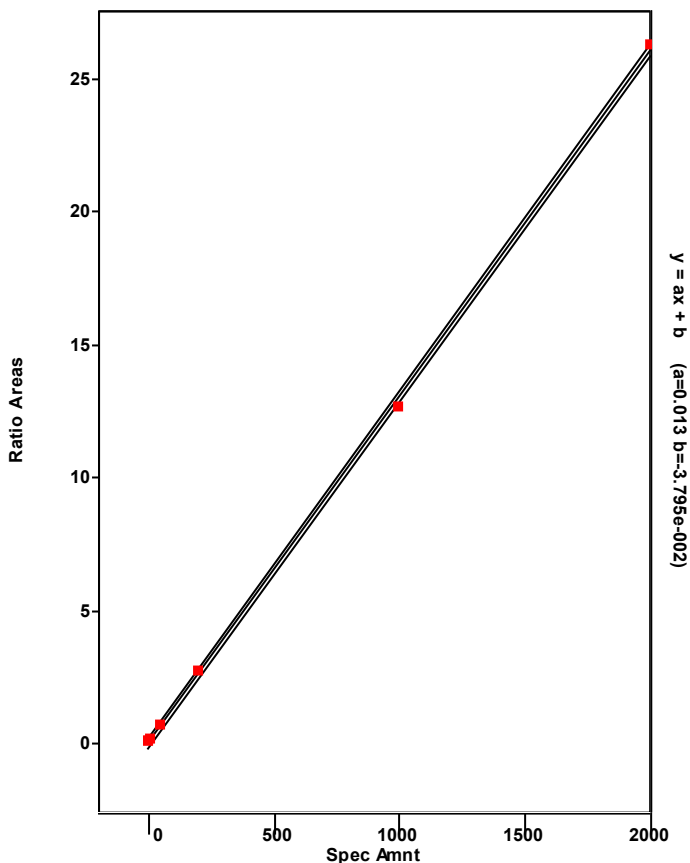


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	424039
RM1 Area	439053
RM1 Ratio (A)	1.0354
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	46.80
Percent Recovery (A)	94
TEQ (A)	0.4680
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

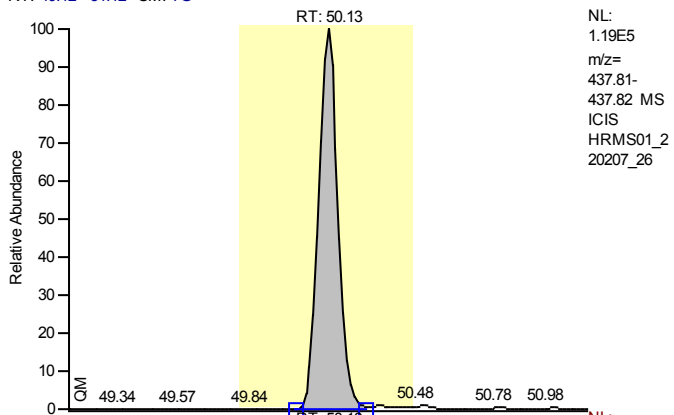
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



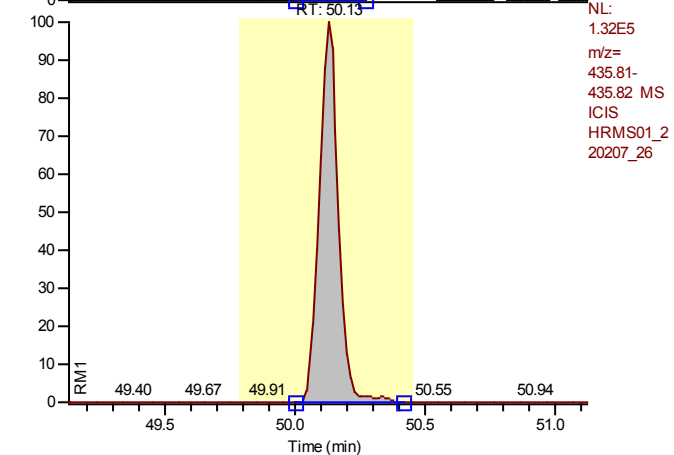
Chromatogram

Entry Parameters

RT: 49.12 - 51.12 SM: 7G

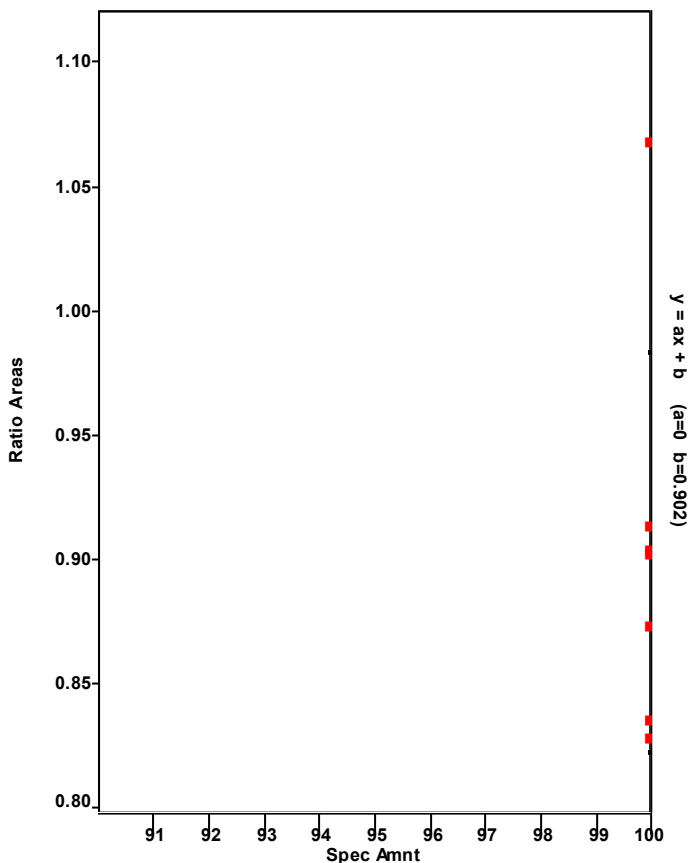


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	618807
RM1 Area	679494
RM1 Ratio (A)	1.0981
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	98.72
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

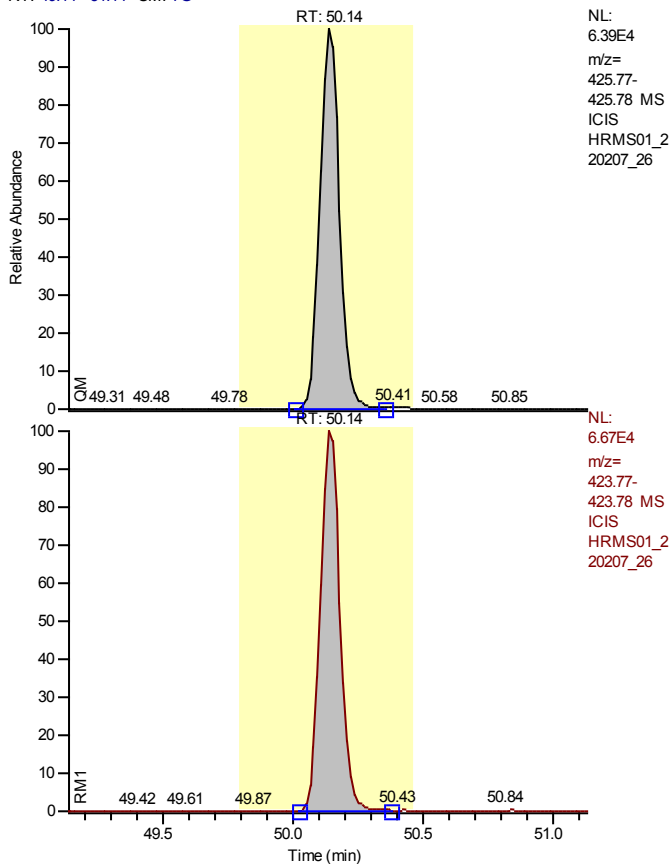
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.14 - 51.14 SM: 7G

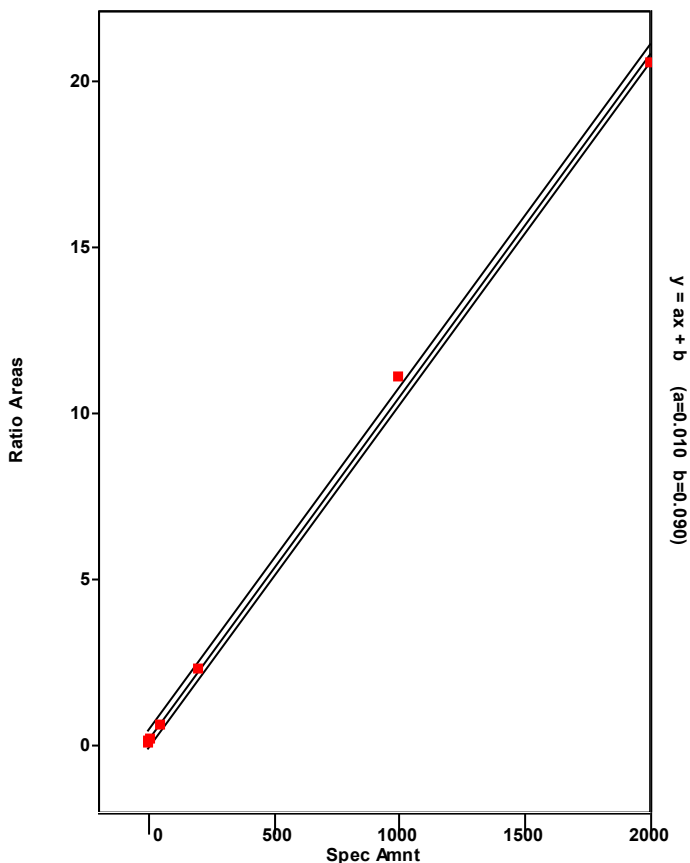


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	334962
RM1 Area	350711
RM1 Ratio (A)	1.0470
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.93
Percent Recovery (A)	98
TEQ (A)	0.4893
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

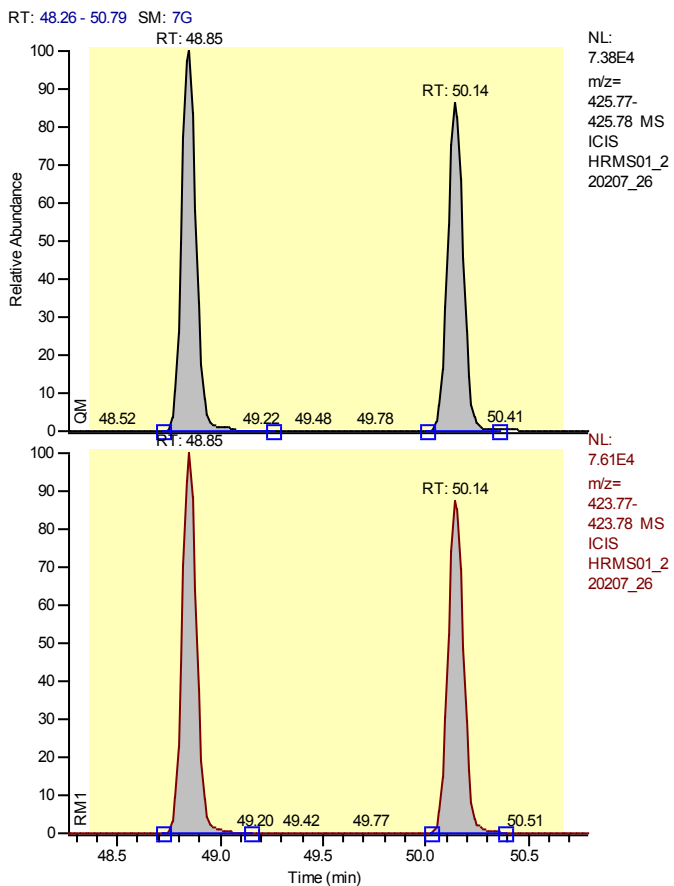
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

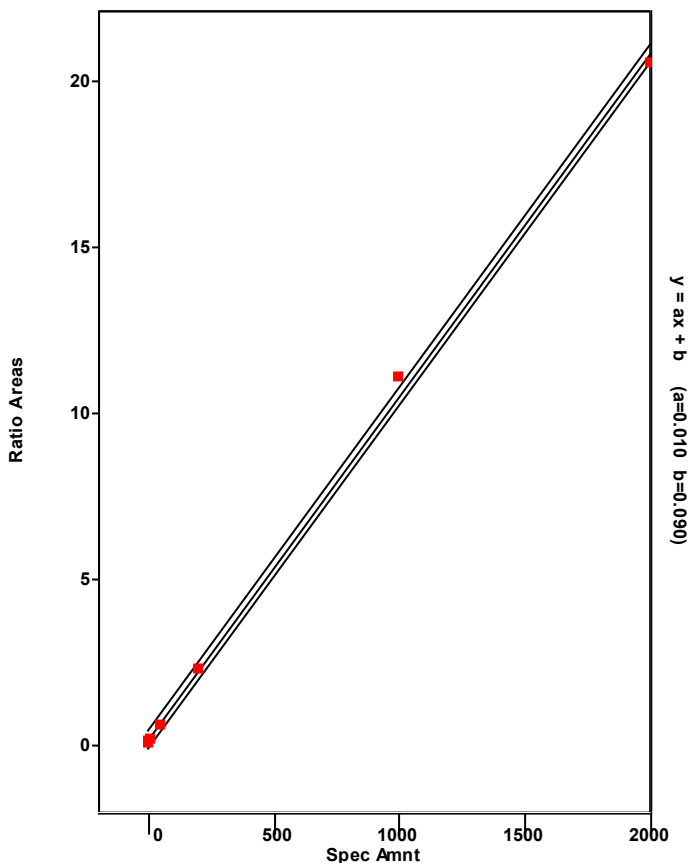


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	706224
RM1 Area	727931
RM1 Ratio (A)	1.0307
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	102.35
Percent Recovery (A)	205
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

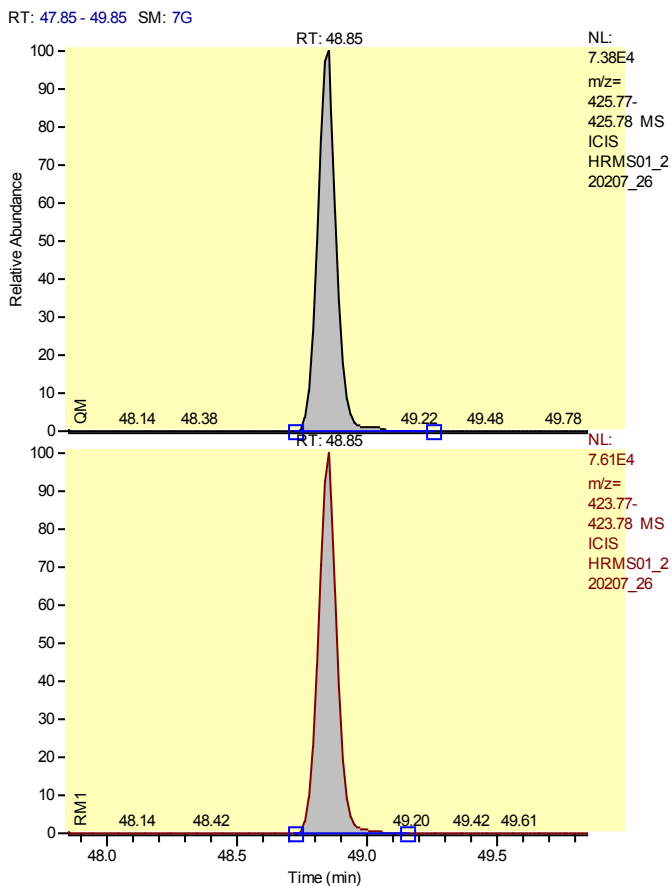
Calibration Points of Total Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

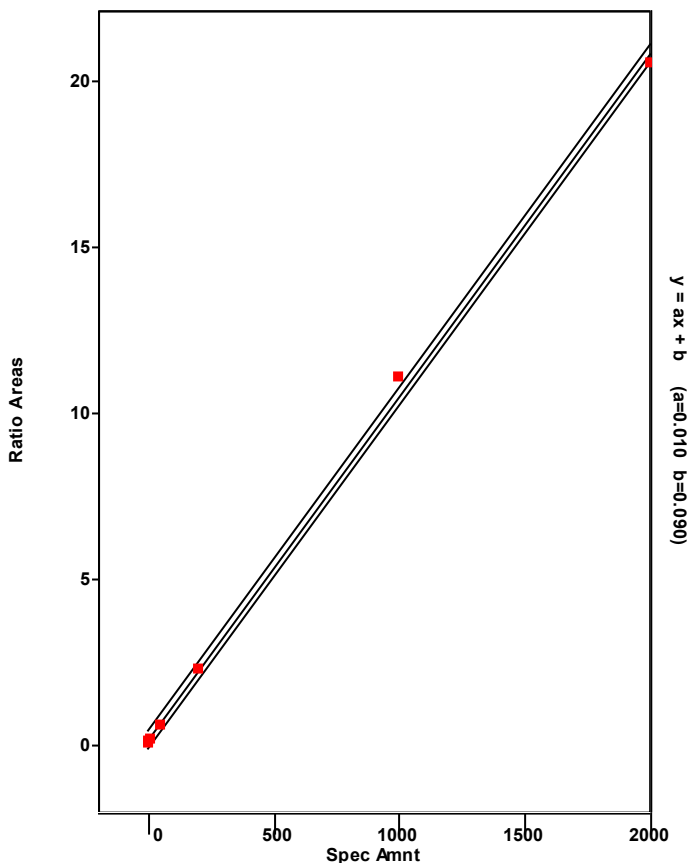


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	371262
RM1 Area	377220
RM1 Ratio (A)	1.0160
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	53.42
Percent Recovery (A)	107
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

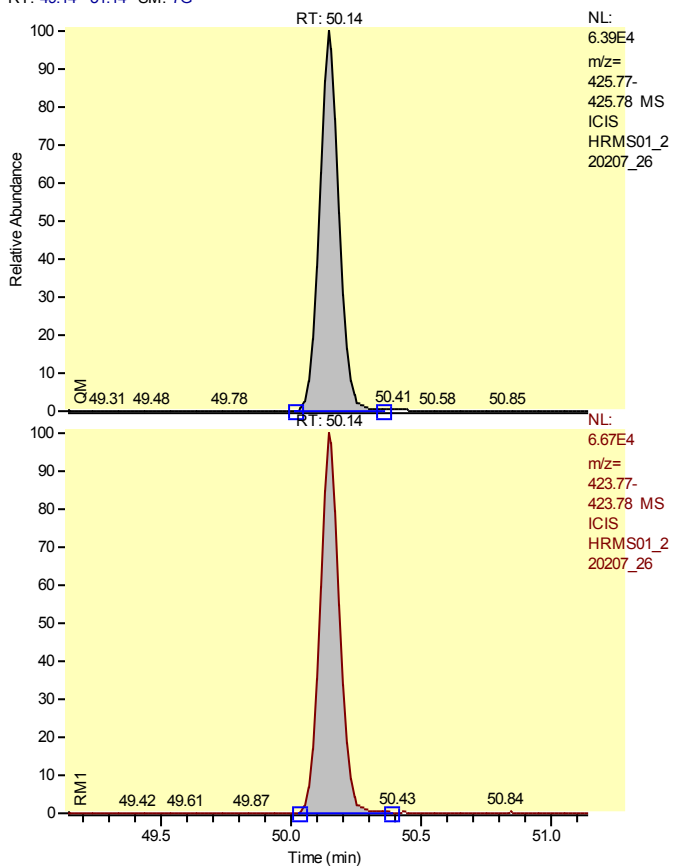
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.14 - 51.14 SM: 7G

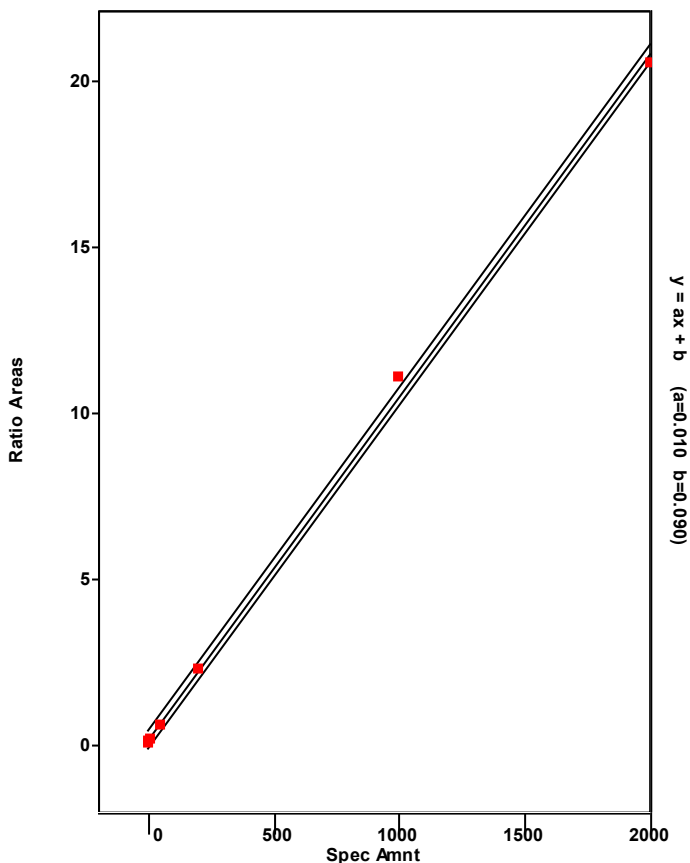


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	334962
RM1 Area	350711
RM1 Ratio (A)	1.0470
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.93
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

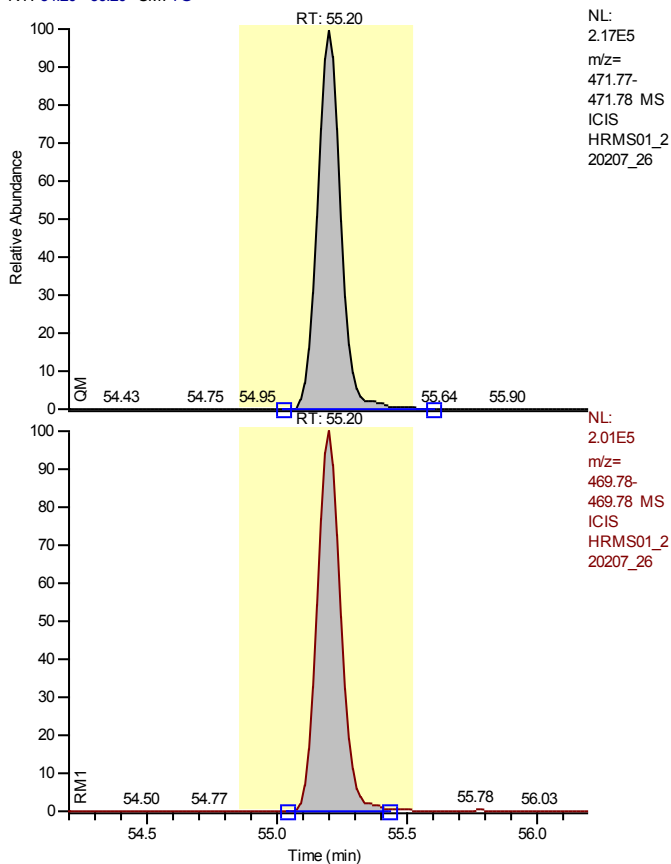
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 54.20 - 56.20 SM: 7G

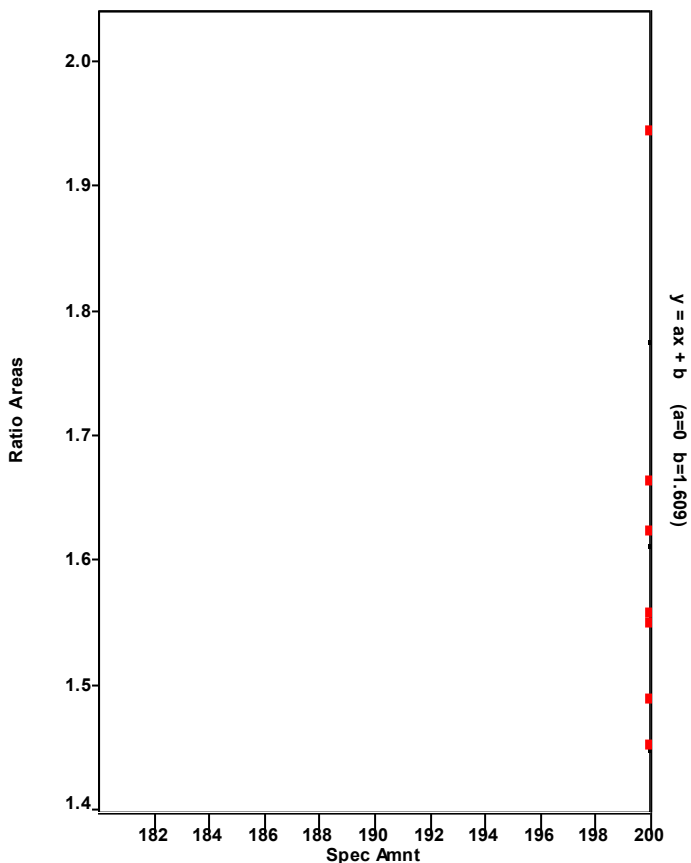


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1355707
RM1 Area	1276262
RM1 Ratio (A)	0.9414
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	224.29
Percent Recovery (A)	112
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

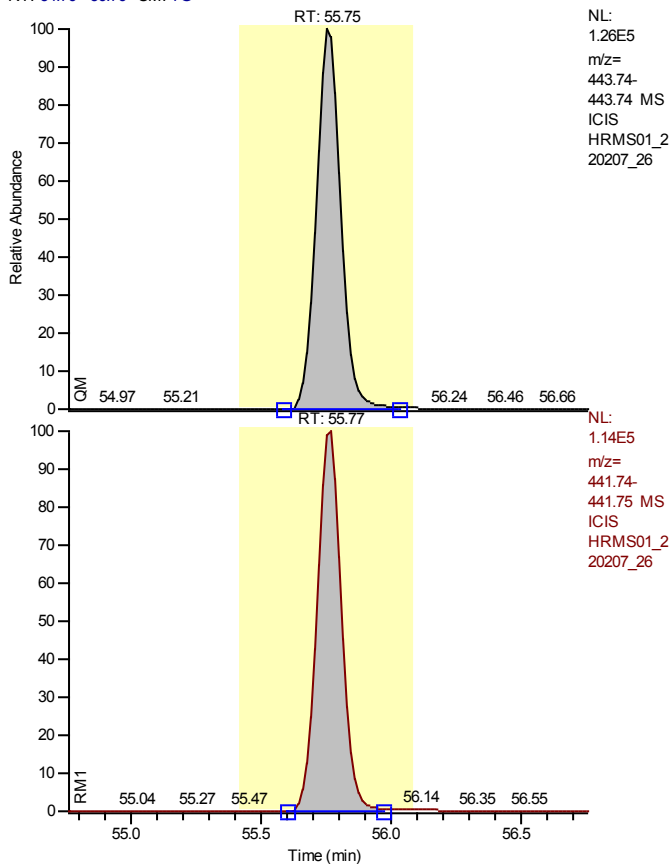
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.76 - 56.76 SM: 7G



NL:
1.26E5
m/z=
443.74-
443.74 MS
ICIS
HRMS01_2
20207_26

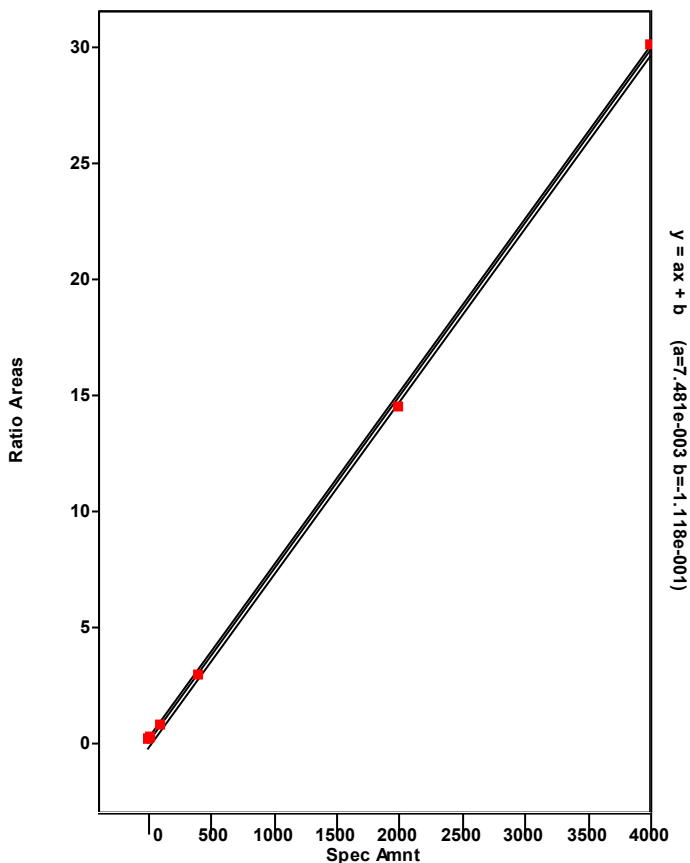
NL:
1.14E5
m/z=
441.74-
441.75 MS
ICIS
HRMS01_2
20207_26

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	821520
RM1 Area	743804
RM1 Ratio (A)	0.9054
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	85.25
Percent Recovery (A)	85
TEQ (A)	0.0256
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

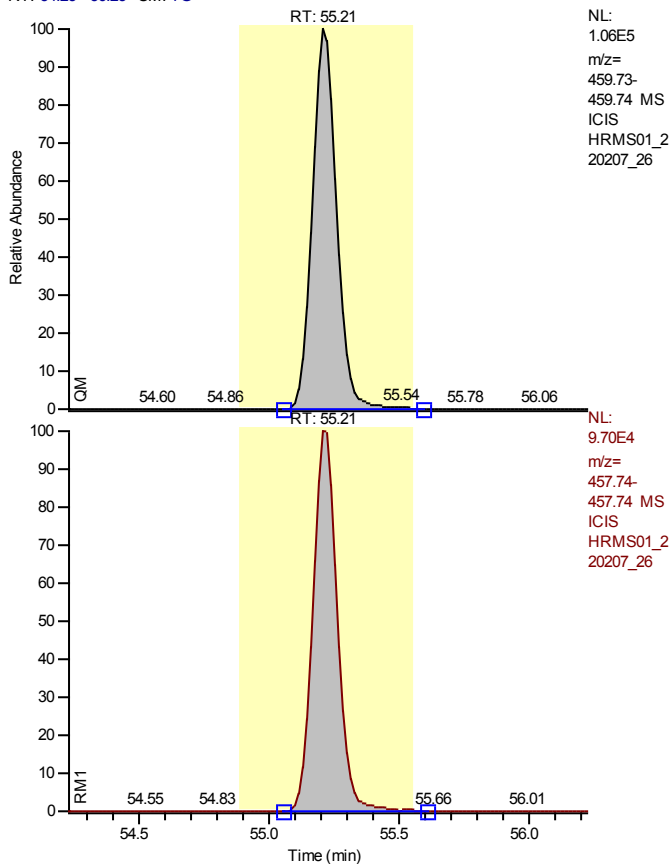
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.23 - 56.23 SM: 7G



NL:
1.06E5
m/z=
459.73-
459.74 MS
ICIS
HRMS01_2
20207_26

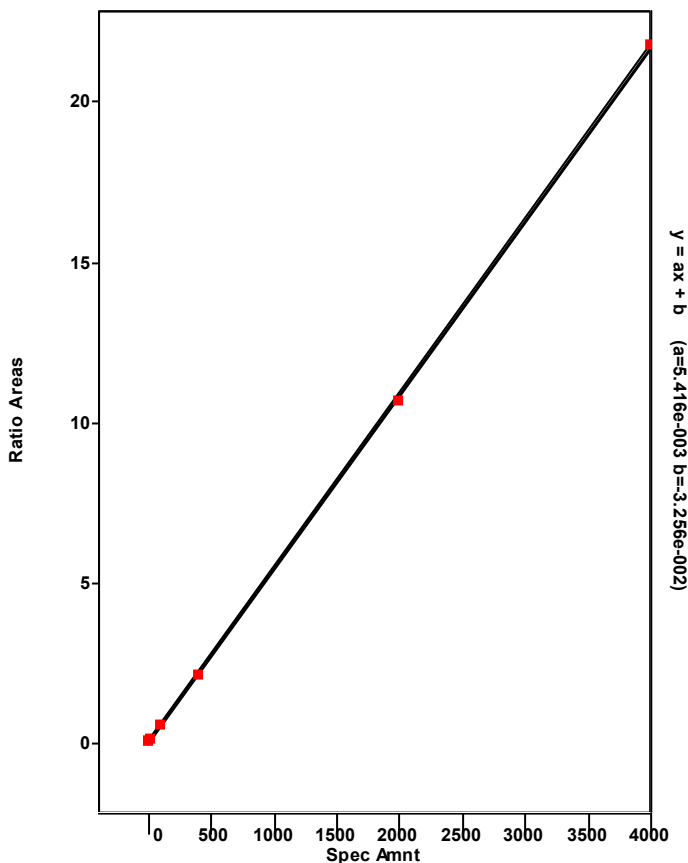
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	687167
RM1 Area	633173
RM1 Ratio (A)	0.9214
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	92.74
Percent Recovery (A)	93
TEQ (A)	0.0278
Label2	

NL:
9.70E4
m/z=
457.74-
457.74 MS
ICIS
HRMS01_2
20207_26

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917

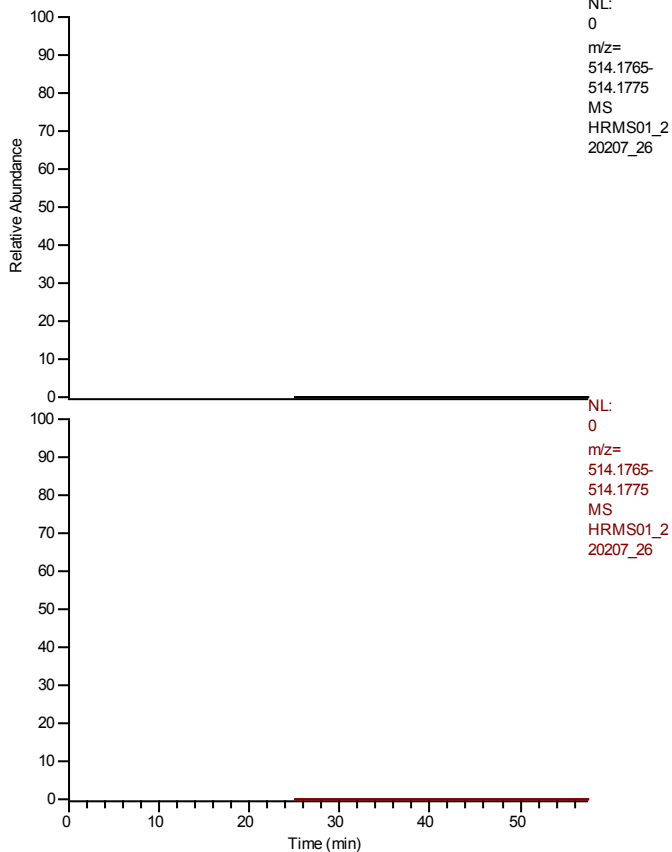


$y = ax + b$ (a=5.416e-003 b=-3.256e-002)

Chromatogram

Entry Parameters

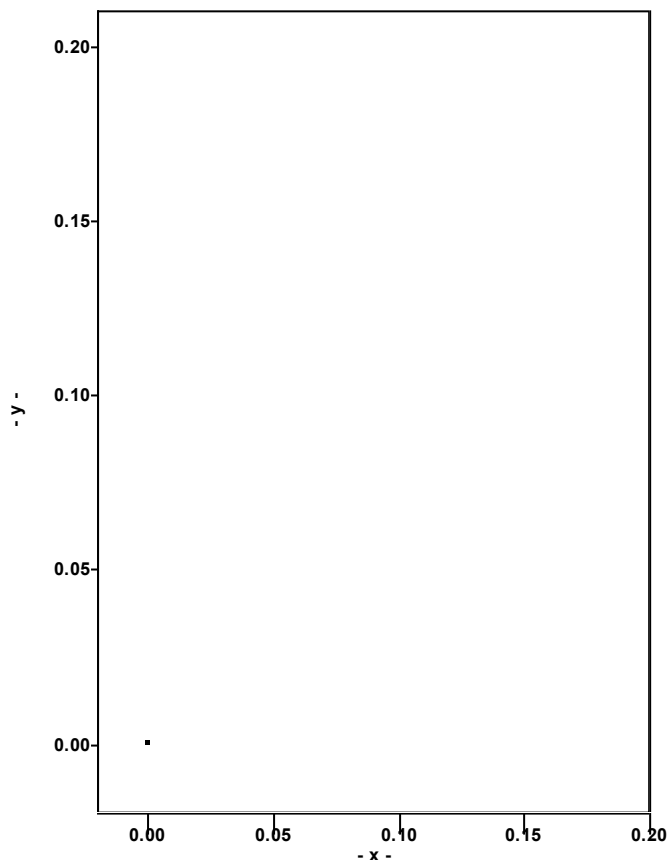
RT: 0.00 - 57.51 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	6548386
RM1 Area	7544752
RM1 Ratio (A)	1.1522
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	812.43
Percent Recovery (A)	---
TEQ (A)	110.0259
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/09 10:17
Number of Entries	72
Comment	HRMS210614B
Vial	2
Sample Name	WG1602307-3
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_42_seq
Data	hrms01_220207_42
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_ver
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

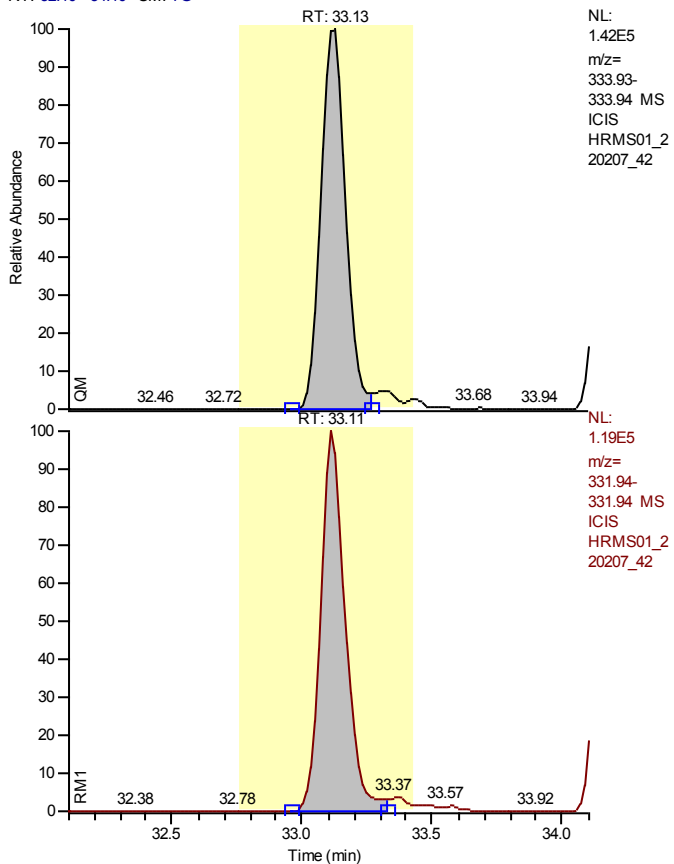
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		937194	772952	0.8248	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1486374	1263906	0.8503	0.6500 - 0.8900	100.00	98.98	99	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	148613	119891	0.8067	0.6500 - 0.8900	10.00	10.50	105	1.0505
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	497561	401655	0.8072	0.6500 - 0.8900	10.00	35.18	352	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	158803	124505	0.7840	0.6500 - 0.8900	10.00	11.08	111	0.0000
6	Total Tetrachlorodibenzofuran__2	Single native TCDF	CAS# 55722-27-5	190145	157259	0.8270	0.6500 - 0.8900	10.00	13.59	136	0.0000
7	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	148613	119891	0.8067	0.6500 - 0.8900	10.00	10.50	105	0.0000
8	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1109145	894755	0.8067	0.6500 - 0.8900	100.00	100.72	101	0.0000
9	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	115160	95602	0.8302	0.6500 - 0.8900	10.00	9.94	99	9.9378
10	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	558177	452044	0.7931	0.6500 - 0.8900	10.00	47.63	432	0.0000
11	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	183744	134002	0.7293	0.6500 - 0.8900	10.00	14.98	150	0.0000
12	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	111409	89292	0.8015	0.6500 - 0.8900	10.00	9.46	95	0.0000
13	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	47546	47051	0.9896	0.6500 - 0.8900	10.00	n.d. < 4.46	45	n.d.
14	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	115160	95602	0.8302	0.6500 - 0.8900	10.00	9.94	99	0.0000
15	Total Tetrachlorodibenzo-p-dioxin__5	Single native TCDD	CAS# 41903-57-5	100318	86097	0.8582	0.6500 - 0.8900	10.00	8.79	88	0.0000
16	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		910913	1473270	1.6174	1.3200 - 1.7800	100.00	96.13	96	0.0000
17	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	469744	722490	1.5380	1.3200 - 1.7800	50.00	50.51	101	1.5153
18	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	2044061	3194683	1.5629	1.3200 - 1.7800	50.00	218.51	437	0.0000
19	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	504776	802859	1.5905	1.3200 - 1.7800	50.00	54.54	109	0.0000
20	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	565259	877345	1.5521	1.3200 - 1.7800	50.00	60.17	120	0.0000
21	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	469744	722490	1.5380	1.3200 - 1.7800	50.00	49.73	99	0.0000
22	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	504282	791990	1.5705	1.3200 - 1.7800	50.00	54.07	108	0.0000
23	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		948764	1484180	1.5643	1.3200 - 1.7800	100.00	104.25	104	0.0000
24	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	504776	802859	1.5905	1.3200 - 1.7800	50.00	49.55	99	14.8660
25	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		582627	980740	1.6833	1.3200 - 1.7800	100.00	100.33	100	0.0000
26	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	314627	485979	1.5446	1.3200 - 1.7800	50.00	51.05	102	51.0541
27	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	1192990	1892831	1.5866	1.3200 - 1.7800	50.00	196.78	394	0.0000
28	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	386125	617471	1.5991	1.3200 - 1.7800	50.00	64.00	128	0.0000
29	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	492238	789381	1.6037	1.3200 - 1.7800	50.00	81.73	163	0.0000
30	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	314627	485979	1.5446	1.3200 - 1.7800	50.00	51.05	102	0.0000
31	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		183685	183685	1.0000	0.8500 - 1.1500	10.00	8.58	86	0.0000
32	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		862336	1059263	1.2284	1.0500 - 1.4300	100.00	100.00	100	0.0000
33	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1462451	825391	0.5644	0.4300 - 0.5900	100.00	105.97	106	0.0000
34	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	638720	792589	1.2409	1.0500 - 1.4300	50.00	54.28	109	5.4281
35	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	3132652	3922744	1.2522	1.0500 - 1.4300	50.00	257.92	516	0.0000
36	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	669588	807201	1.2055	1.0500 - 1.4300	50.00	53.99	108	0.0000
37	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	639576	810395	1.2671	1.0500 - 1.4300	50.00	53.01	106	0.0000
38	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	638720	792589	1.2409	1.0500 - 1.4300	50.00	52.32	105	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran_4	Single native HxCDF	CAS# 55684-94-1	647423	846596	1.3076	1.0500 - 1.4300	50.00	54.62	109	0.0000
40	Total Hexachlorodibenzofuran_5	Single native HxCDF	CAS# 55684-94-1	537345	665964	1.2394	1.0500 - 1.4300	50.00	43.99	88	0.0000
41	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1690516	881157	0.5212	0.4300 - 0.5900	100.00	110.74	111	0.0000
42	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	647423	846596	1.3076	1.0500 - 1.4300	50.00	50.78	102	5.0780
43	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1610277	828764	0.5147	0.4300 - 0.5900	100.00	107.76	108	0.0000
44	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	669588	807201	1.2055	1.0500 - 1.4300	50.00	50.74	101	5.0740
45	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1368727	753295	0.5504	0.4300 - 0.5900	100.00	96.38	96	0.0000
46	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	537345	665964	1.2394	1.0500 - 1.4300	50.00	50.64	101	5.0645
47	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		774644	994049	1.2832	1.0500 - 1.4300	100.00	103.15	103	0.0000
48	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	398350	520883	1.3076	1.0500 - 1.4300	50.00	49.88	100	4.9879
49	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	1722807	2145259	1.2452	1.0500 - 1.4300	50.00	200.87	402	0.0000
50	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	457080	570081	1.2472	1.0500 - 1.4300	50.00	53.34	107	0.0000
51	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	398350	520883	1.3076	1.0500 - 1.4300	50.00	47.74	95	0.0000
52	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	445884	529758	1.1881	1.0500 - 1.4300	50.00	50.67	101	0.0000
53	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	421492	524538	1.2445	1.0500 - 1.4300	50.00	49.13	98	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		885502	998016	1.1271	1.0500 - 1.4300	100.00	105.03	105	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	445884	529758	1.1881	1.0500 - 1.4300	50.00	48.76	98	4.8762
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	421492	524538	1.2445	1.0500 - 1.4300	50.00	47.21	94	4.7208
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1380925	622337	0.4507	0.3700 - 0.5100	100.00	95.59	96	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	654528	680025	1.0390	0.8800 - 1.2000	50.00	51.79	104	0.5179
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1229695	1271475	1.0340	0.8800 - 1.2000	50.00	99.78	200	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	654528	680025	1.0390	0.8800 - 1.2000	50.00	53.24	106	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	575168	591450	1.0283	0.8800 - 1.2000	50.00	46.54	93	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1257475	610934	0.4858	0.3700 - 0.5100	100.00	94.39	94	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	575168	591450	1.0283	0.8800 - 1.2000	50.00	48.40	97	0.4840
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		845570	845334	0.9997	0.8800 - 1.2000	100.00	97.58	98	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	437012	460816	1.0545	0.8800 - 1.2000	50.00	49.20	98	0.4920
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	925718	983673	1.0626	0.8800 - 1.2000	50.00	104.63	209	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	488706	522857	1.0699	0.8800 - 1.2000	50.00	55.43	111	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	437012	460816	1.0545	0.8800 - 1.2000	50.00	49.20	98	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1482021	1342222	0.9057	0.7600 - 1.0200	200.00	182.65	91	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	926237	860025	0.9285	0.7600 - 1.0200	100.00	90.66	91	0.0272
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	754520	672610	0.8914	0.7600 - 1.0200	100.00	93.42	93	0.0280
72	overall TEQ	overall TEQ test		8659187	10179274	1.1755	0.0000 - 0.0000	0.00	857.33	---	115.2022

Chromatogram

Entry Parameters

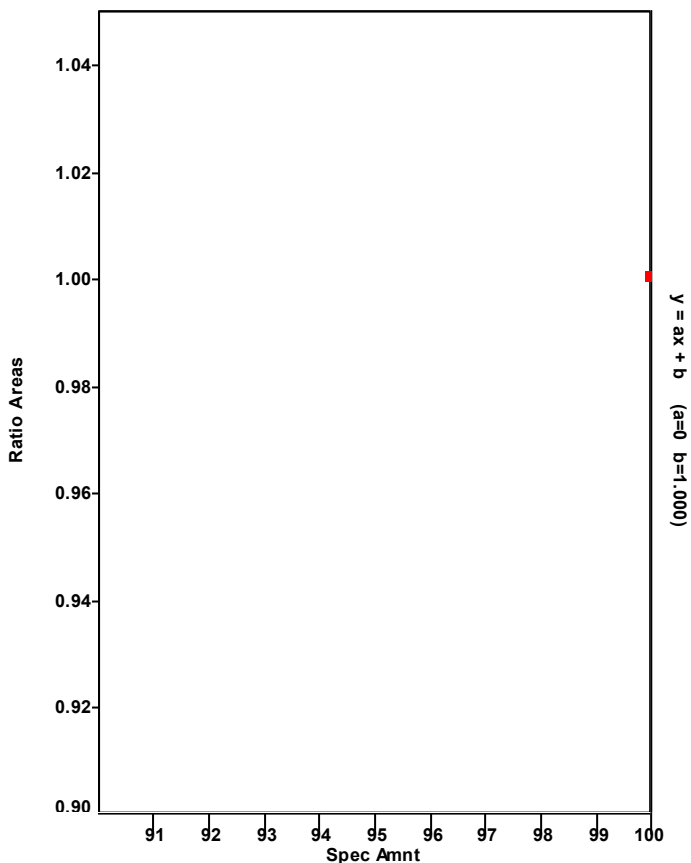
RT: 32.10 - 34.10 SM: 7G



Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	937194
RM1 Area	772952
RM1 Ratio (A)	0.8248
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

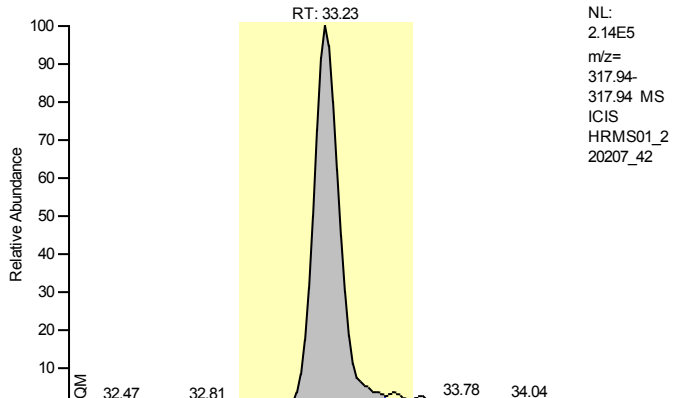
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Chromatogram

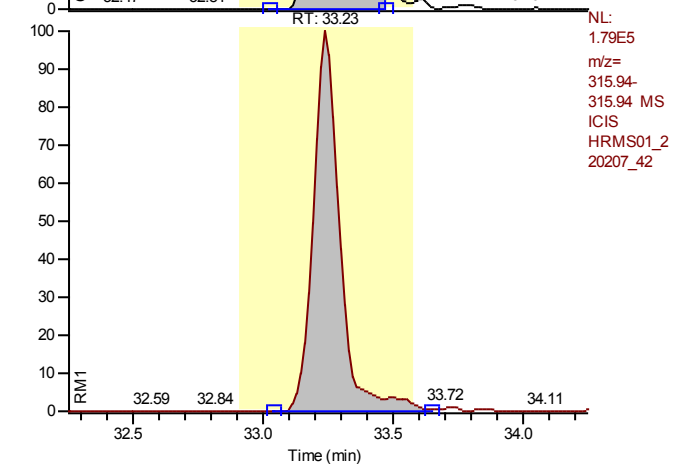
Entry Parameters

RT: 32.25 - 34.25 SM: 7G



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 20207_42

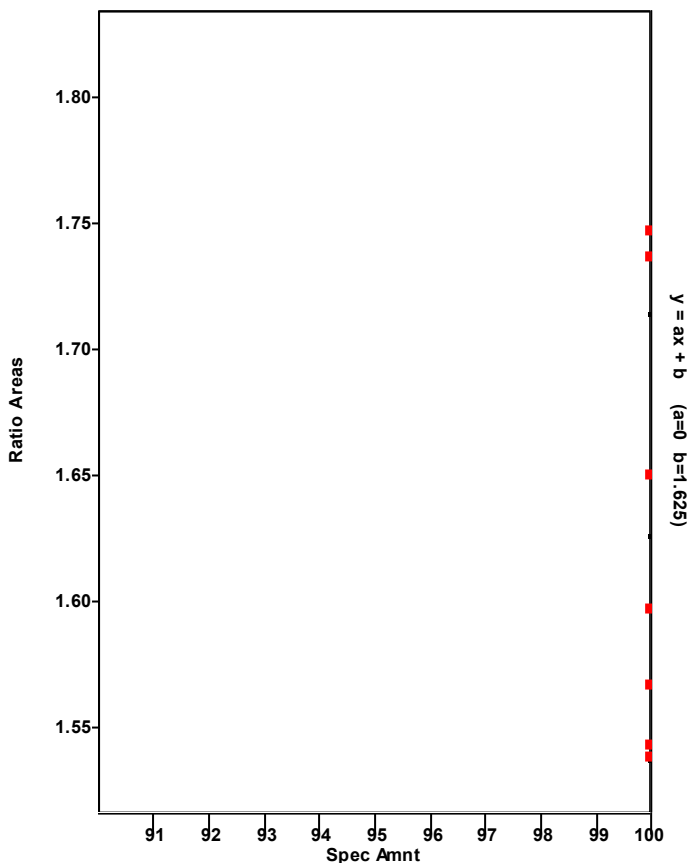
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1486374
RM1 Area	1263906
RM1 Ratio (A)	0.8503
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	98.98
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



NL:
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 ICIS
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 20207_42

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

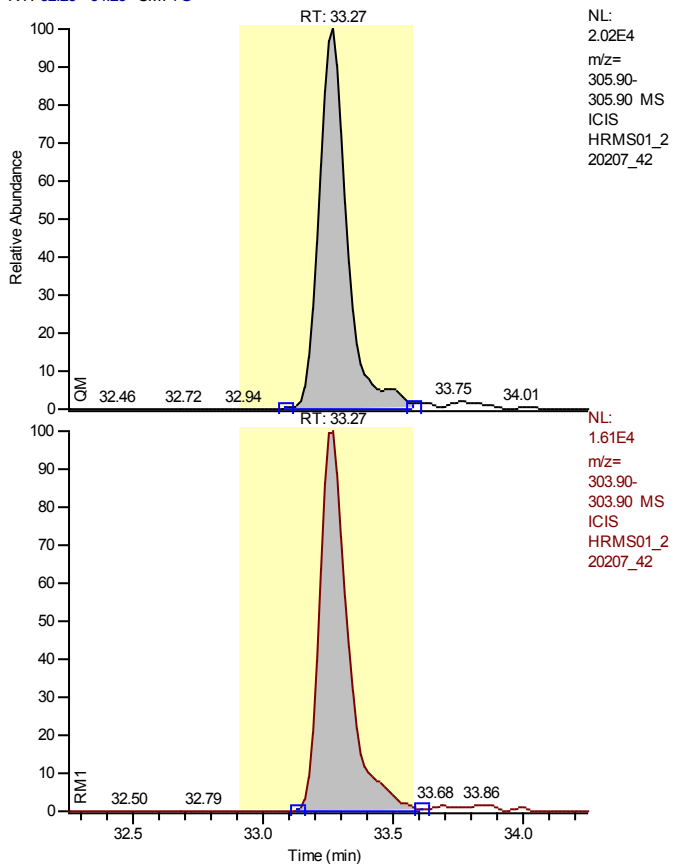
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

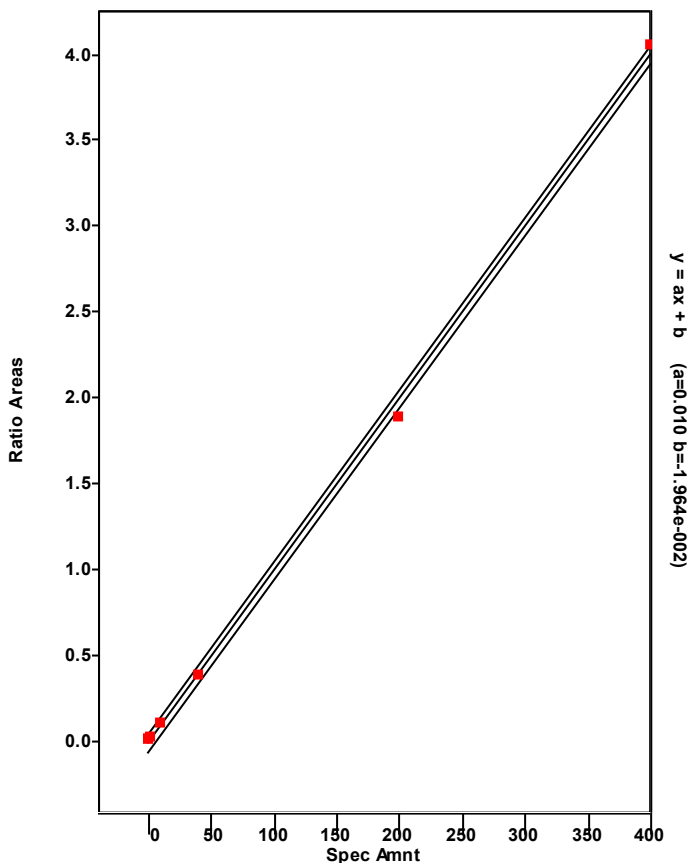
RT: 32.25 - 34.25 SM: 7G



Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	148613
RM1 Area	119891
RM1 Ratio (A)	0.8067
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.50
Percent Recovery (A)	105
TEQ (A)	1.0505
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

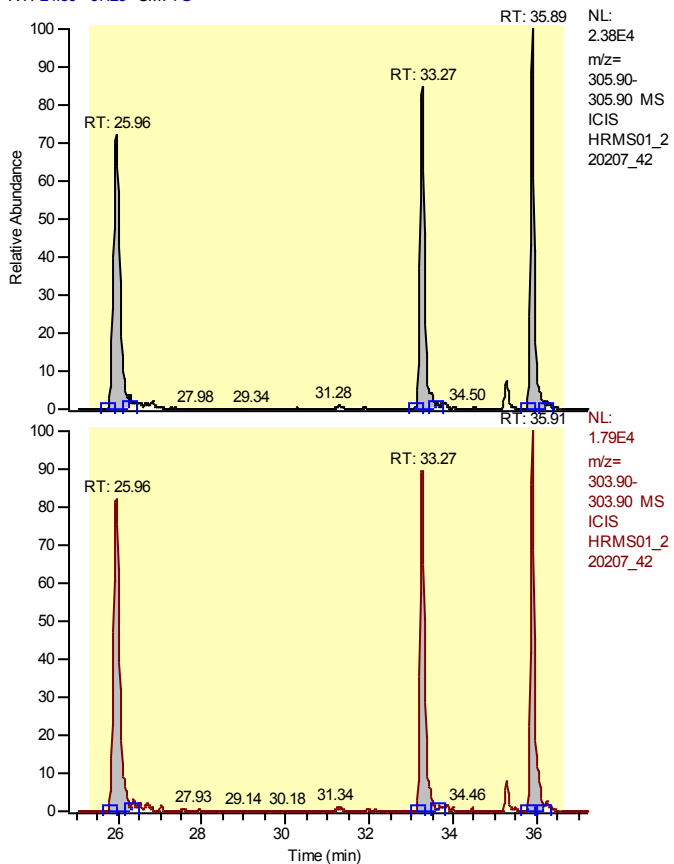
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

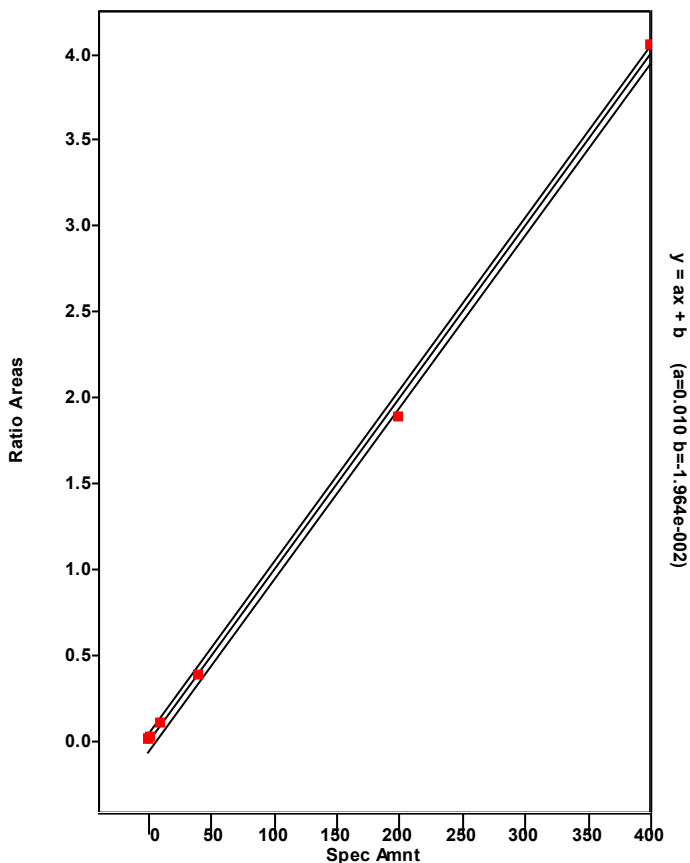
RT: 24.80 - 37.23 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	497561
RM1 Area	401655
RM1 Ratio (A)	0.8072
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	35.18
Percent Recovery (A)	352
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran

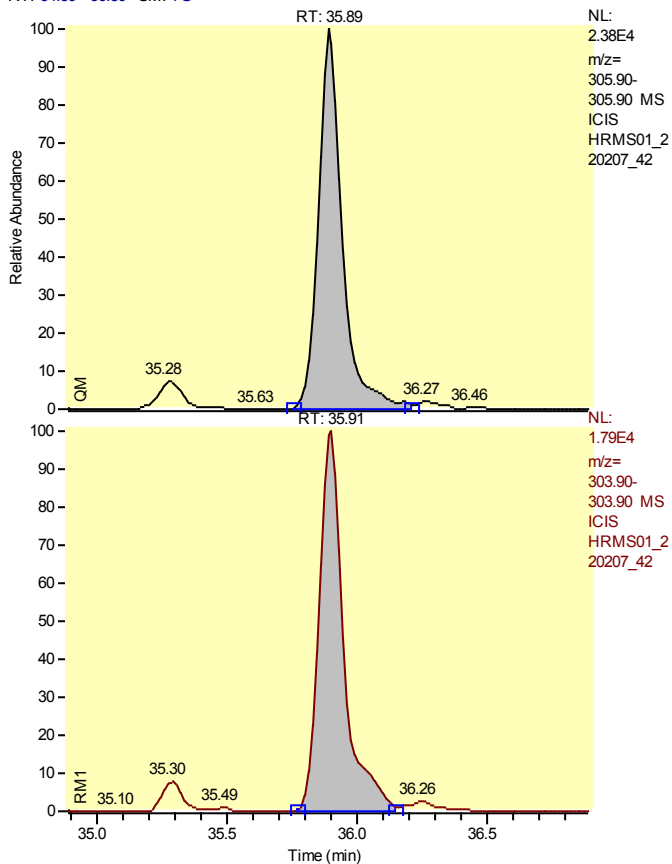
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Chromatogram

Entry Parameters

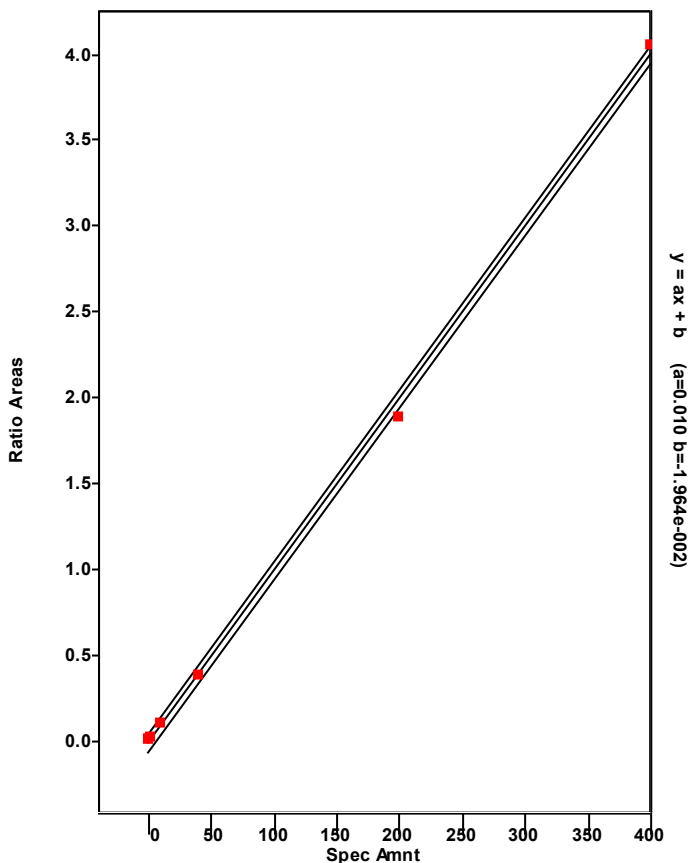
RT: 34.89 - 36.89 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	158803
RM1 Area	124505
RM1 Ratio (A)	0.7840
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	11.08
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__1

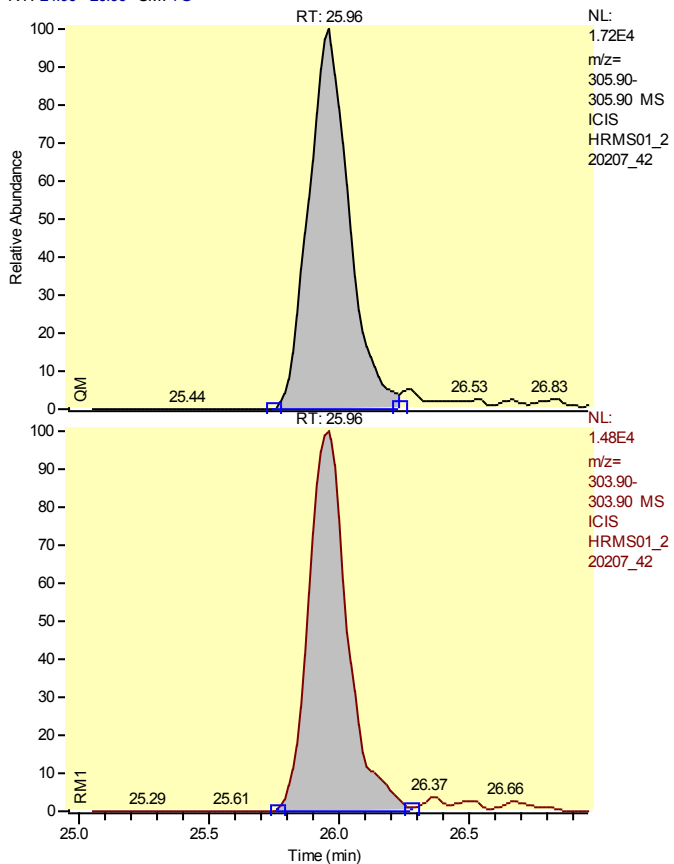
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

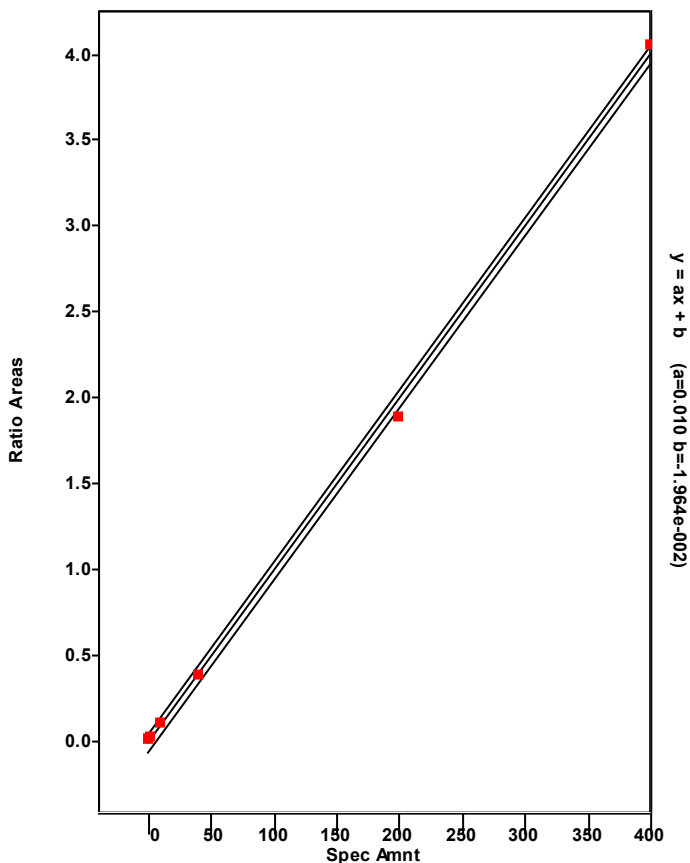
RT: 24.96 - 26.96 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__2
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	190145
RM1 Area	157259
RM1 Ratio (A)	0.8270
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	13.59
Percent Recovery (A)	136
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__2

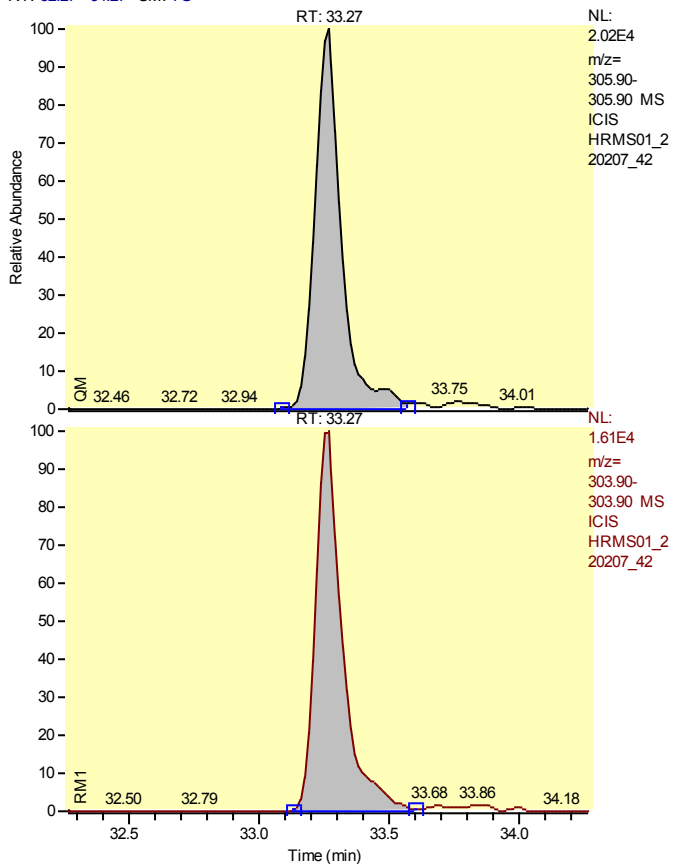
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

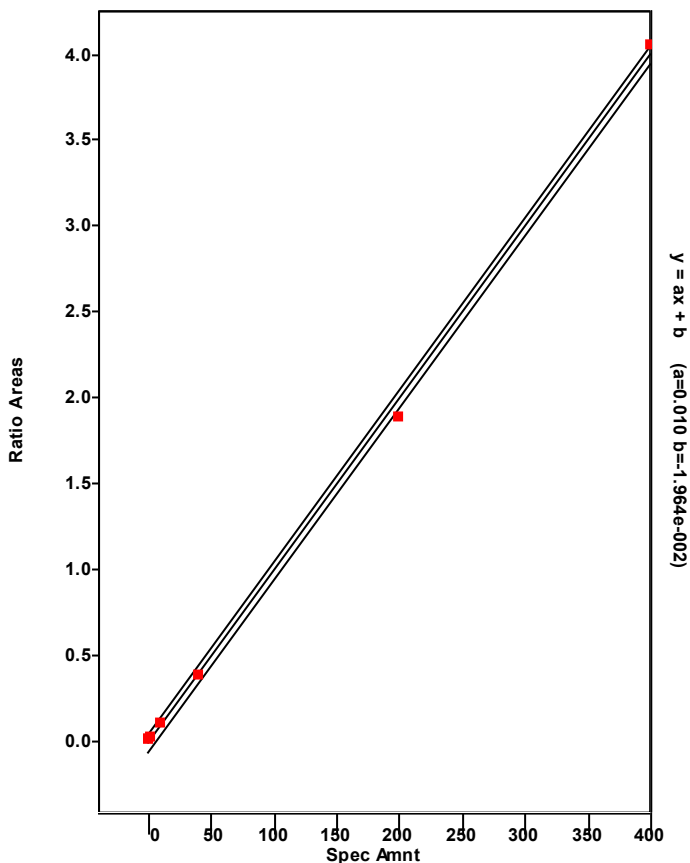
RT: 32.27 - 34.27 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	148613
RM1 Area	119891
RM1 Ratio (A)	0.8067
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.50
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__3

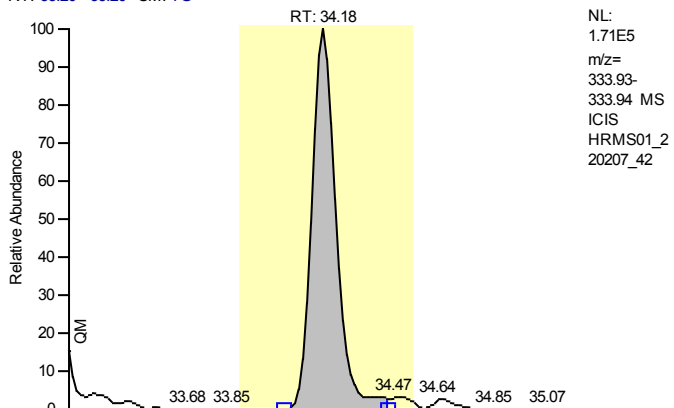
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

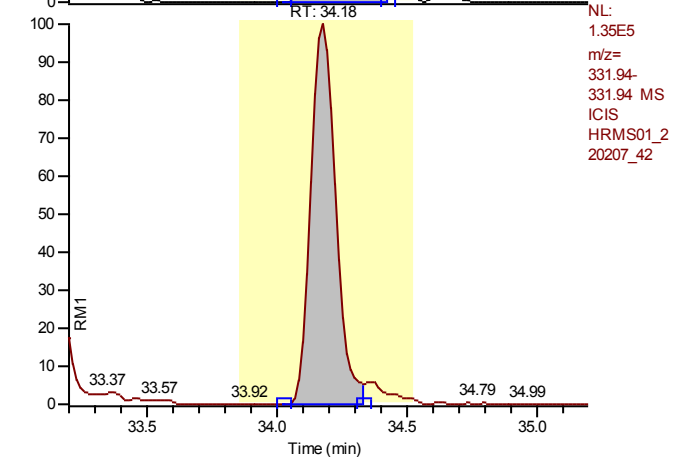
Entry Parameters

RT: 33.20 - 35.20 SM: 7G



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20207_42

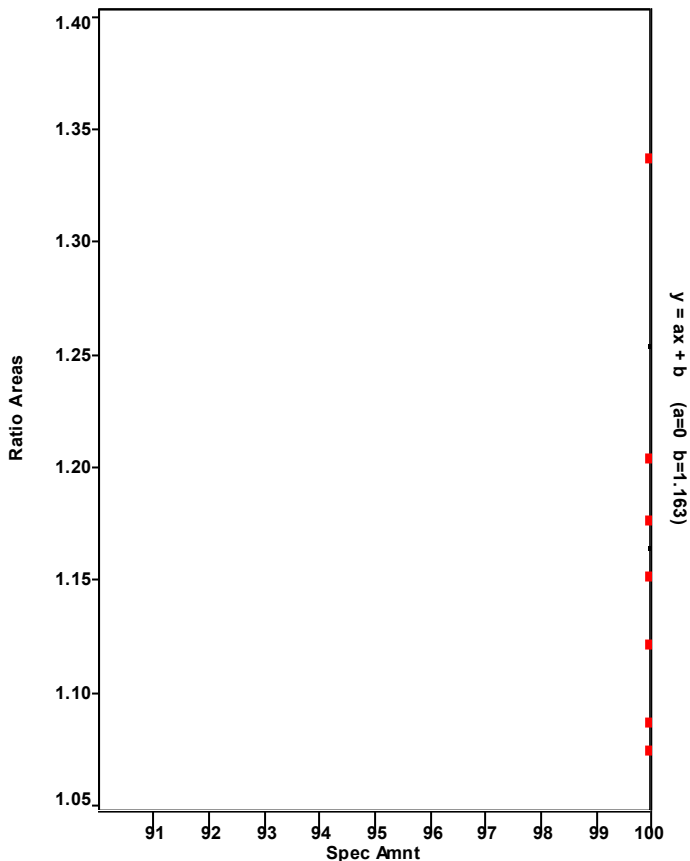
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Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1109145
RM1 Area	894755
RM1 Ratio (A)	0.8067
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.72
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	



NL:
1.35E5
m/z=
331.94-
331.94 MS
ICIS
HRMS01_2
20207_42

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

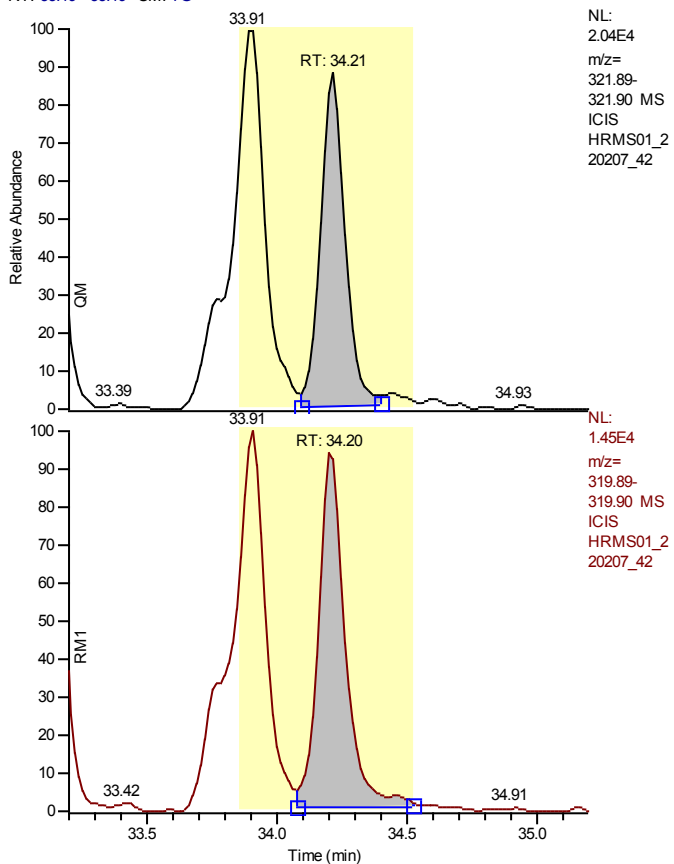
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

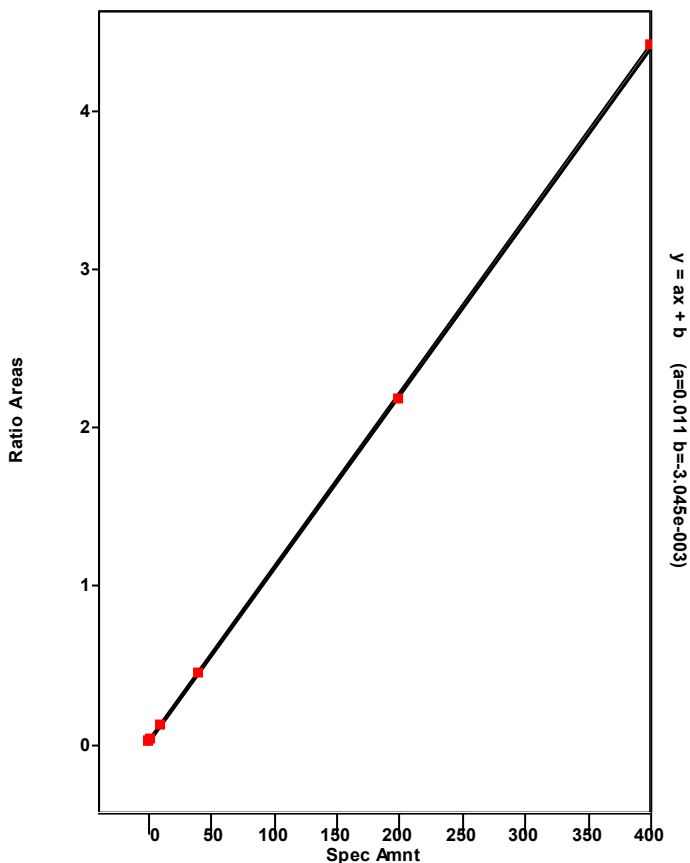
RT: 33.19 - 35.19 SM: 7G



Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	115160
RM1 Area	95602
RM1 Ratio (A)	0.8302
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.94
Percent Recovery (A)	99
TEQ (A)	9.9378
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

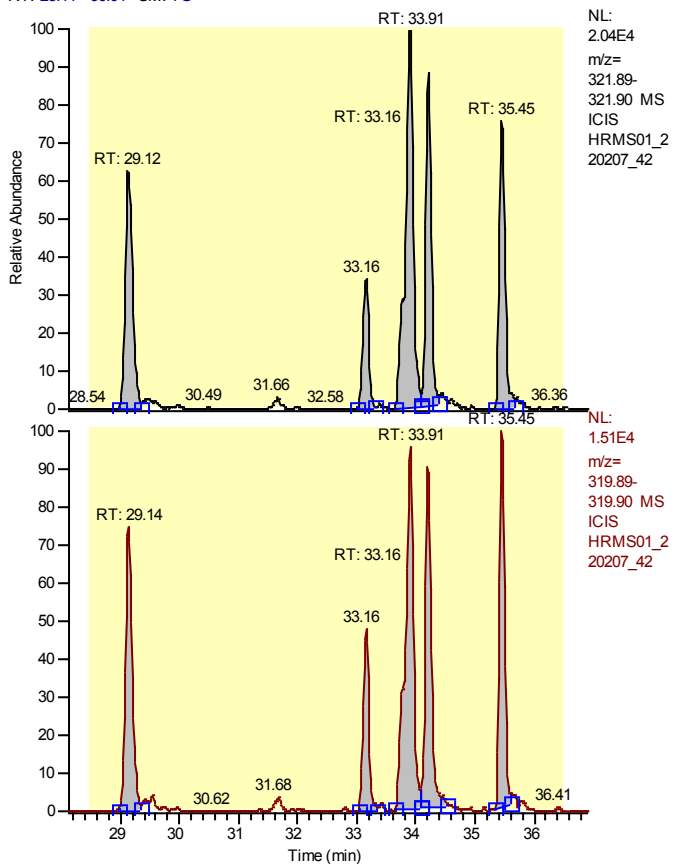
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

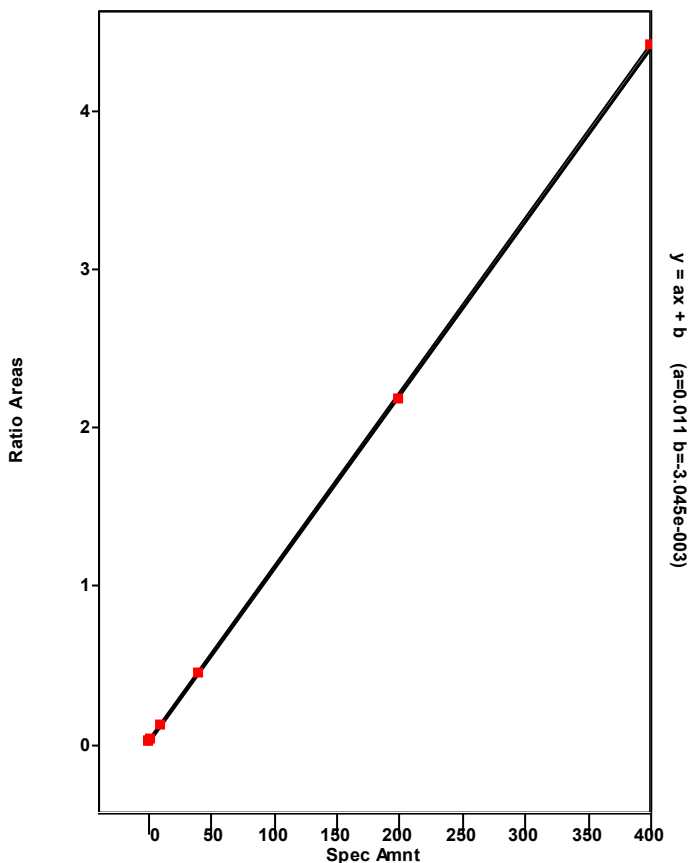
RT: 28.11 - 36.91 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	558177
RM1 Area	452044
RM1 Ratio (A)	0.7931
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	47.63
Percent Recovery (A)	432
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

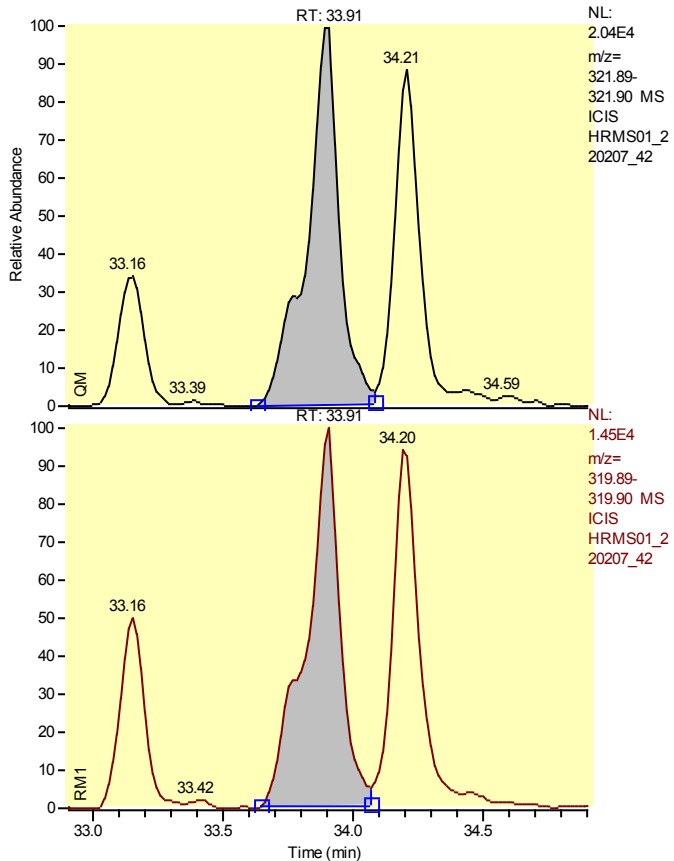
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

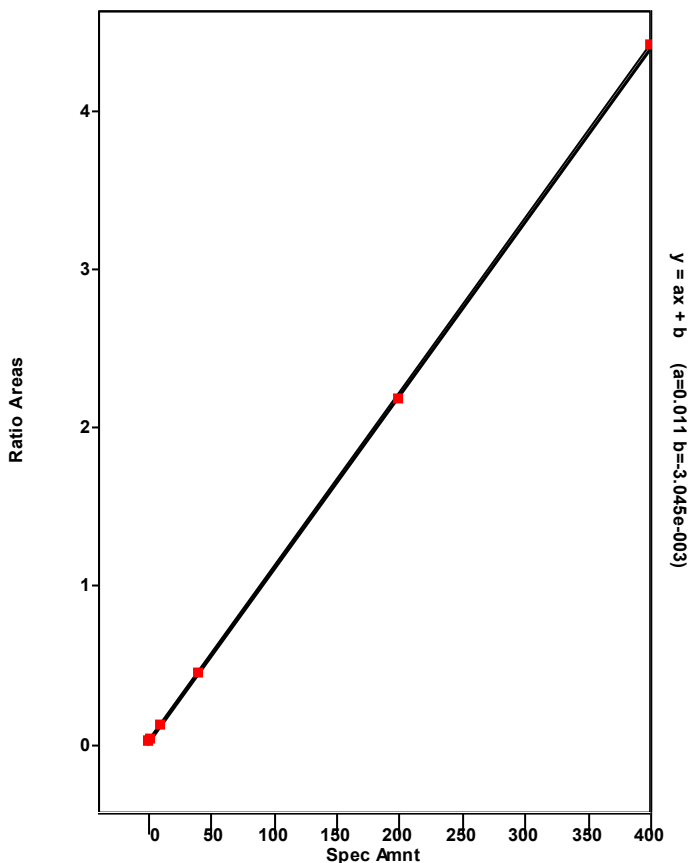
RT: 32.91 - 34.91 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	183744
RM1 Area	134002
RM1 Ratio (A)	0.7293
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	14.98
Percent Recovery (A)	150
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

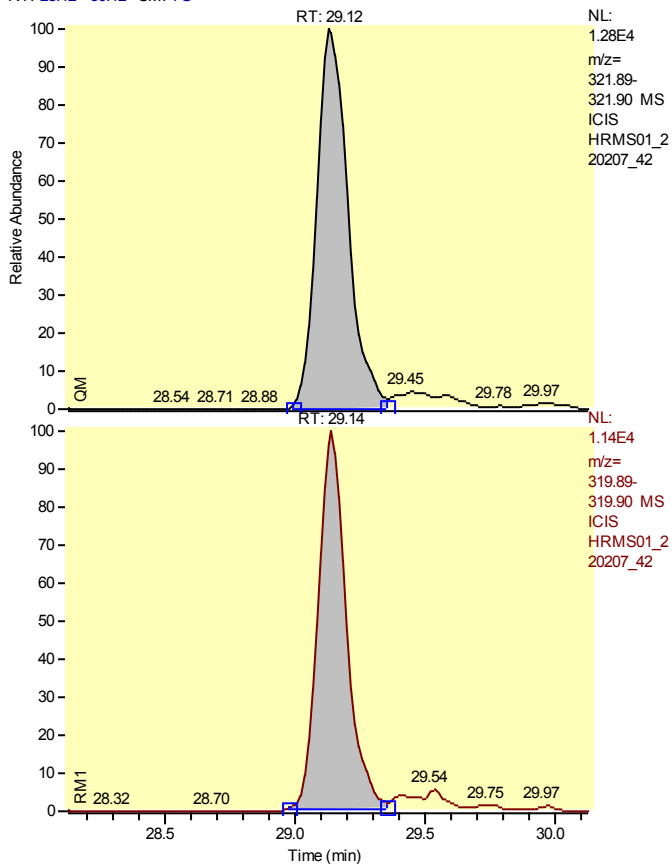
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

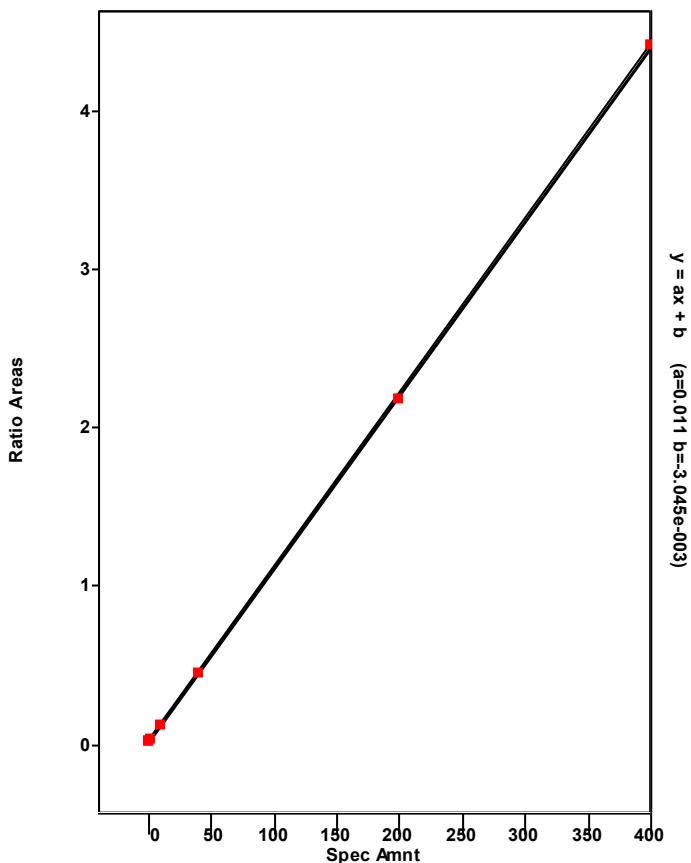
RT: 28.12-30.12 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	111409
RM1 Area	89292
RM1 Ratio (A)	0.8015
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.46
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

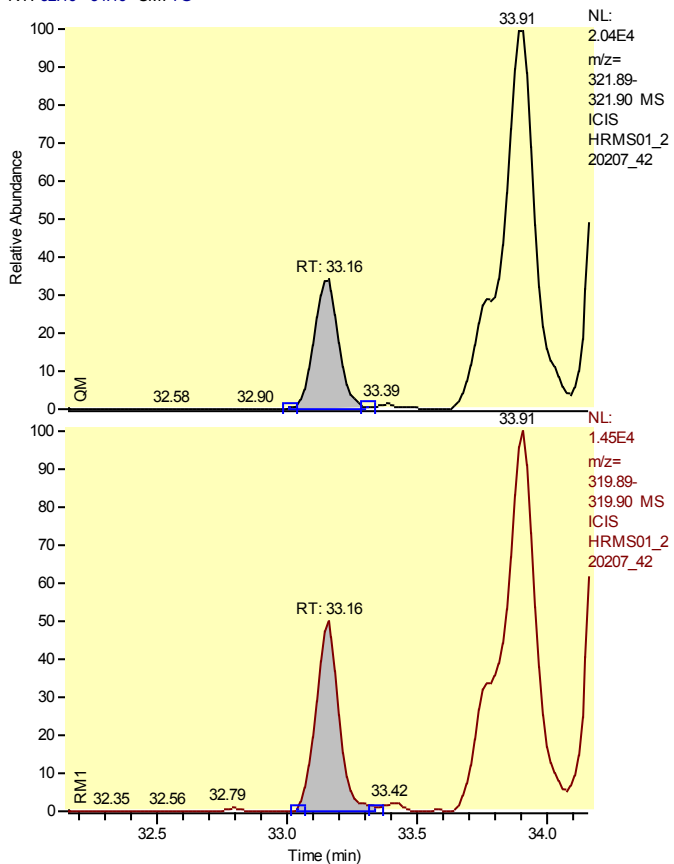
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

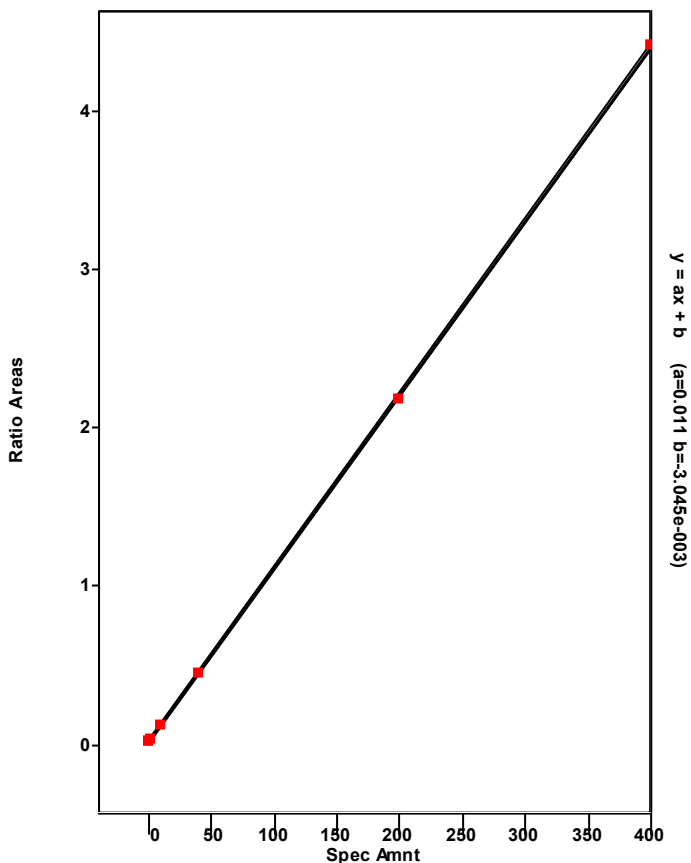
RT: 32.16 - 34.16 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	47546
RM1 Area	47051
RM1 Ratio (A)	0.9896
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	n.d. < 4.46
Percent Recovery (A)	45
TEQ (A)	n.d.
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

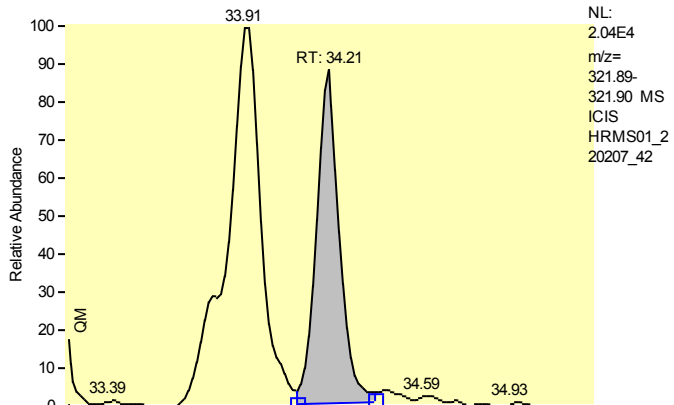
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



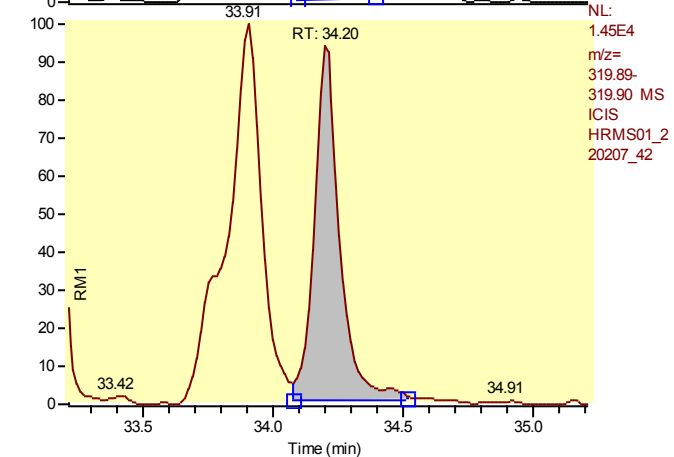
Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G

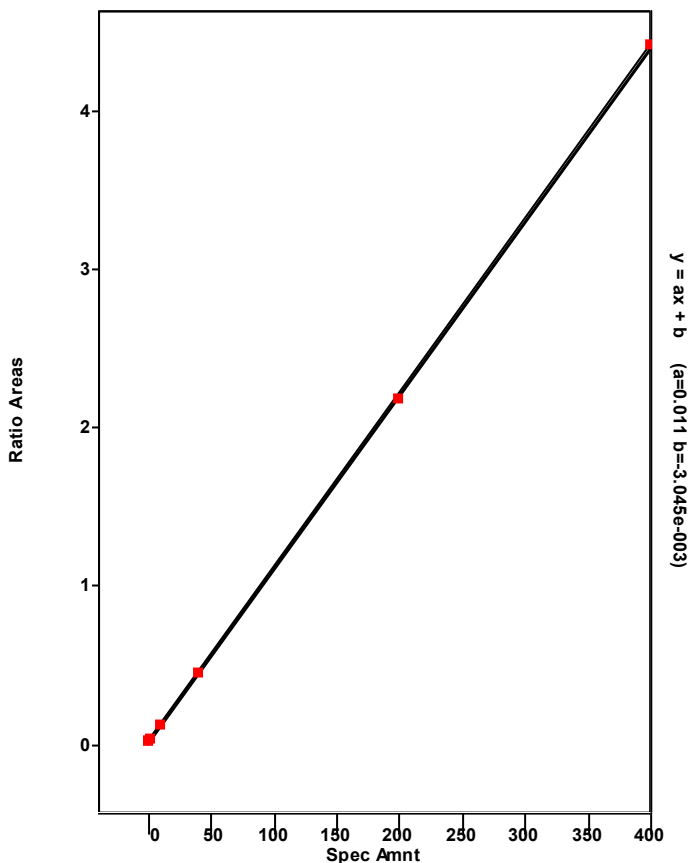


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	115160
RM1 Area	95602
RM1 Ratio (A)	0.8302
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	9.94
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

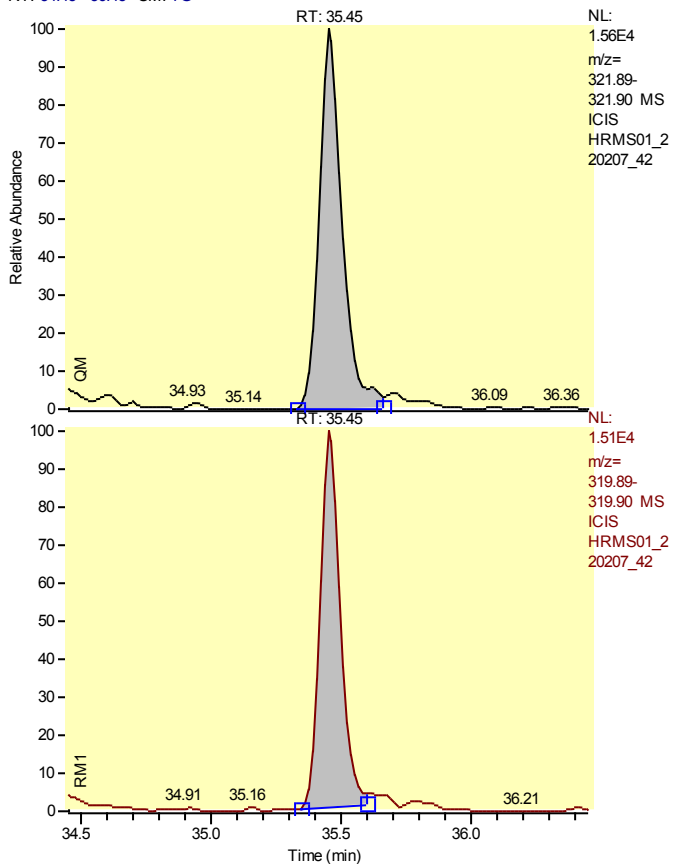
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

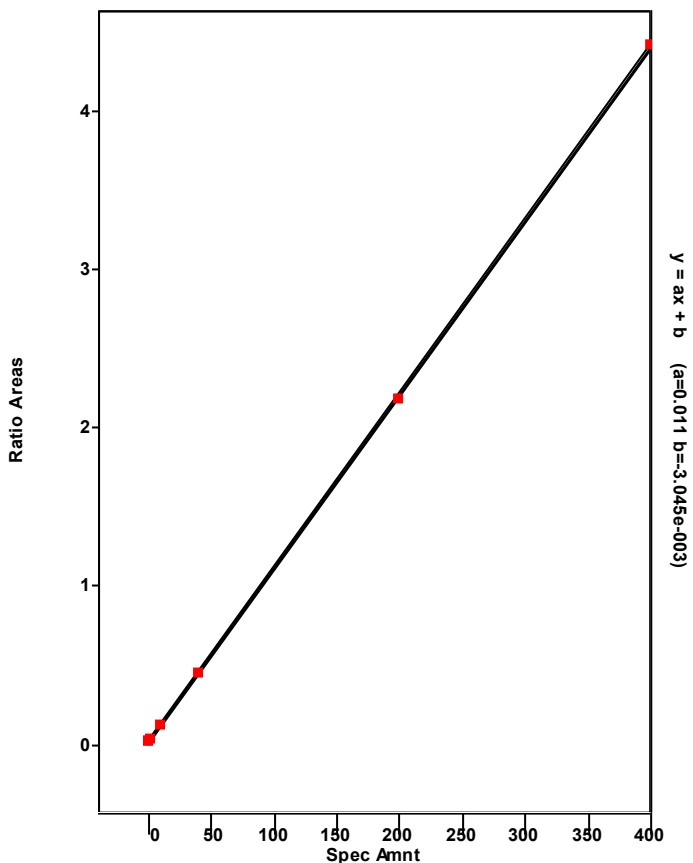
RT: 34.45 - 36.45 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__5
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	100318
RM1 Area	86097
RM1 Ratio (A)	0.8582
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	8.79
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__5

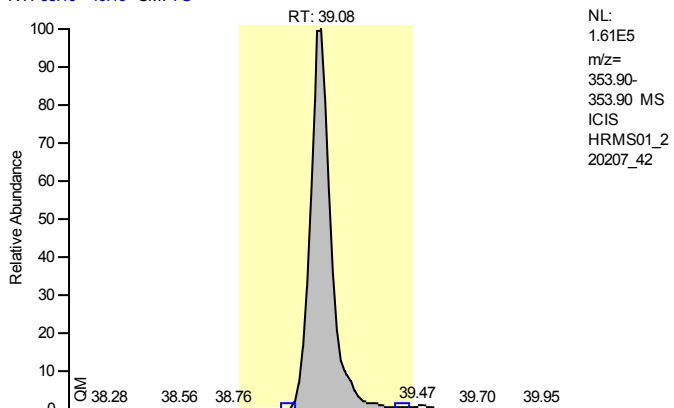
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



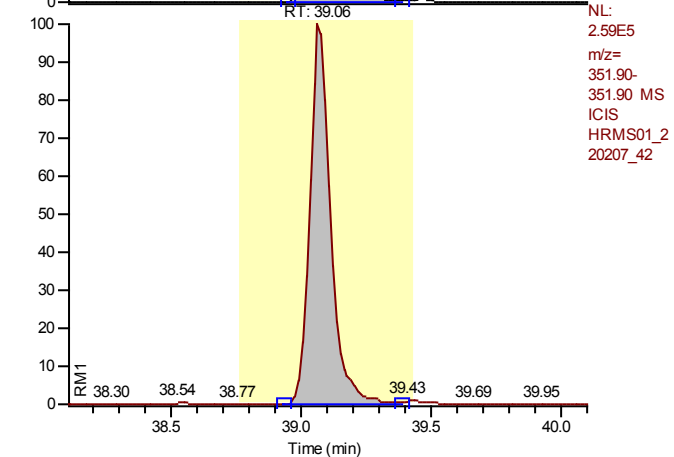
Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G

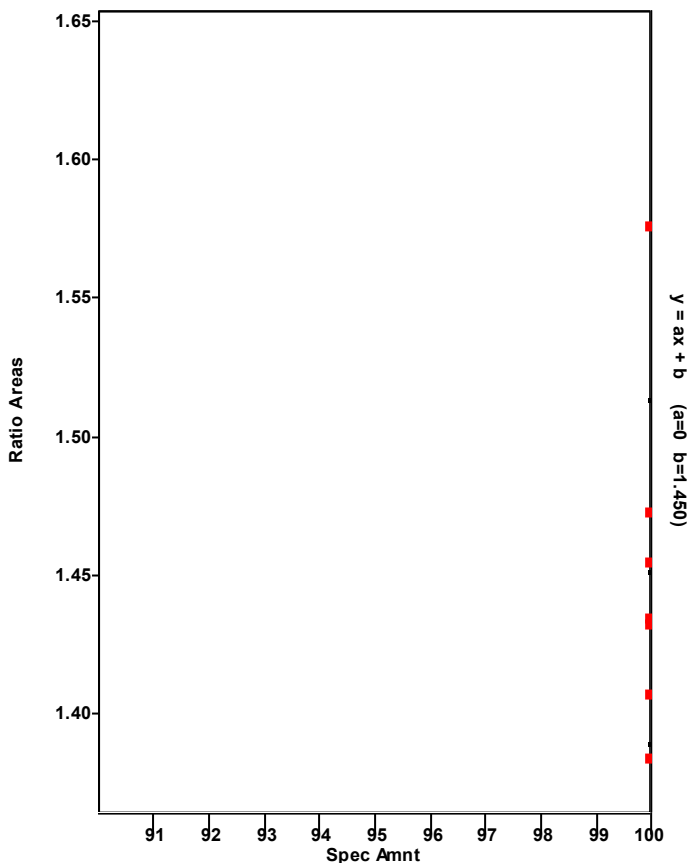


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	910913
RM1 Area	1473270
RM1 Ratio (A)	1.6174
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	96.13
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

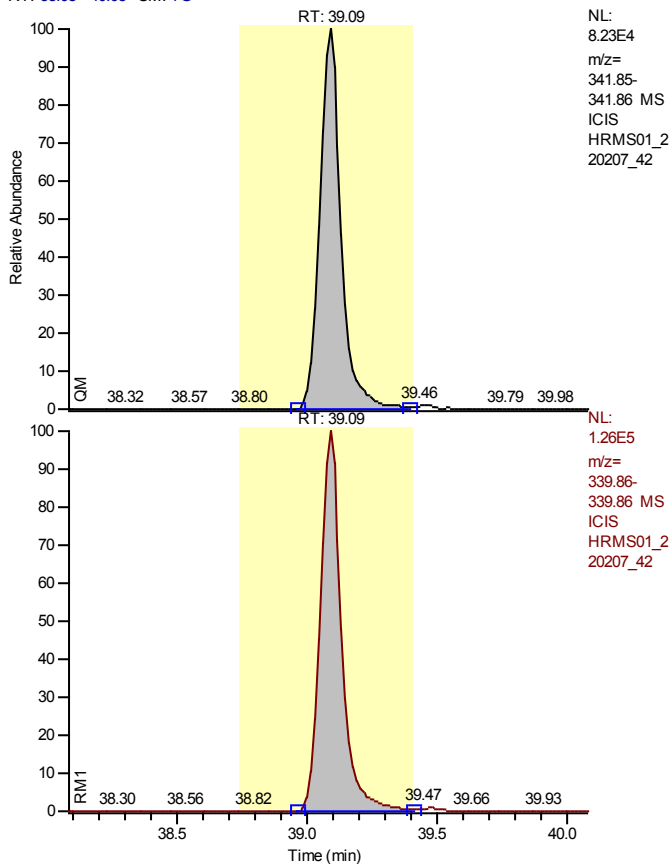
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

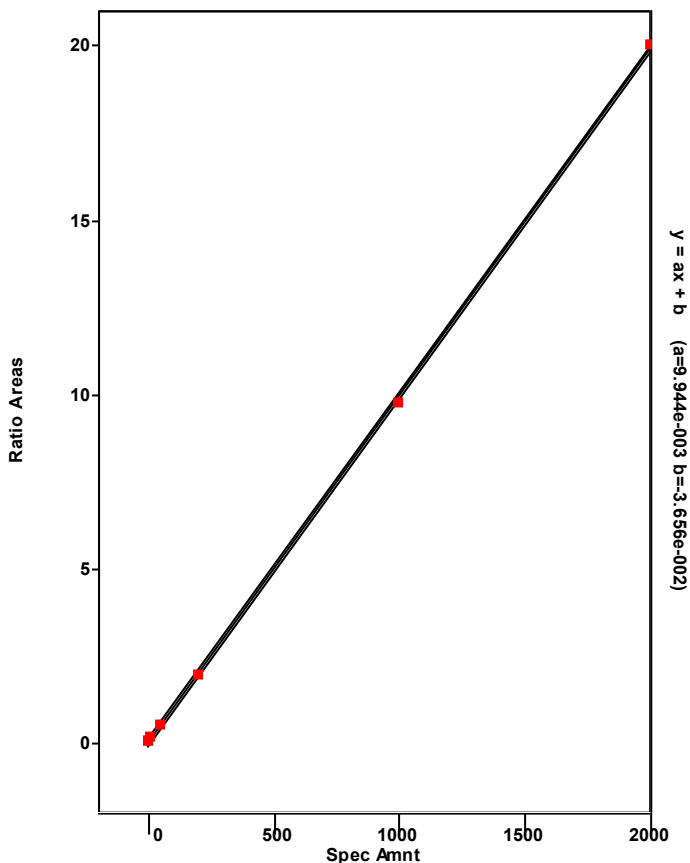
RT: 38.08 - 40.08 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	469744
RM1 Area	722490
RM1 Ratio (A)	1.5380
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.51
Percent Recovery (A)	101
TEQ (A)	1.5153
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

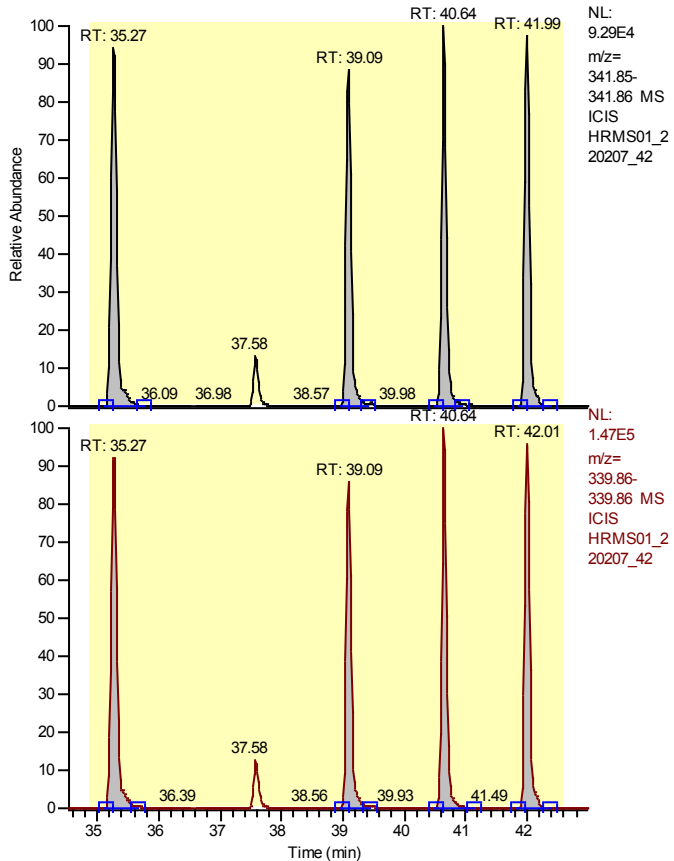
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

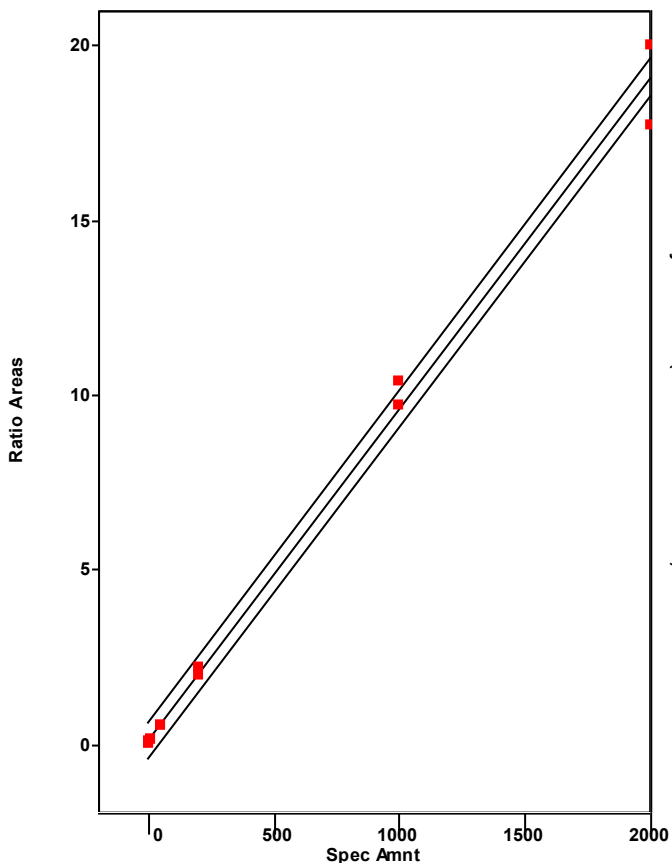
RT: 34.52 - 42.99 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	2044061
RM1 Area	3194683
RM1 Ratio (A)	1.5629
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	218.51
Percent Recovery (A)	437
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran

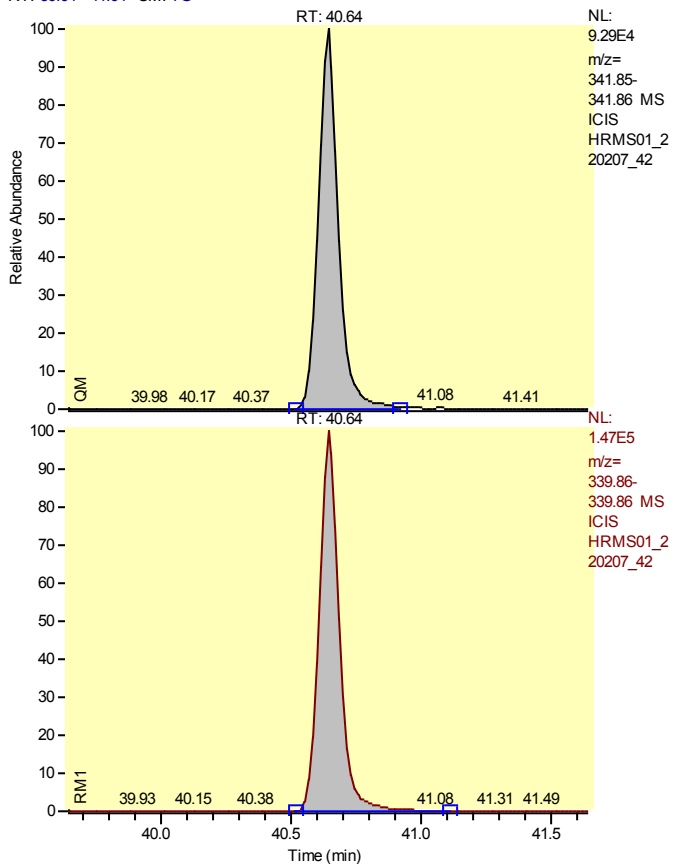
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

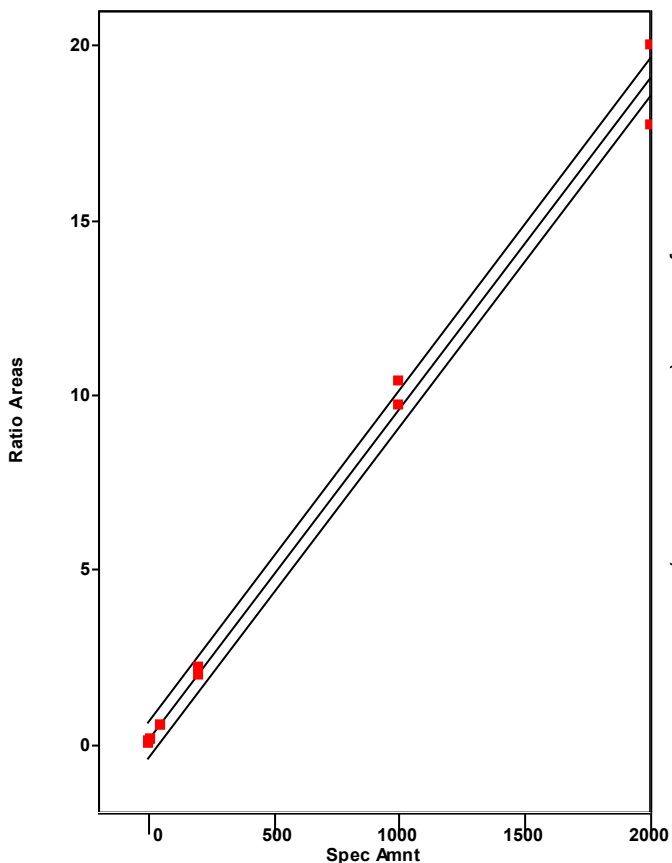
RT: 39.64 - 41.64 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	504776
RM1 Area	802859
RM1 Ratio (A)	1.5905
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	54.54
Percent Recovery (A)	109
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

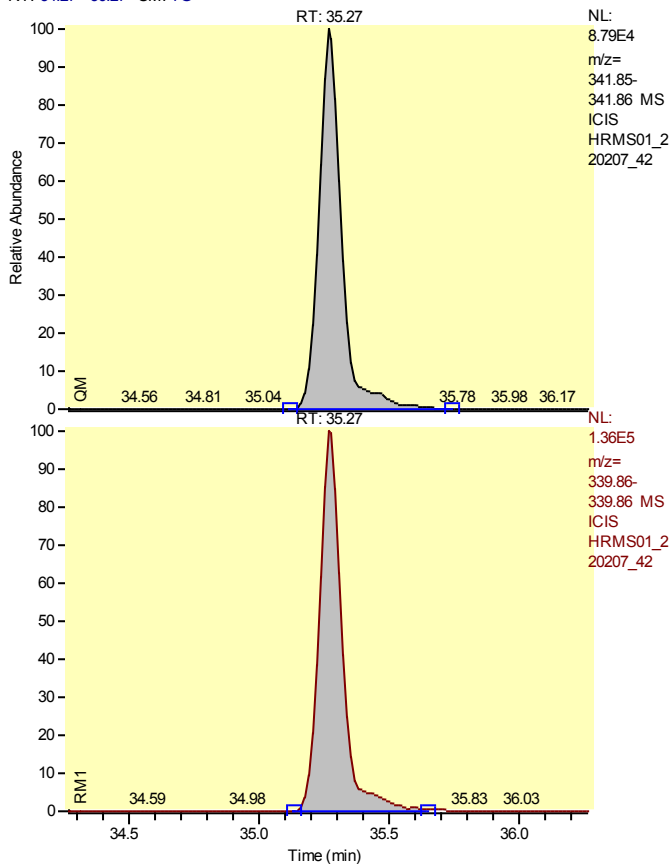
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 34.27 - 36.27 SM: 7G



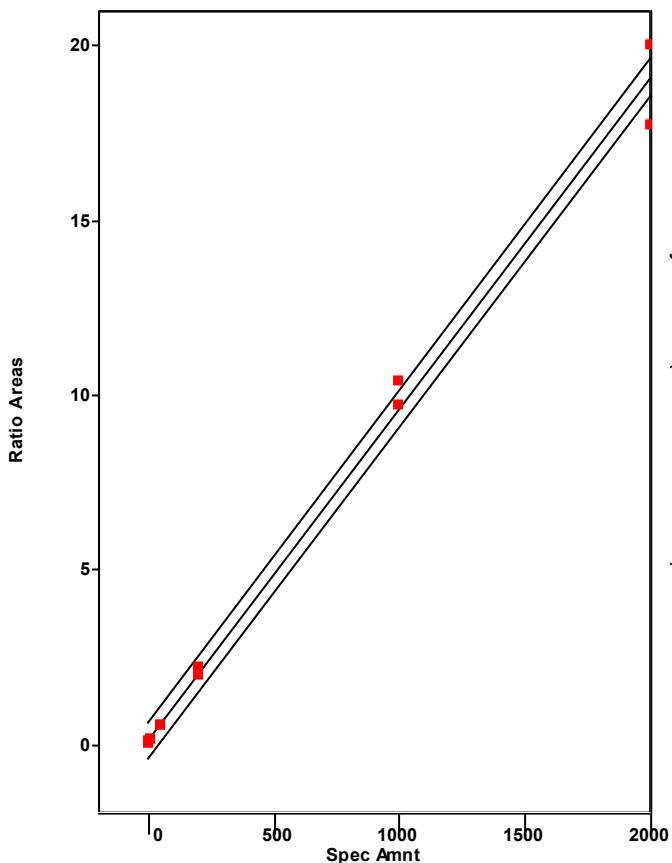
NL:
8.79E4
m/z=
341.85-
341.86 MS
ICIS
HRMS01_2
20207_42

NL:
1.36E5
m/z=
339.86-
339.86 MS
ICIS
HRMS01_2
20207_42

Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	565259
RM1 Area	877345
RM1 Ratio (A)	1.5521
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	60.17
Percent Recovery (A)	120
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__2

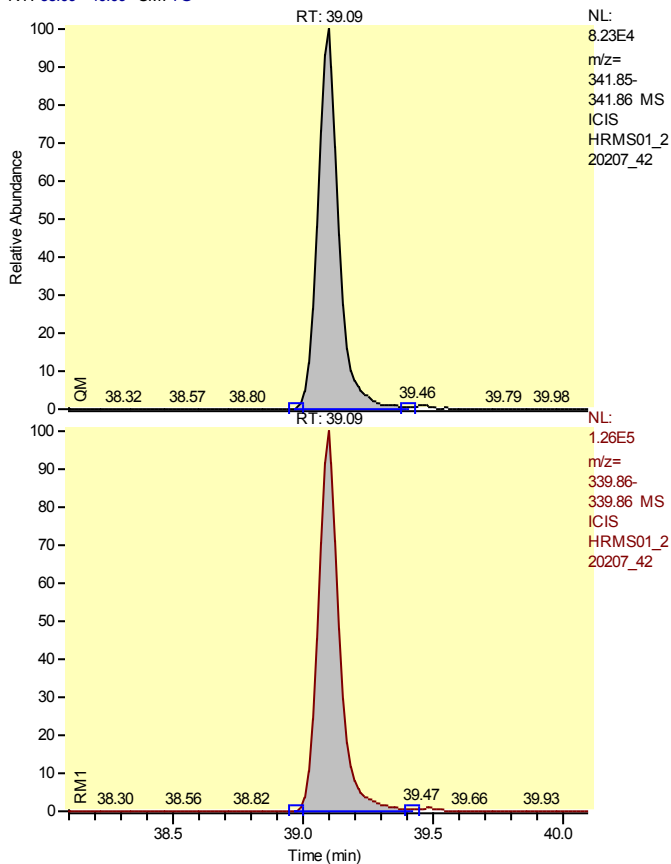
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

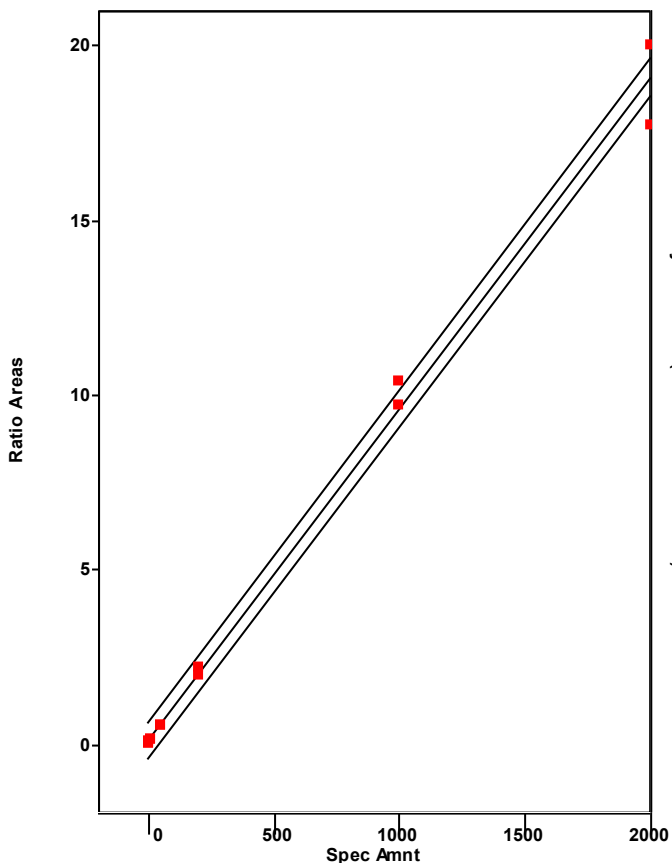
RT: 38.09 - 40.09 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	469744
RM1 Area	722490
RM1 Ratio (A)	1.5380
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	49.73
Percent Recovery (A)	99
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__3

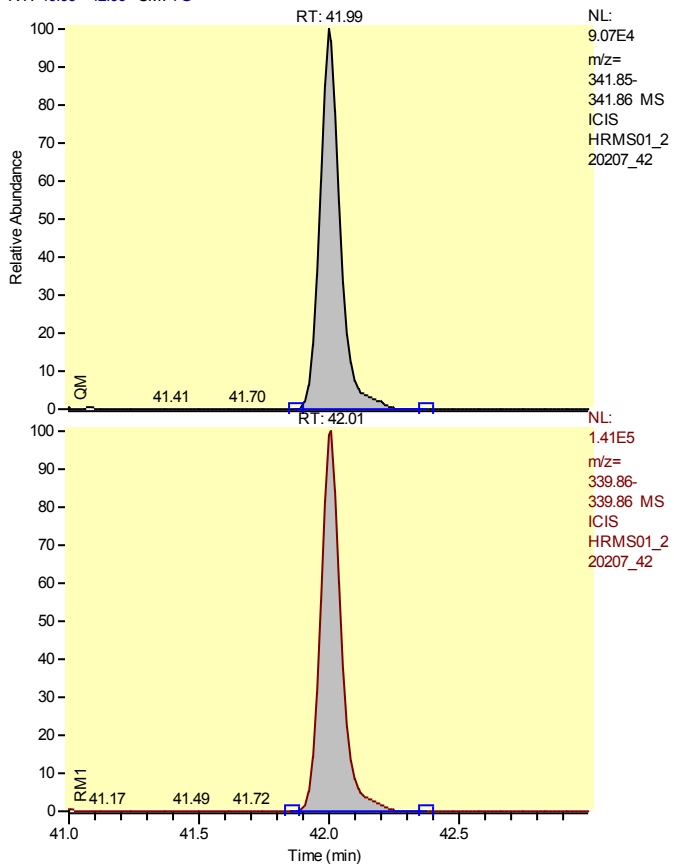
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

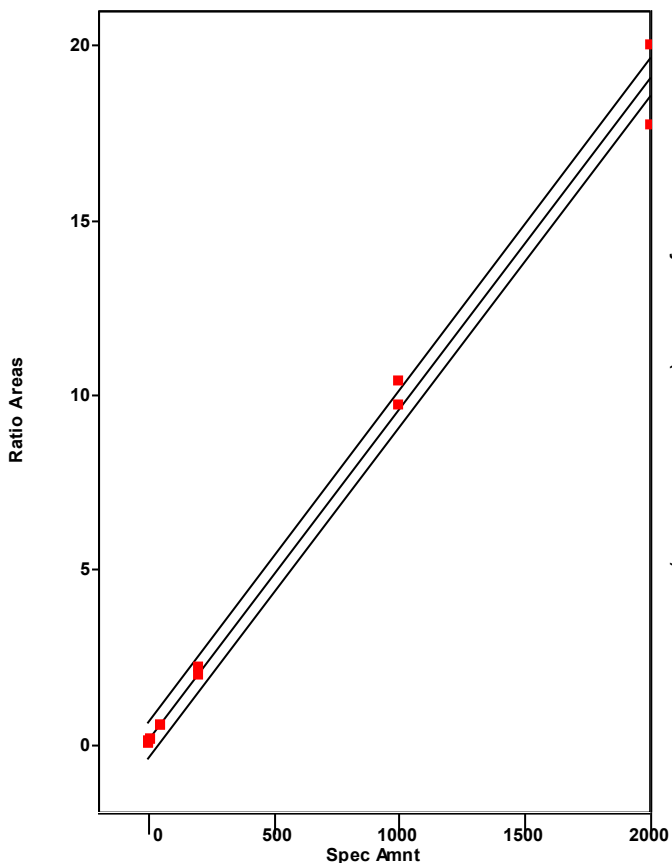
RT: 40.99 - 42.99 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	504282
RM1 Area	791990
RM1 Ratio (A)	1.5705
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	54.07
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__4

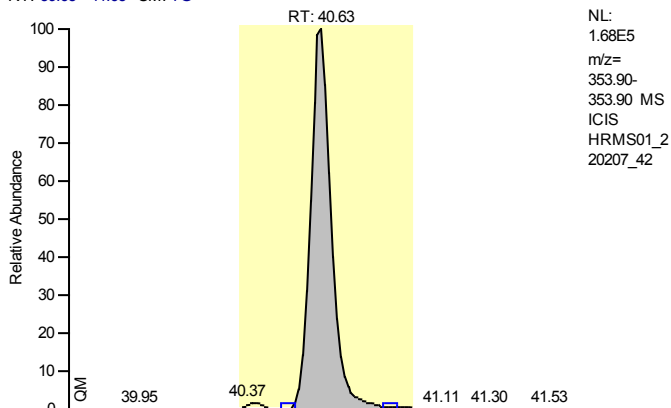
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

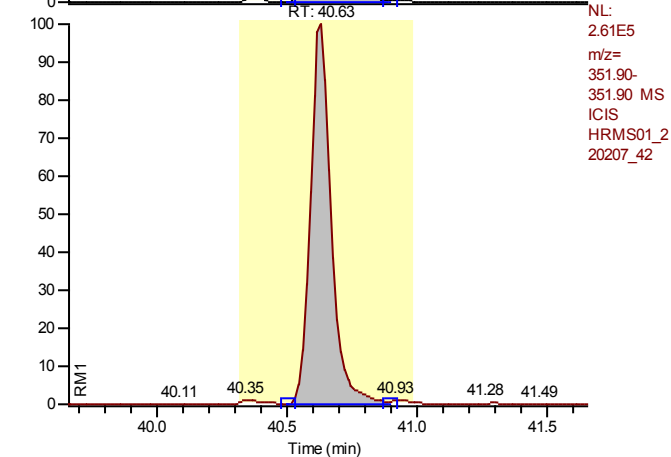
Entry Parameters

RT: 39.65 - 41.65 SM: 7G



NL:
1.68E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20207_42

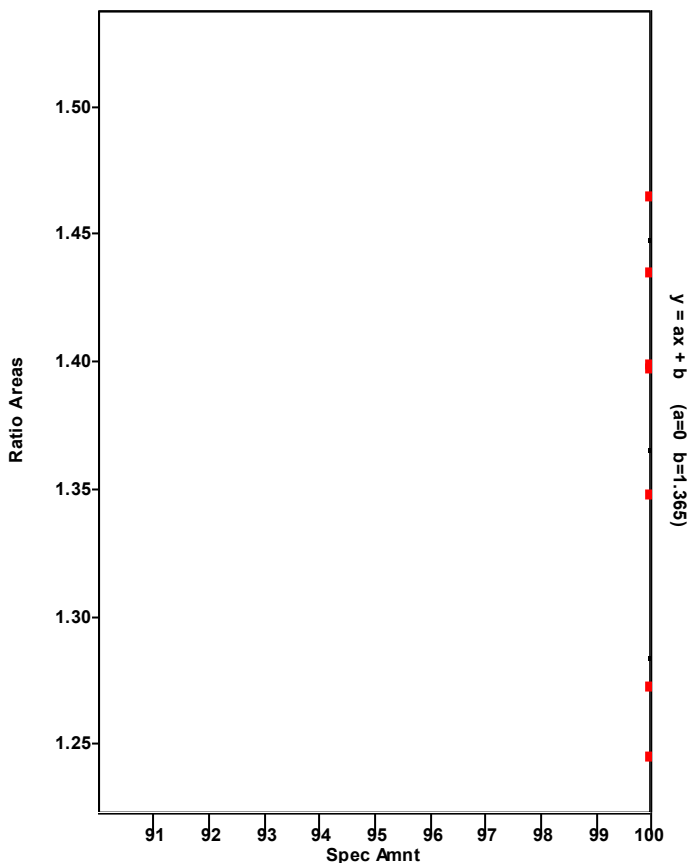
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	948764
RM1 Area	1484180
RM1 Ratio (A)	1.5643
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	104.25
Percent Recovery (A)	104
TEQ (A)	0.0000
Label2	



NL:
2.61E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20207_42

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

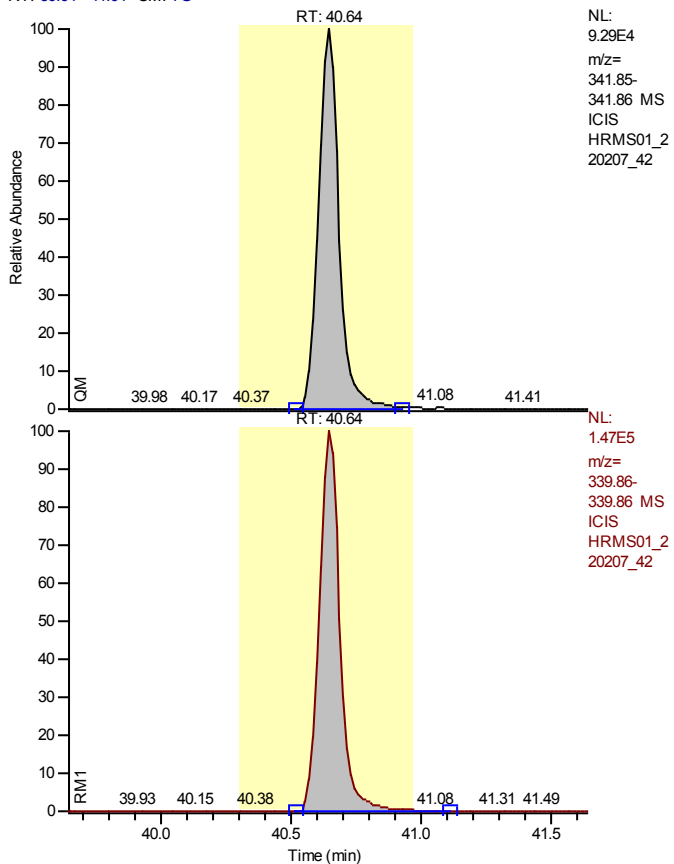
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

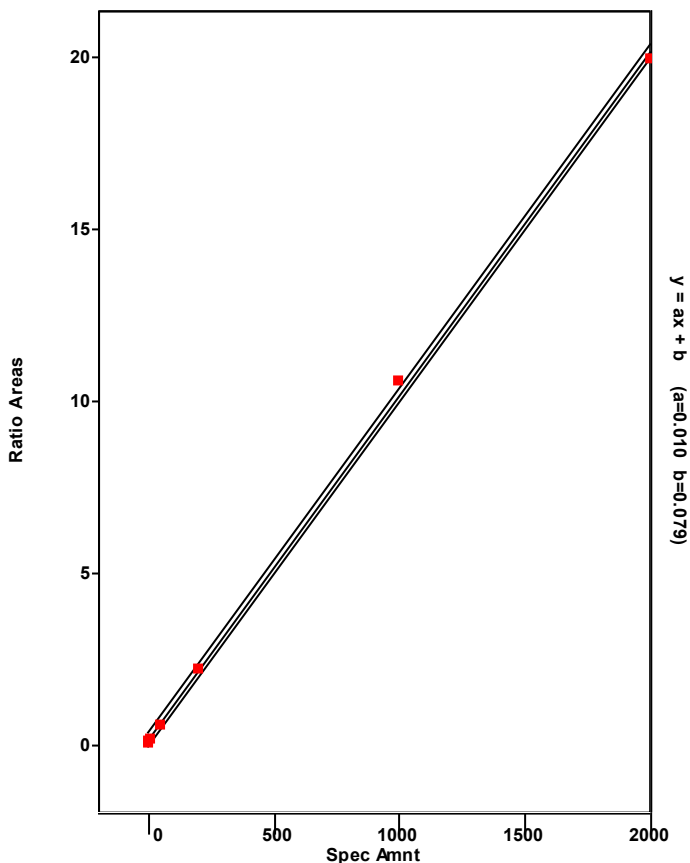
RT: 39.64 - 41.64 SM: 7G



Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	504776
RM1 Area	802859
RM1 Ratio (A)	1.5905
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	49.55
Percent Recovery (A)	99
TEQ (A)	14.8660
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

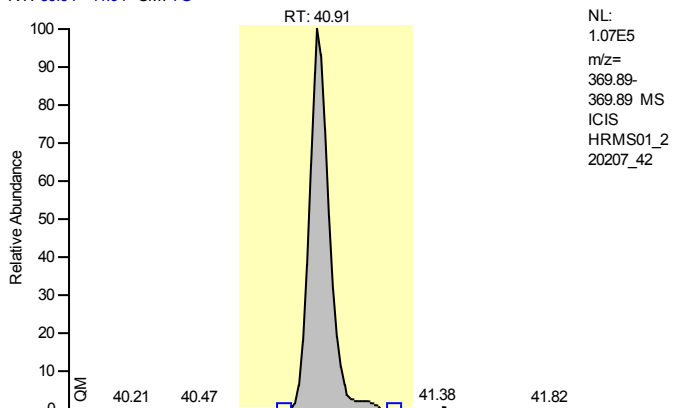
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



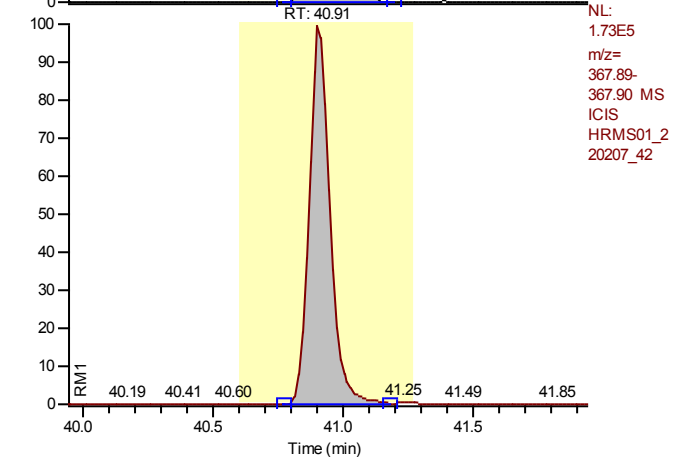
Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G

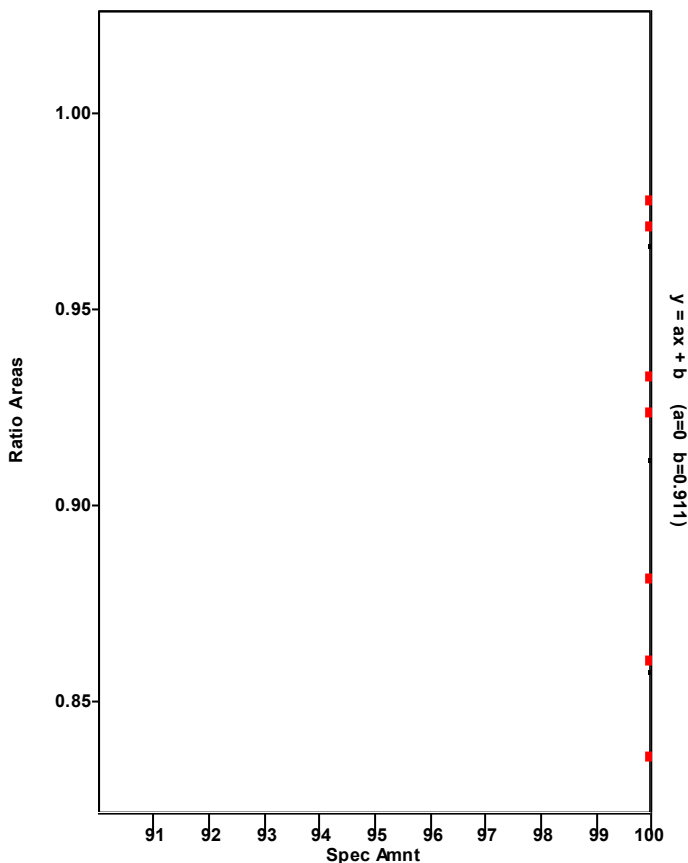


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	582627
RM1 Area	980740
RM1 Ratio (A)	1.6833
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	100.33
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

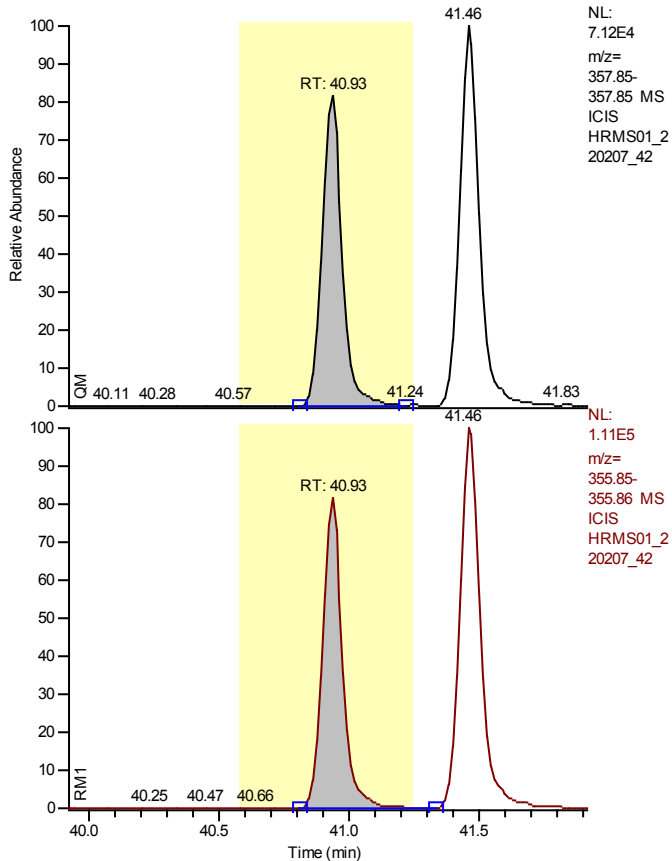
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

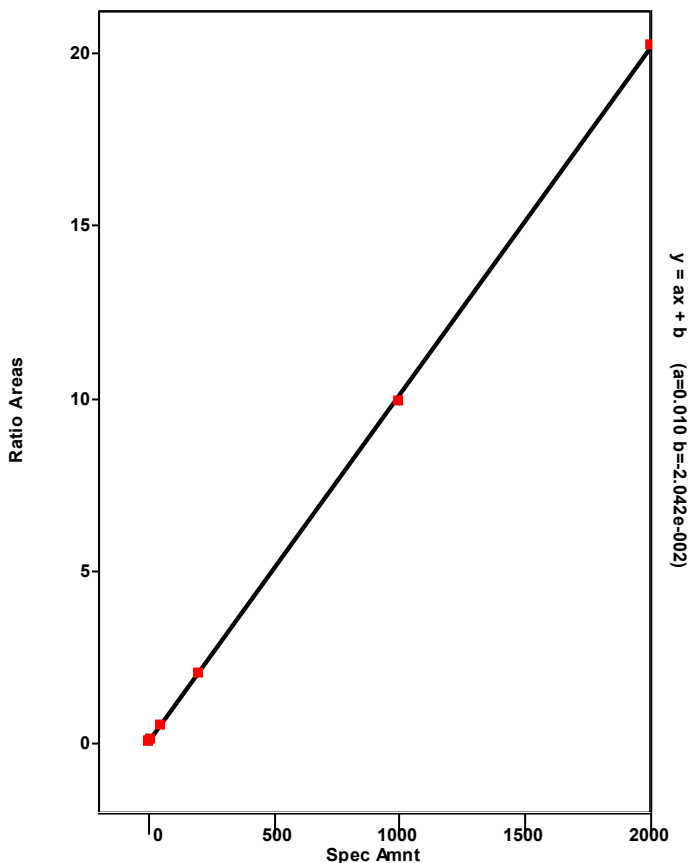
RT: 39.92 - 41.92 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	314627
RM1 Area	485979
RM1 Ratio (A)	1.5446
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	51.05
Percent Recovery (A)	102
TEQ (A)	51.0541
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

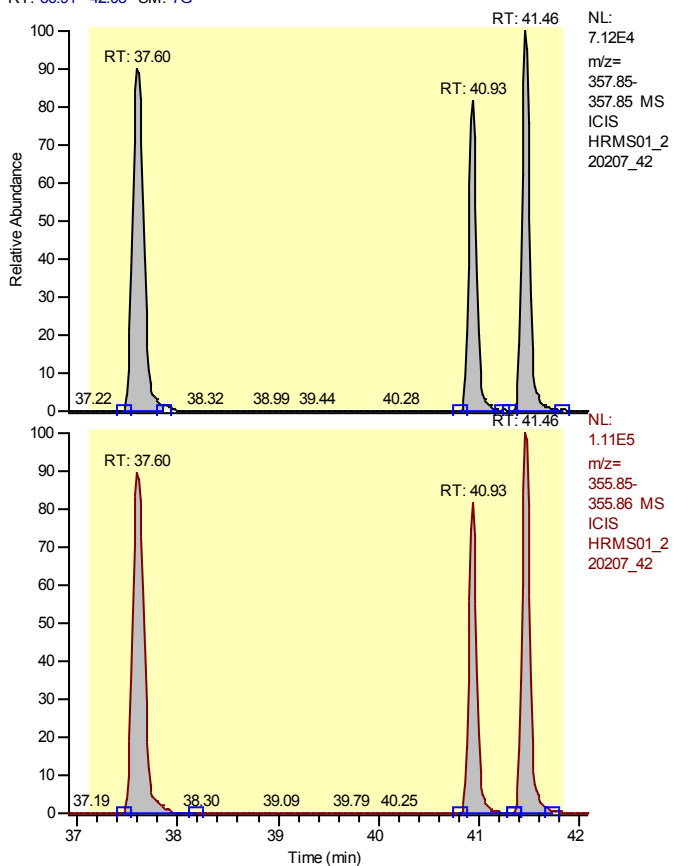
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

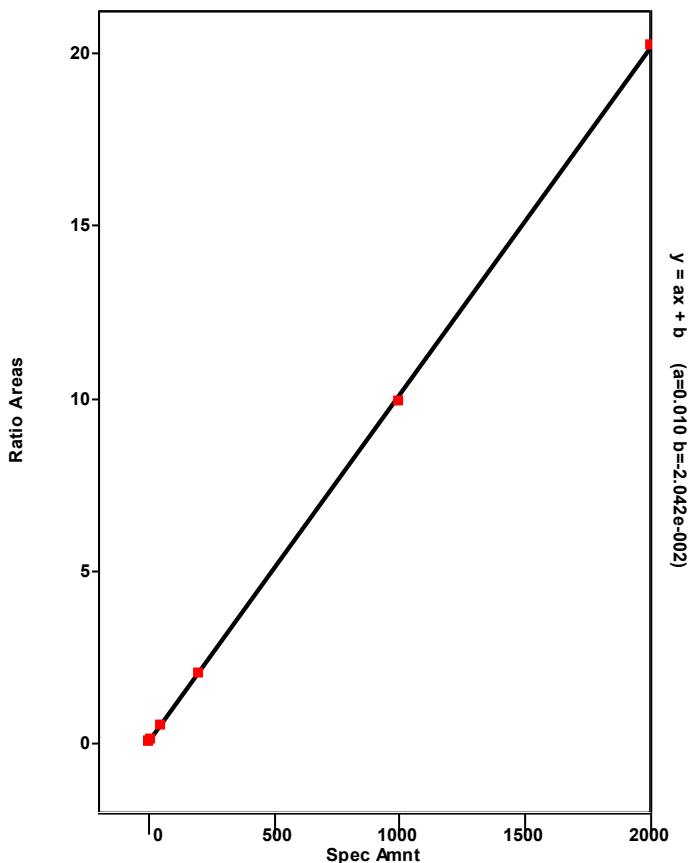
RT: 36.91 - 42.08 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	1192990
RM1 Area	1892831
RM1 Ratio (A)	1.5866
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	196.78
Percent Recovery (A)	394
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin

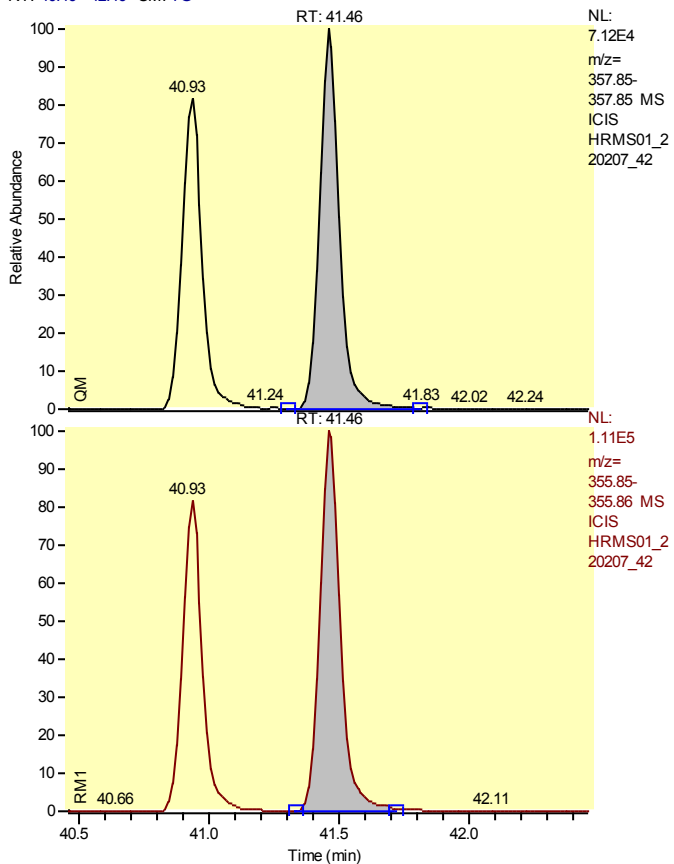
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

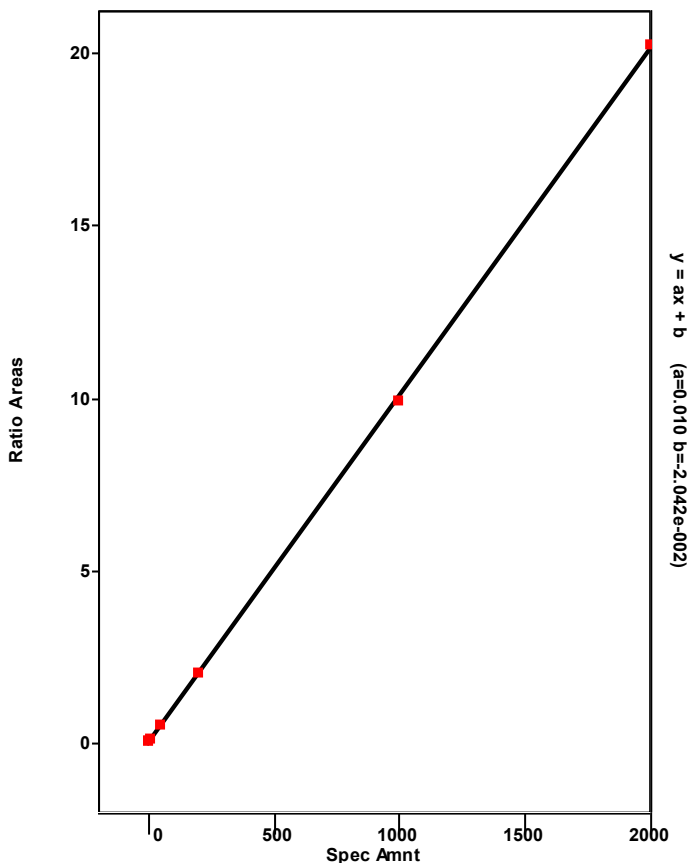
RT: 40.46 - 42.46 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	386125
RM1 Area	617471
RM1 Ratio (A)	1.5991
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	64.00
Percent Recovery (A)	128
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

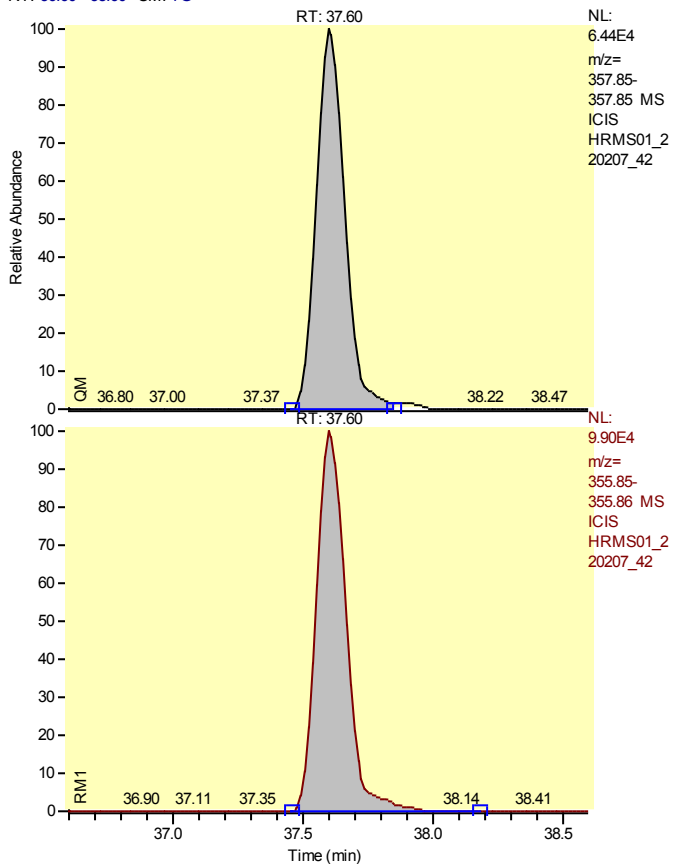
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

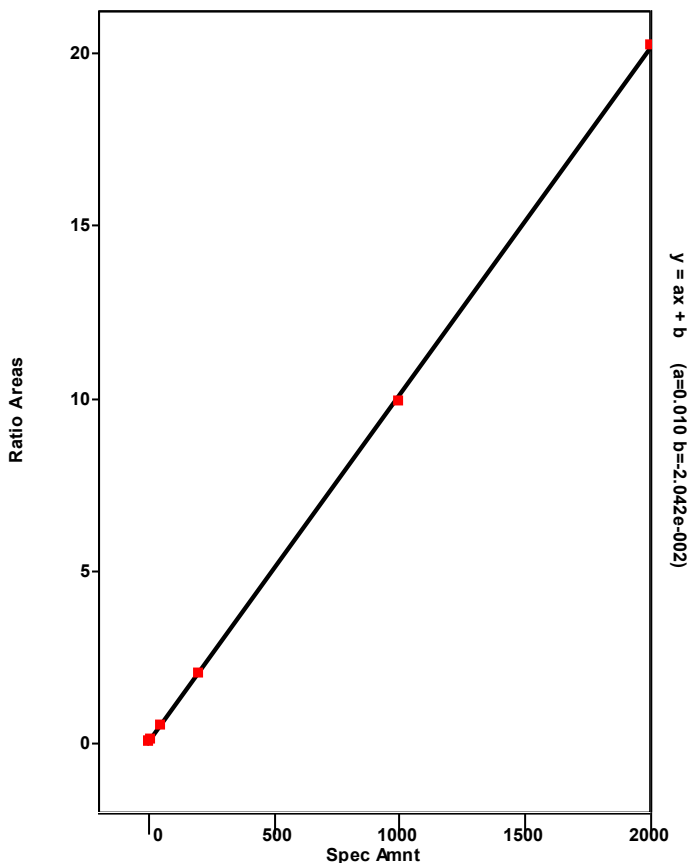
RT: 36.60 - 38.60 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	492238
RM1 Area	789381
RM1 Ratio (A)	1.6037
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	81.73
Percent Recovery (A)	163
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

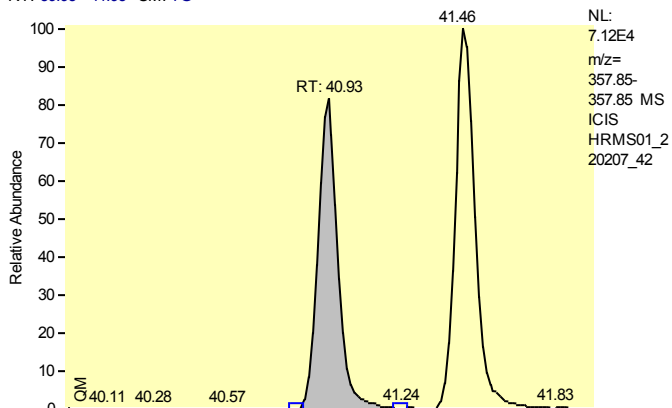
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



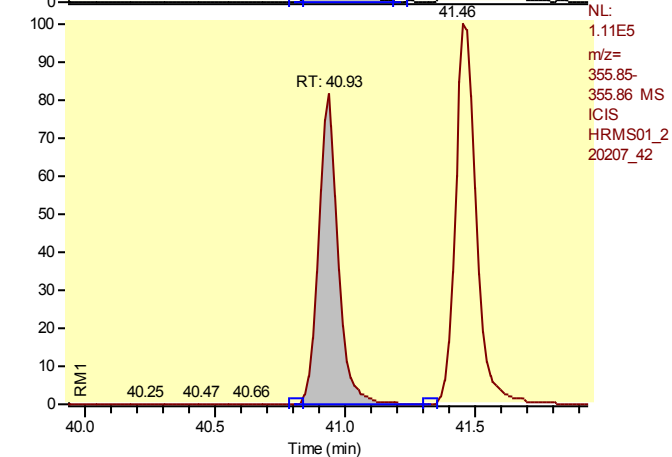
Chromatogram

Entry Parameters

RT: 39.93 - 41.93 SM: 7G

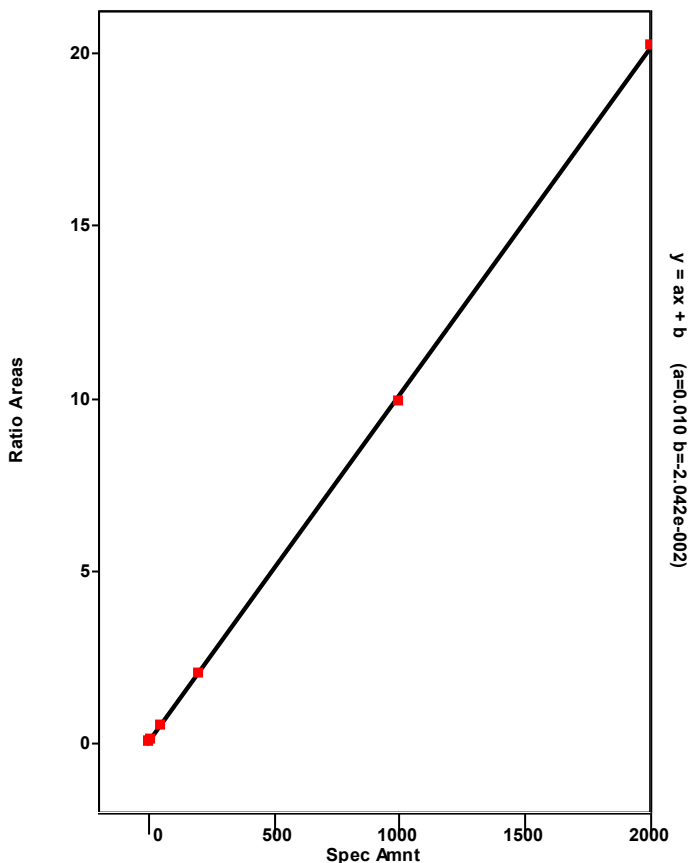


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	314627
RM1 Area	485979
RM1 Ratio (A)	1.5446
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	51.05
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

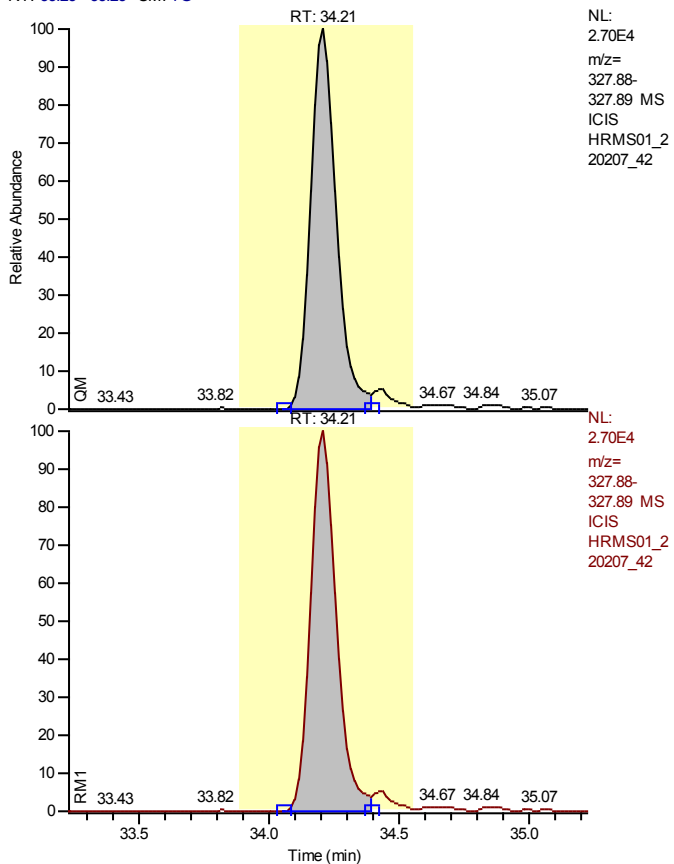
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G



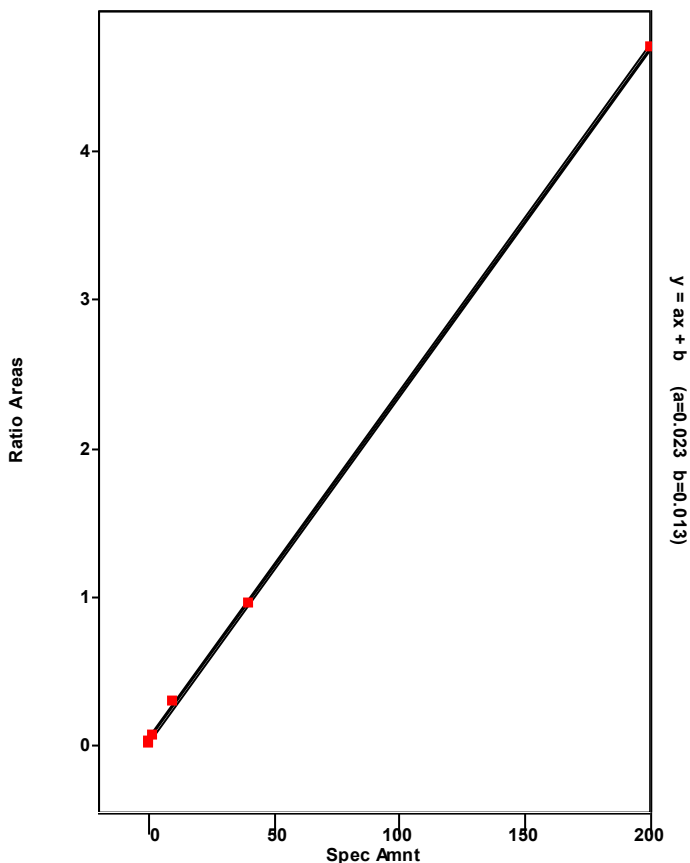
NL:
2.70E4
m/z=
327.88-
327.89 MS
ICIS
HRMS01_2
20207_42

NL:
2.70E4
m/z=
327.88-
327.89 MS
ICIS
HRMS01_2
20207_42

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	183685
RM1 Area	183685
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.58
Percent Recovery (A)	86
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

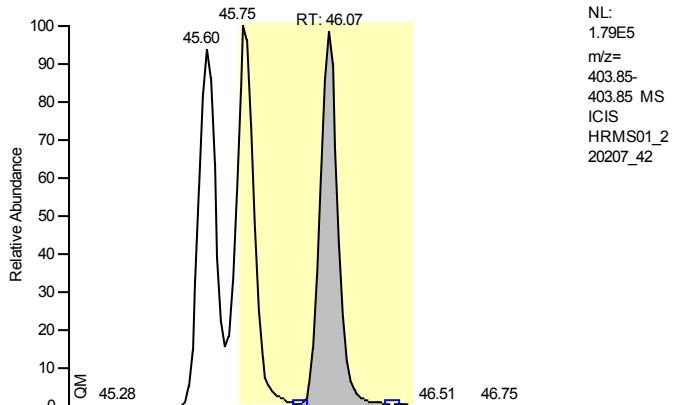
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



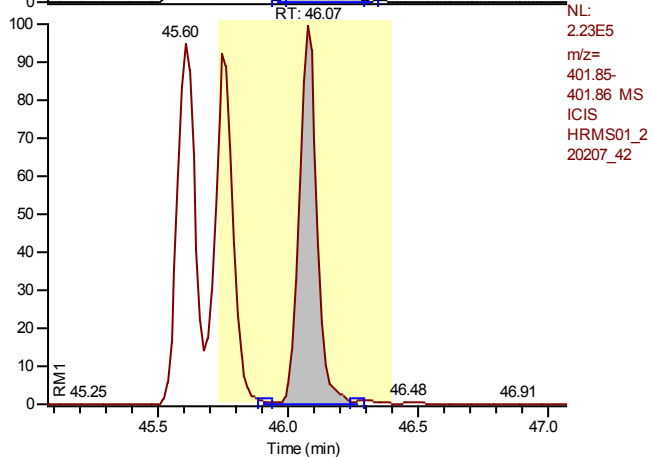
Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G

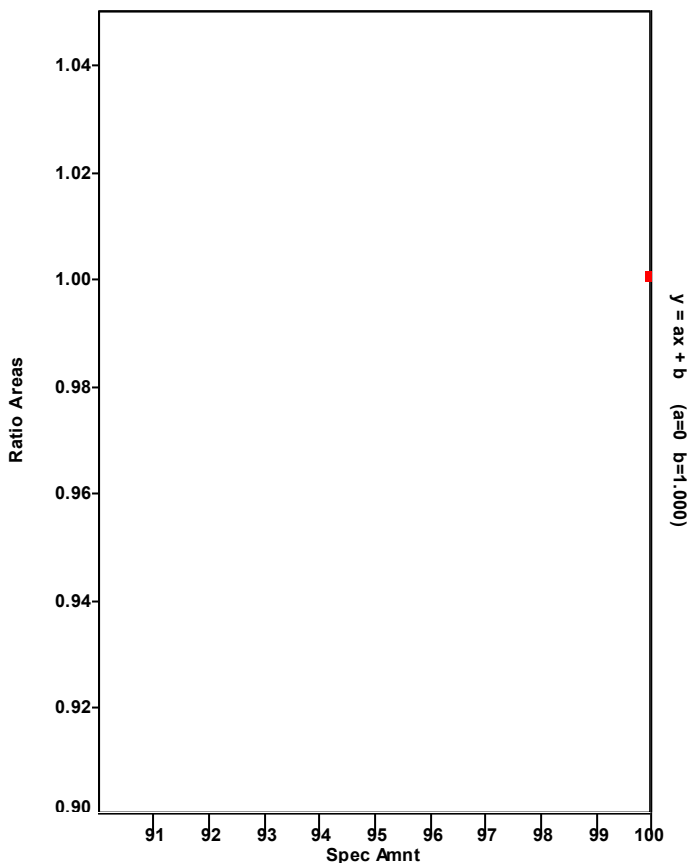


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	862336
RM1 Area	1059263
RM1 Ratio (A)	1.2284
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

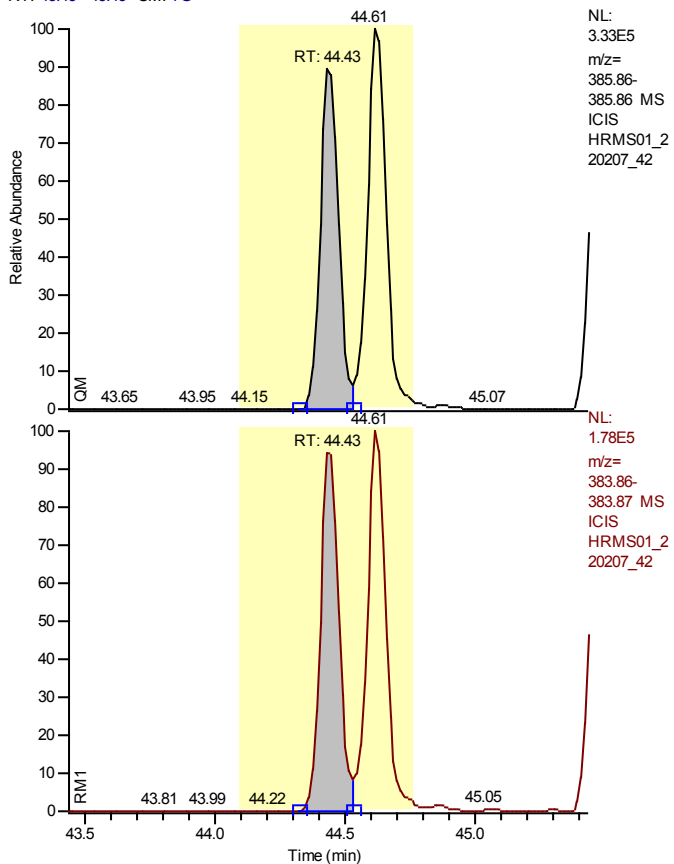
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

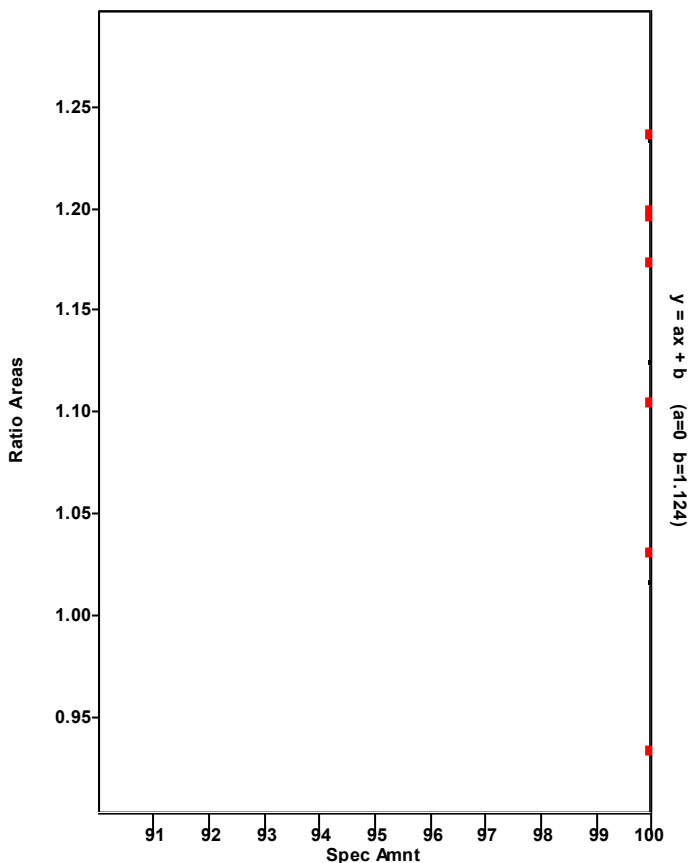
RT: 43.43 - 45.43 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1462451
RM1 Area	825391
RM1 Ratio (A)	0.5644
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	105.97
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

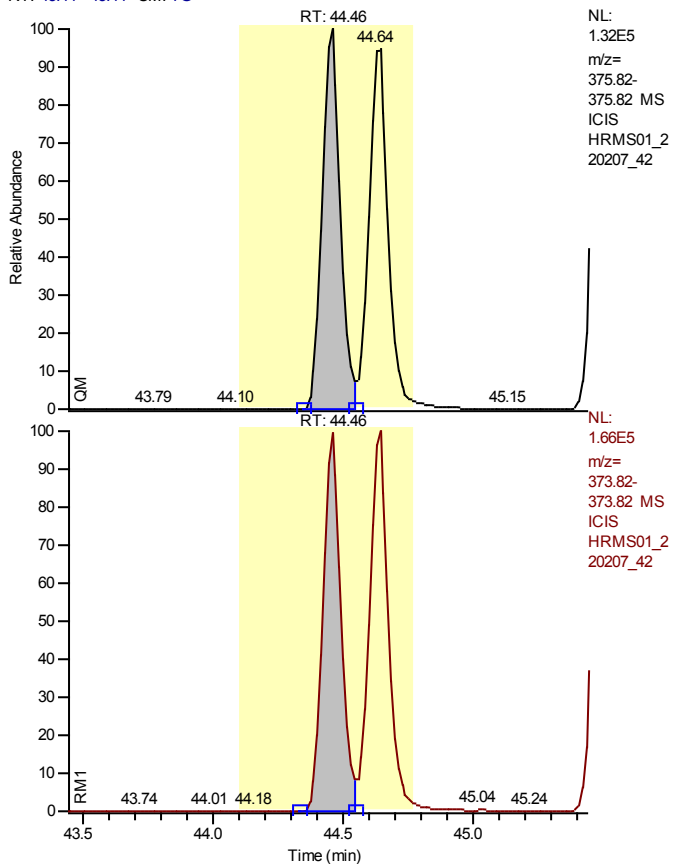
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

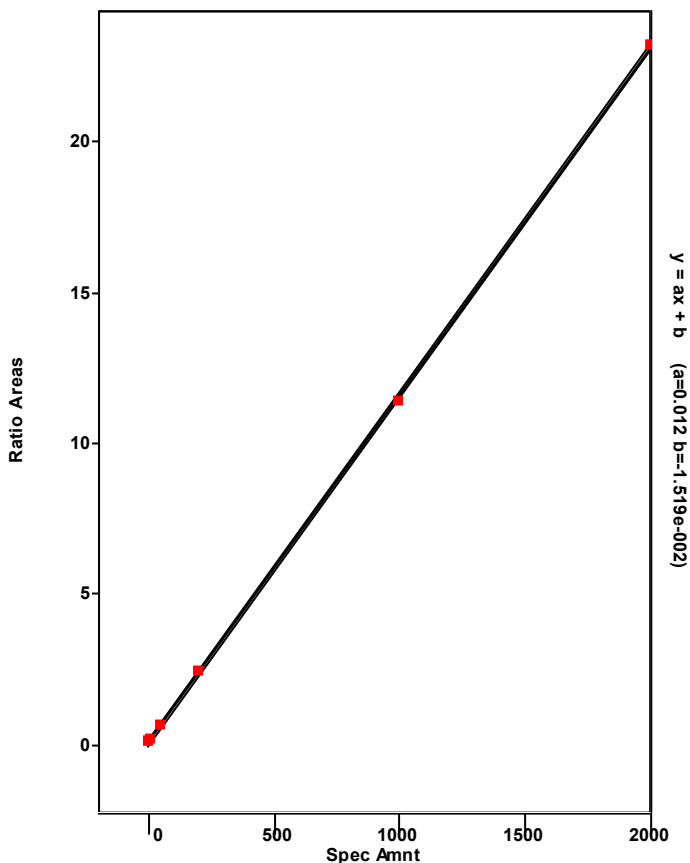
RT: 43.44 - 45.44 SM: 7G



Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	638720
RM1 Area	792589
RM1 Ratio (A)	1.2409
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.28
Percent Recovery (A)	109
TEQ (A)	5.4281
Label2	

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

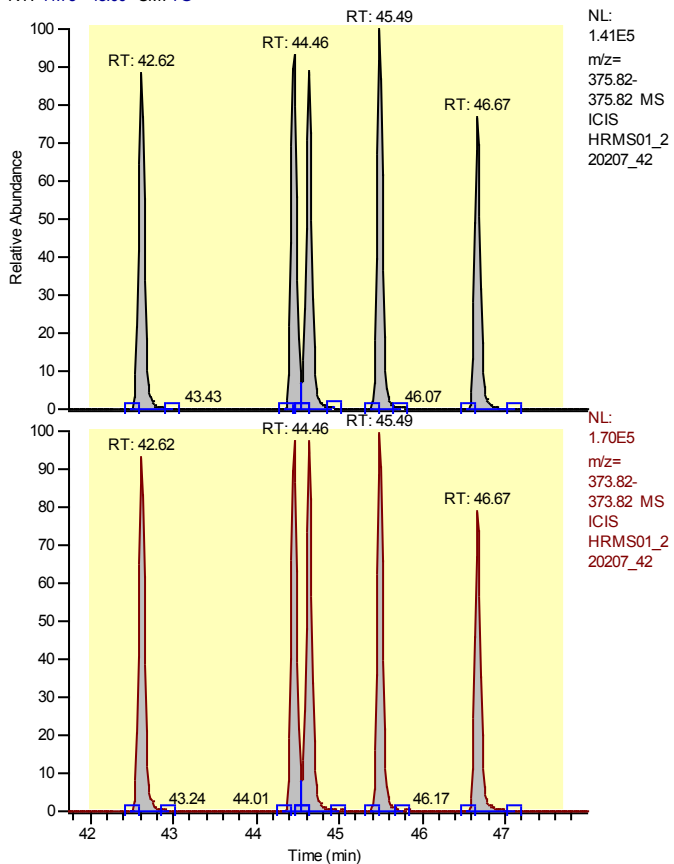
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

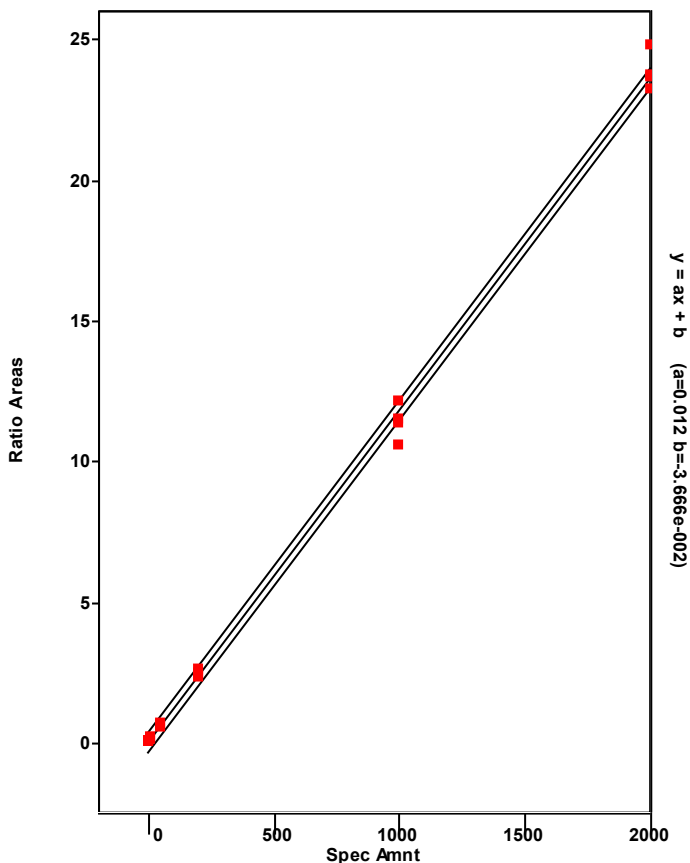
RT: 41.73 - 48.00 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	3132652
RM1 Area	3922744
RM1 Ratio (A)	1.2522
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	257.92
Percent Recovery (A)	516
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran

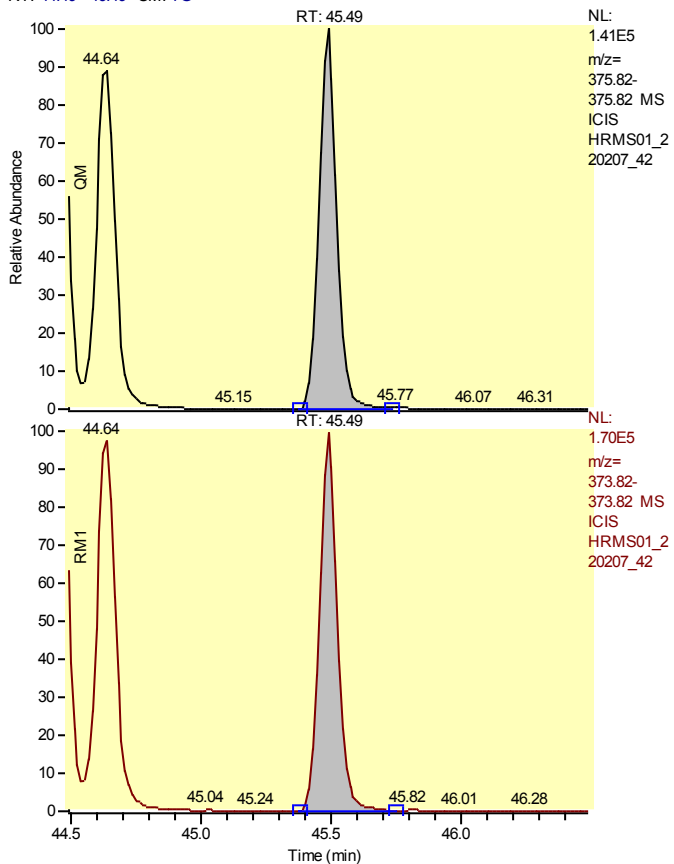
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

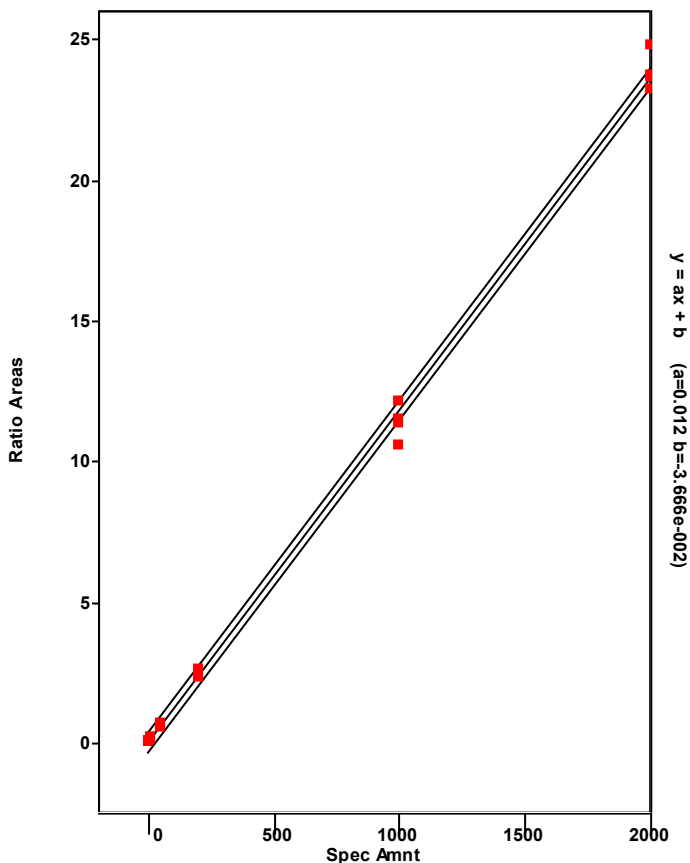
RT: 44.49 - 46.49 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	669588
RM1 Area	807201
RM1 Ratio (A)	1.2055
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.99
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__1

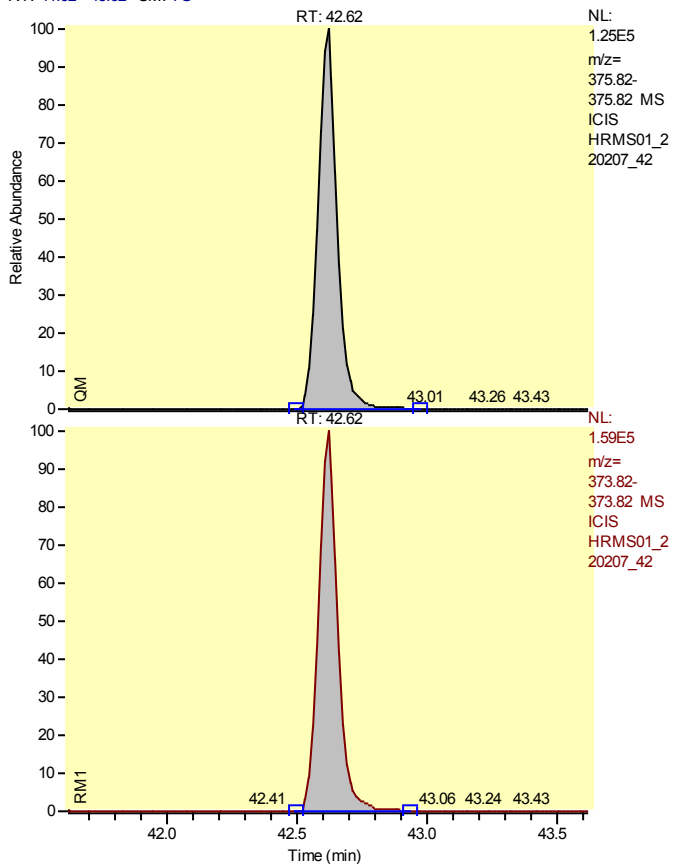
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

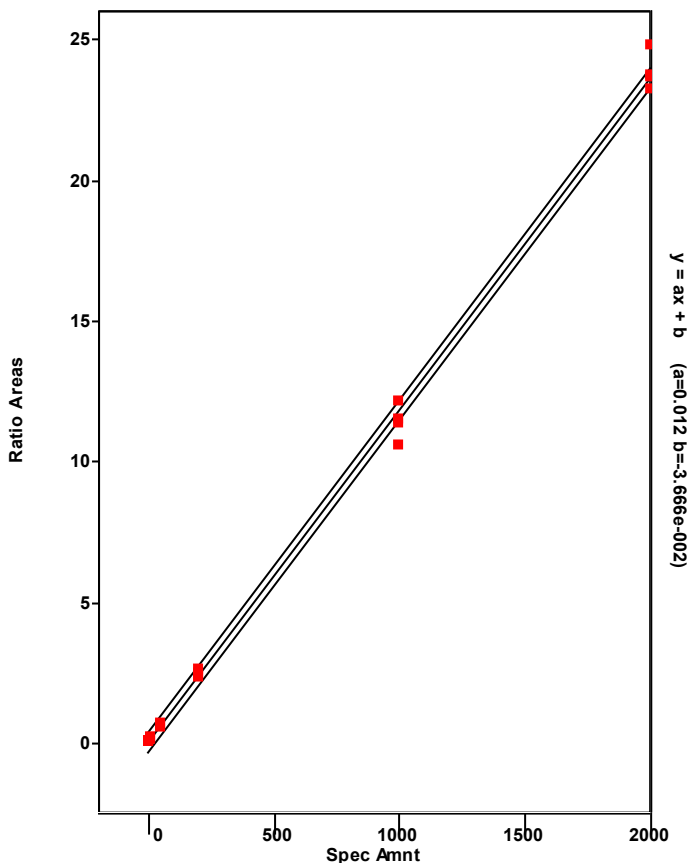
RT: 41.62 - 43.62 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	639576
RM1 Area	810395
RM1 Ratio (A)	1.2671
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.01
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

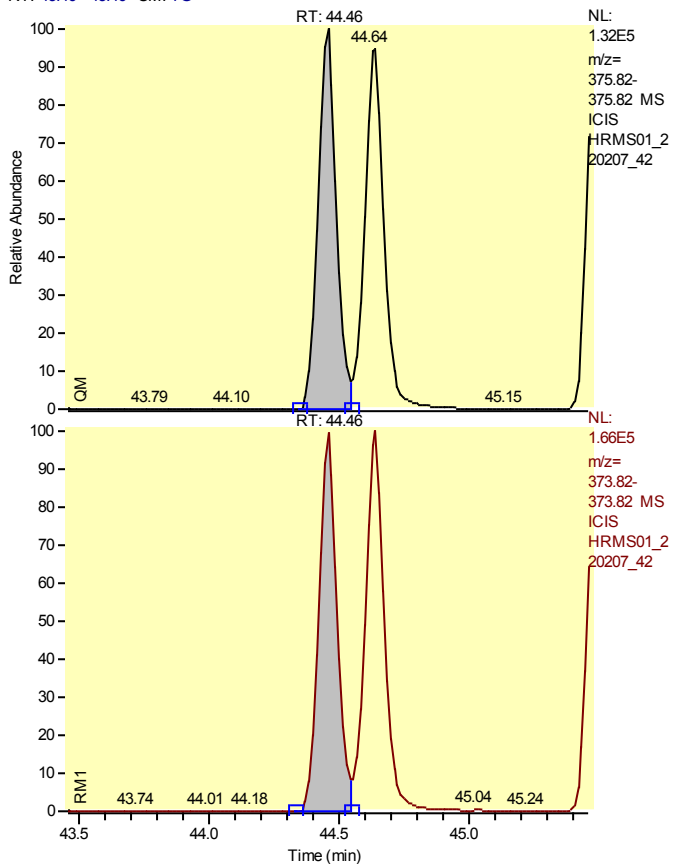
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

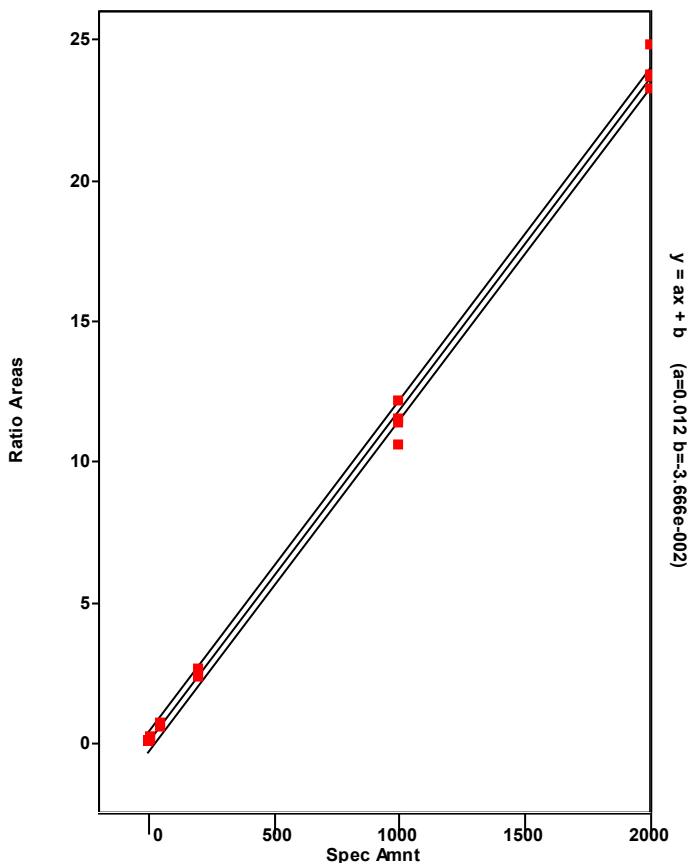
RT: 43.46 - 45.46 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	638720
RM1 Area	792589
RM1 Ratio (A)	1.2409
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	52.32
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__3

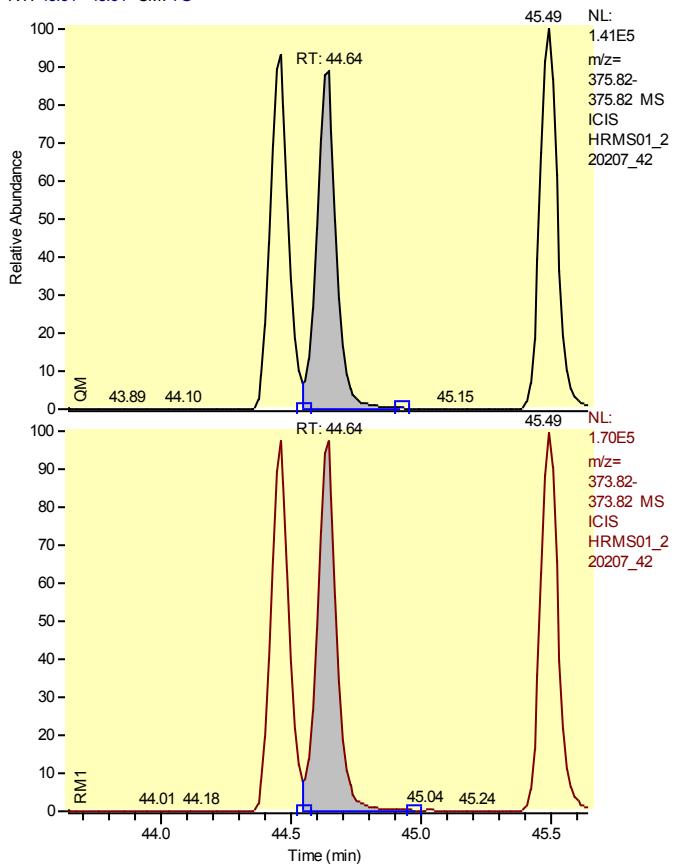
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

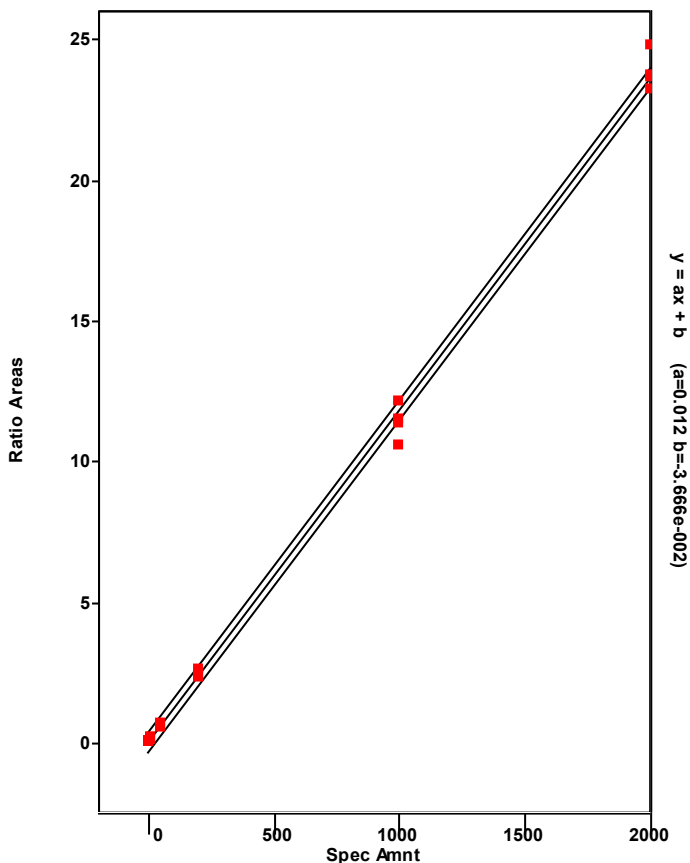
RT: 43.64 - 45.64 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	647423
RM1 Area	846596
RM1 Ratio (A)	1.3076
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.62
Percent Recovery (A)	109
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__4

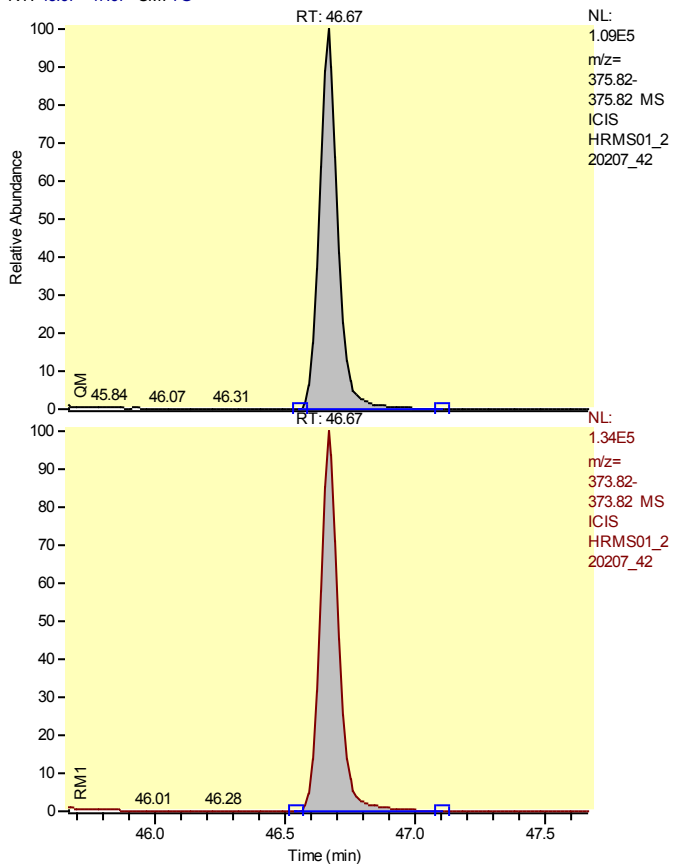
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

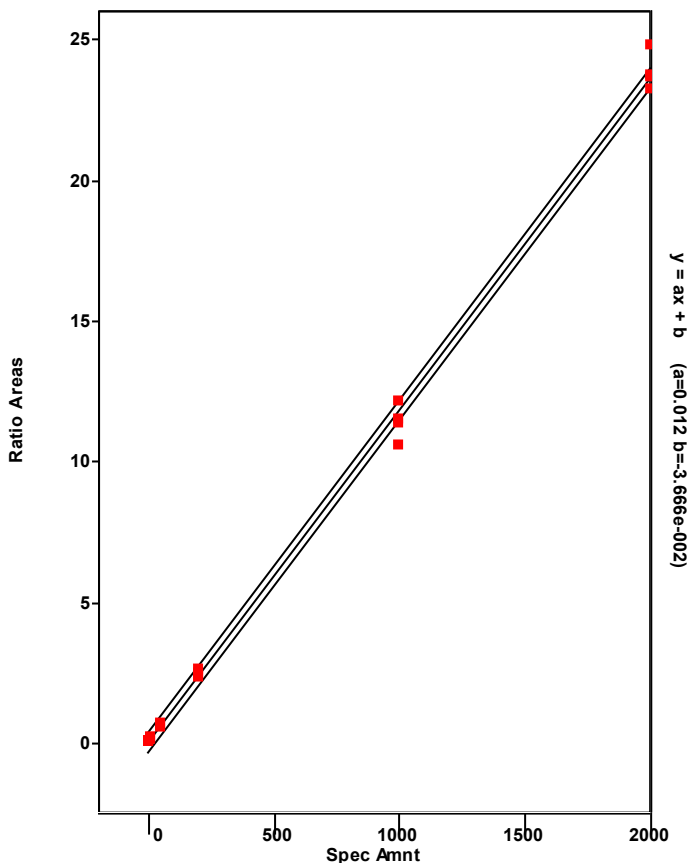
RT: 45.67 - 47.67 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	537345
RM1 Area	665964
RM1 Ratio (A)	1.2394
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	43.99
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__5

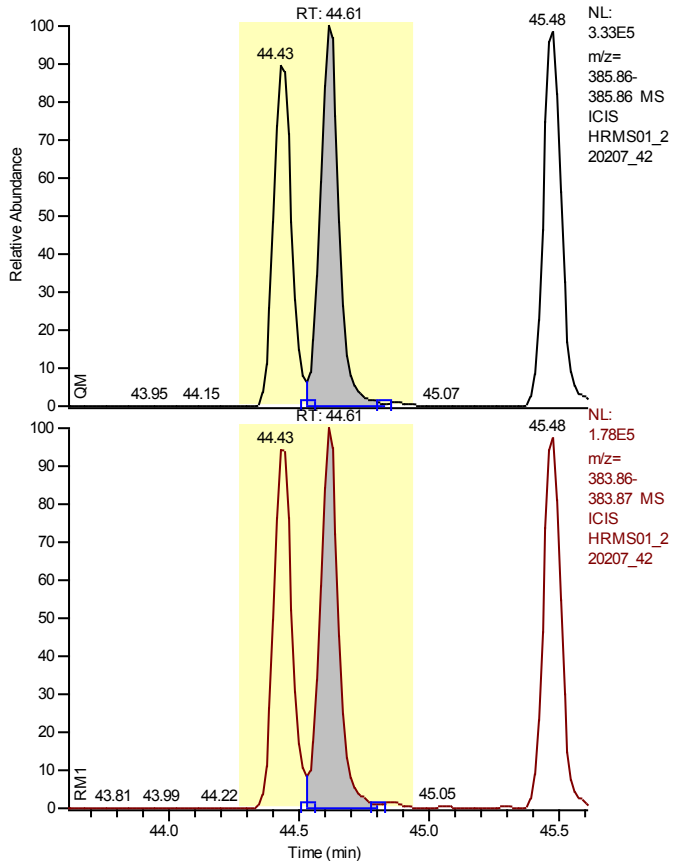
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

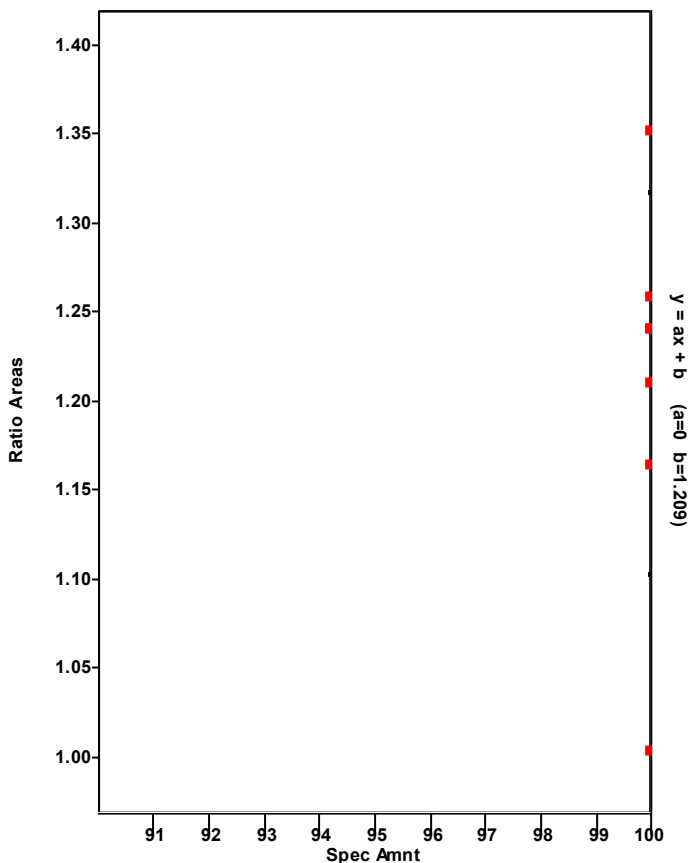
RT: 43.61 - 45.61 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1690516
RM1 Area	881157
RM1 Ratio (A)	0.5212
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	110.74
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

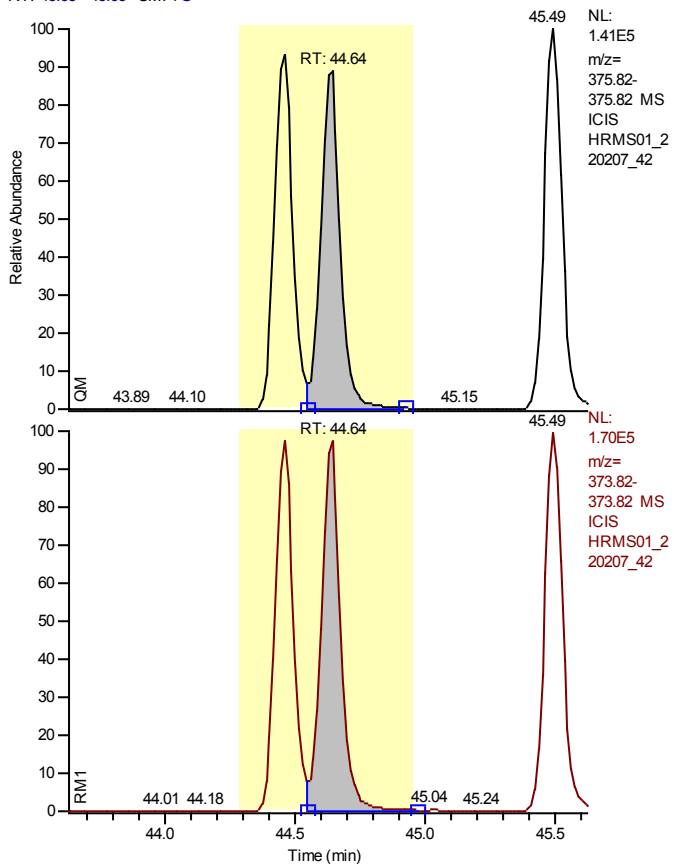
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

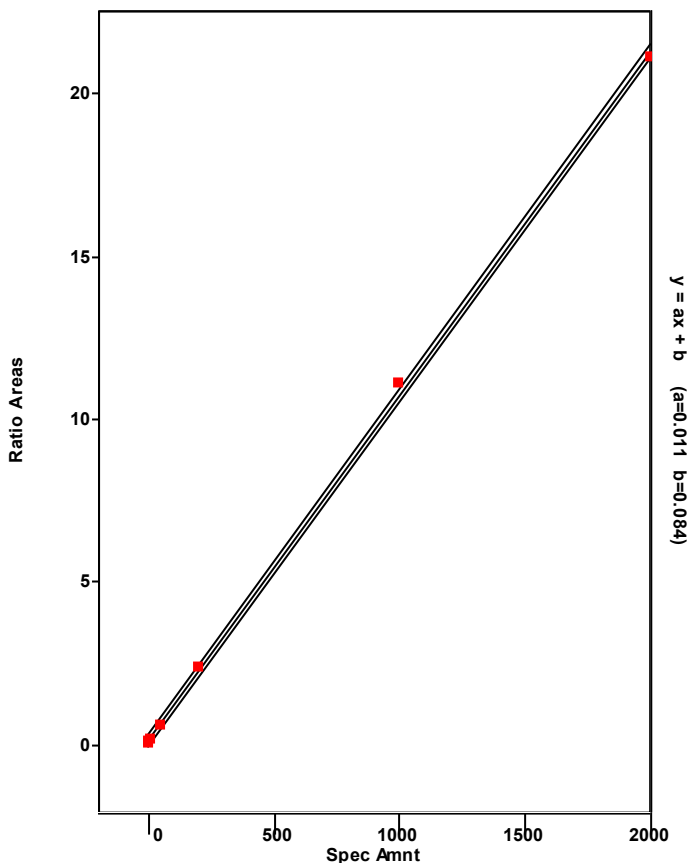
RT: 43.63 - 45.63 SM: 7G



Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	647423
RM1 Area	846596
RM1 Ratio (A)	1.3076
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.78
Percent Recovery (A)	102
TEQ (A)	5.0780
Label2	

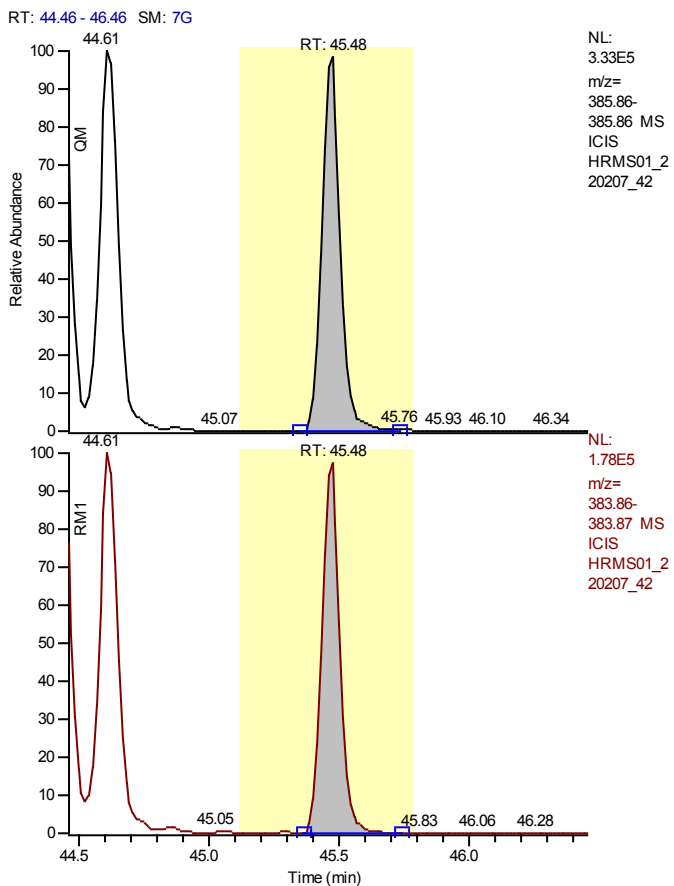
Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

Entry Parameters



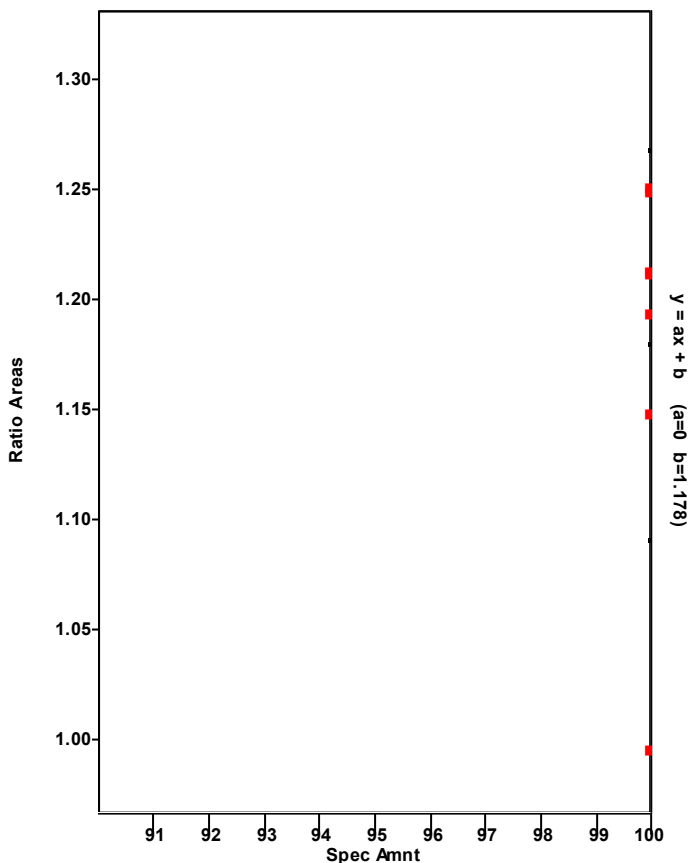
NL:
 3.33E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_42

NL:
 1.78E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_42

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1610277
RM1 Area	828764
RM1 Ratio (A)	0.5147
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	107.76
Percent Recovery (A)	108
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

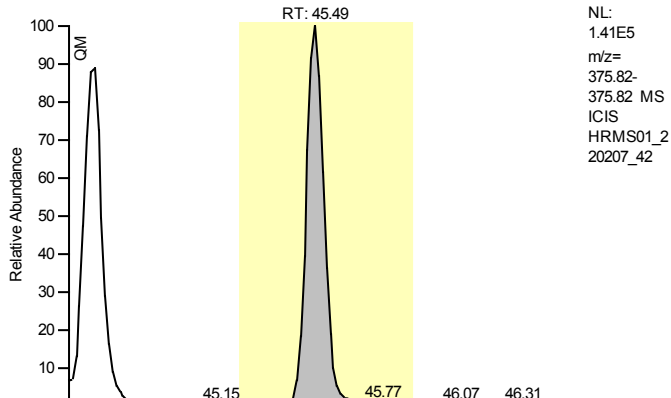
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

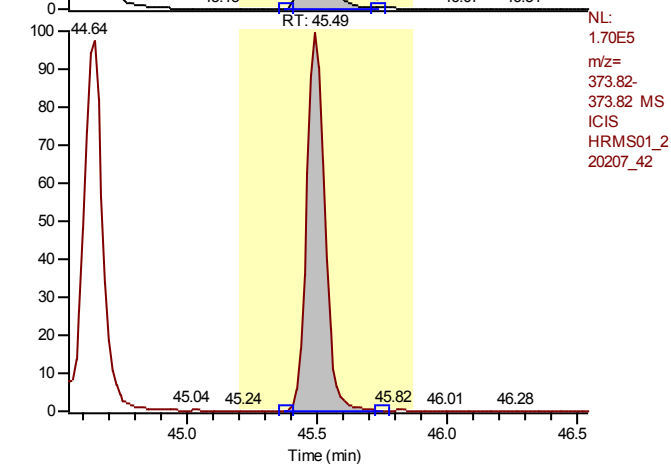
Entry Parameters

RT: 44.54 - 46.54 SM: 7G



NL:
 1.41E5
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_42

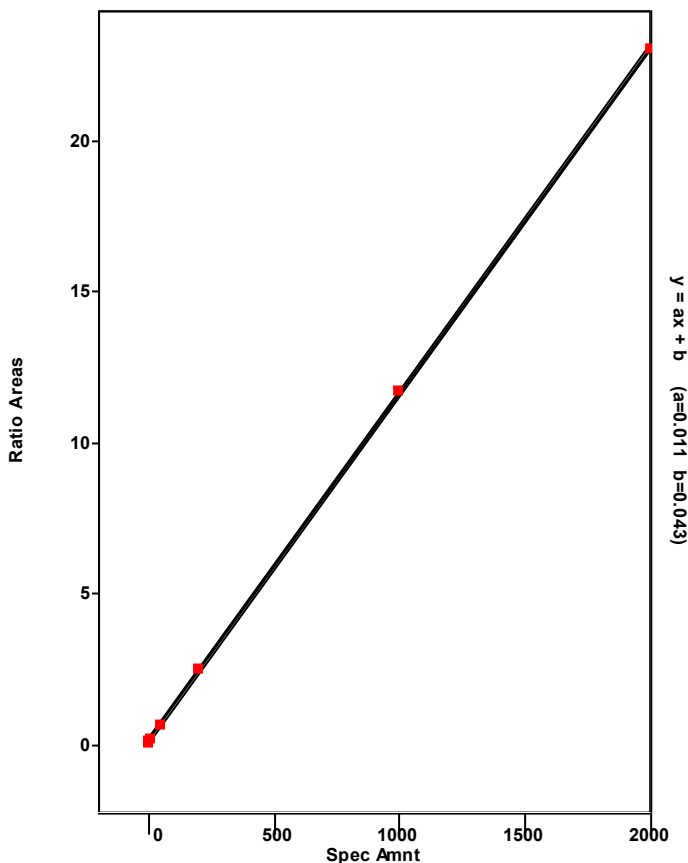
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	669588
RM1 Area	807201
RM1 Ratio (A)	1.2055
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.74
Percent Recovery (A)	101
TEQ (A)	5.0740
Label2	



NL:
 1.70E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_42

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

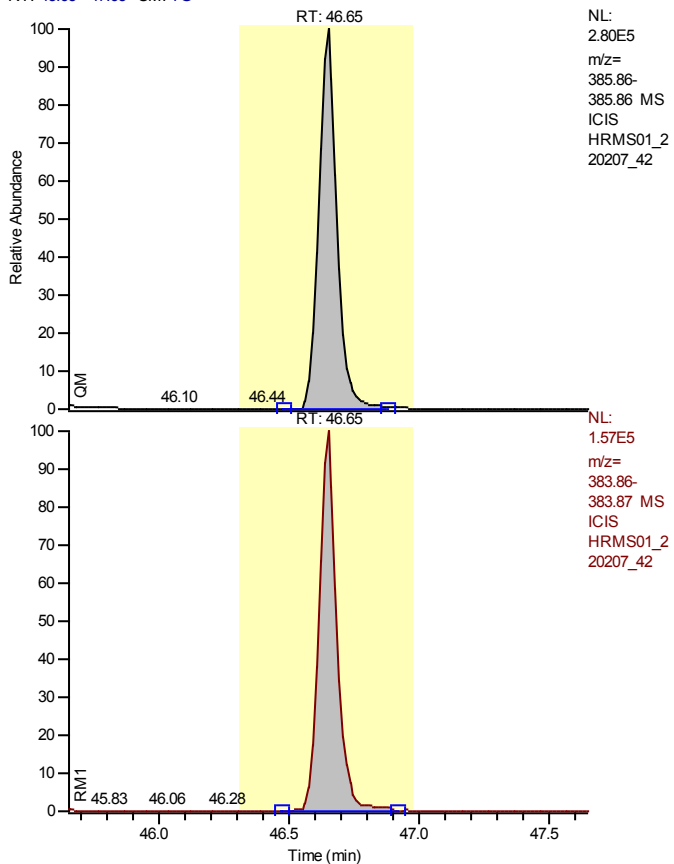
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

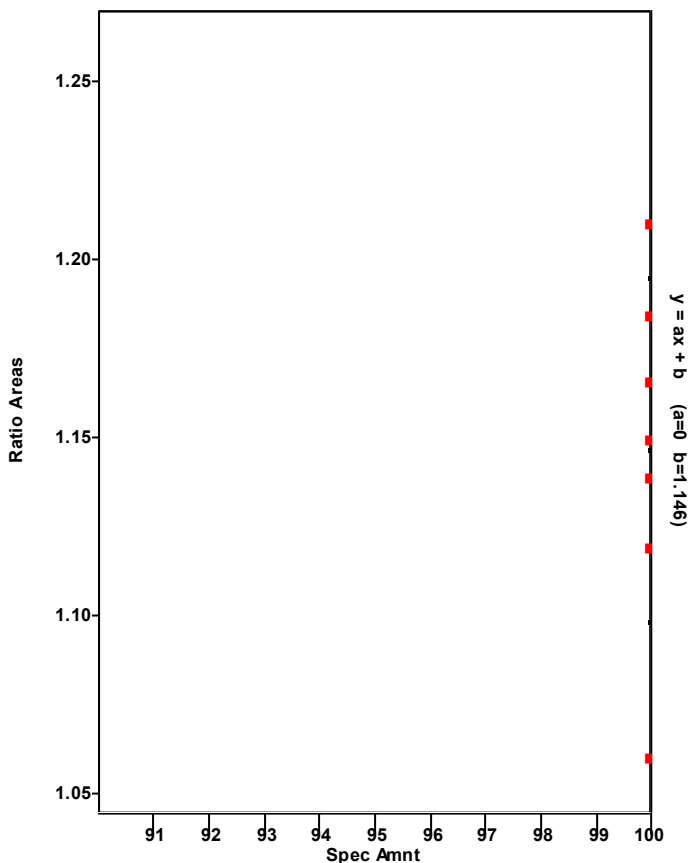
RT: 45.65 - 47.65 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1368727
RM1 Area	753295
RM1 Ratio (A)	0.5504
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	96.38
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

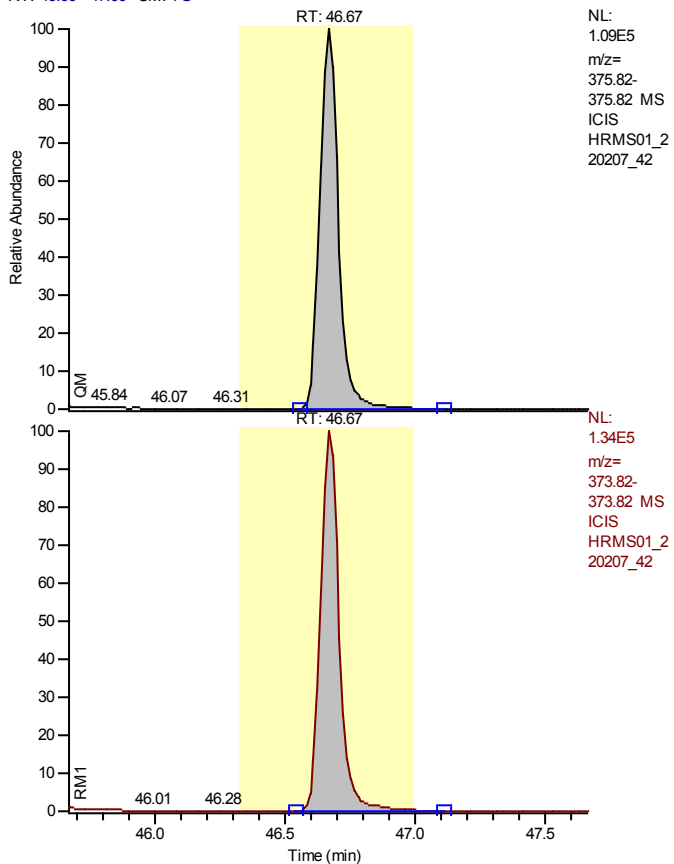
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

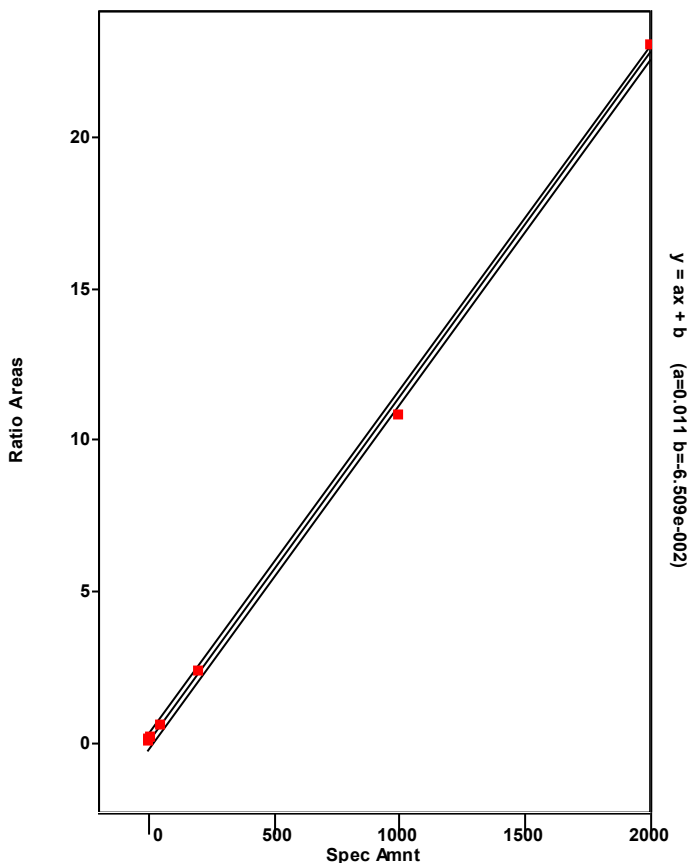
RT: 45.66 - 47.66 SM: 7G



Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	537345
RM1 Area	665964
RM1 Ratio (A)	1.2394
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.64
Percent Recovery (A)	101
TEQ (A)	5.0645
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

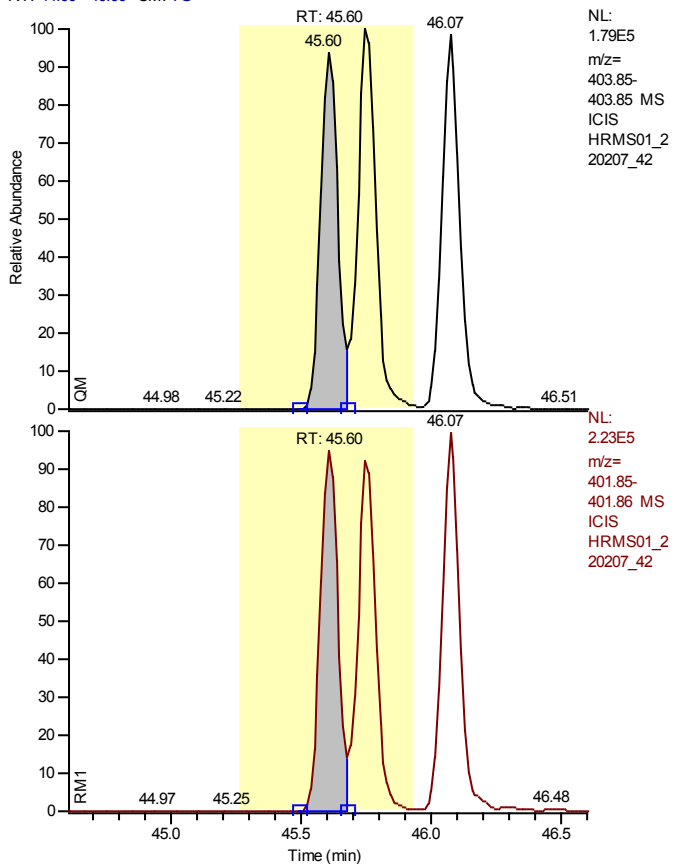
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

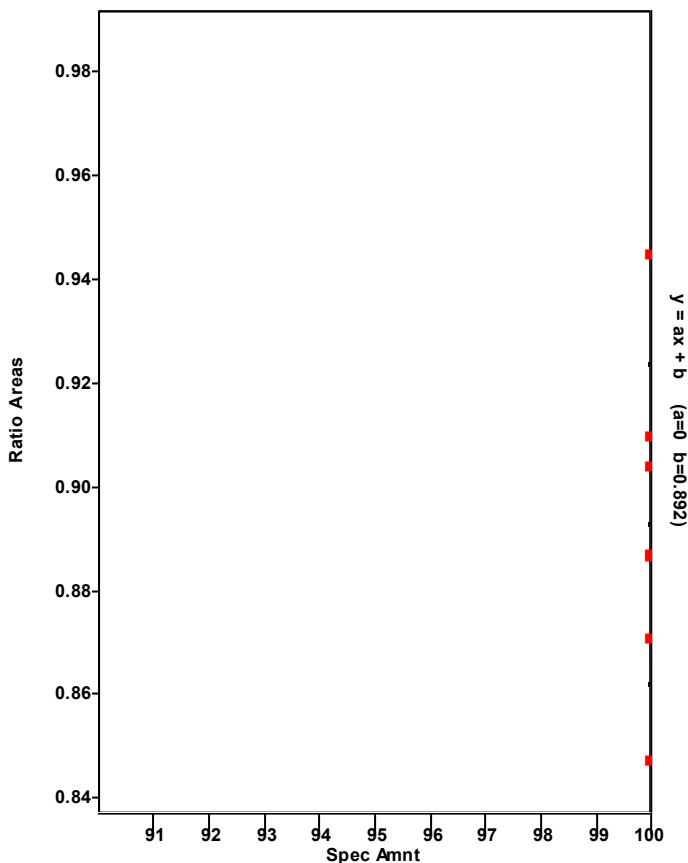
RT: 44.60 - 46.60 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	774644
RM1 Area	994049
RM1 Ratio (A)	1.2832
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	103.15
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

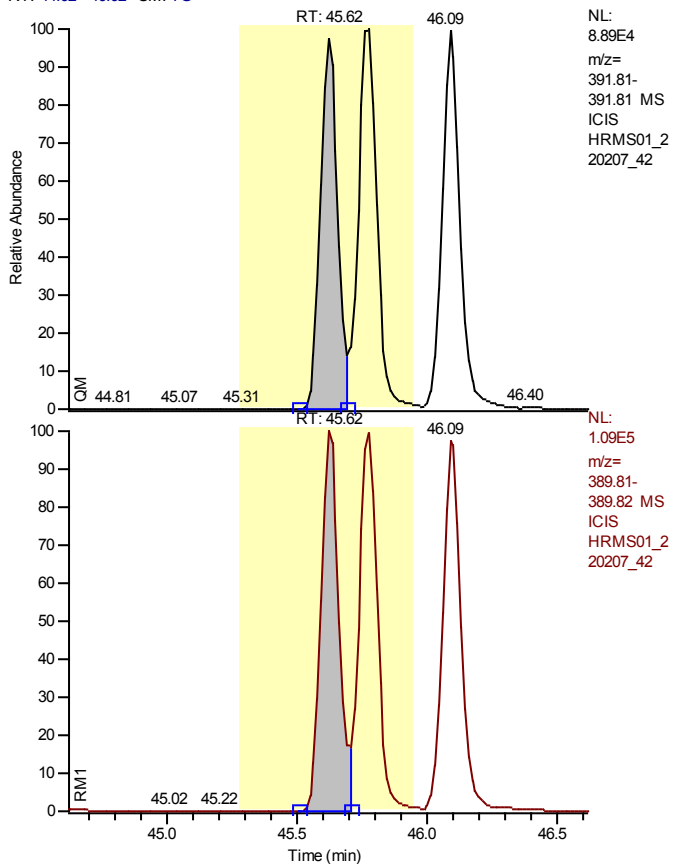
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

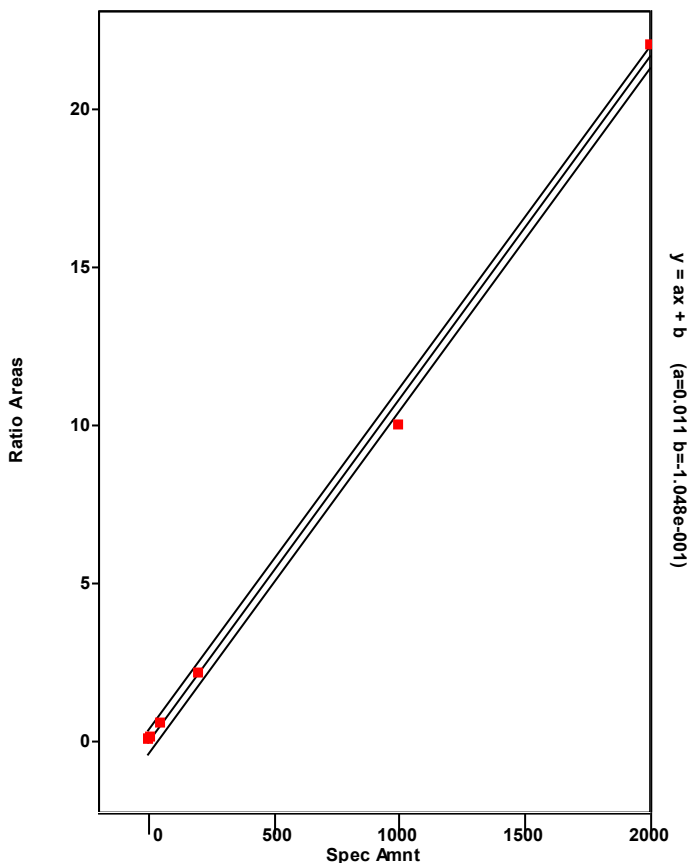
RT: 44.62 - 46.62 SM: 7G



Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	398350
RM1 Area	520883
RM1 Ratio (A)	1.3076
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	49.88
Percent Recovery (A)	100
TEQ (A)	4.9879
Label2	

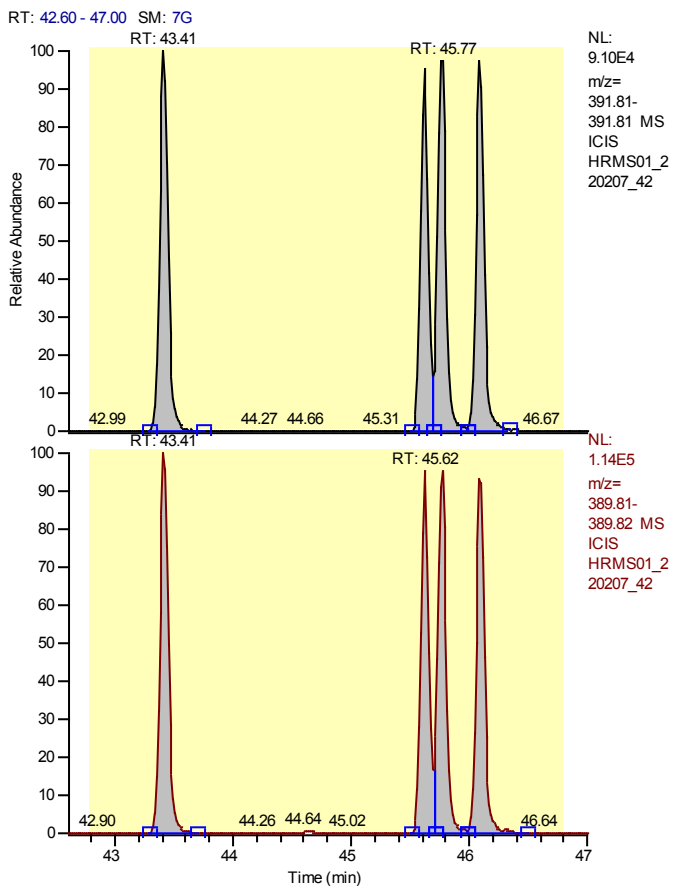
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

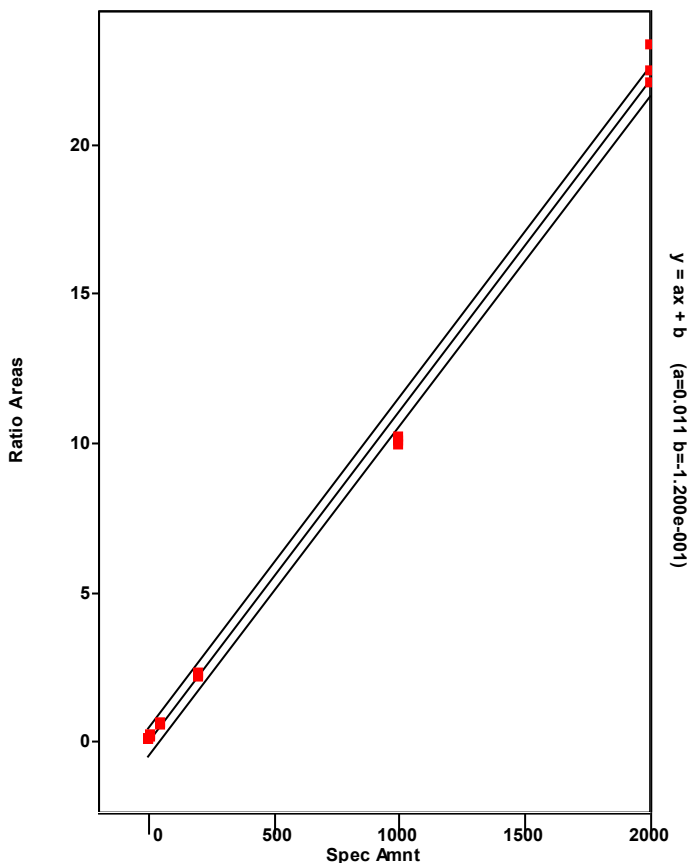
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	1722807
RM1 Area	2145259
RM1 Ratio (A)	1.2452
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	200.87
Percent Recovery (A)	402
TEQ (A)	0.0000
Label2	

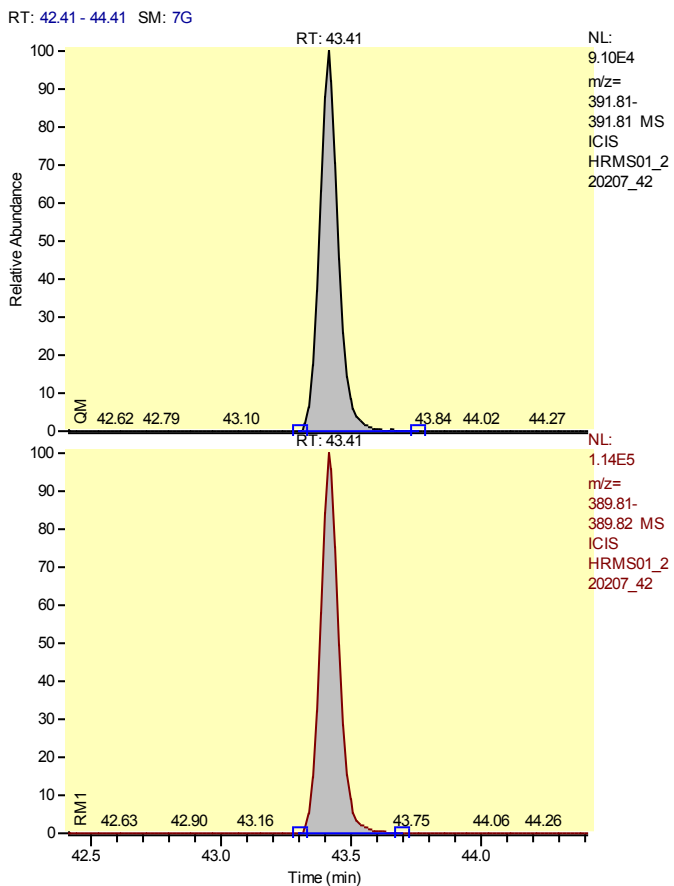
Calibration Points of Total Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

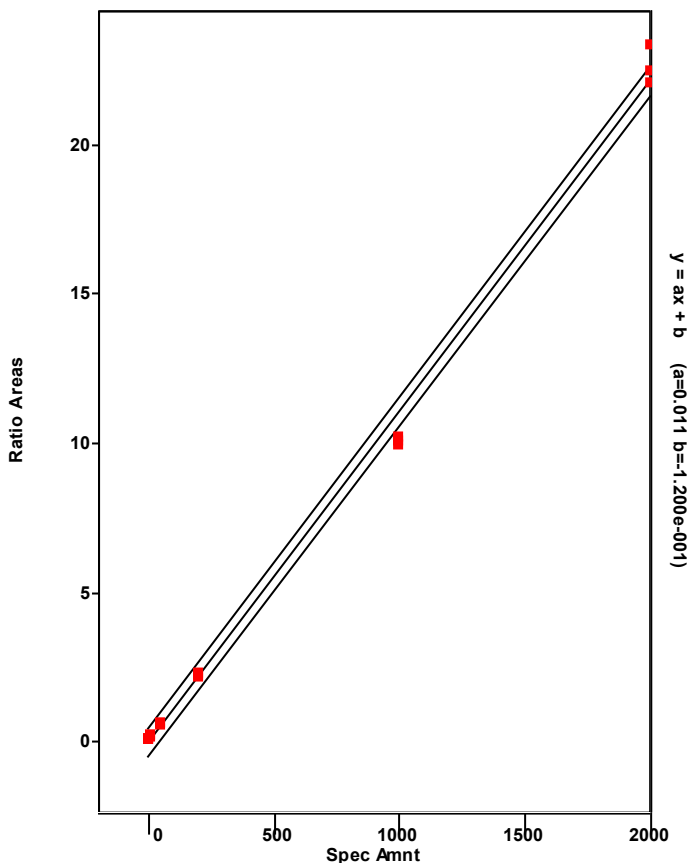
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	457080
RM1 Area	570081
RM1 Ratio (A)	1.2472
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.34
Percent Recovery (A)	107
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

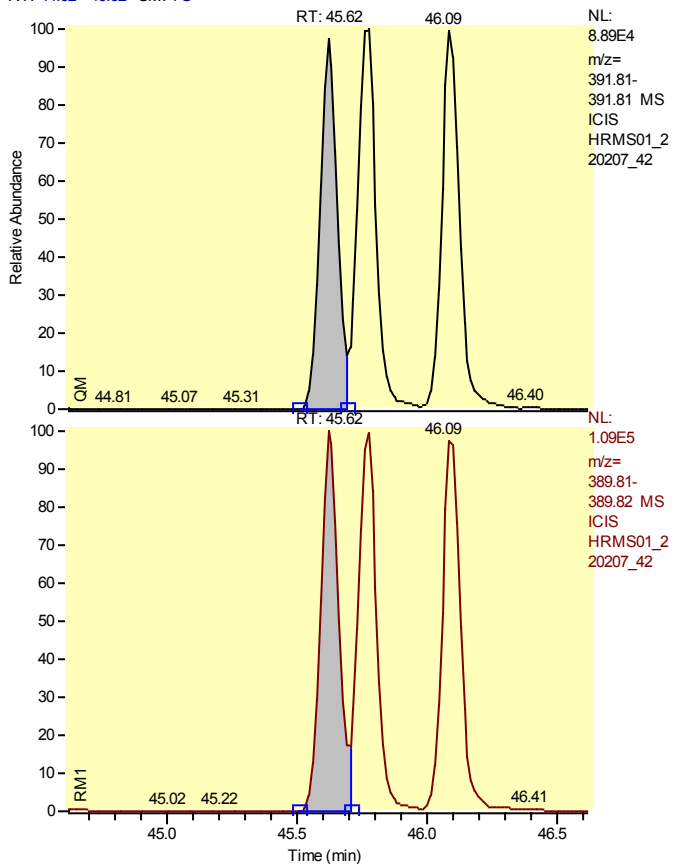
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

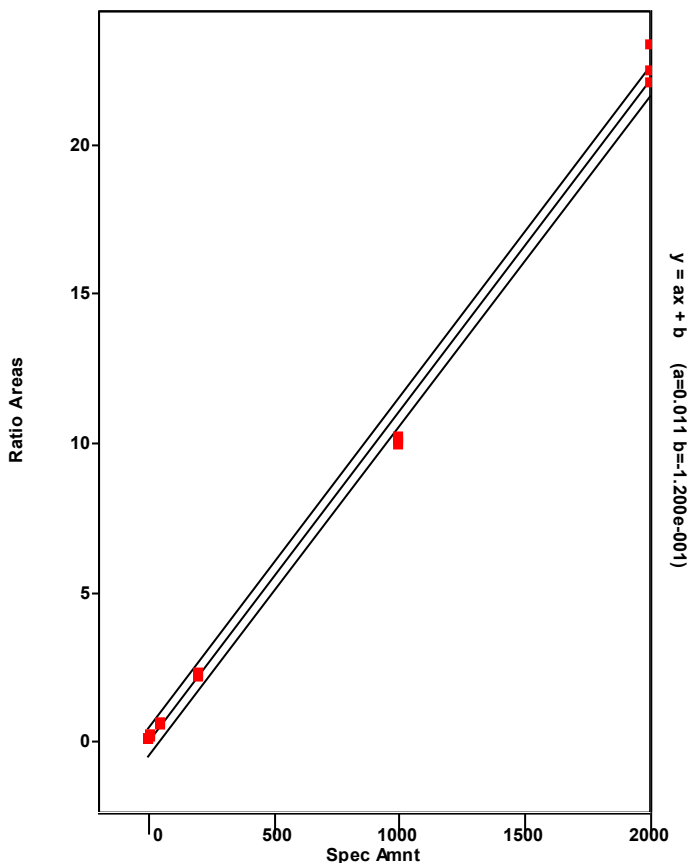
RT: 44.62 - 46.62 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	398350
RM1 Area	520883
RM1 Ratio (A)	1.3076
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.74
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

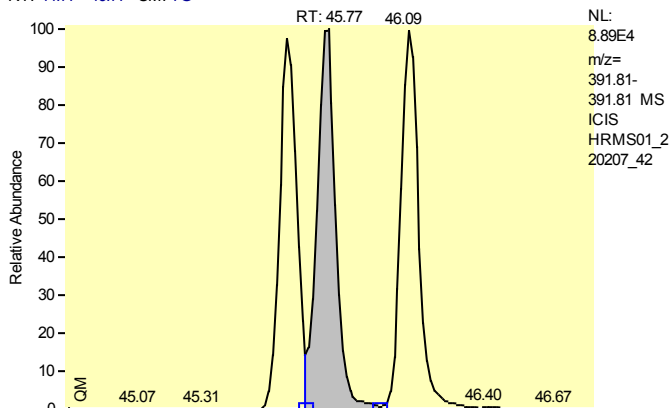
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

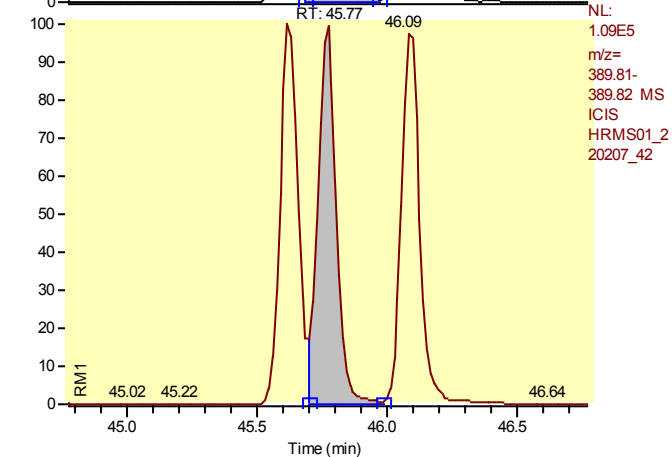
Entry Parameters

RT: 44.77 - 46.77 SM: 7G



NL:
8.89E4
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20207_42

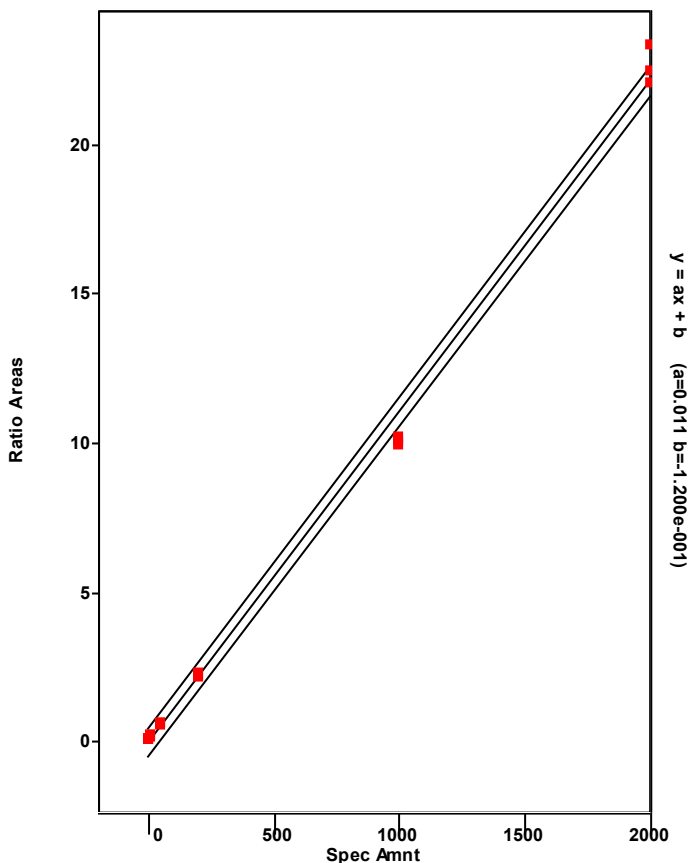
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	445884
RM1 Area	529758
RM1 Ratio (A)	1.1881
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.67
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	



NL:
1.09E5
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20207_42

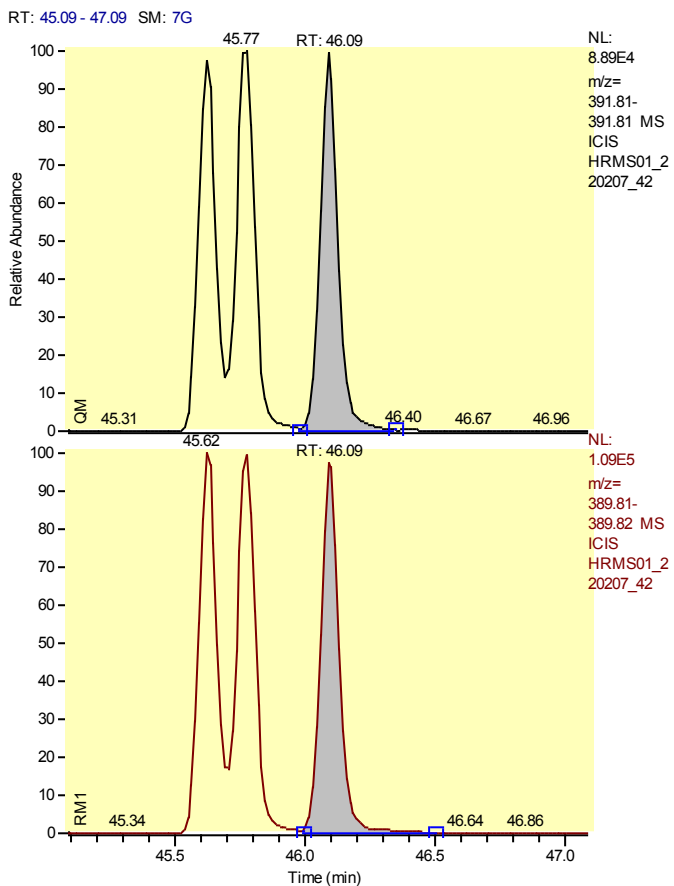
Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

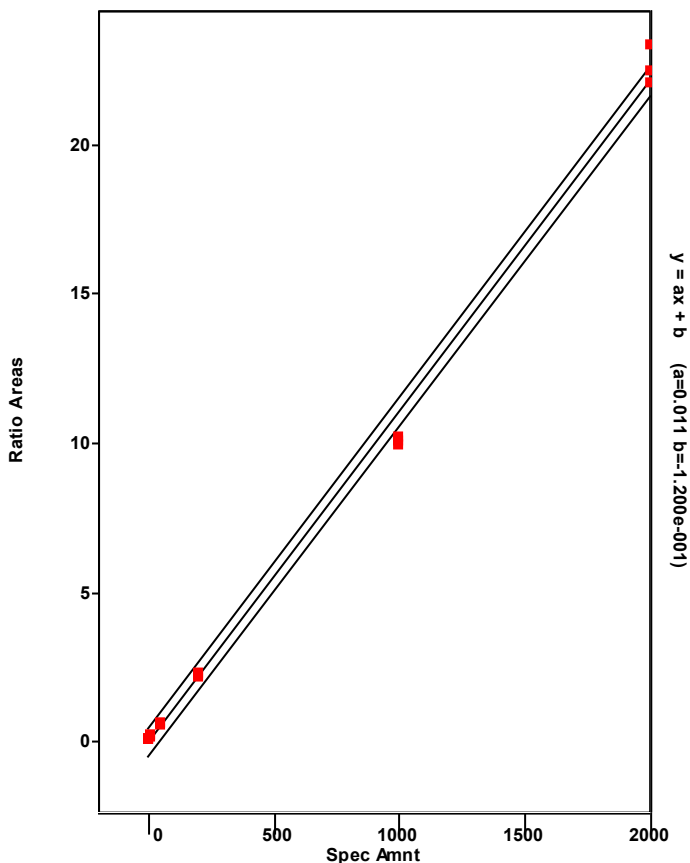
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	421492
RM1 Area	524538
RM1 Ratio (A)	1.2445
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	49.13
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

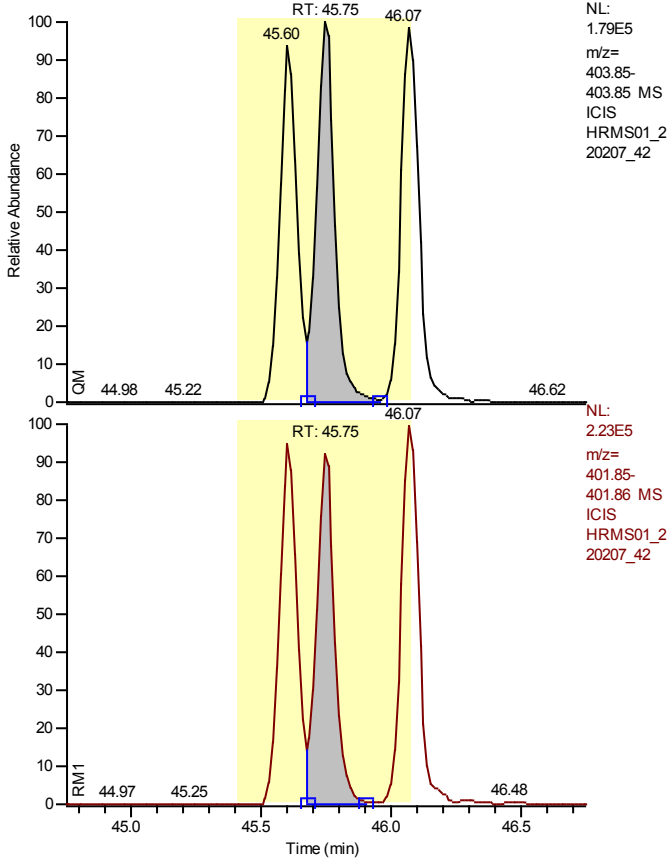
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G



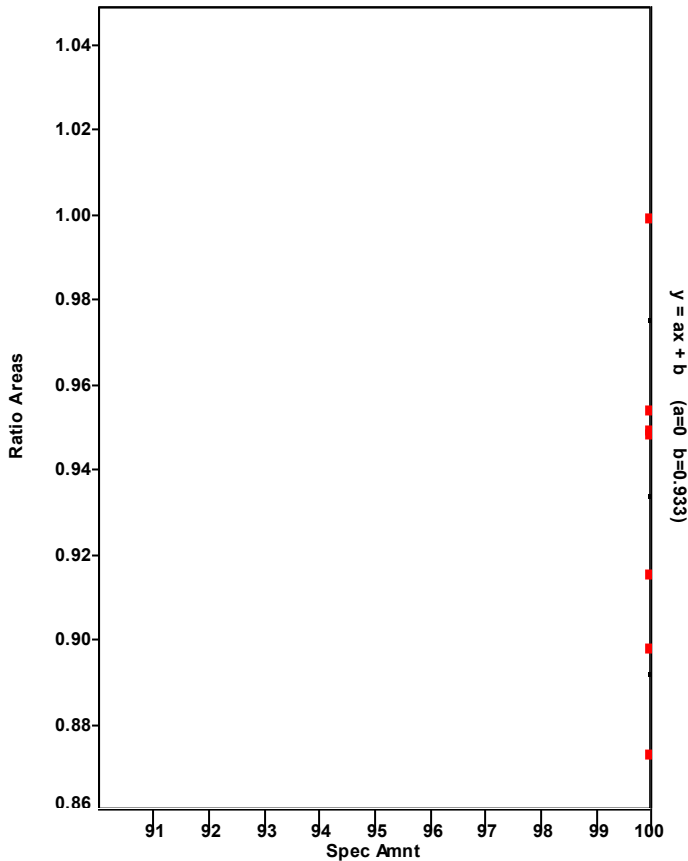
NL:
1.79E5
m/z=
403.85-
403.85 MS
ICIS
HRMS01_2
20207_42

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	885502
RM1 Area	998016
RM1 Ratio (A)	1.1271
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	105.03
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

NL:
2.23E5
m/z=
401.85-
401.86 MS
ICIS
HRMS01_2
20207_42

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

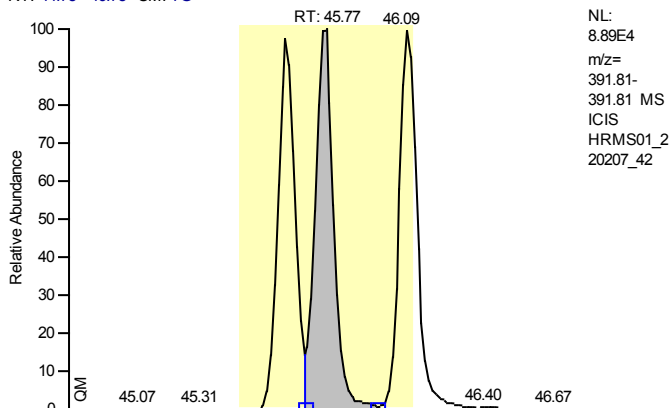
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

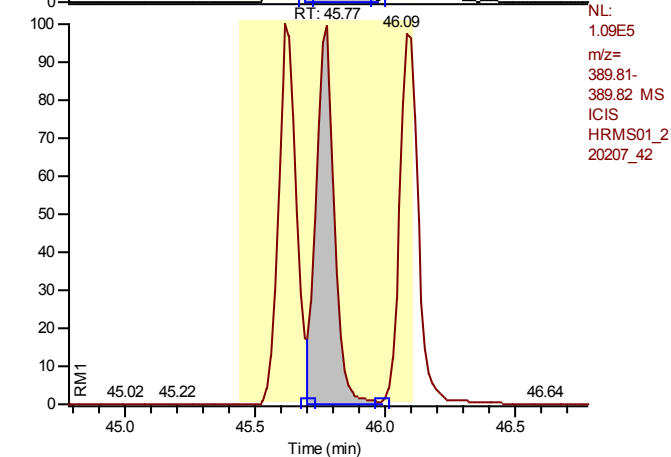
Entry Parameters

RT: 44.78 - 46.78 SM: 7G



NL:
 8.89E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_42

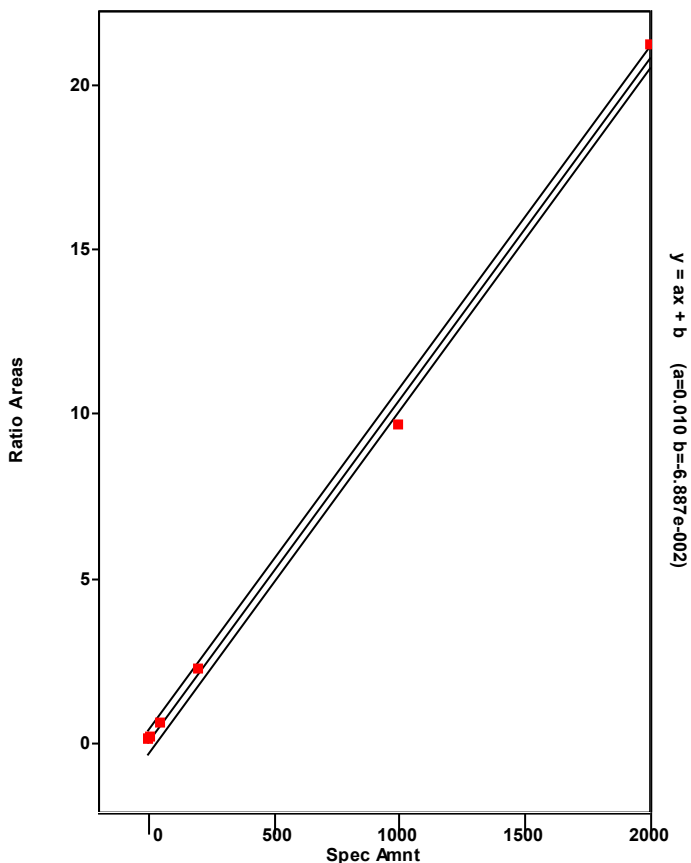
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	445884
RM1 Area	529758
RM1 Ratio (A)	1.1881
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	48.76
Percent Recovery (A)	98
TEQ (A)	4.8762
Label2	



NL:
 1.09E5
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_42

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

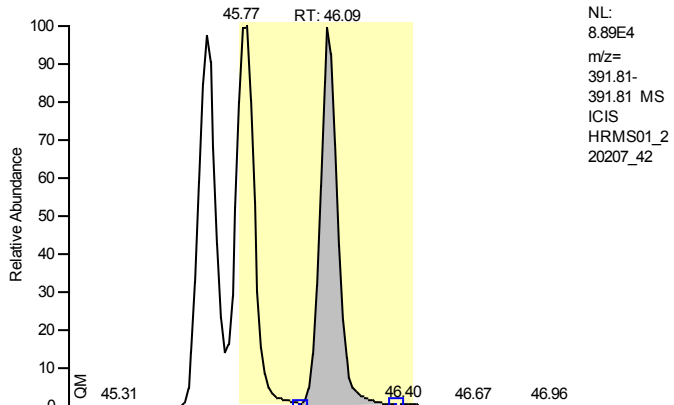
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

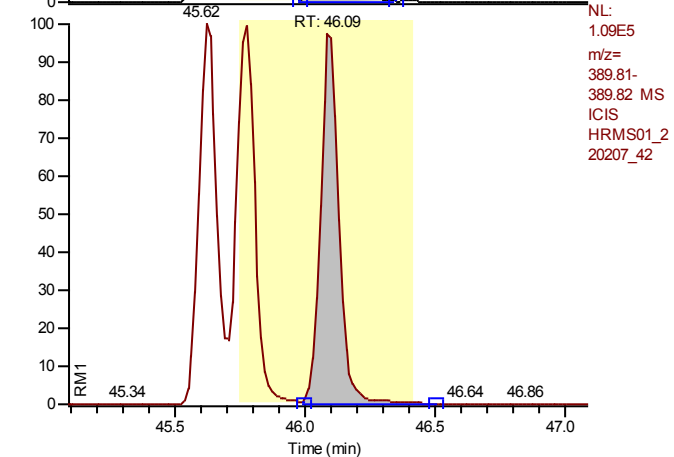
Entry Parameters

RT: 45.09 - 47.09 SM: 7G



NL:
8.89E4
m/z=
391.81-
391.81 MS
ICIS
HRMS01_2
20207_42

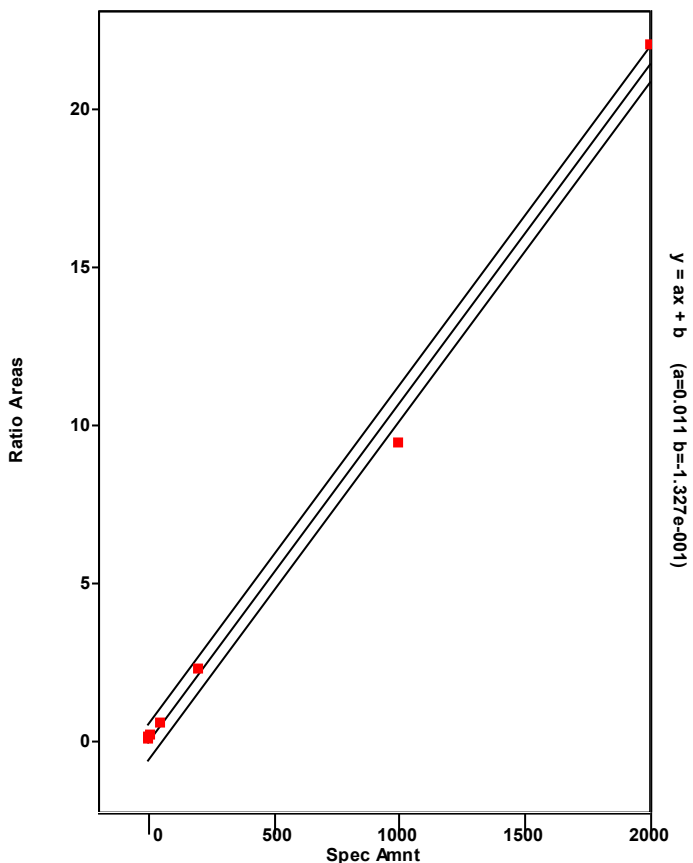
Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	421492
RM1 Area	524538
RM1 Ratio (A)	1.2445
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.21
Percent Recovery (A)	94
TEQ (A)	4.7208
Label2	



NL:
1.09E5
m/z=
389.81-
389.82 MS
ICIS
HRMS01_2
20207_42

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

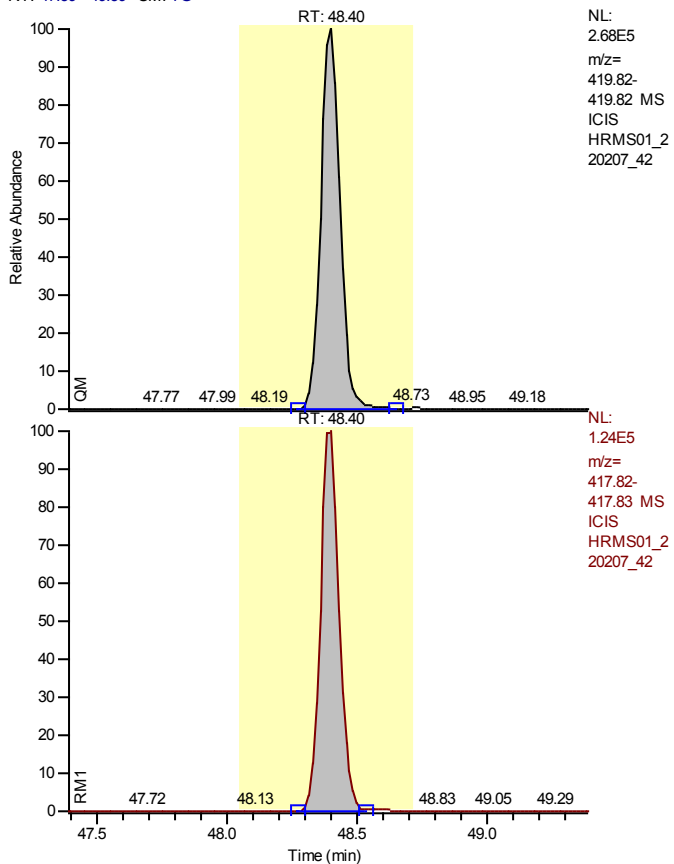
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

Entry Parameters

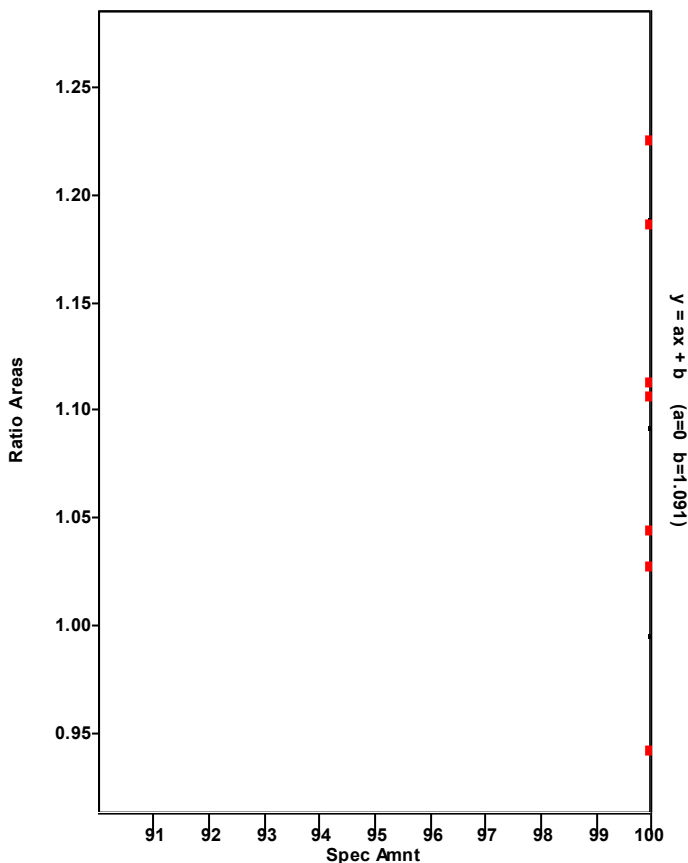
RT: 47.39 - 49.39 SM: 7G



Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1380925
RM1 Area	622337
RM1 Ratio (A)	0.4507
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	95.59
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

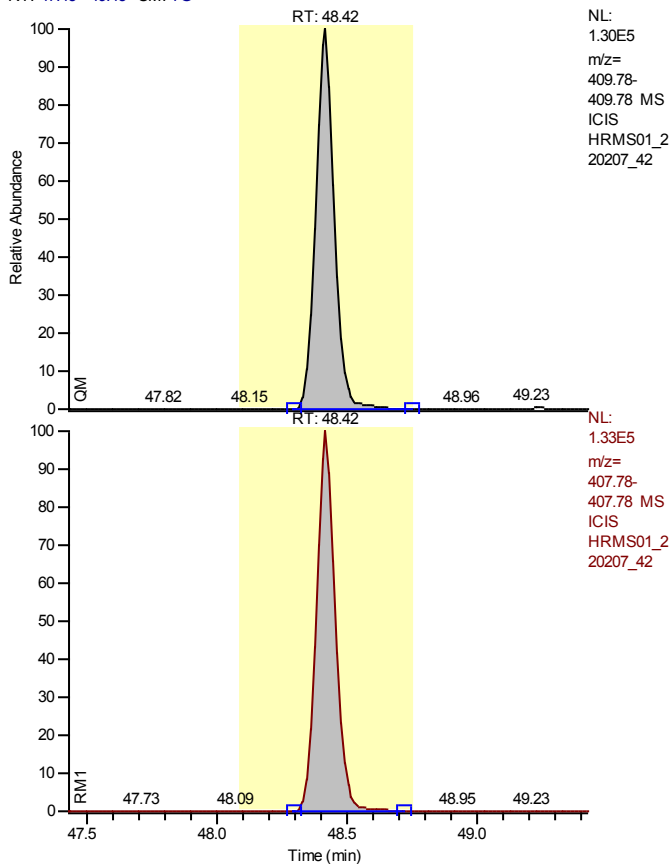
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

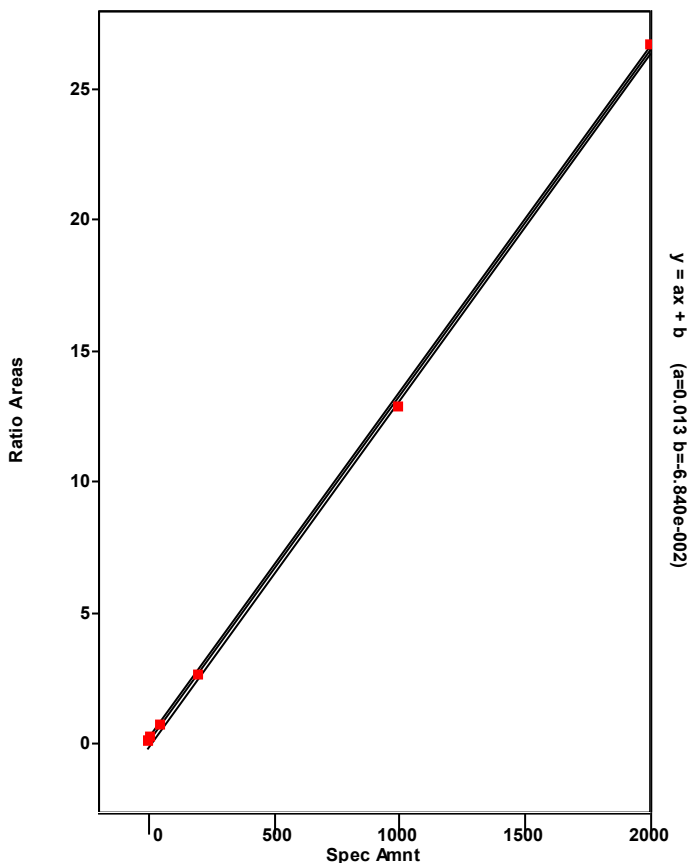
RT: 47.43 - 49.43 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	654528
RM1 Area	680025
RM1 Ratio (A)	1.0390
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.79
Percent Recovery (A)	104
TEQ (A)	0.5179
Label2	

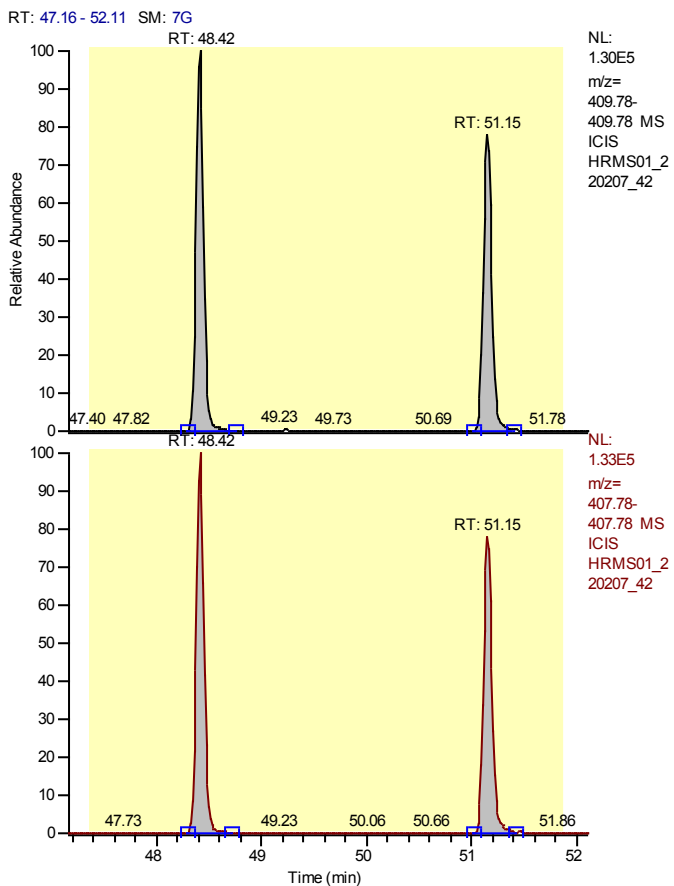
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

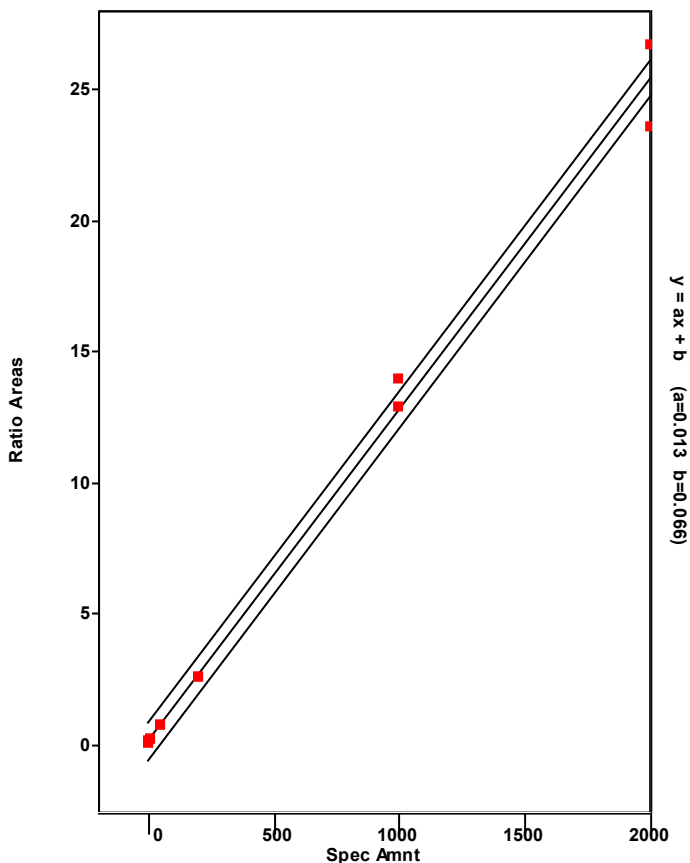
Entry Parameters



Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1229695
RM1 Area	1271475
RM1 Ratio (A)	1.0340
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	99.78
Percent Recovery (A)	200
TEQ (A)	0.0000
Label2	

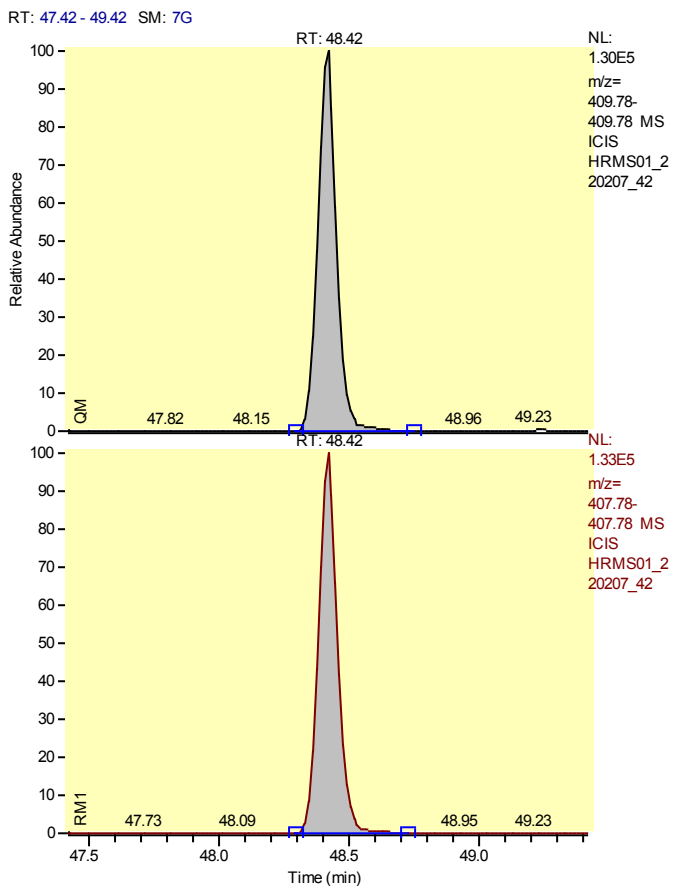
Calibration Points of Total Heptachlorodibenzofuran

Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

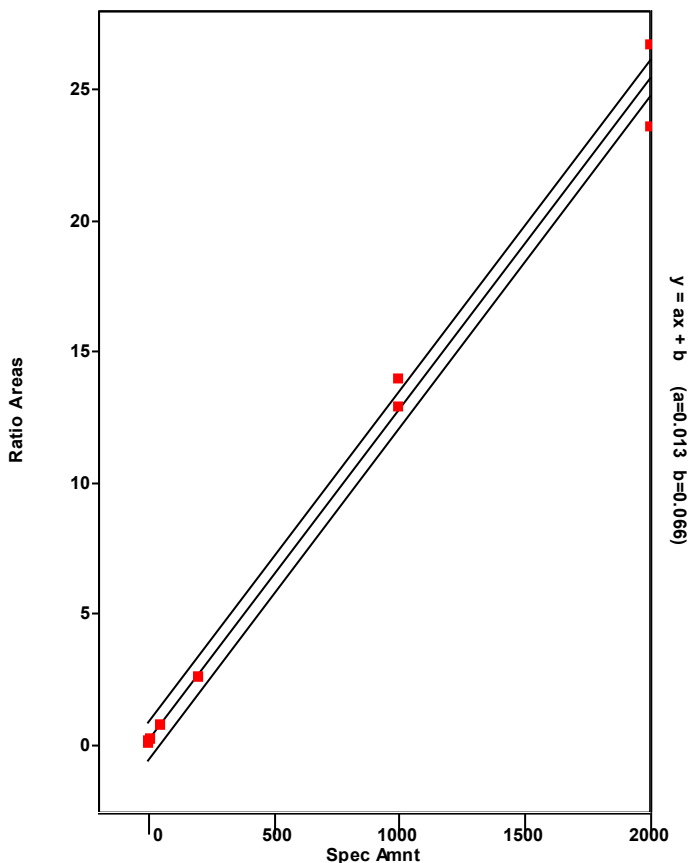
Entry Parameters



Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	654528
RM1 Area	680025
RM1 Ratio (A)	1.0390
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	53.24
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	

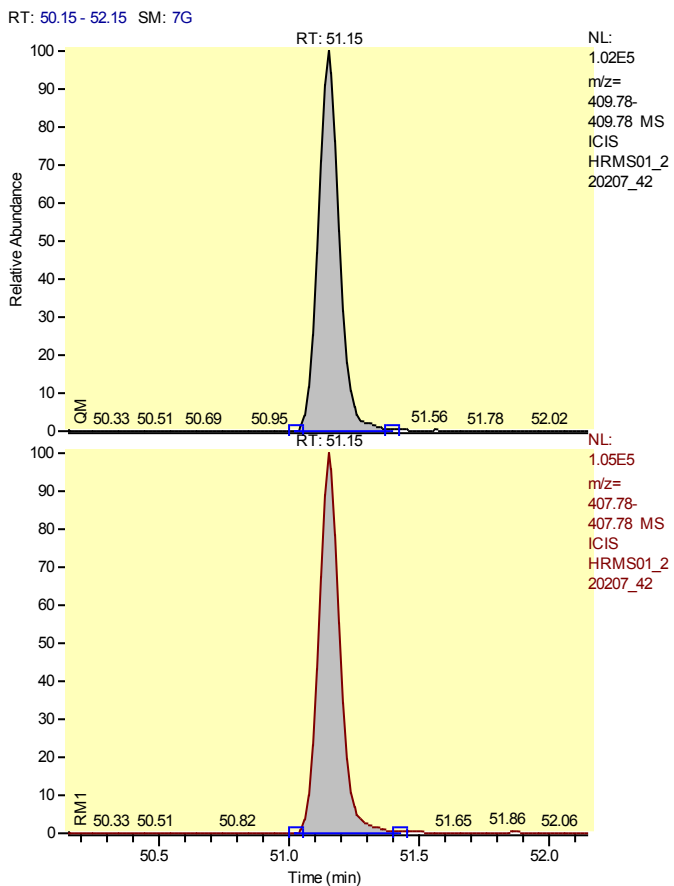
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

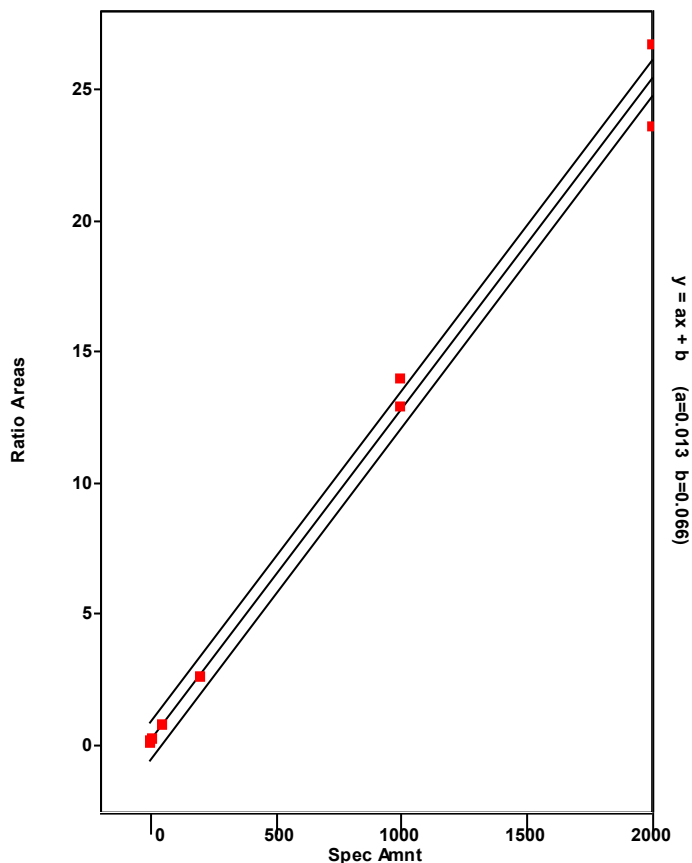
Entry Parameters



Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	575168
RM1 Area	591450
RM1 Ratio (A)	1.0283
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	46.54
Percent Recovery (A)	93
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__2

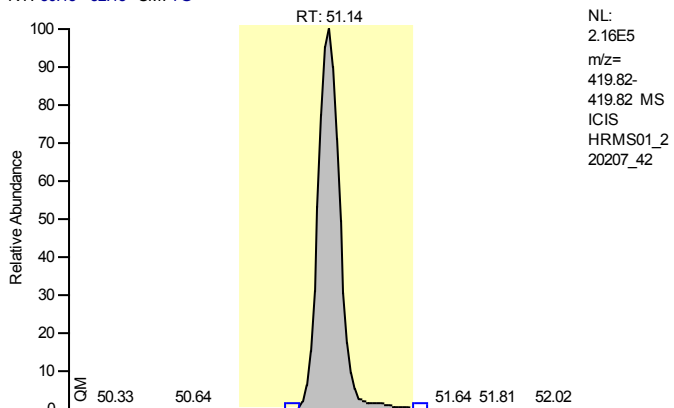
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



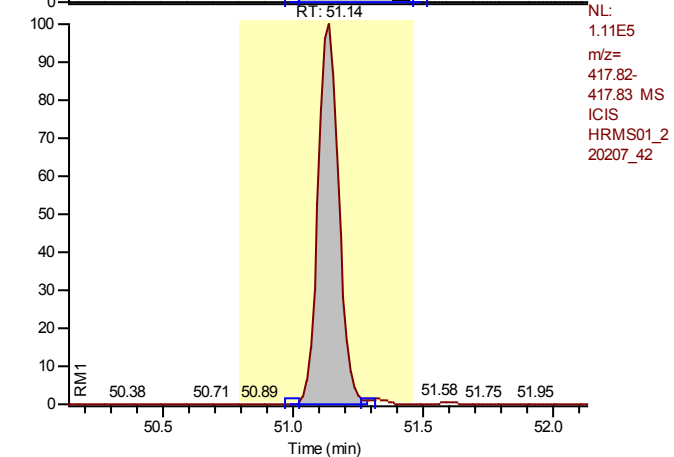
Chromatogram

Entry Parameters

RT: 50.13 - 52.13 SM: 7G

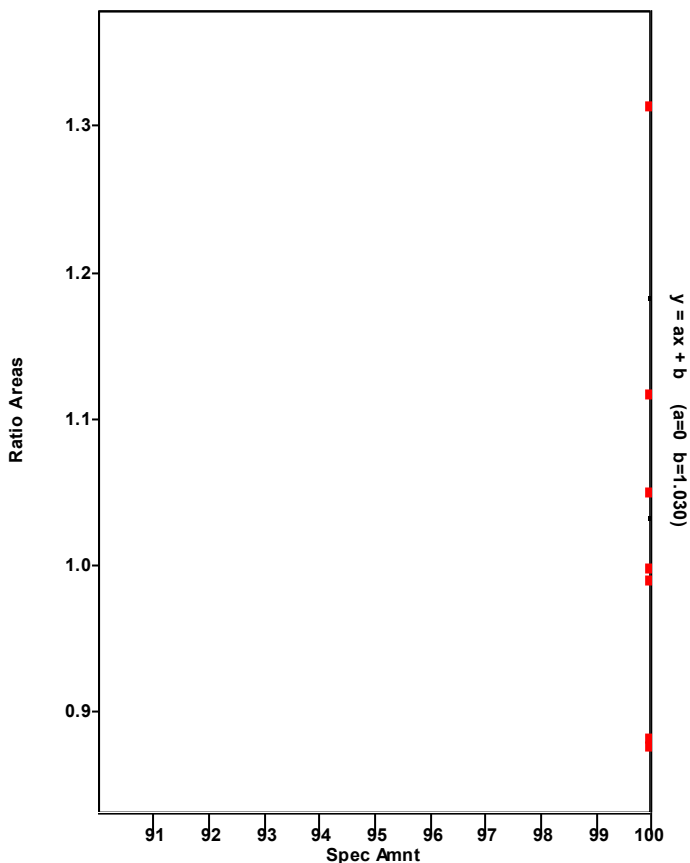


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1257475
RM1 Area	610934
RM1 Ratio (A)	0.4858
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	94.39
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

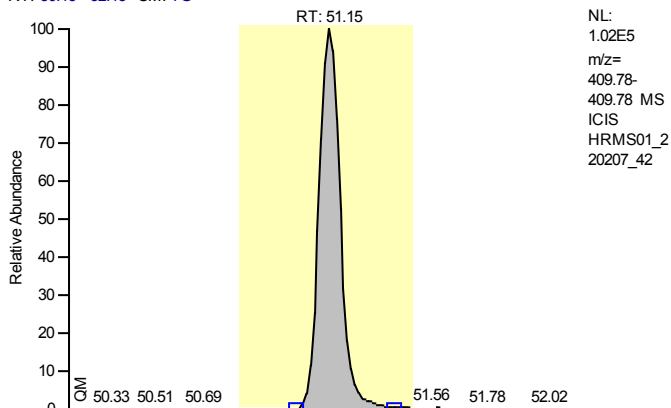
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



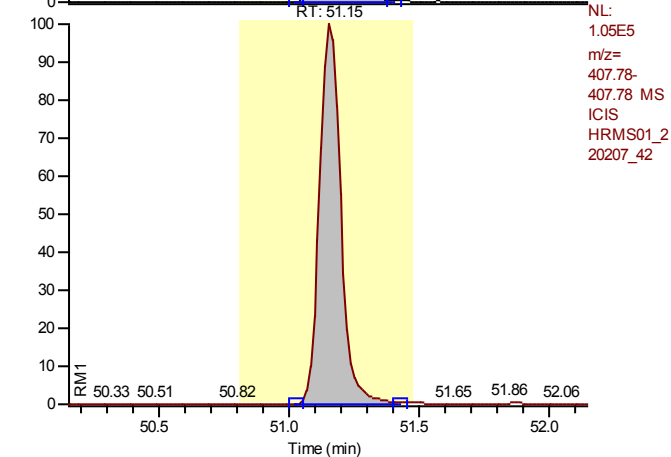
Chromatogram

Entry Parameters

RT: 50.15 - 52.15 SM: 7G

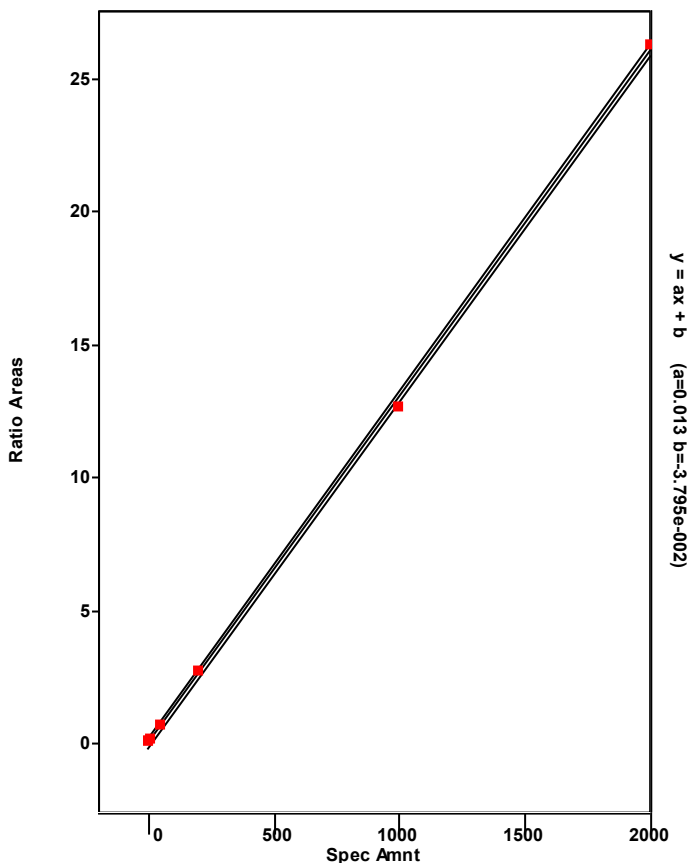


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	575168
RM1 Area	591450
RM1 Ratio (A)	1.0283
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	48.40
Percent Recovery (A)	97
TEQ (A)	0.4840
Label2	



Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

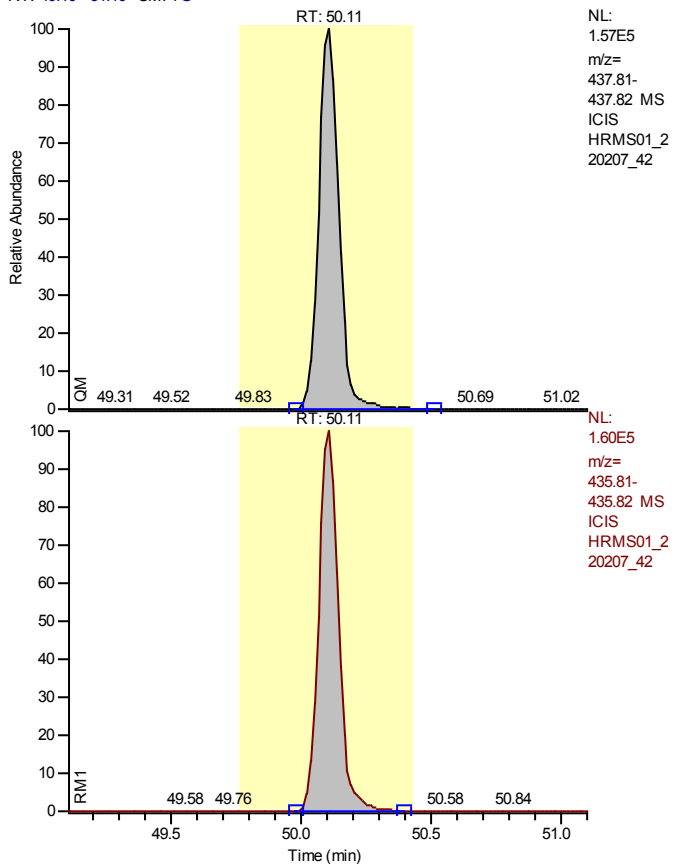
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G



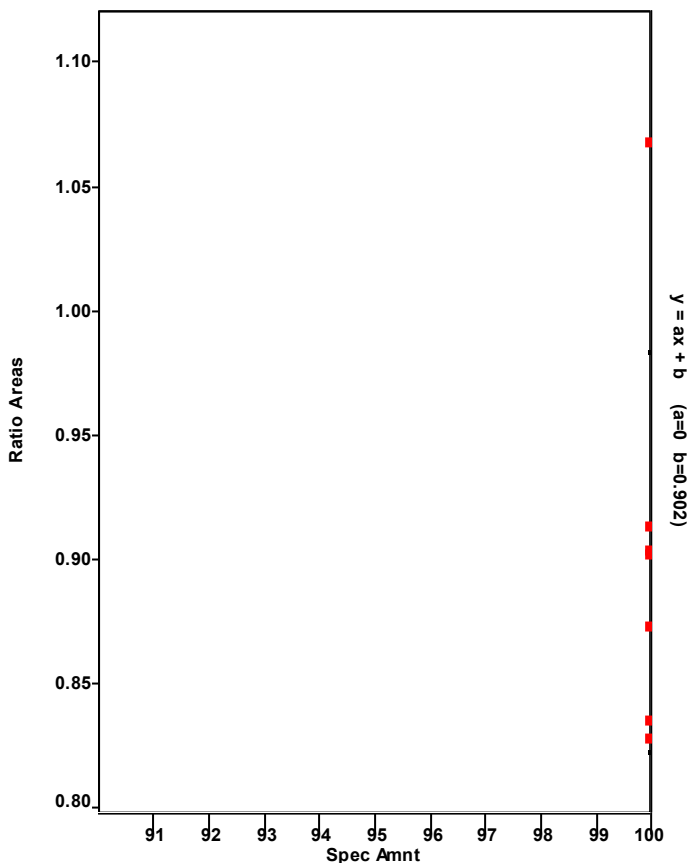
NL:
 1.57E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_42

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	845570
RM1 Area	845334
RM1 Ratio (A)	0.9997
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	97.58
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

NL:
 1.60E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_42

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

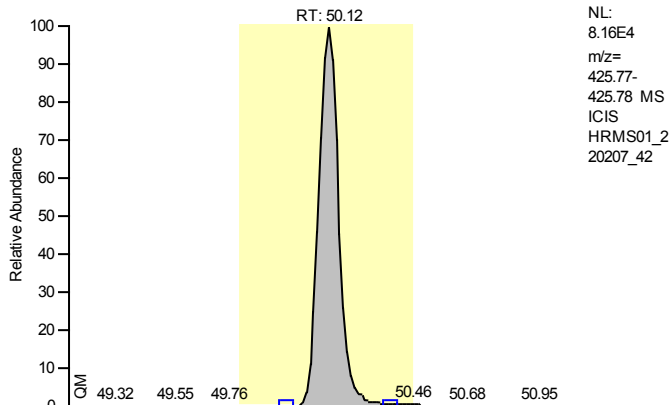
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



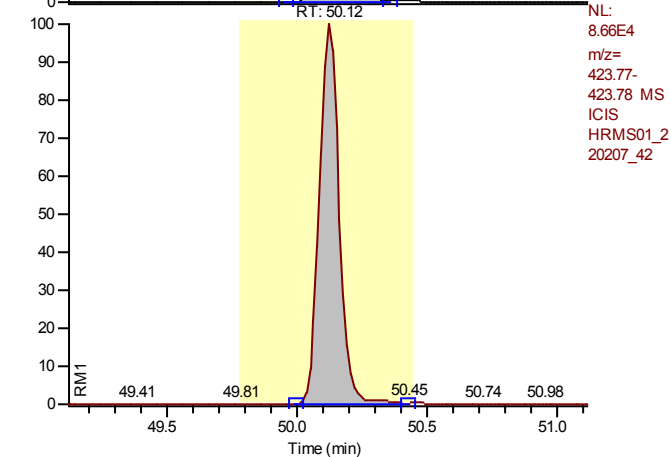
Chromatogram

Entry Parameters

RT: 49.12 - 51.12 SM: 7G

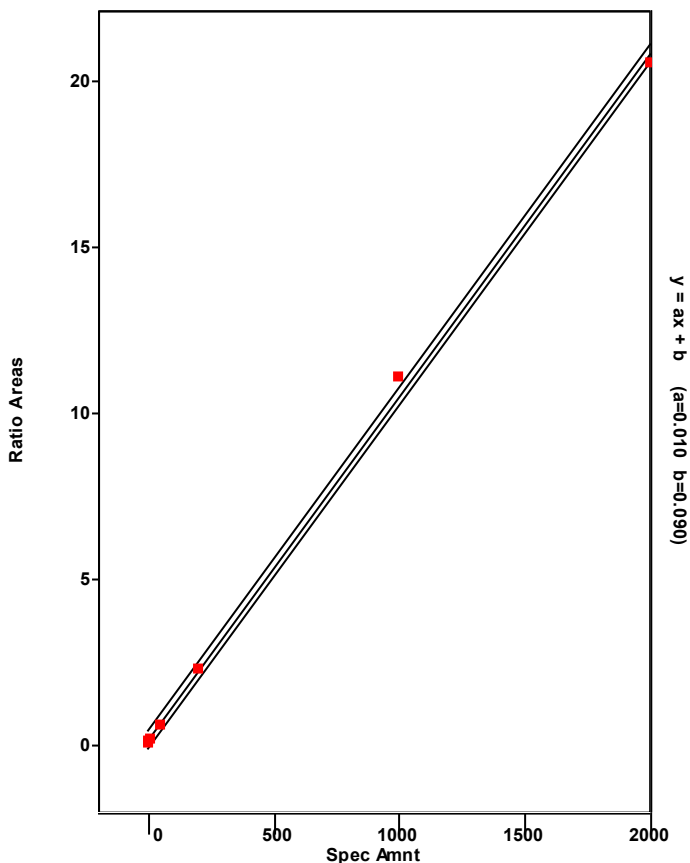


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	437012
RM1 Area	460816
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.20
Percent Recovery (A)	98
TEQ (A)	0.4920
Label2	



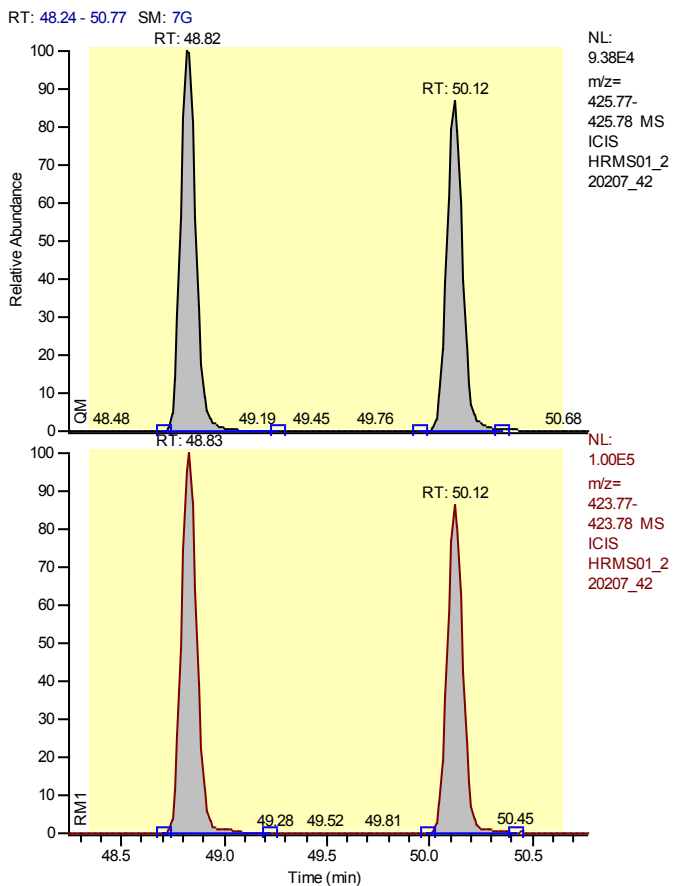
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

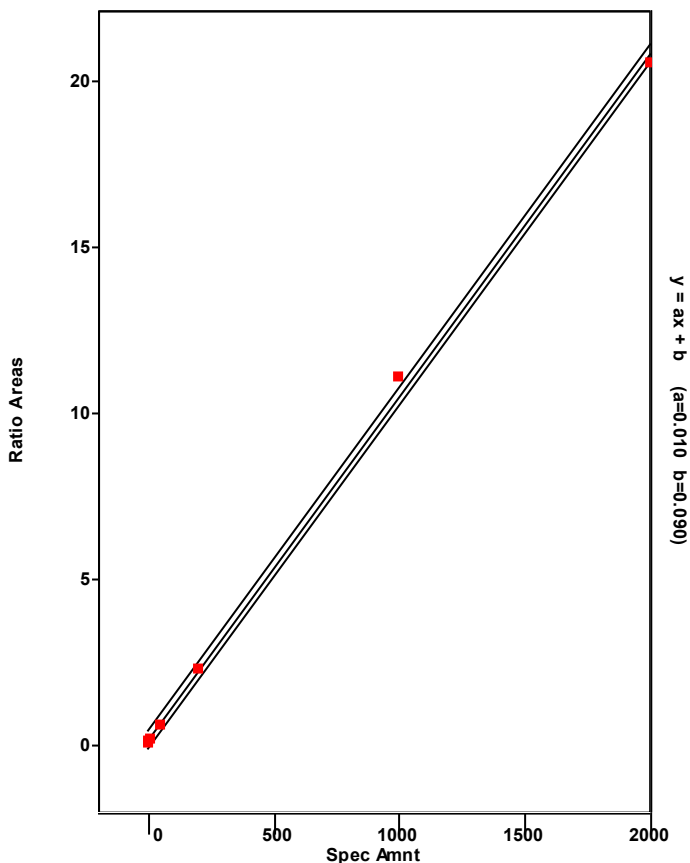
Entry Parameters



Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	925718
RM1 Area	983673
RM1 Ratio (A)	1.0626
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	104.63
Percent Recovery (A)	209
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin

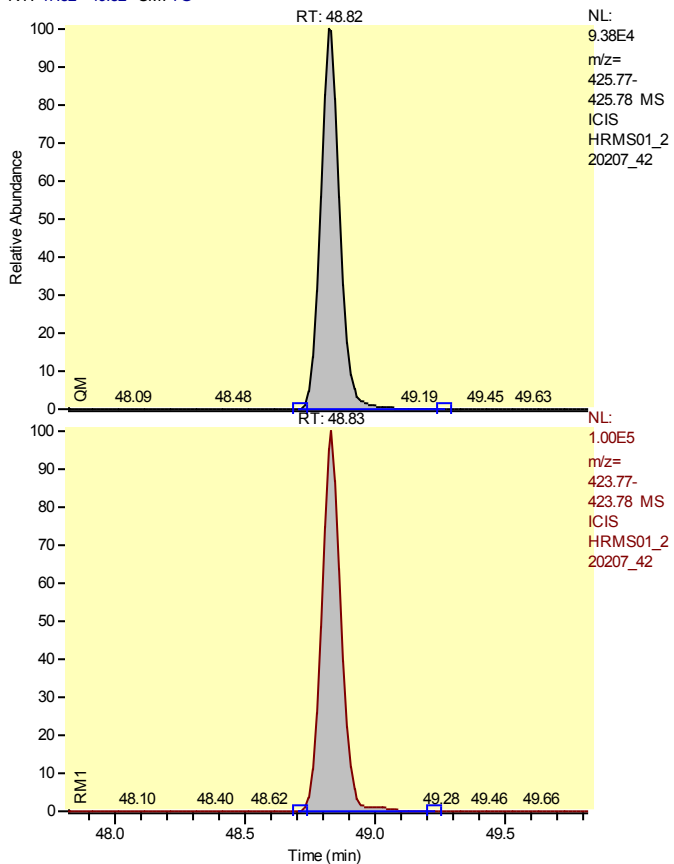
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

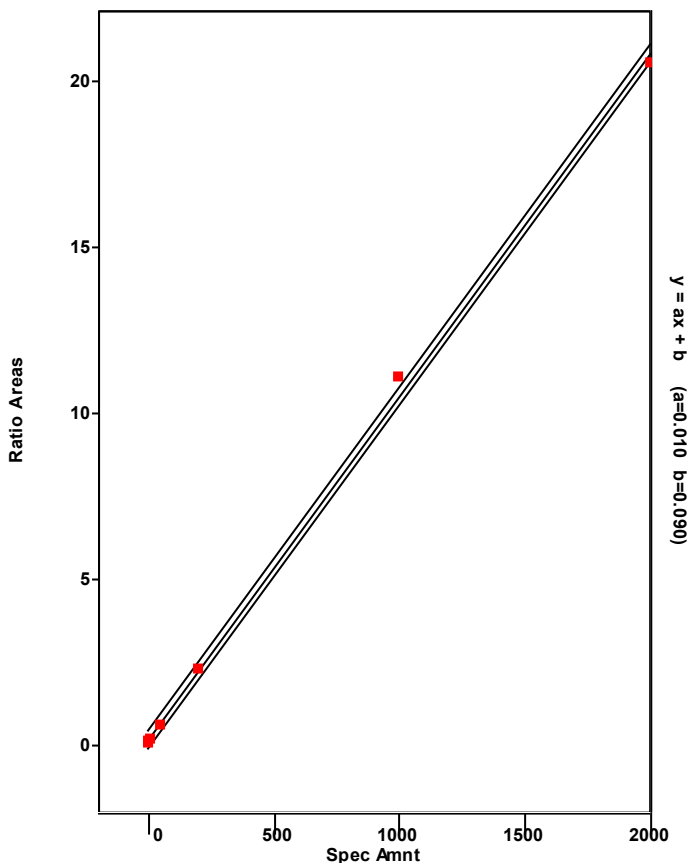
RT: 47.82 - 49.82 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	488706
RM1 Area	522857
RM1 Ratio (A)	1.0699
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.43
Percent Recovery (A)	111
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

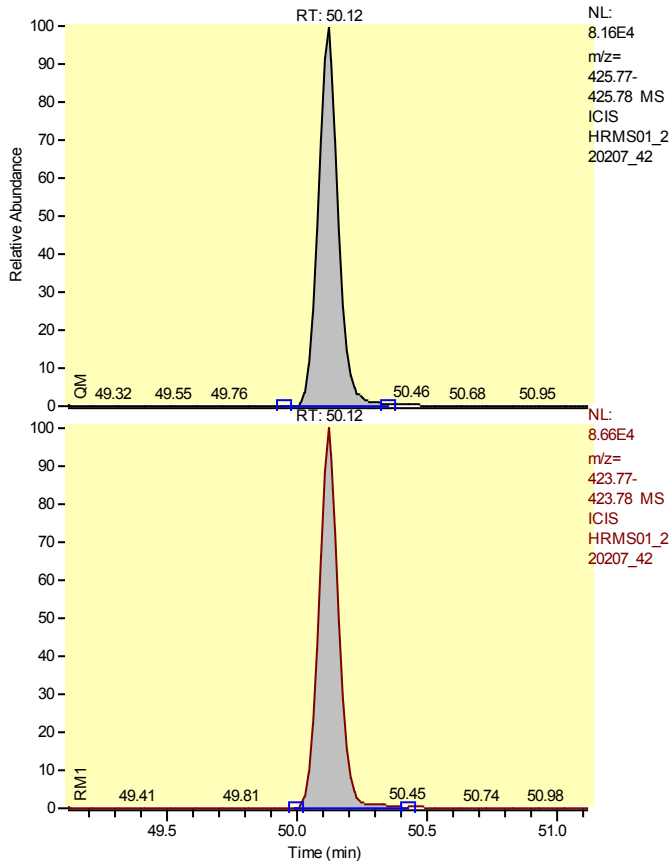
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

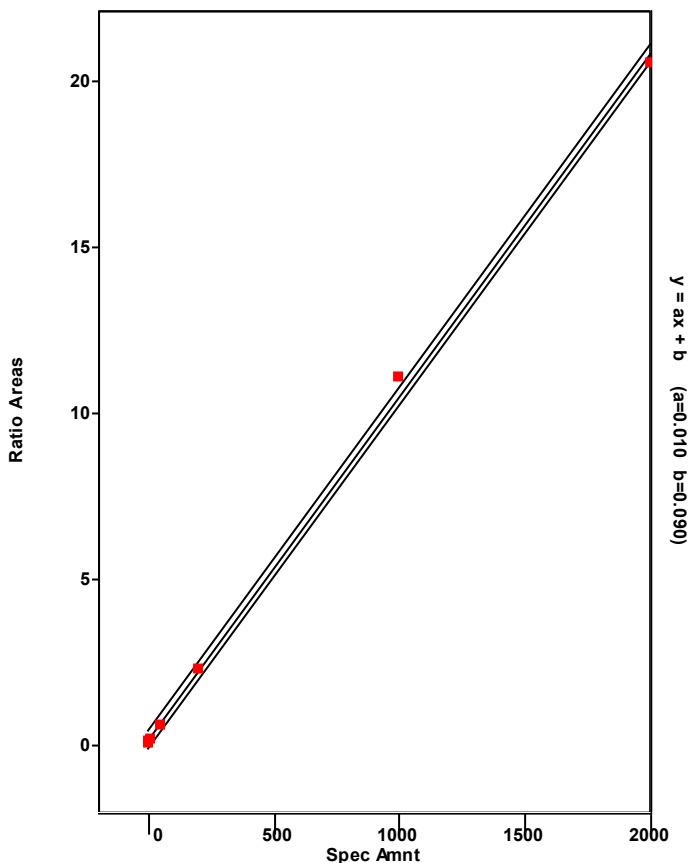
RT: 49.12- 51.12 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	437012
RM1 Area	460816
RM1 Ratio (A)	1.0545
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	49.20
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

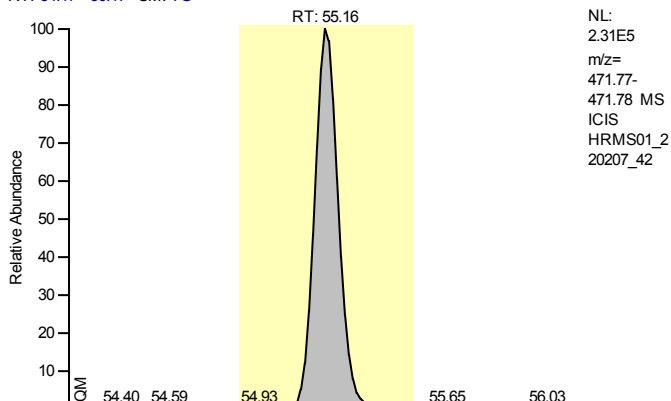
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



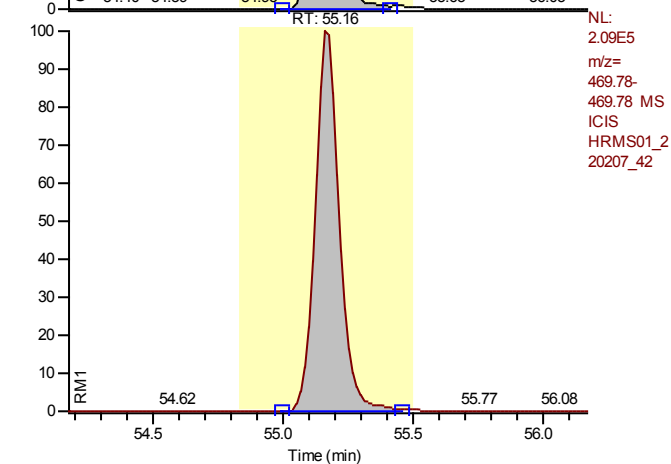
Chromatogram

Entry Parameters

RT: 54.17 - 56.17 SM: 7G

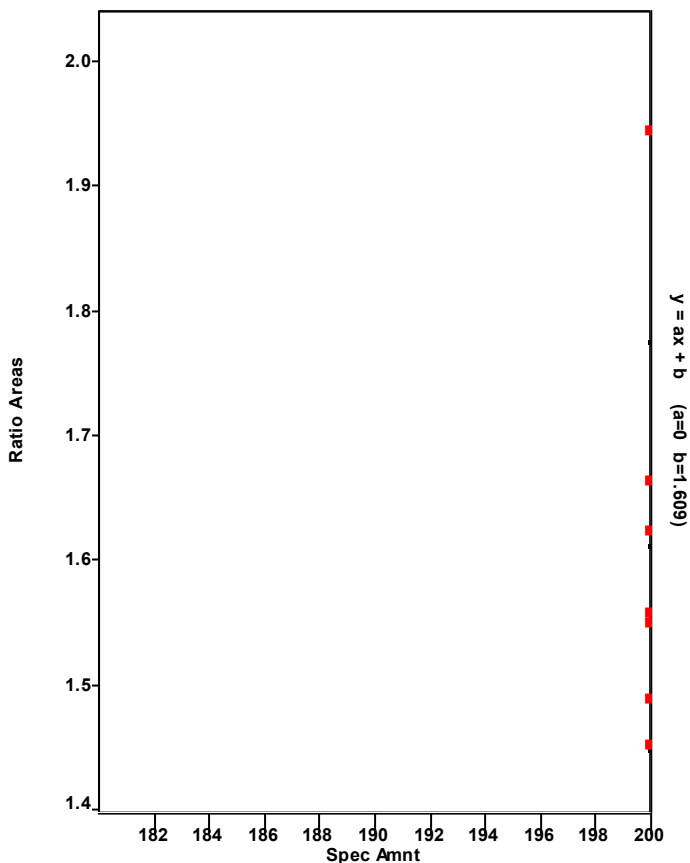


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1482021
RM1 Area	1342222
RM1 Ratio (A)	0.9057
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	182.65
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

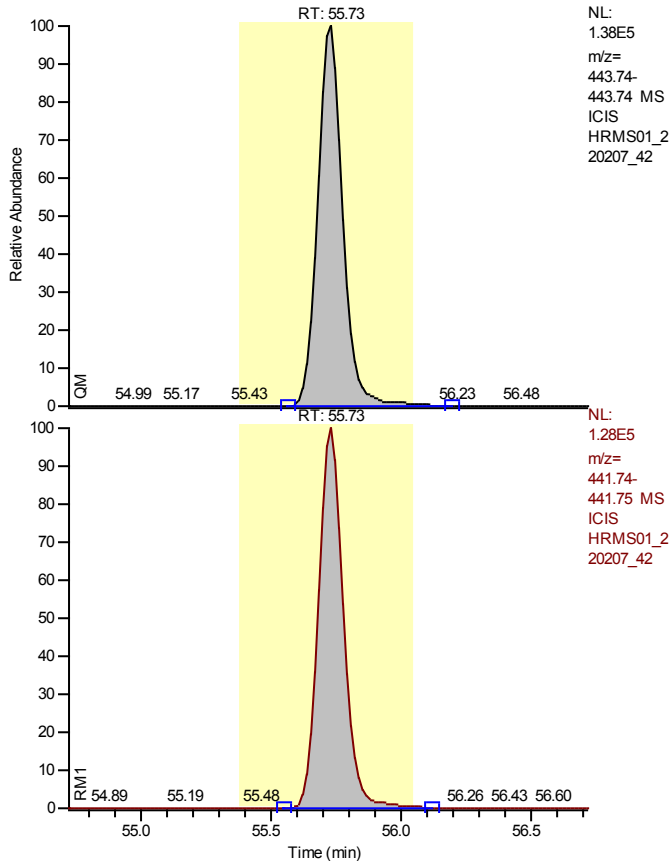
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

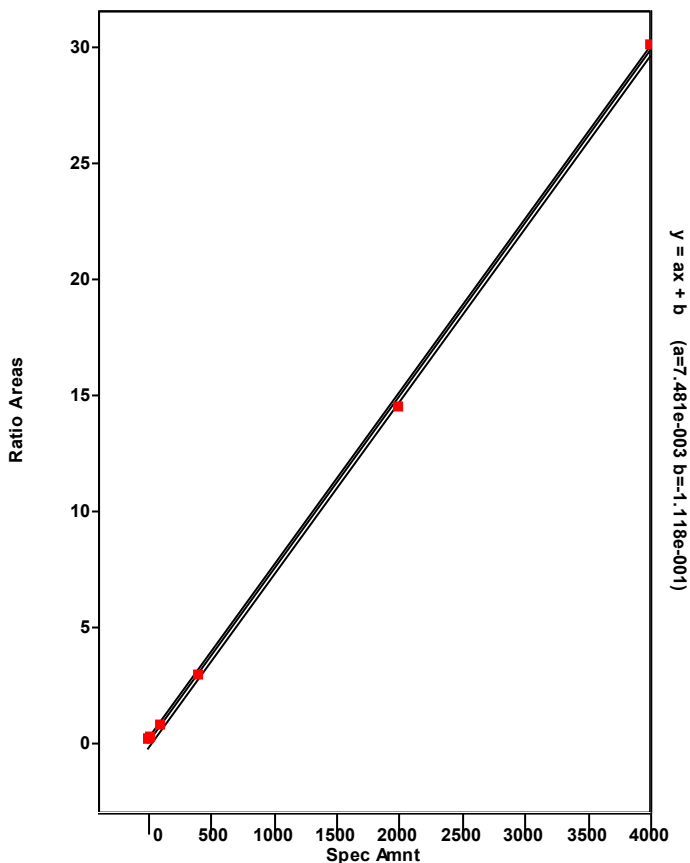
RT: 54.72 - 56.72 SM: 7G



Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	926237
RM1 Area	860025
RM1 Ratio (A)	0.9285
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	90.66
Percent Recovery (A)	91
TEQ (A)	0.0272
Label2	

Calibration Points of Octachlorodibenzofuran

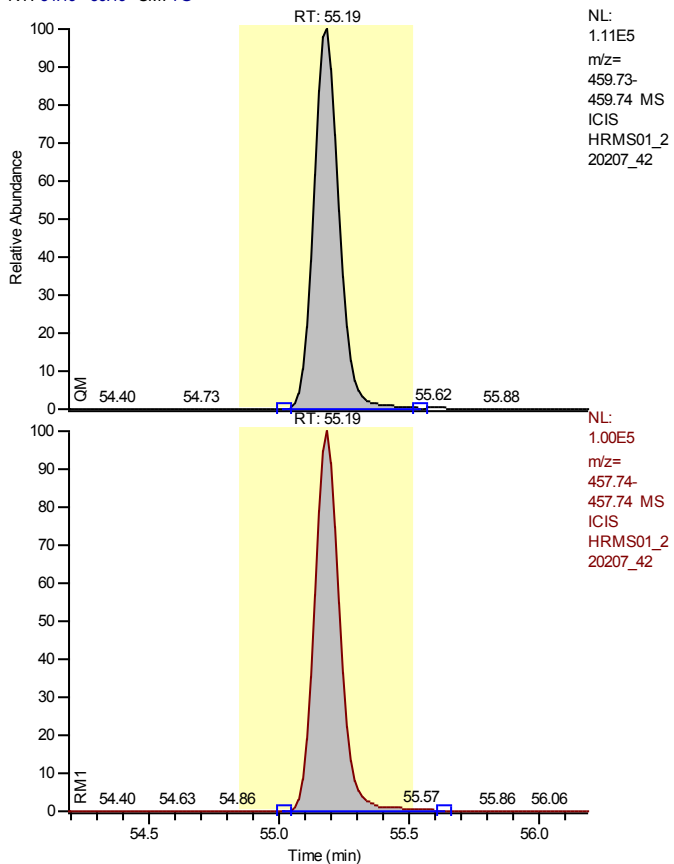
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

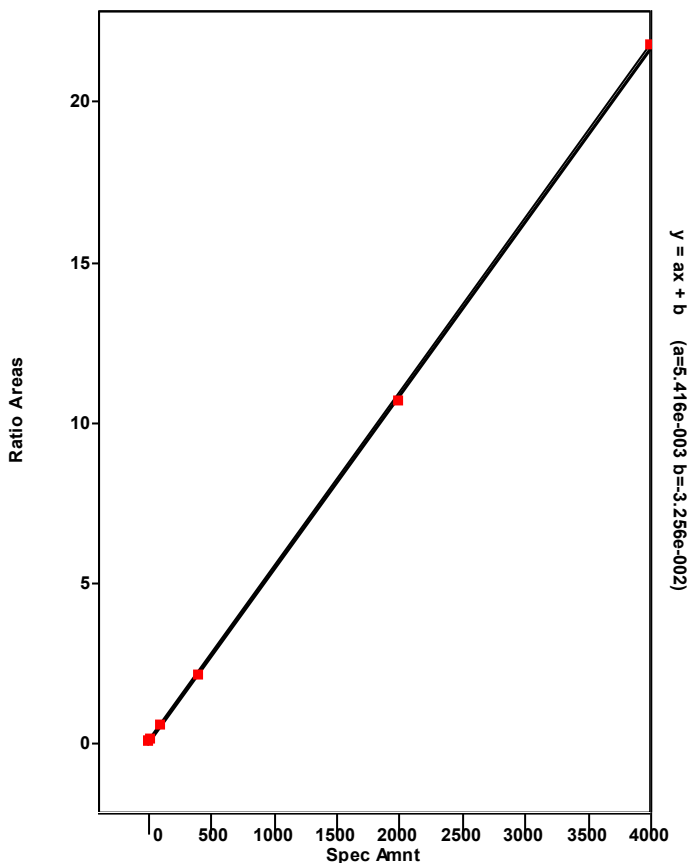
RT: 54.19 - 56.19 SM: 7G



Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	754520
RM1 Area	672610
RM1 Ratio (A)	0.8914
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	93.42
Percent Recovery (A)	93
TEQ (A)	0.0280
Label2	

Calibration Points of Octachlorodibenzo-p-dioxin

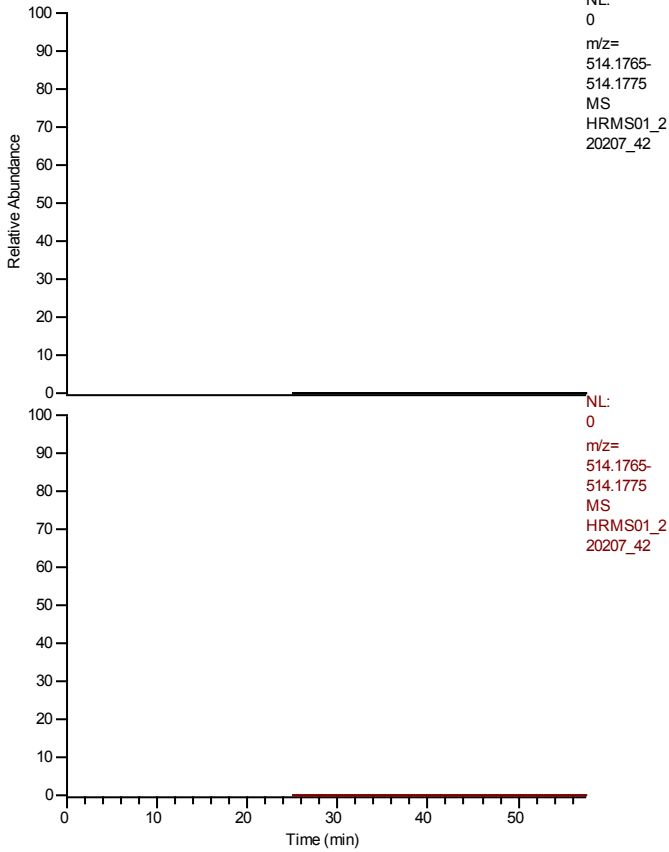
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

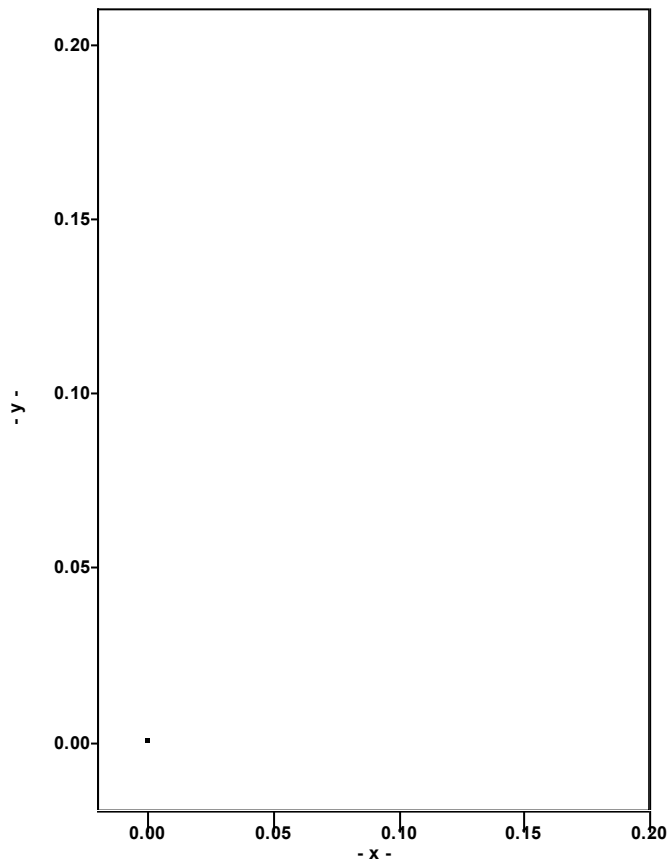
Entry Parameters

RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	8659187
RM1 Area	10179274
RM1 Ratio (A)	1.1755
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	857.33
Percent Recovery (A)	---
TEQ (A)	115.2022
Label2	

Calibration Points of overall TEQ



Sample Raw Data

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 16:07
Number of Entries	83
Comment	
Vial	114
Sample Name	L2202953-06
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_34_seq
Data	hrms01_220207_34
Response	220204_1613b_gcb
Quan Method File	epa1613b_samples_gc2
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1167836	958213	0.8205	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1333995	1037578	0.7778	0.6500 - 0.8900	100.00	68.66	69	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	64070	54462	0.8500	0.6500 - 0.8900	0.00	5.38	---	0.5378
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	482013	379066	0.7864	0.6500 - 0.8900	0.00	39.07	---	0.0000
5	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	45707	34746	0.7602	0.6500 - 0.8900	0.00	3.65	---	0.0000
6	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	35557	27740	0.7801	0.6500 - 0.8900	0.00	2.87	---	0.0000
7	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	36221	28203	0.7786	0.6500 - 0.8900	0.00	2.92	---	0.0000
8	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	34544	28154	0.8150	0.6500 - 0.8900	0.00	2.84	---	0.0000
9	Total Tetrachlorodibenzofuran__9	Single native TCDF	CAS# 55722-27-5	64070	54462	0.8500	0.6500 - 0.8900	0.00	5.38	---	0.0000
10	Total Tetrachlorodibenzofuran__10	Single native TCDF	CAS# 55722-27-5	46009	37887	0.8235	0.6500 - 0.8900	0.00	3.81	---	0.0000
11	Total Tetrachlorodibenzofuran__11	Single native TCDF	CAS# 55722-27-5	26697	19701	0.7379	0.6500 - 0.8900	0.00	2.11	---	0.0000
12	Total Tetrachlorodibenzofuran__12	Single native TCDF	CAS# 55722-27-5	46652	37656	0.8072	0.6500 - 0.8900	0.00	3.83	---	0.0000
13	Total Tetrachlorodibenzofuran__13	Single native TCDF	CAS# 55722-27-5	17357	12315	0.7095	0.6500 - 0.8900	0.00	1.35	---	0.0000
14	Total Tetrachlorodibenzofuran__14	Single native TCDF	CAS# 55722-27-5	17855	12879	0.7213	0.6500 - 0.8900	0.00	1.39	---	0.0000
15	Total Tetrachlorodibenzofuran__15	Single native TCDF	CAS# 55722-27-5	68376	52410	0.7665	0.6500 - 0.8900	0.00	5.48	---	0.0000
16	Total Tetrachlorodibenzofuran__16	Single native TCDF	CAS# 55722-27-5	13151	9838	0.7481	0.6500 - 0.8900	0.00	1.04	---	0.0000
17	Total Tetrachlorodibenzofuran__17	Single native TCDF	CAS# 55722-27-5	13510	9970	0.7379	0.6500 - 0.8900	0.00	1.07	---	0.0000
18	Total Tetrachlorodibenzofuran__18	Single native TCDF	CAS# 55722-27-5	16306	13104	0.8036	0.6500 - 0.8900	0.00	1.33	---	0.0000
19	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		923328	695438	0.7532	0.6500 - 0.8900	100.00	65.45	65	0.0000
20	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
21	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	48086	33878	0.7045	0.6500 - 0.8900	0.00	4.78	---	0.0000
22	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	48086	33878	0.7045	0.6500 - 0.8900	0.00	4.78	---	0.0000
23	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		835390	1385155	1.6581	1.3200 - 1.7800	100.00	72.02	72	0.0000
24	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	52006	77086	1.4823	1.3200 - 1.7800	0.00	5.87	---	0.1762
25	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	382387	577951	1.5114	1.3200 - 1.7800	0.00	43.01	---	0.0000
26	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	144213	211719	1.4681	1.3200 - 1.7800	0.00	15.94	---	0.0000
27	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	78935	124678	1.5795	1.3200 - 1.7800	0.00	9.12	---	0.0000
28	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	52006	77086	1.4823	1.3200 - 1.7800	0.00	5.78	---	0.0000
29	Total Pentachlorodibenzofuran__5	Single native PeCDF	CAS# 30402-15-4	47806	75497	1.5792	1.3200 - 1.7800	0.00	5.52	---	0.0000
30	Total Pentachlorodibenzofuran__6	Single native PeCDF	CAS# 30402-15-4	33127	50331	1.5193	1.3200 - 1.7800	0.00	3.74	---	0.0000
31	Total Pentachlorodibenzofuran__7	Single native PeCDF	CAS# 30402-15-4	26301	38640	1.4692	1.3200 - 1.7800	0.00	2.91	---	0.0000
32	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		852143	1327243	1.5575	1.3200 - 1.7800	100.00	75.12	75	0.0000
33	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	47806	75497	1.5792	1.3200 - 1.7800	0.00	5.22	---	1.5649
34	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		619321	891574	1.4396	1.3200 - 1.7800	100.00	78.00	78	0.0000
35	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
36	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	21517	36521	1.6974	1.3200 - 1.7800	0.00	3.83	---	0.0000
37	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	9455	16161	1.7092	1.3200 - 1.7800	0.00	1.69	---	0.0000
38	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	12061	20360	1.6881	1.3200 - 1.7800	0.00	2.14	---	0.0000

HRMS01_220207_34_seq aquired 2022/02/08 16:07

SampleName: L2202953-06 Id: HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613 Comment:
Study: Client:

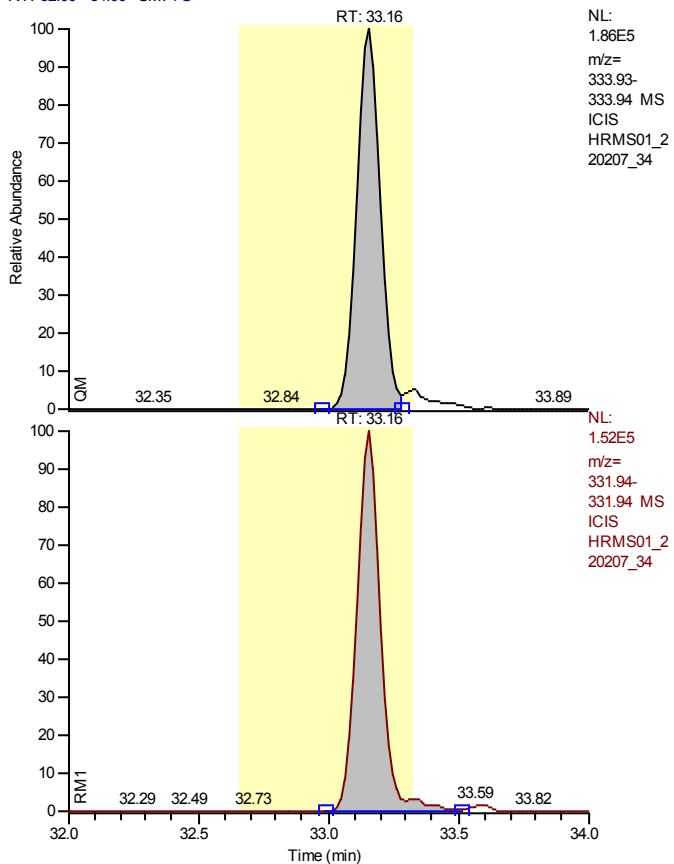
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		233158	233158	1.0000	0.8500 - 1.1500	10.00	8.76	88	0.0000
40	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		983261	1275638	1.2974	1.0500 - 1.4300	100.00	100.00	100	0.0000
41	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1280139	733363	0.5729	0.4300 - 0.5900	100.00	79.34	79	0.0000
42	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	110203	141889	1.2875	1.0500 - 1.4300	0.00	10.86	---	1.0863
43	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	611387	770426	1.2601	1.0500 - 1.4300	0.00	57.40	---	0.0000
44	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	188450	243601	1.2927	1.0500 - 1.4300	0.00	17.95	---	0.0000
45	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	48027	59705	1.2432	1.0500 - 1.4300	0.00	4.47	---	0.0000
46	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	146250	174100	1.1904	1.0500 - 1.4300	0.00	13.31	---	0.0000
47	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	110203	141889	1.2875	1.0500 - 1.4300	0.00	10.47	---	0.0000
48	Total Hexachlorodibenzofuran__5	Single native HxCDF	CAS# 55684-94-1	66871	81254	1.2151	1.0500 - 1.4300	0.00	6.15	---	0.0000
49	Total Hexachlorodibenzofuran__6	Single native HxCDF	CAS# 55684-94-1	33384	44105	1.3211	1.0500 - 1.4300	0.00	3.22	---	0.0000
50	Total Hexachlorodibenzofuran__7	Single native HxCDF	CAS# 55684-94-1	18203	25773	1.4159	1.0500 - 1.4300	0.00	1.83	---	0.0000
51	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1343861	726215	0.5404	0.4300 - 0.5900	100.00	75.83	76	0.0000
52	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	66871	81254	1.2151	1.0500 - 1.4300	0.00	6.25	---	0.6255
53	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1338531	739394	0.5524	0.4300 - 0.5900	100.00	78.10	78	0.0000
54	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	33384	44105	1.3211	1.0500 - 1.4300	0.00	3.13	---	0.3125
55	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1263232	657760	0.5207	0.4300 - 0.5900	100.00	74.22	74	0.0000
56	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	18541	25457	1.3730	1.0500 - 1.4300	0.00	2.05	---	0.0000
57	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		613893	844134	1.3751	1.0500 - 1.4300	100.00	72.33	72	0.0000
58	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
59	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	245857	306034	1.2448	1.0500 - 1.4300	0.00	34.77	---	0.0000
60	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	92278	116410	1.2615	1.0500 - 1.4300	0.00	13.15	---	0.0000
61	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	111223	134240	1.2069	1.0500 - 1.4300	0.00	15.46	---	0.0000
62	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	30160	39793	1.3194	1.0500 - 1.4300	0.00	4.41	---	0.0000
63	Total Hexachlorodibenzo-p-dioxin__4	Single native HxCDD	CAS# 34465-46-8	12196	15591	1.2784	1.0500 - 1.4300	0.00	1.75	---	0.0000
64	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		679790	897355	1.3200	1.0500 - 1.4300	100.00	74.81	75	0.0000
65	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	30160	39793	1.3194	1.0500 - 1.4300	0.00	4.18	---	0.4175
66	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	15207	17996	1.1834	1.0500 - 1.4300	0.00	1.98	---	0.0000
67	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1217874	537762	0.4416	0.3700 - 0.5100	100.00	71.27	71	0.0000
68	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	505430	532682	1.0539	0.8800 - 1.2000	0.00	45.97	---	0.4597
69	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	1264312	1334154	1.0552	0.8800 - 1.2000	0.00	118.28	---	0.0000
70	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	713292	753879	1.0569	0.8800 - 1.2000	0.00	66.78	---	0.0000
71	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	505430	532682	1.0539	0.8800 - 1.2000	0.00	47.25	---	0.0000
72	Total Heptachlorodibenzofuran__3	Single native HpCDF	CAS# 38998-75-3	45589	47593	1.0440	0.8800 - 1.2000	0.00	4.24	---	0.0000
73	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		1080741	499348	0.4620	0.3700 - 0.5100	100.00	67.90	68	0.0000
74	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	45589	47593	1.0440	0.8800 - 1.2000	0.00	4.57	---	0.0457
75	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		720795	764962	1.0613	0.8800 - 1.2000	100.00	72.94	73	0.0000
76	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	881983	883606	1.0018	0.8800 - 1.2000	0.00	110.11	---	1.1011

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
77	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	2106115	2182658	1.0363	0.8800 - 1.2000	0.00	267.46	---	0.0000
78	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	1224132	1299052	1.0612	0.8800 - 1.2000	0.00	157.35	---	0.0000
79	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	881983	883606	1.0018	0.8800 - 1.2000	0.00	110.11	---	0.0000
80	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		1175104	1037011	0.8825	0.7600 - 1.0200	200.00	121.70	61	0.0000
81	Octachlorodibenzofuran	OCDF	CAS# 3268-87-9	847035	746450	0.8813	0.7600 - 1.0200	0.00	103.26	---	0.0310
82	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	9175121	8212206	0.8951	0.7600 - 1.0200	0.00	1453.12	---	0.4359
83	overall TEQ	overall TEQ test		11893407	10980076	0.9232	0.0000 - 0.0000	0.00	1761.94	---	6.7940

Chromatogram

Entry Parameters

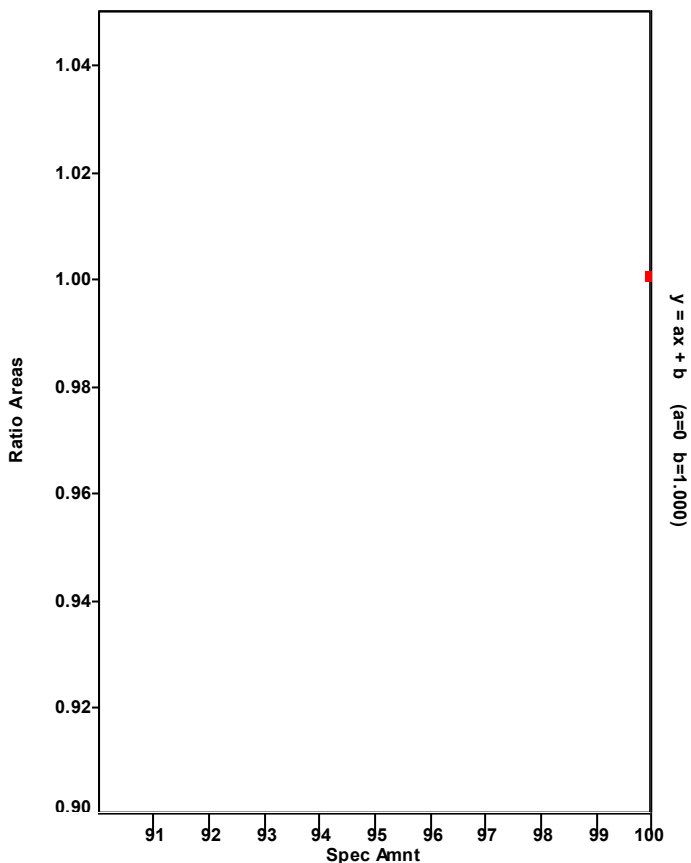
RT: 32.00 - 34.00 SM: 7G



Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1167836
RM1 Area	958213
RM1 Ratio (A)	0.8205
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

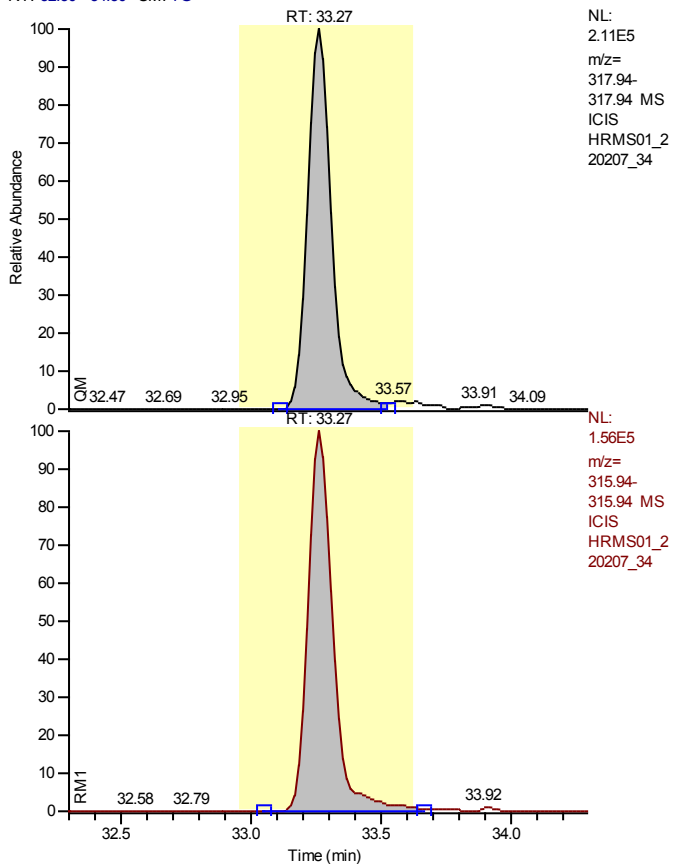
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

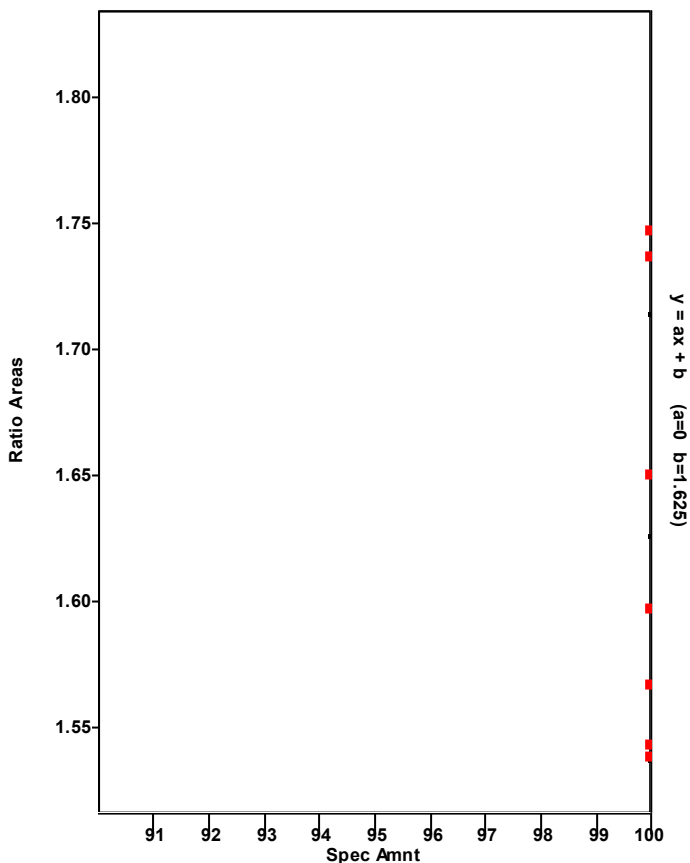
RT: 32.30 - 34.30 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1333995
RM1 Area	1037578
RM1 Ratio (A)	0.7778
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	68.66
Percent Recovery (A)	69
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

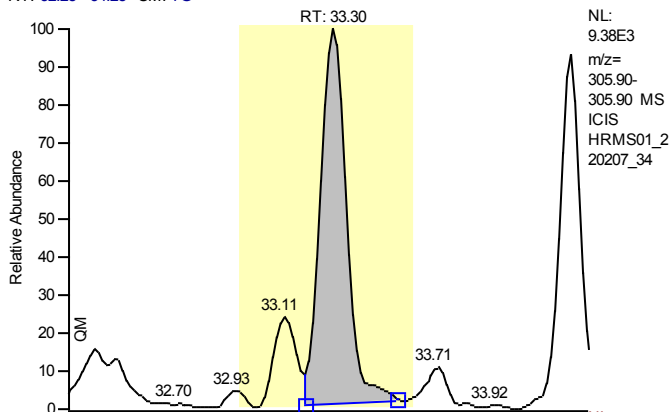
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



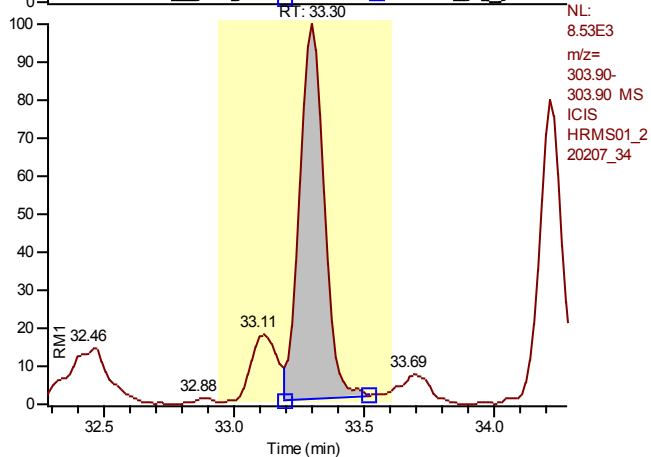
Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

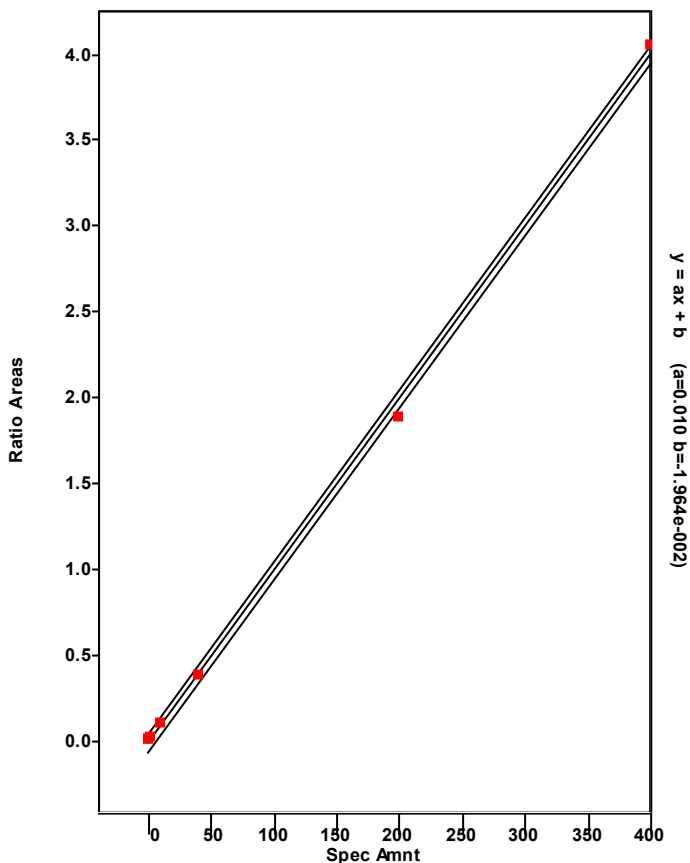


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	64070
RM1 Area	54462
RM1 Ratio (A)	0.8500
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.38
Percent Recovery (A)	---
TEQ (A)	0.5378
Label2	



Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

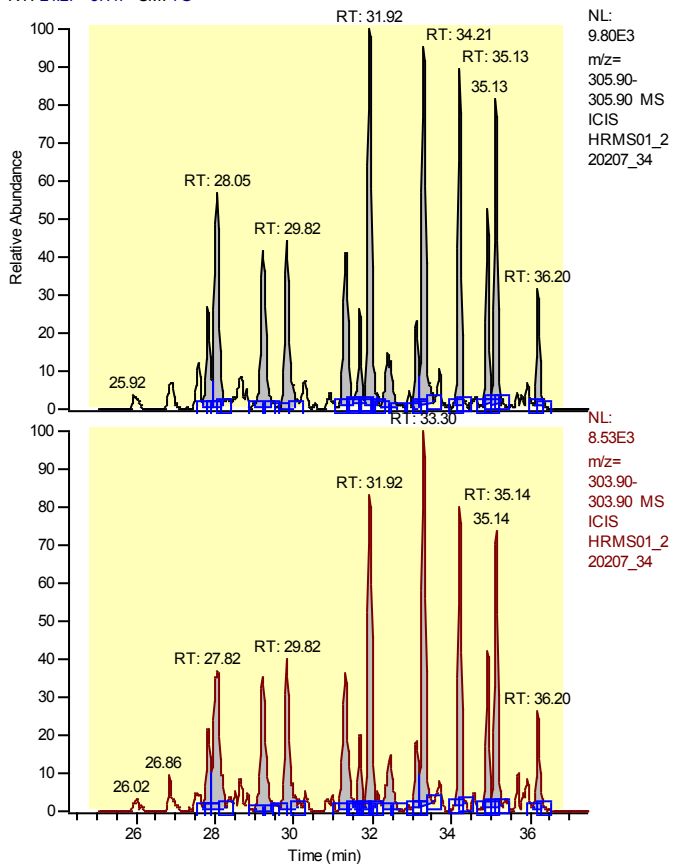
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.27 - 37.47 SM: 7G



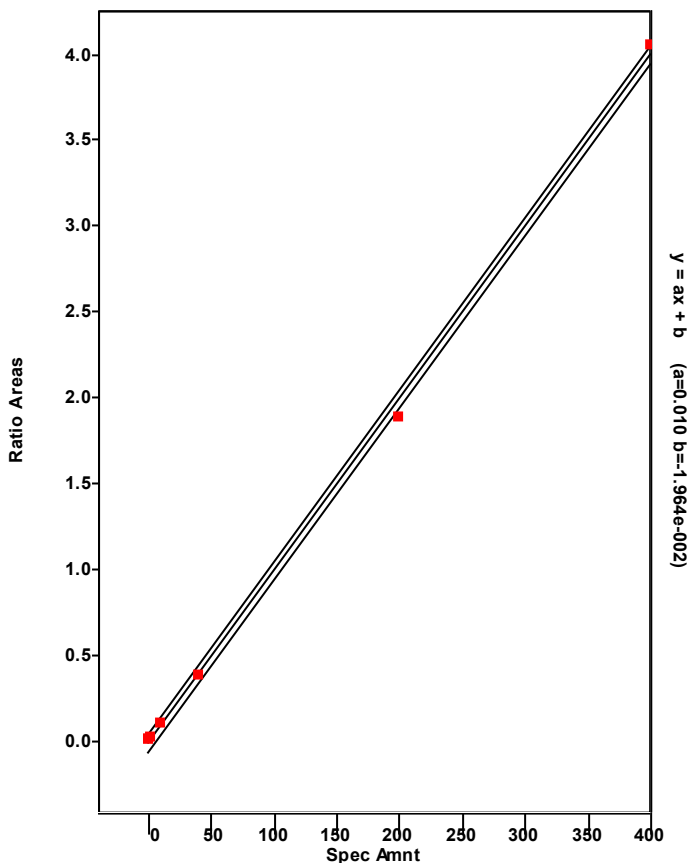
NL: 9.80E3
m/z= 305.90-305.90 MS
ICIS HRMS01_220207_34

NL: 8.53E3
m/z= 303.90-303.90 MS
ICIS HRMS01_220207_34

Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	482013
RM1 Area	379066
RM1 Ratio (A)	0.7864
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	39.07
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran

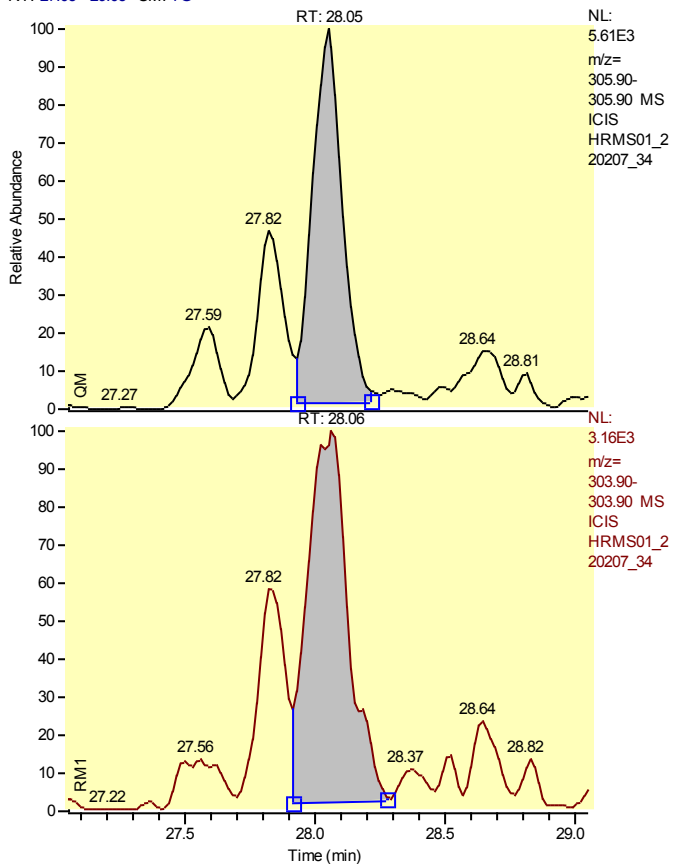
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

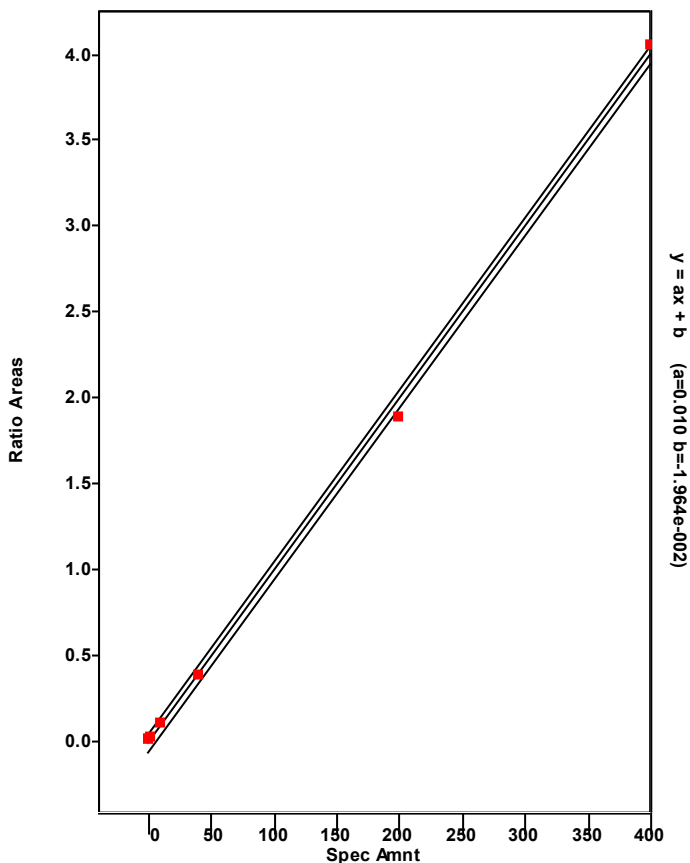
RT: 27.05 - 29.05 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	45707
RM1 Area	34746
RM1 Ratio (A)	0.7602
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.65
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__3

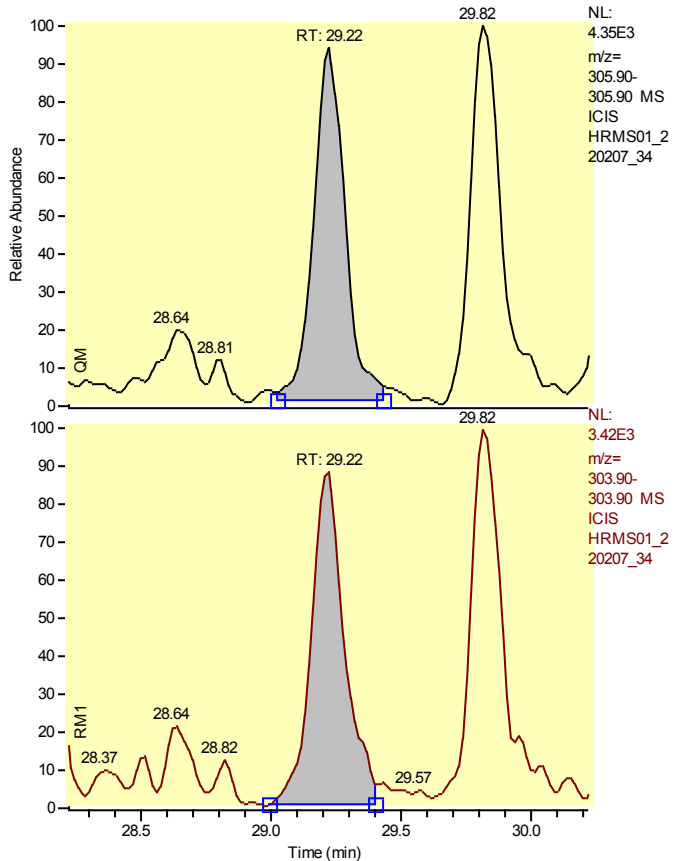
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

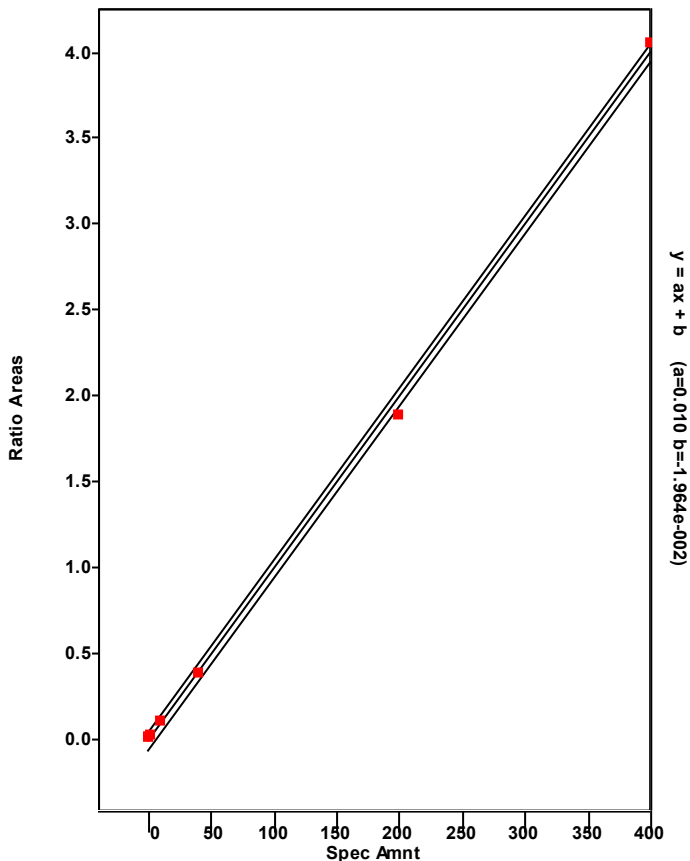
RT: 28.22 - 30.22 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	35557
RM1 Area	27740
RM1 Ratio (A)	0.7801
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.87
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__4

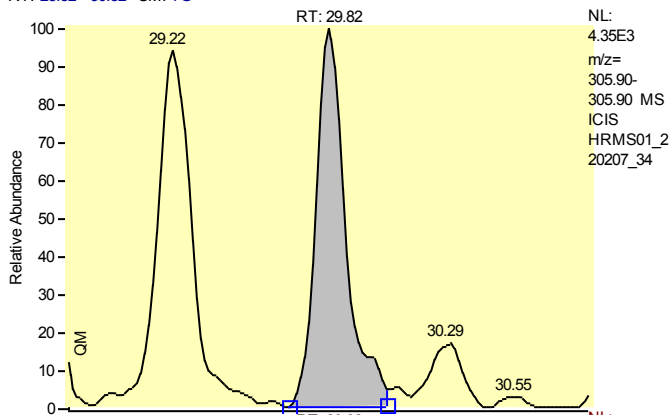
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



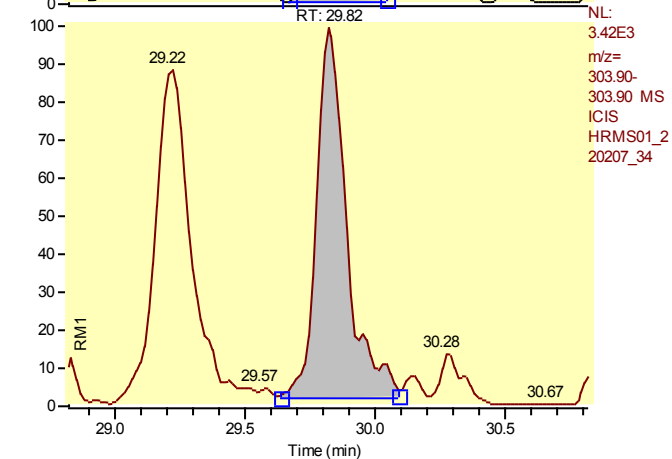
Chromatogram

Entry Parameters

RT: 28.82 - 30.82 SM: 7G

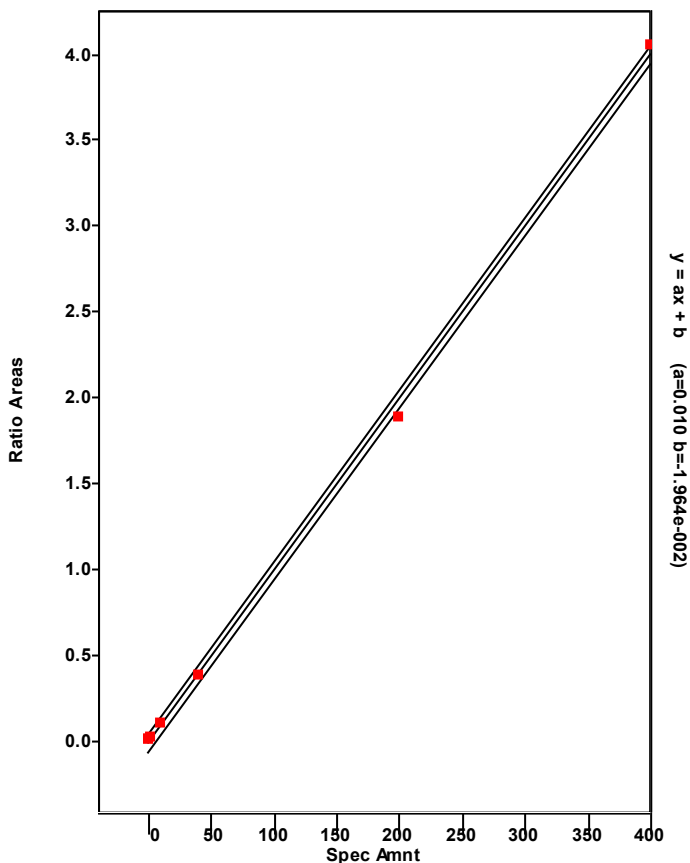


Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	36221
RM1 Area	28203
RM1 Ratio (A)	0.7786
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.92
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__5

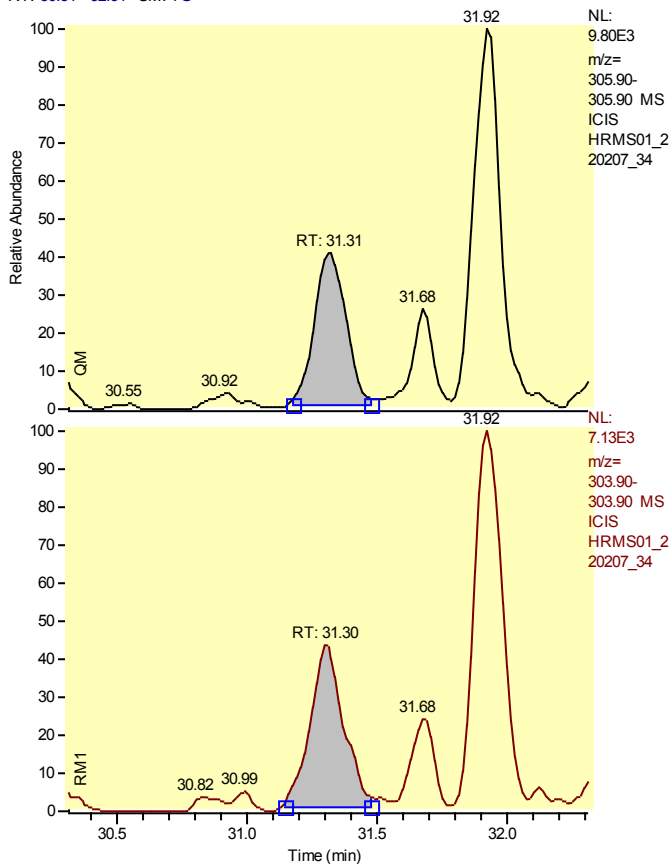
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

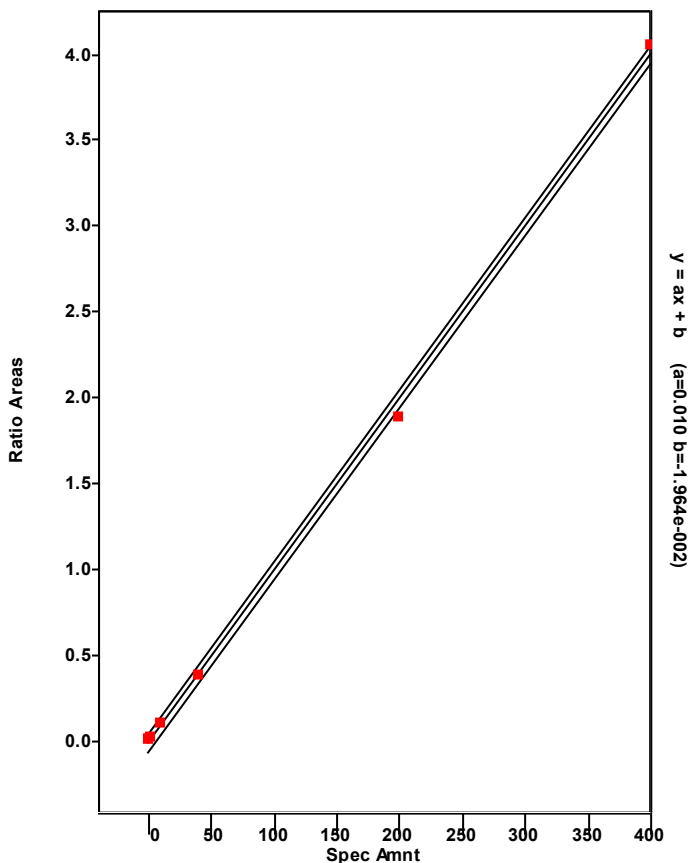
RT: 30.31 - 32.31 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	34544
RM1 Area	28154
RM1 Ratio (A)	0.8150
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__6

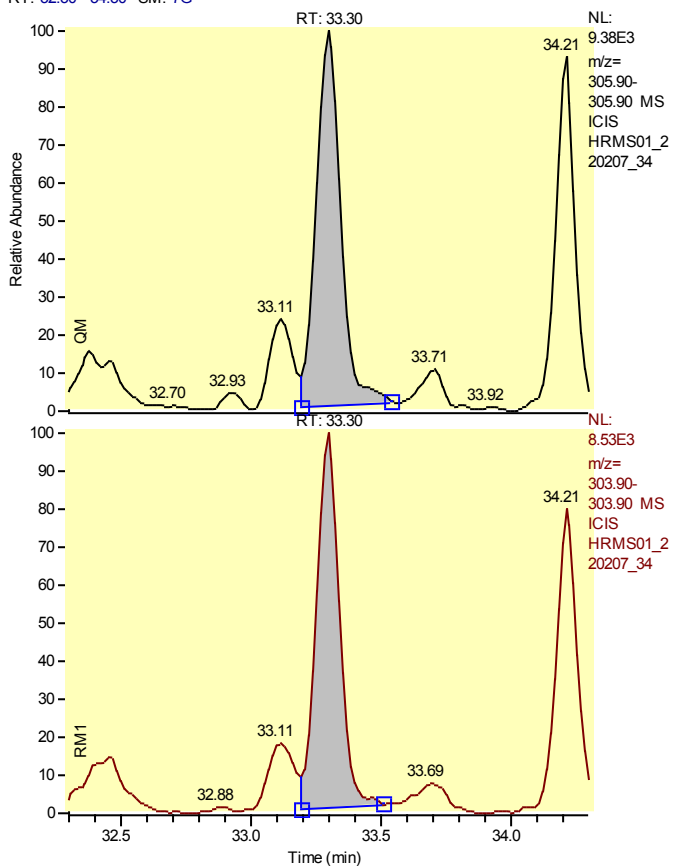
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

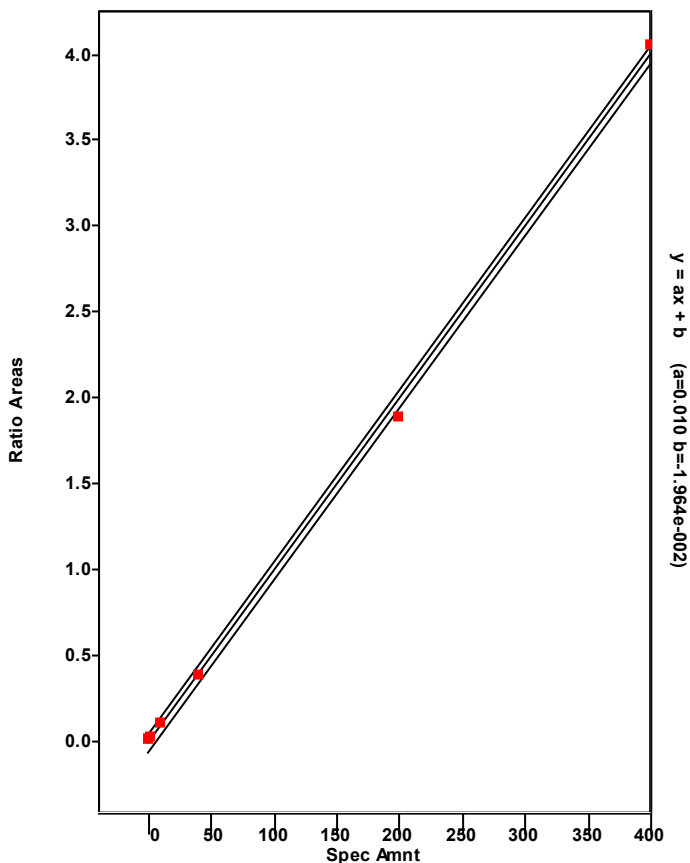
RT: 32.30 - 34.30 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__9
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	64070
RM1 Area	54462
RM1 Ratio (A)	0.8500
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.38
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__9

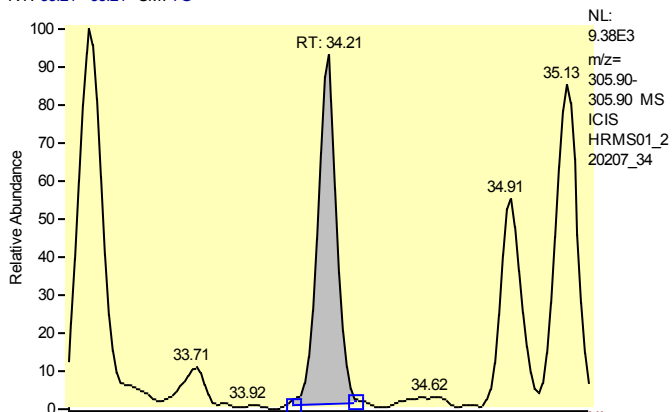
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



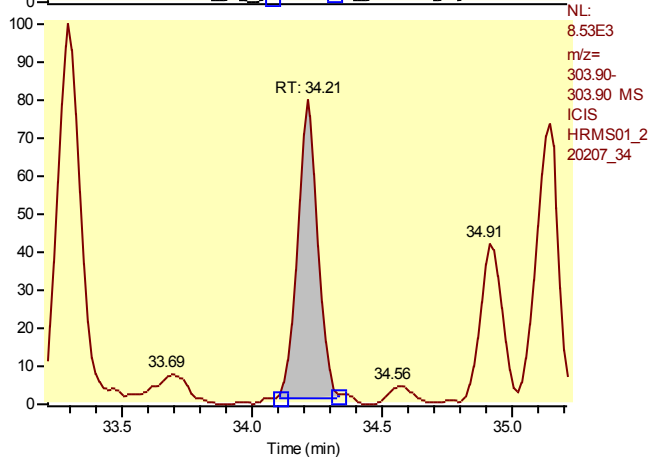
Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G

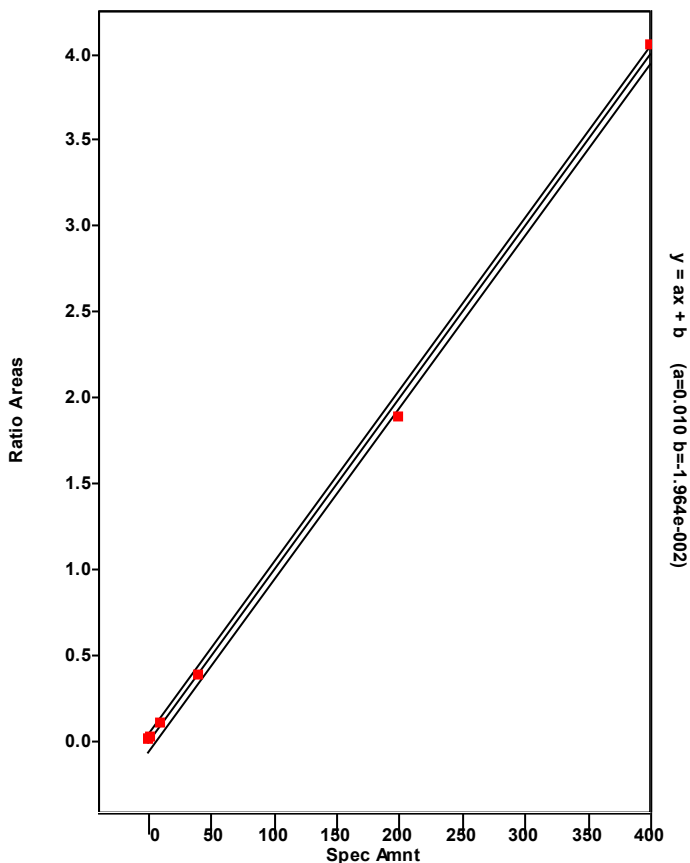


Entry Identifier	Total Tetrachlorodibenzofuran__10
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	46009
RM1 Area	37887
RM1 Ratio (A)	0.8235
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.81
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



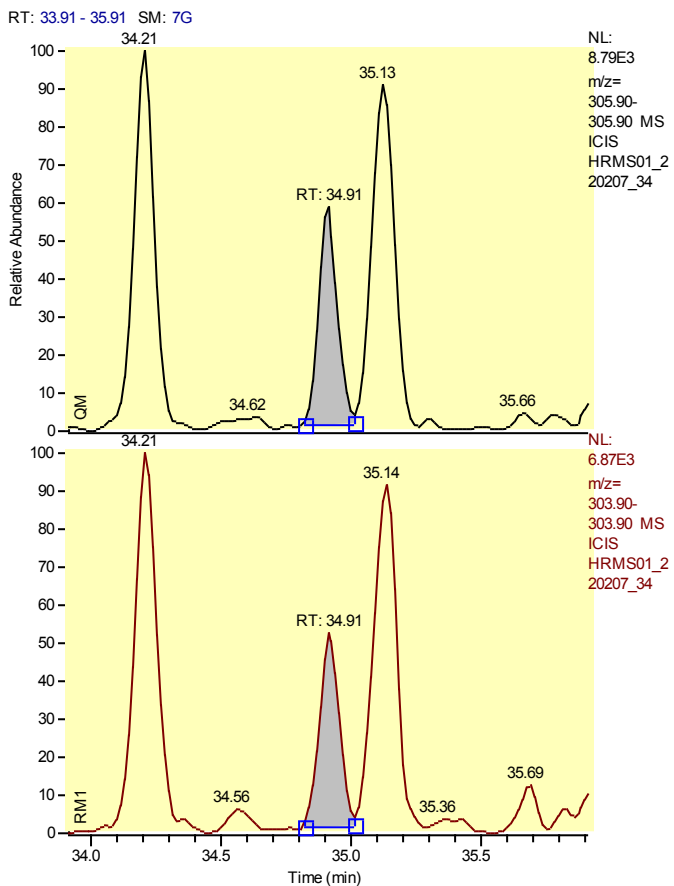
Calibration Points of Total Tetrachlorodibenzofuran__10

Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

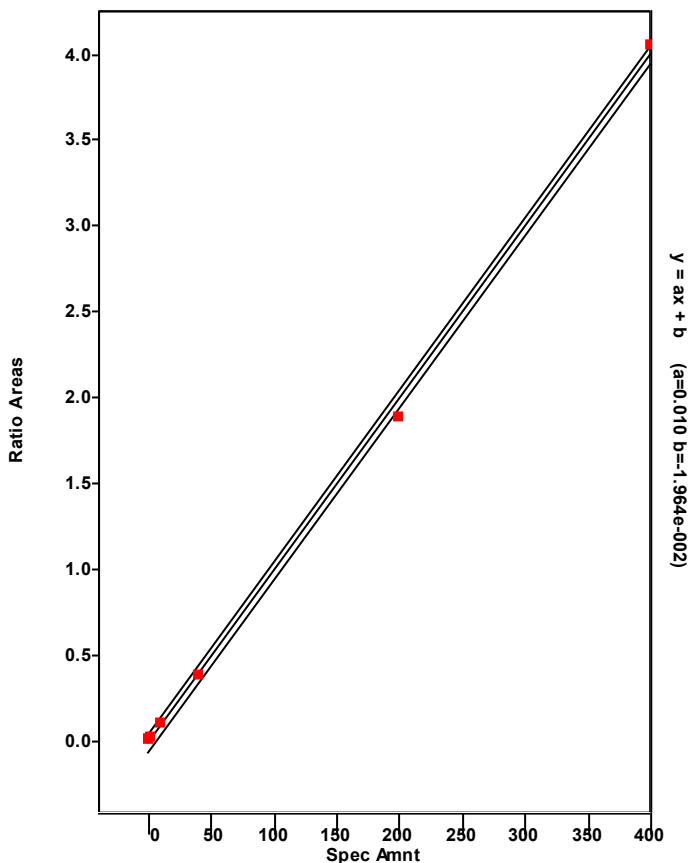
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzofuran__11
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	26697
RM1 Area	19701
RM1 Ratio (A)	0.7379
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__11

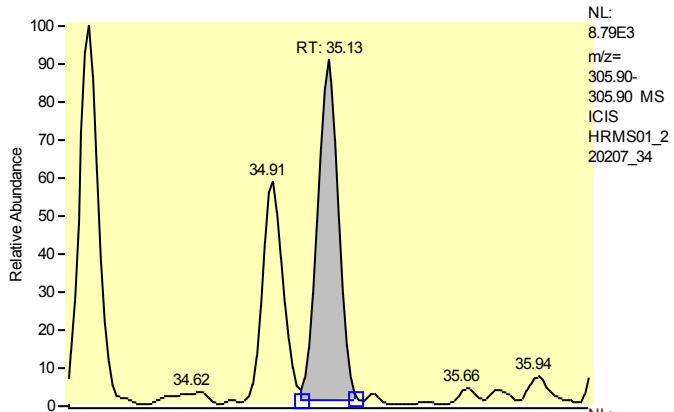
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



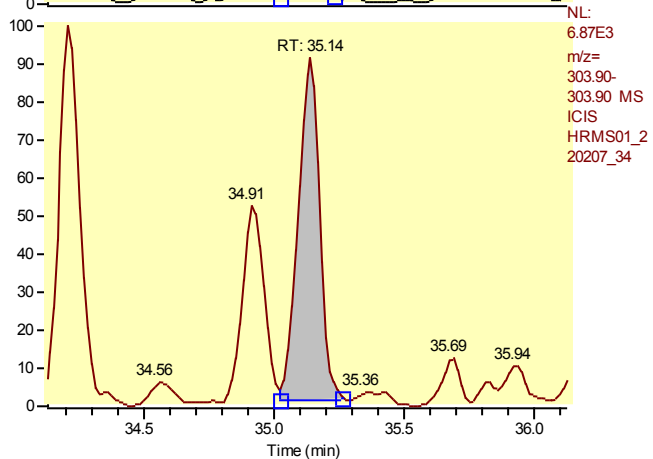
Chromatogram

Entry Parameters

RT: 34.13 - 36.13 SM: 7G

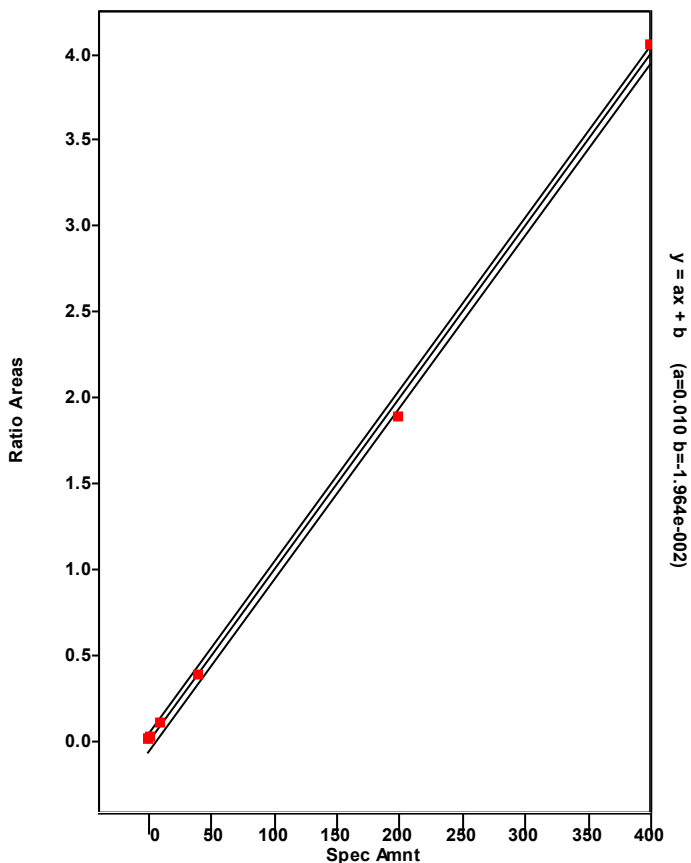


Entry Identifier	Total Tetrachlorodibenzofuran__12
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	46652
RM1 Area	37656
RM1 Ratio (A)	0.8072
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.83
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__12

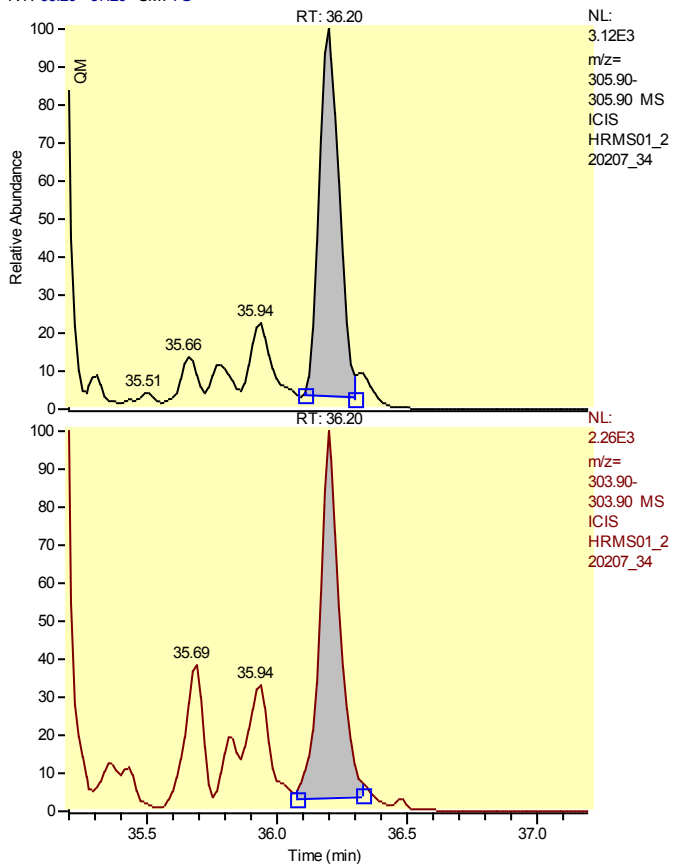
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

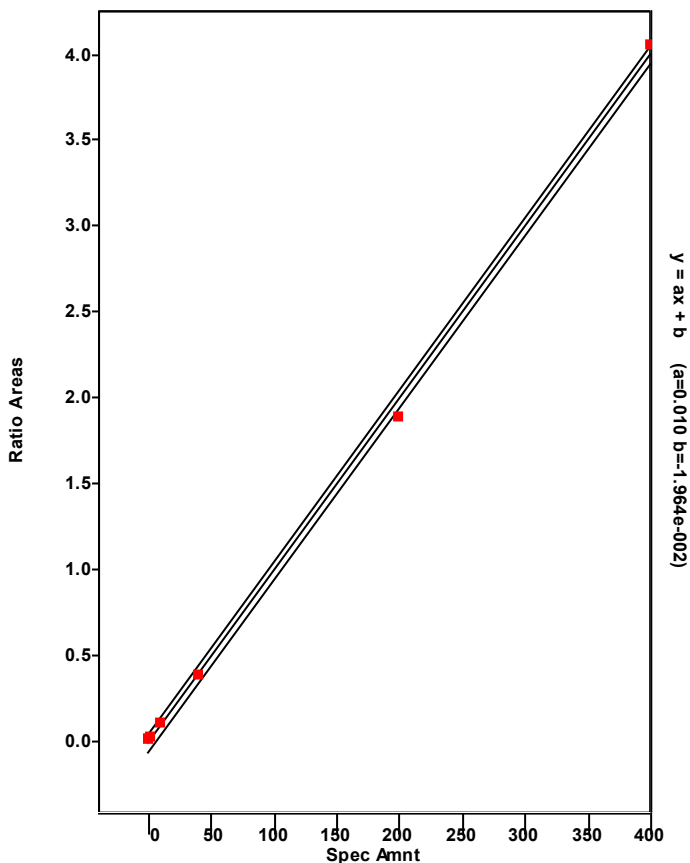
RT: 35.20 - 37.20 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__13
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	17357
RM1 Area	12315
RM1 Ratio (A)	0.7095
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.35
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__13

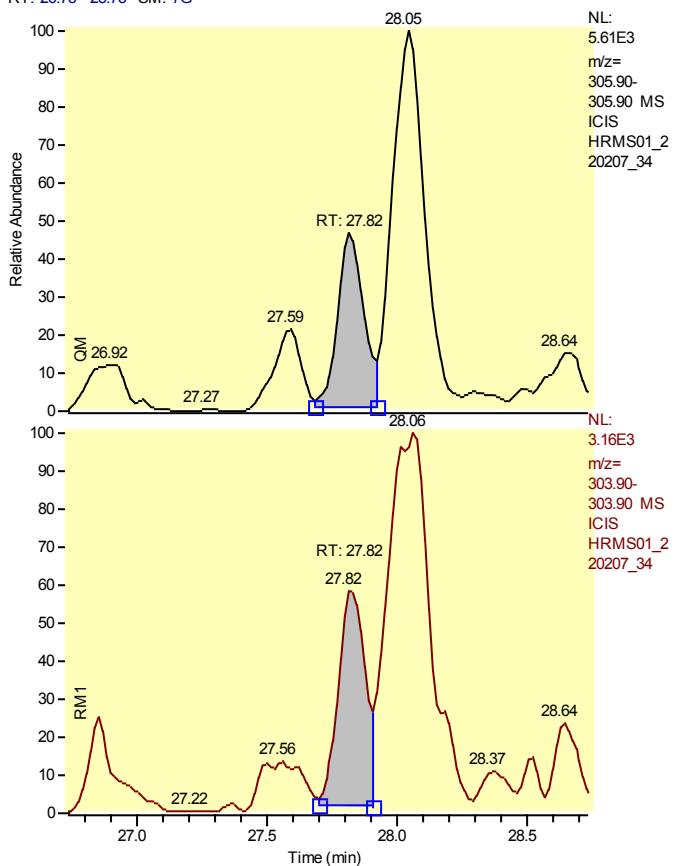
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

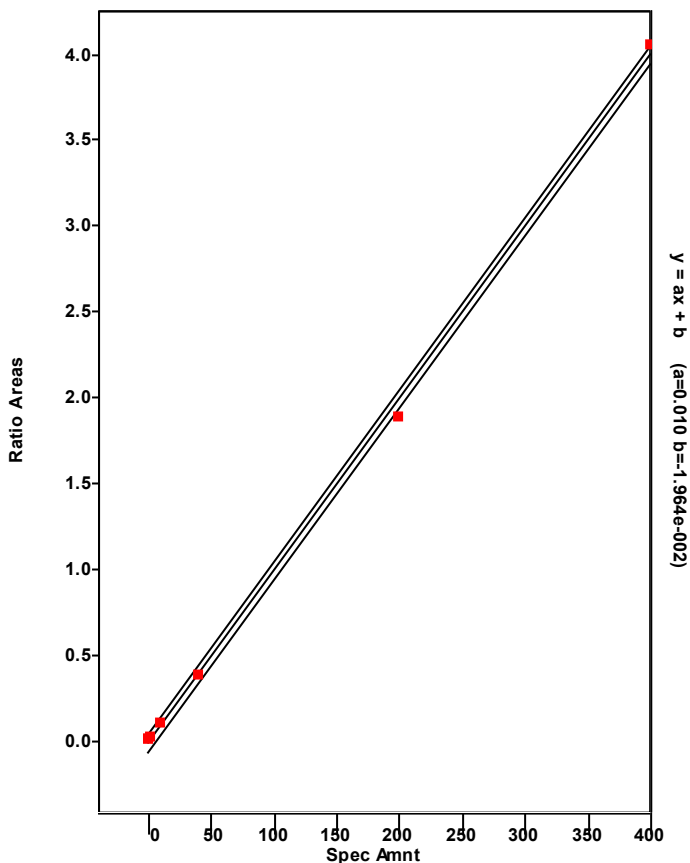
RT: 26.73 - 28.73 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__14
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	17855
RM1 Area	12879
RM1 Ratio (A)	0.7213
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__14

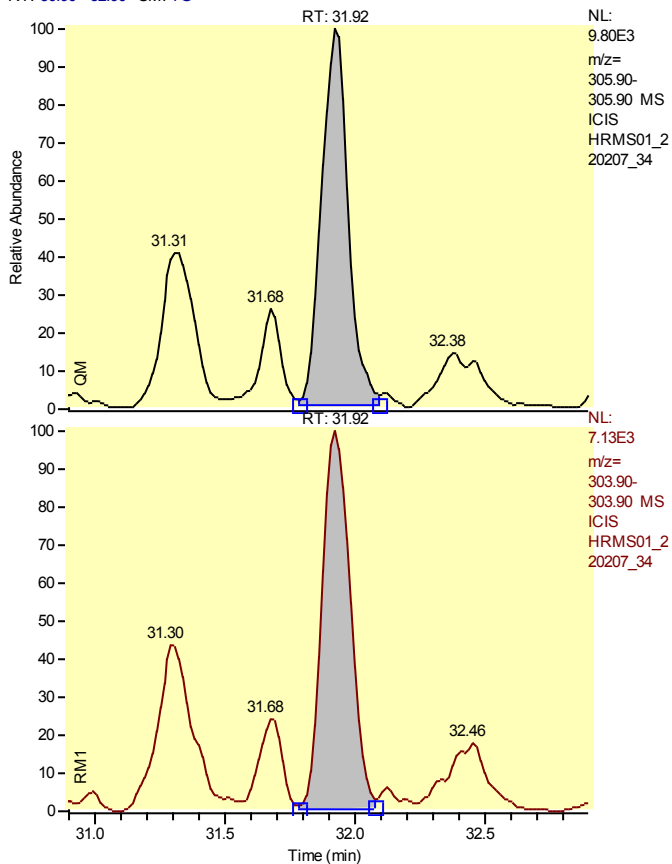
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

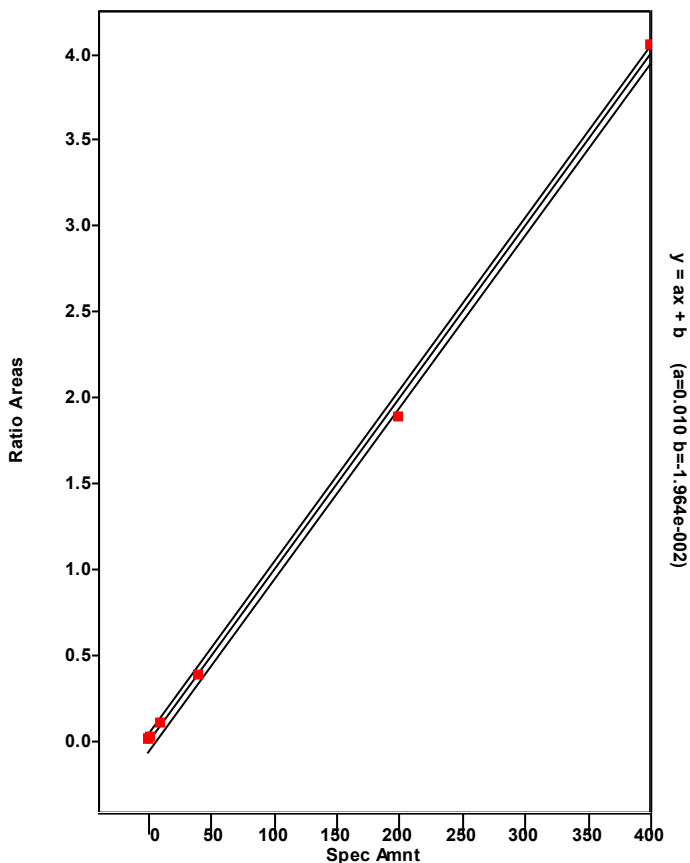
RT: 30.90 - 32.90 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__15
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	68376
RM1 Area	52410
RM1 Ratio (A)	0.7665
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.48
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__15

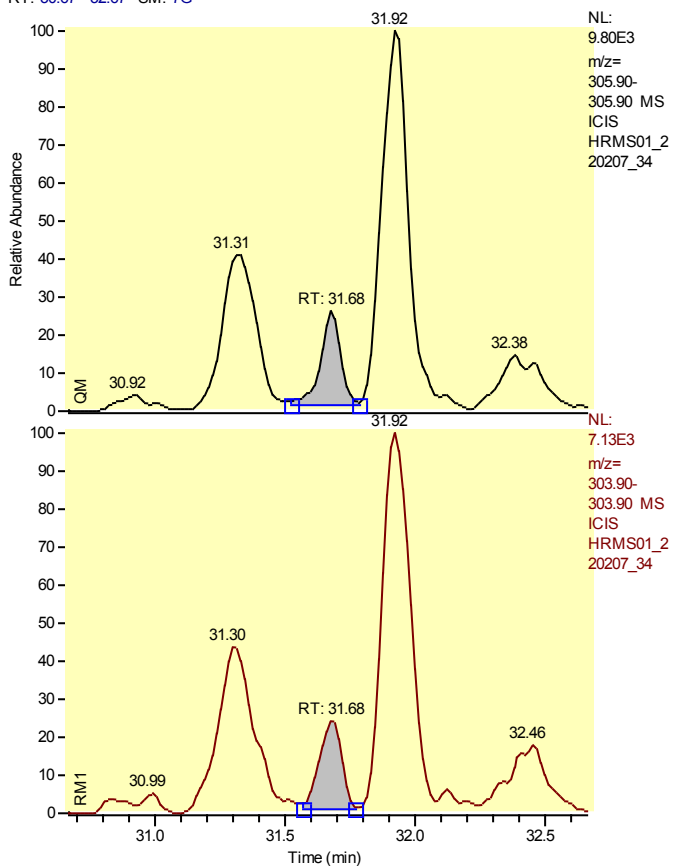
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

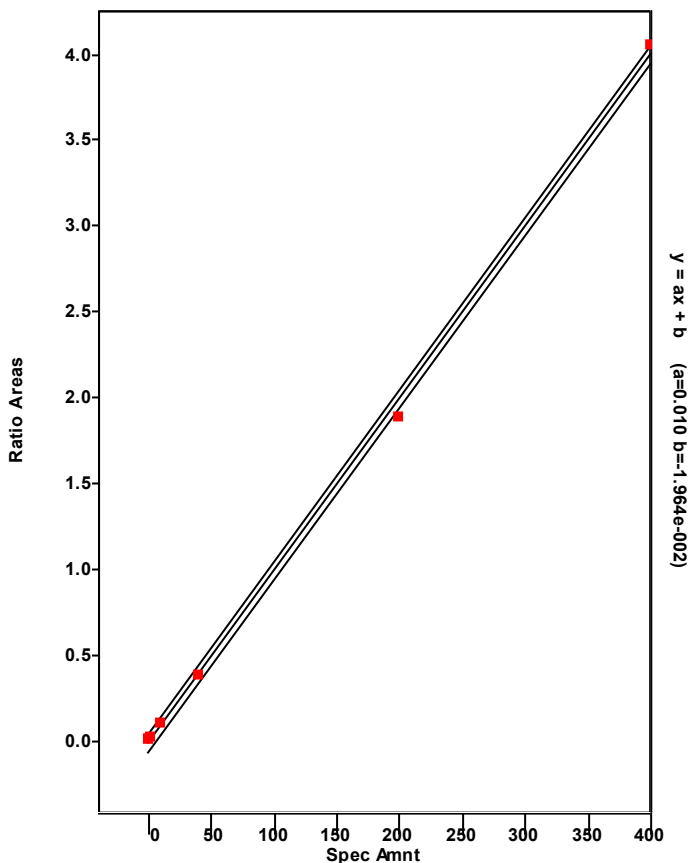
RT: 30.67 - 32.67 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__16
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	13151
RM1 Area	9838
RM1 Ratio (A)	0.7481
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.04
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__16

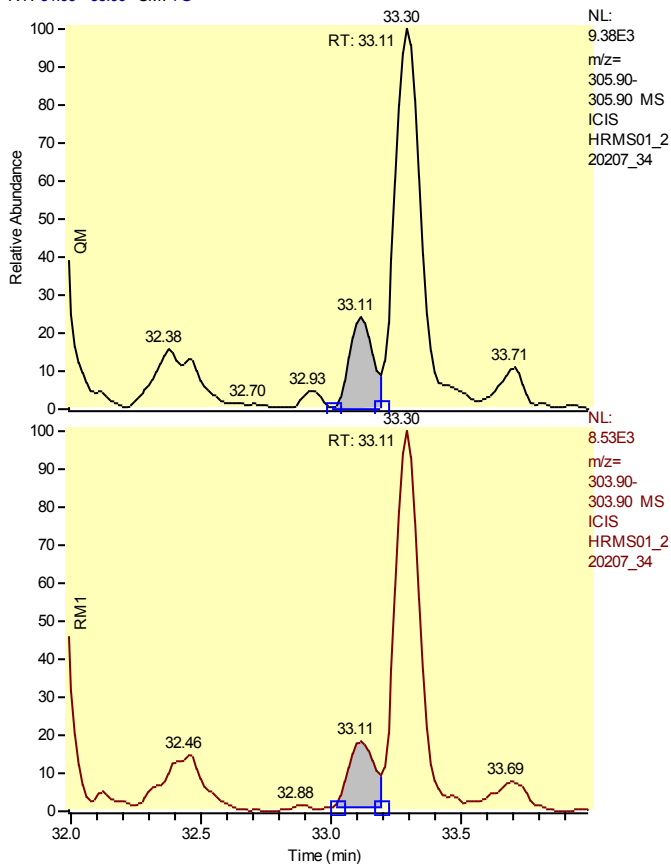
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

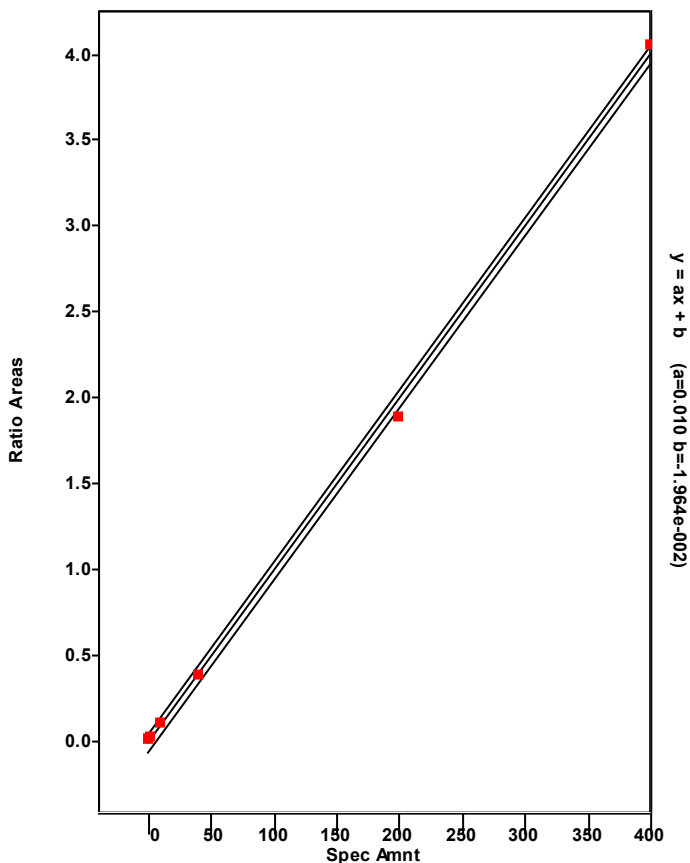
RT: 31.99 - 33.99 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__17
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	13510
RM1 Area	9970
RM1 Ratio (A)	0.7379
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.07
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__17

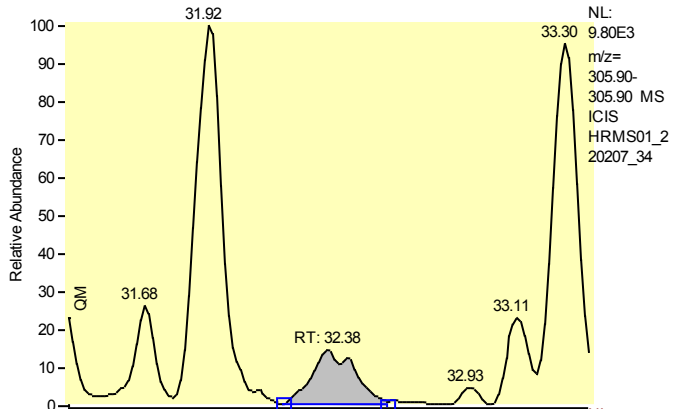
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



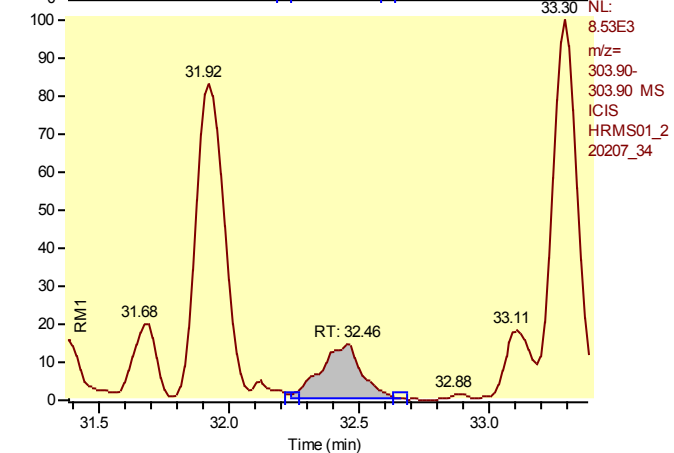
Chromatogram

Entry Parameters

RT: 31.38 - 33.38 SM: 7G

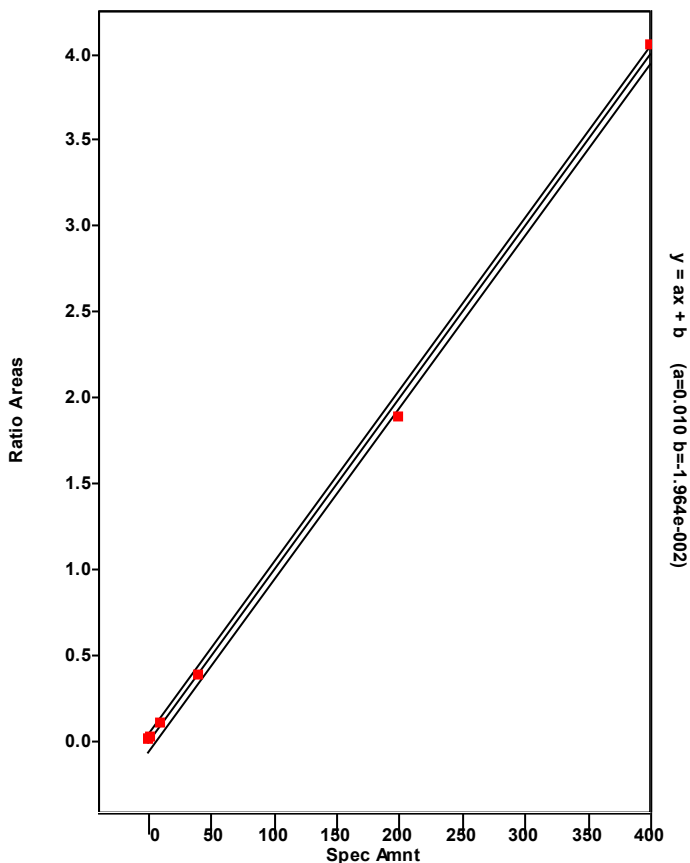


Entry Identifier	Total Tetrachlorodibenzofuran__18
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	16306
RM1 Area	13104
RM1 Ratio (A)	0.8036
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.33
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__18

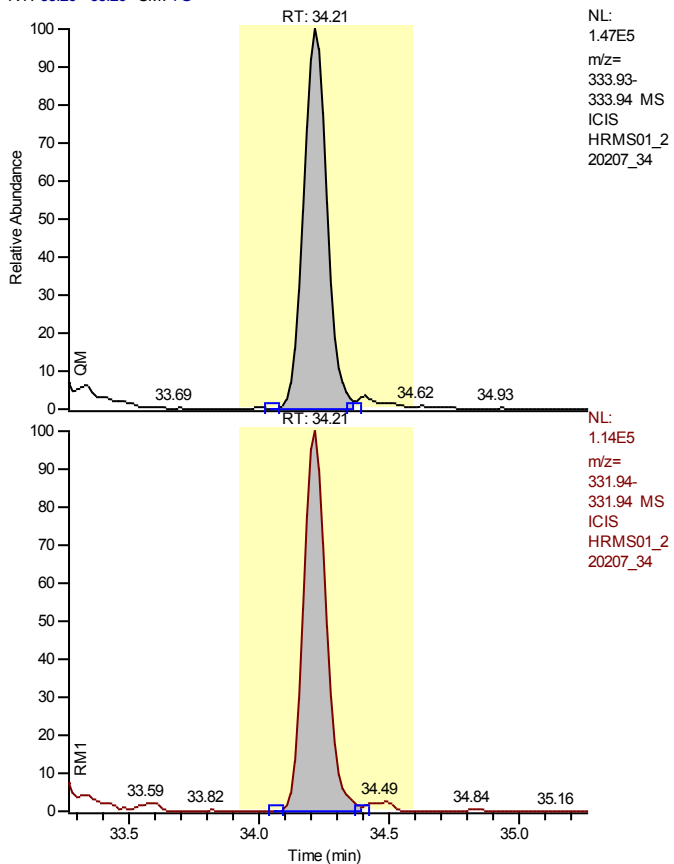
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

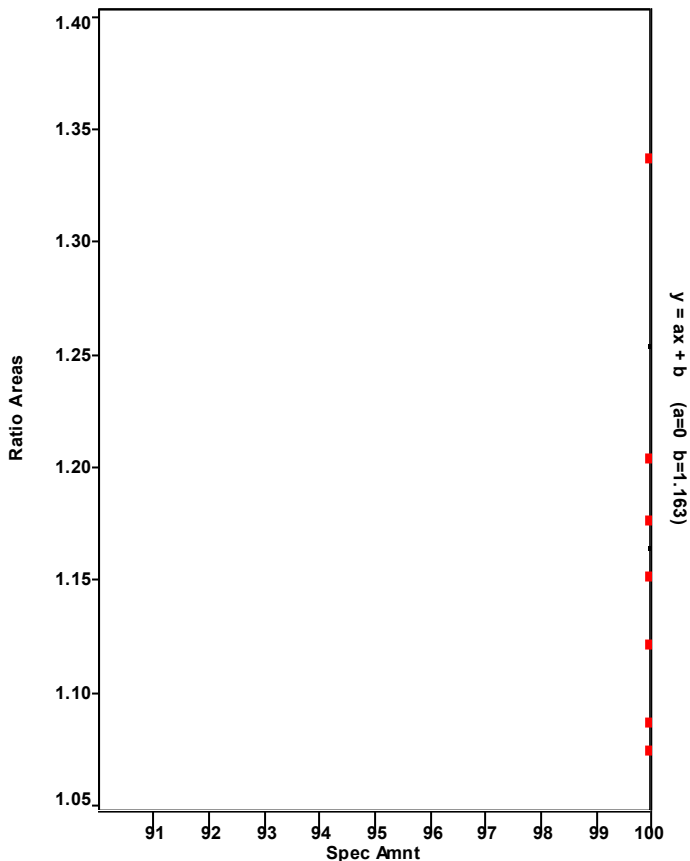
RT: 33.26 - 35.26 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	923328
RM1 Area	695438
RM1 Ratio (A)	0.7532
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	65.45
Percent Recovery (A)	65
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

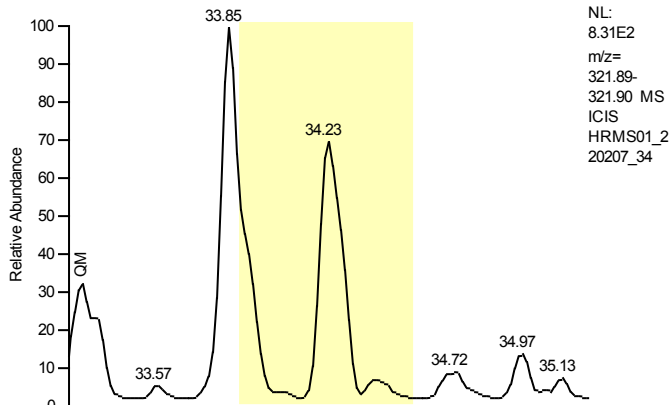
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



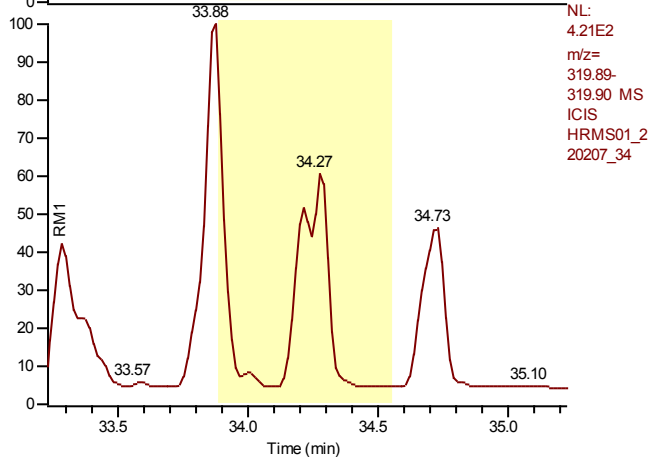
Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

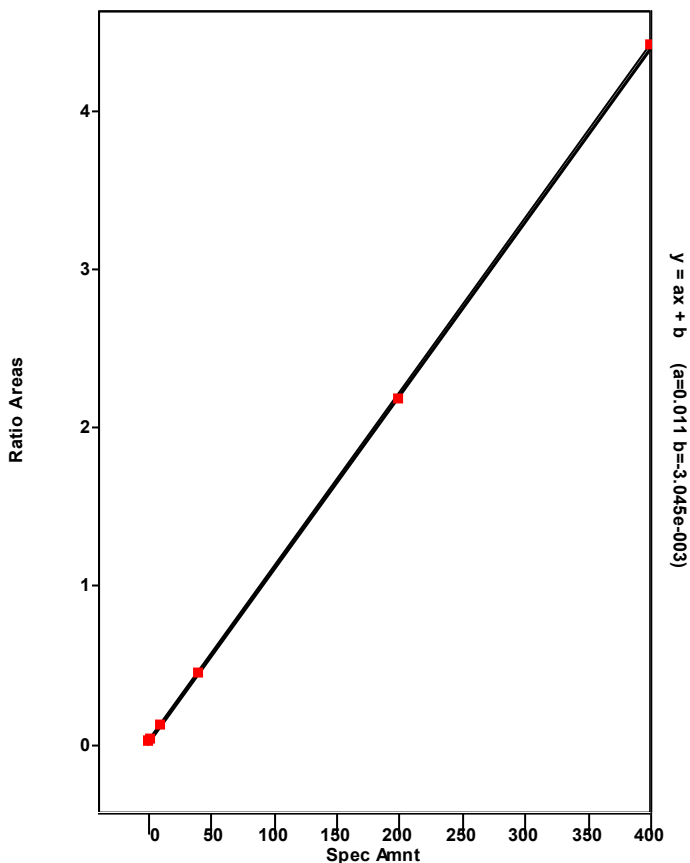


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

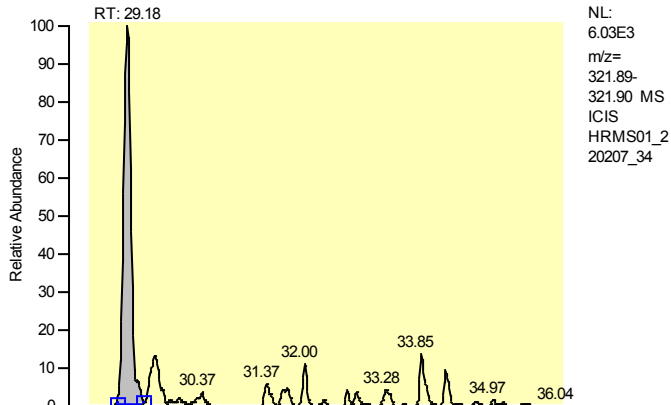
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



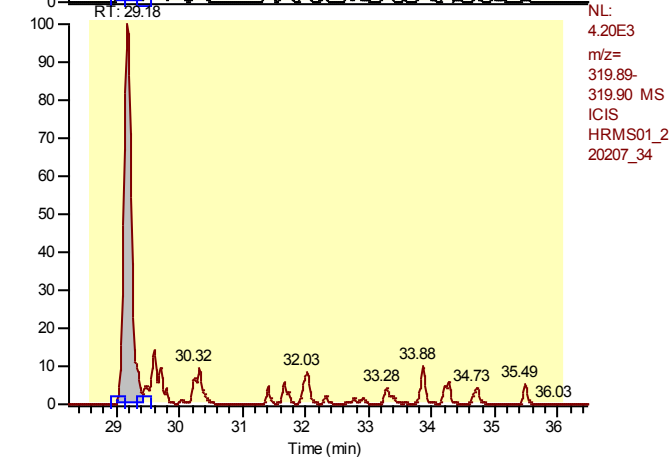
Chromatogram

Entry Parameters

RT: 28.23 - 36.48 SM: 7G

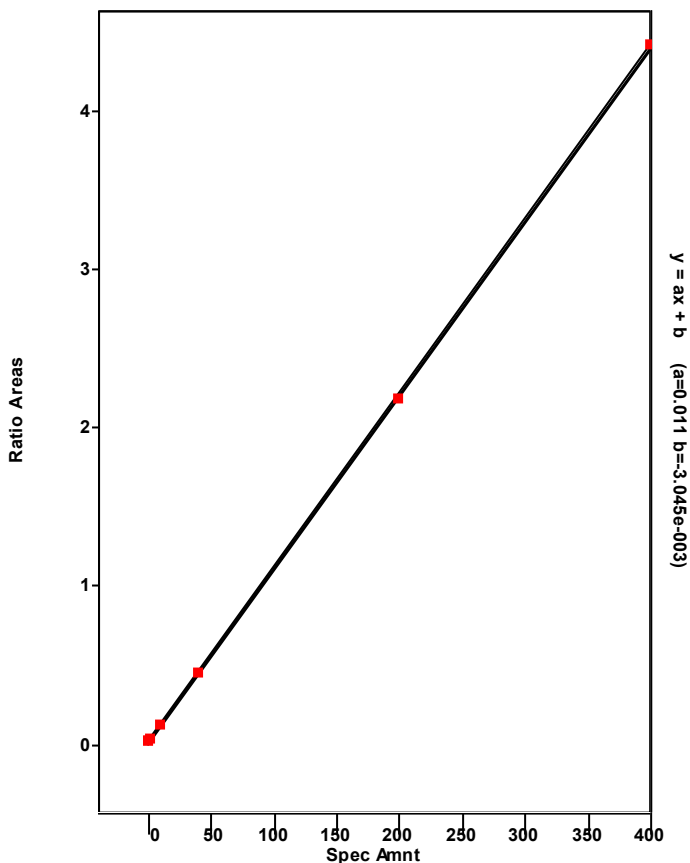


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	48086
RM1 Area	33878
RM1 Ratio (A)	0.7045
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.78
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzo-p-dioxin

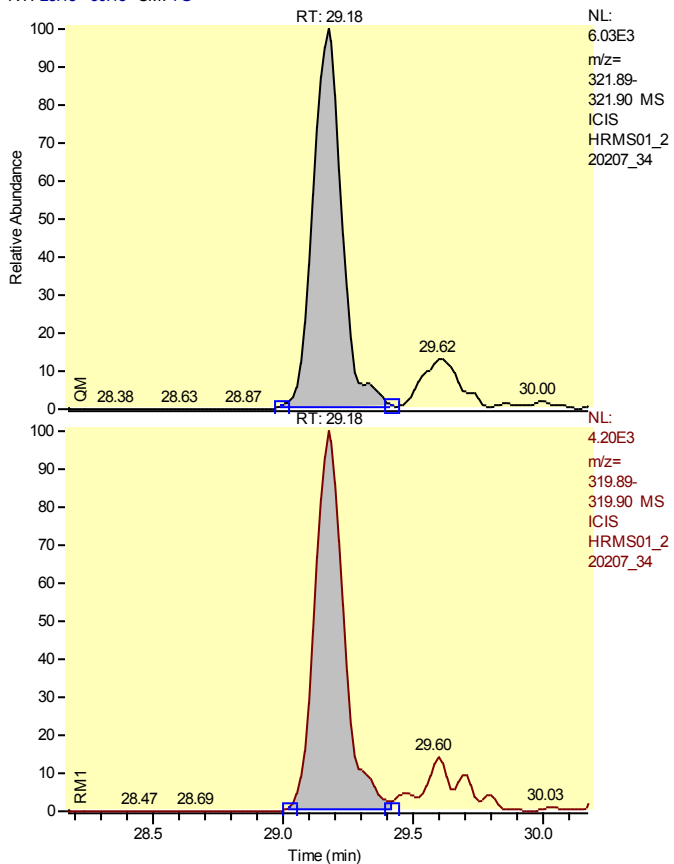
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

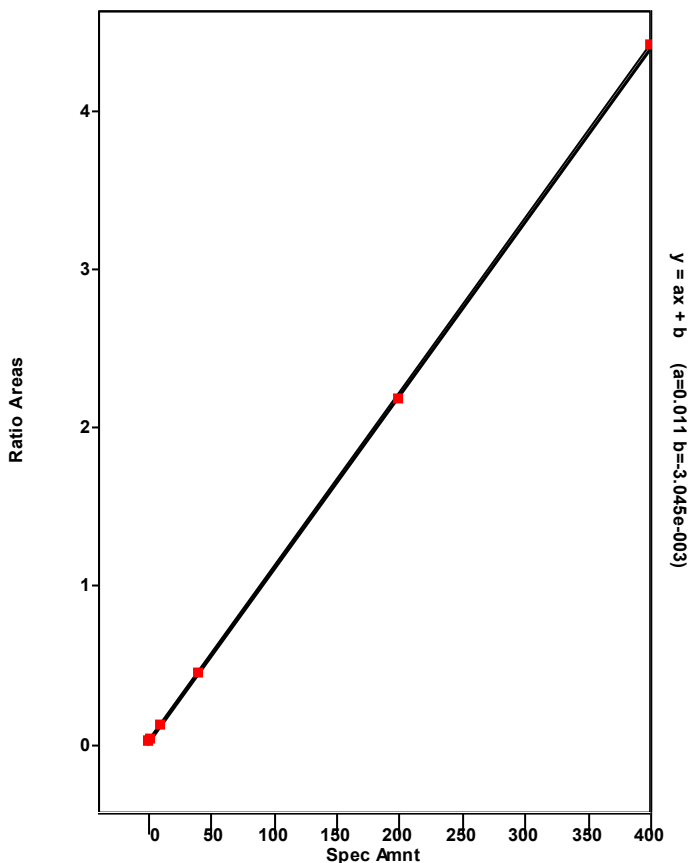
RT: 28.18 - 30.18 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	48086
RM1 Area	33878
RM1 Ratio (A)	0.7045
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	4.78
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

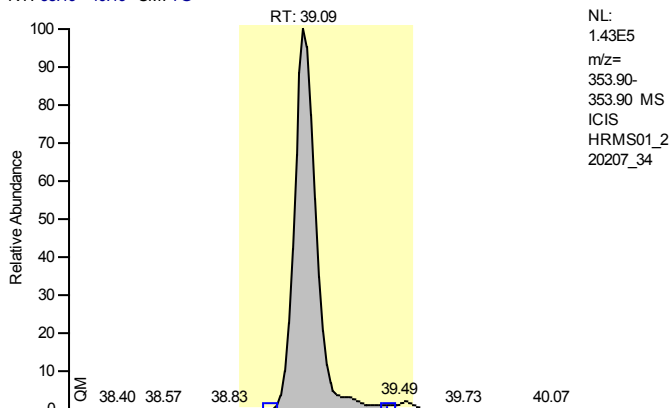
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

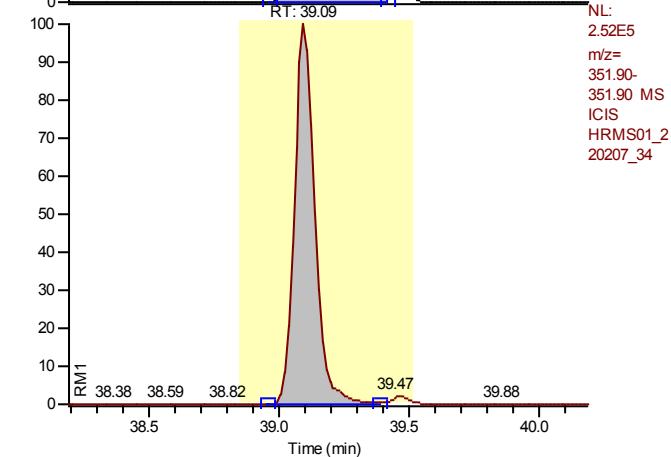
Entry Parameters

RT: 38.19 - 40.19 SM: 7G



NL:
 1.43E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_34

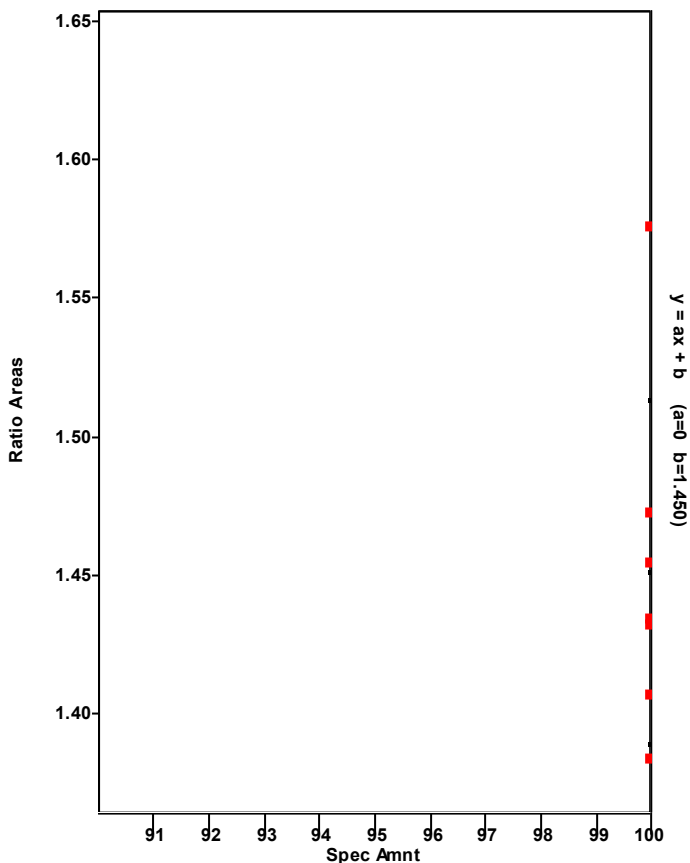
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	835390
RM1 Area	1385155
RM1 Ratio (A)	1.6581
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	72.02
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	



NL:
 2.52E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

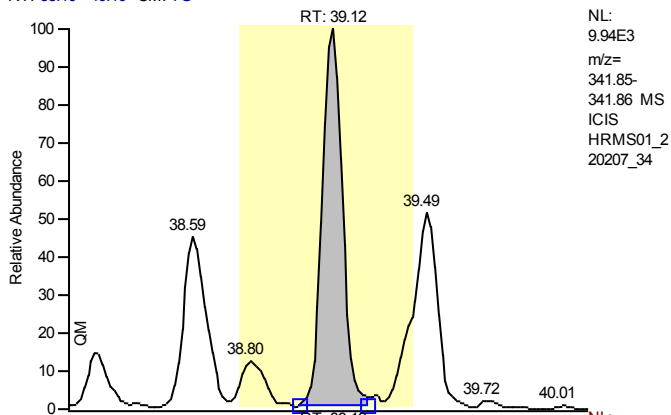
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



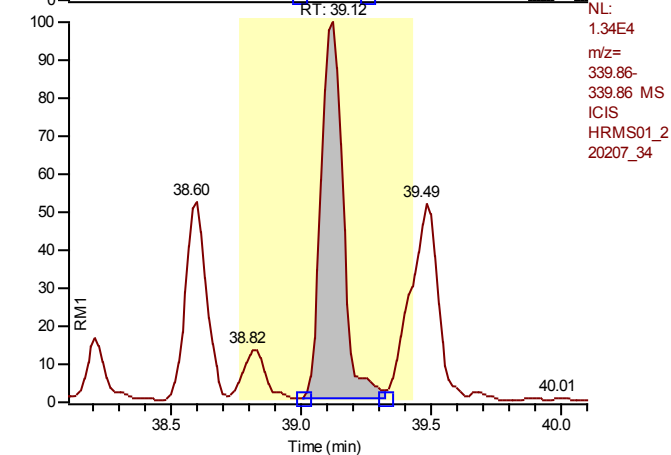
Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G

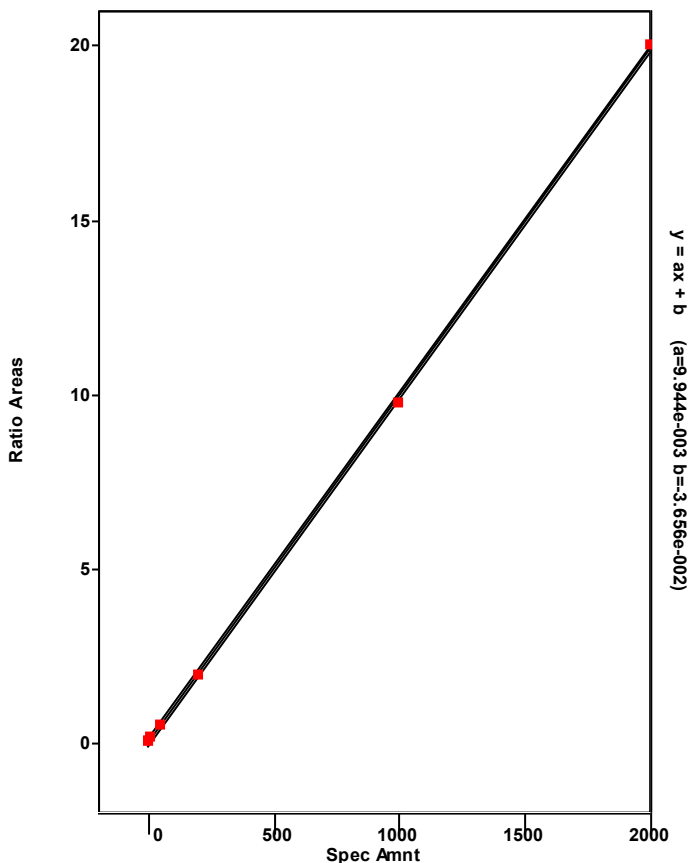


Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	52006
RM1 Area	77086
RM1 Ratio (A)	1.4823
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.87
Percent Recovery (A)	---
TEQ (A)	0.1762
Label2	



Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

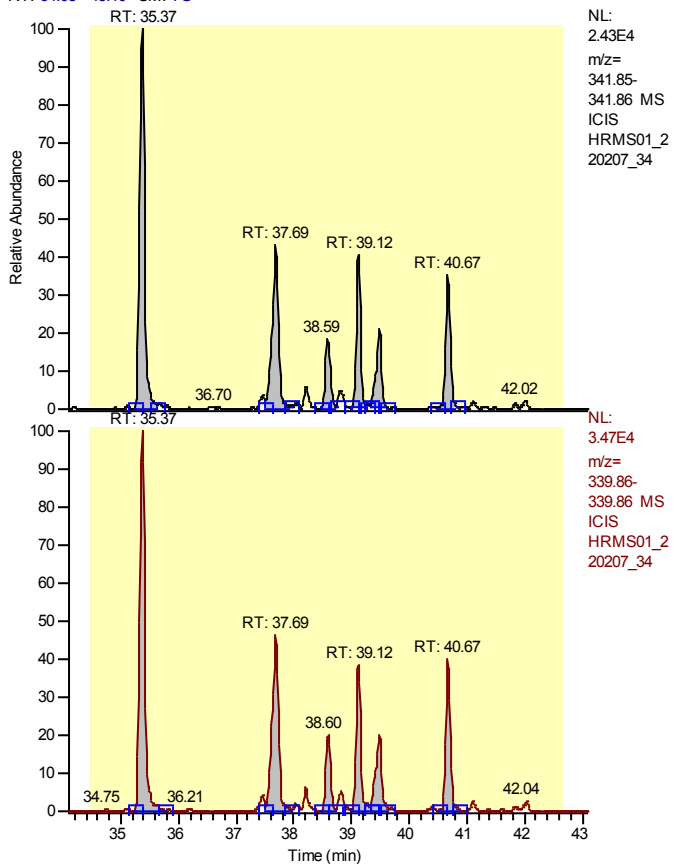
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.08 - 43.10 SM: 7G



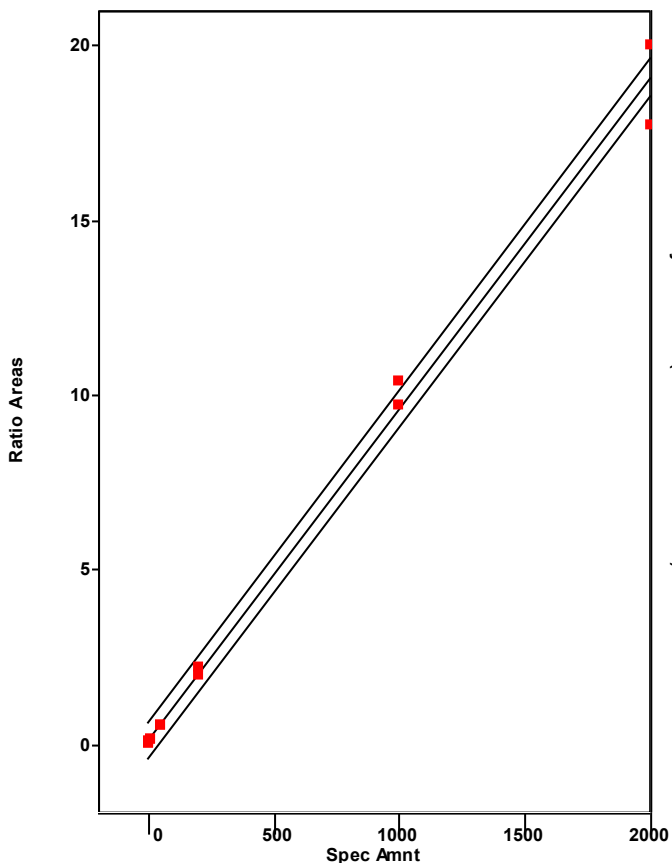
NL:
 2.43E4
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 3.47E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	382387
RM1 Area	577951
RM1 Ratio (A)	1.5114
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	43.01
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran

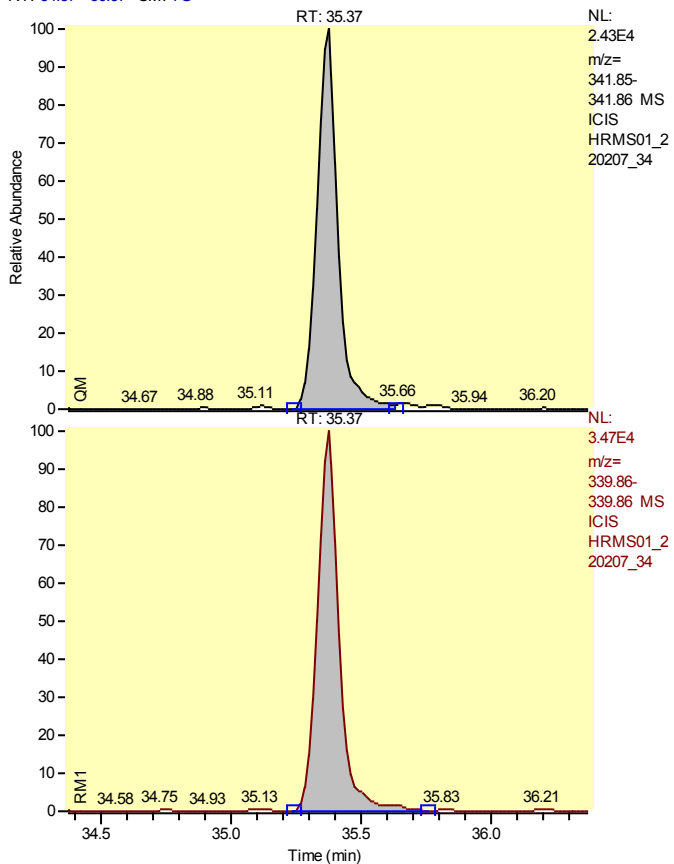
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

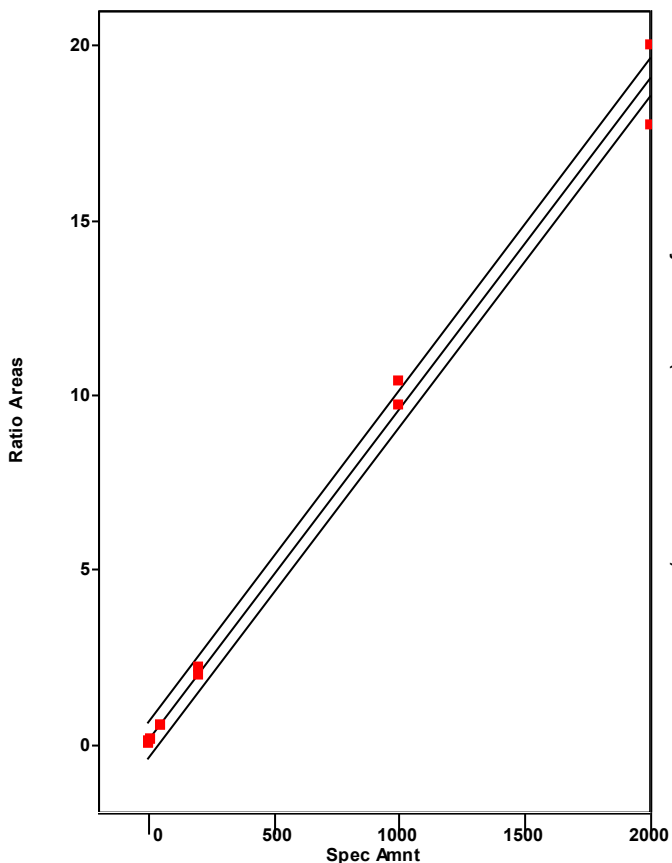
RT: 34.37 - 36.37 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	144213
RM1 Area	211719
RM1 Ratio (A)	1.4681
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	15.94
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

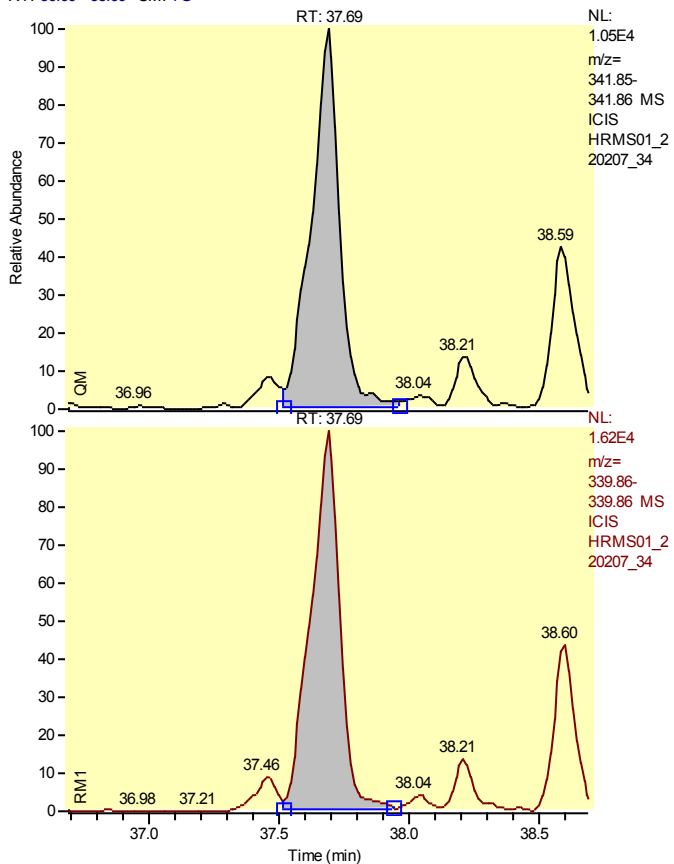
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

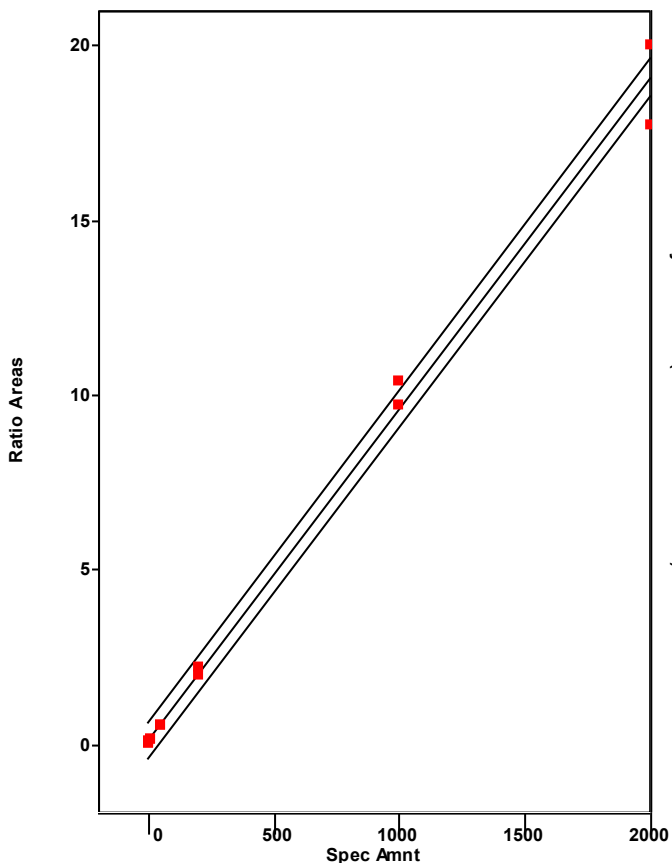
RT: 36.69 - 38.69 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	78935
RM1 Area	124678
RM1 Ratio (A)	1.5795
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	9.12
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__2

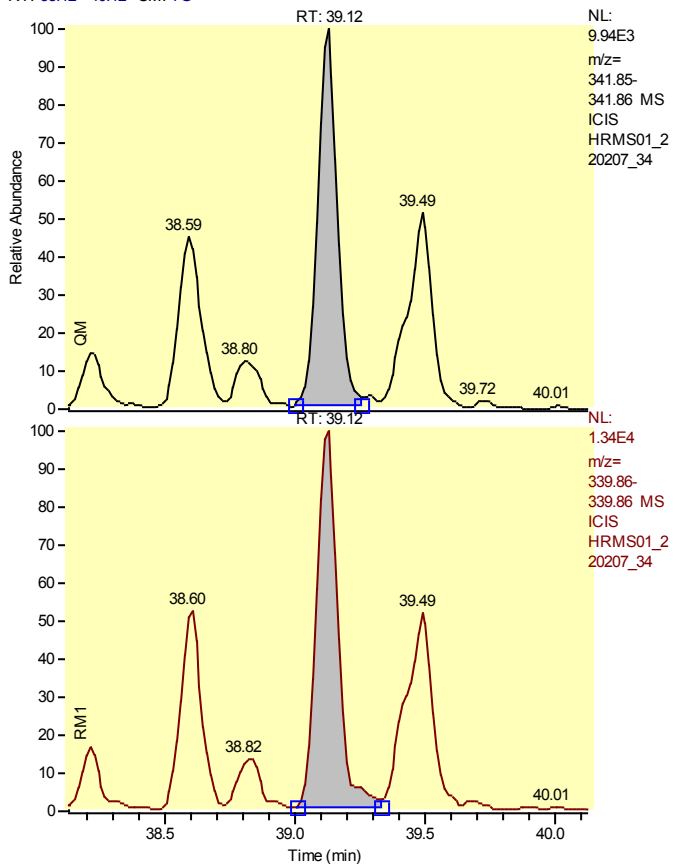
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.12 - 40.12 SM: 7G



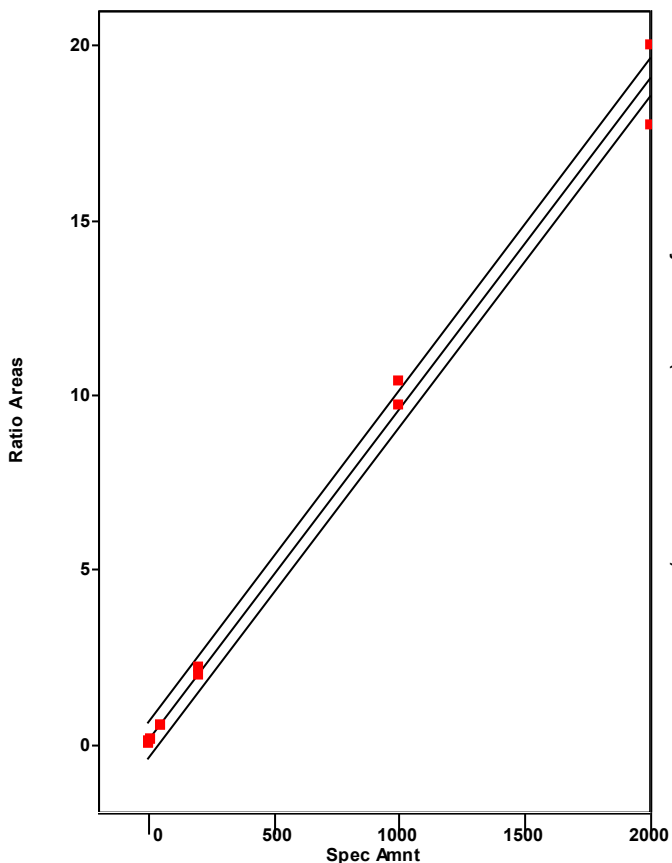
NL:
 9.94E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 1.34E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	52006
RM1 Area	77086
RM1 Ratio (A)	1.4823
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.78
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__3

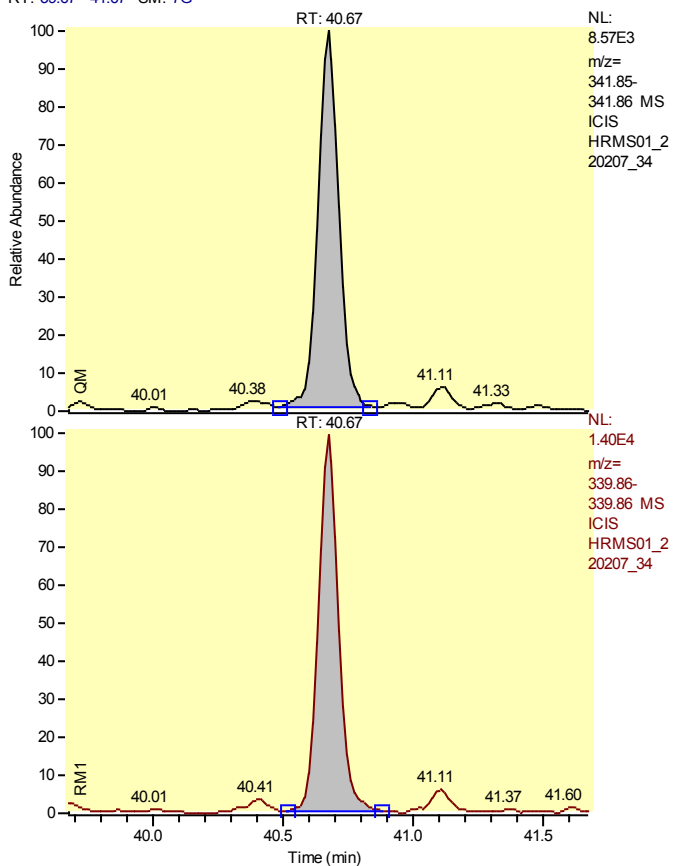
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

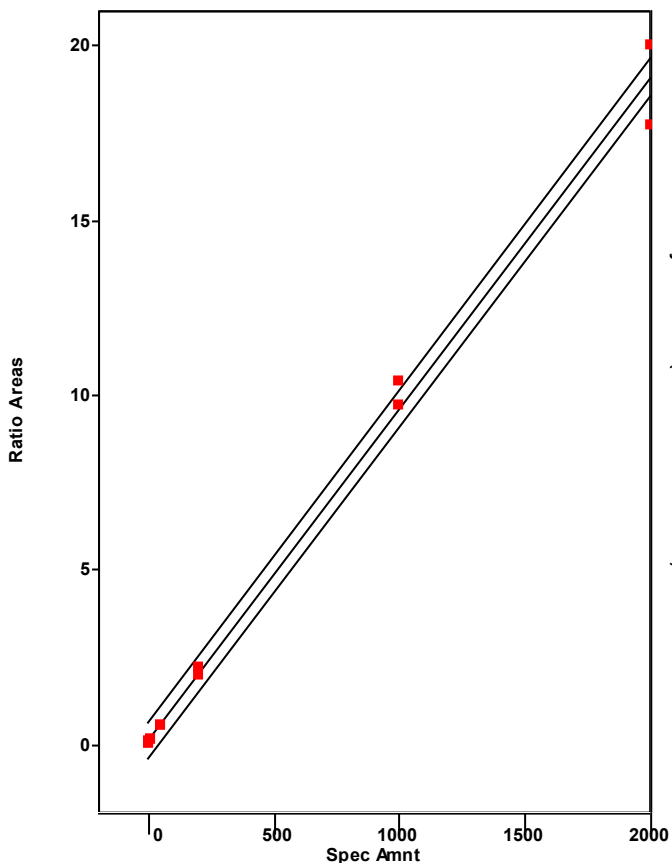
RT: 39.67 - 41.67 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__5
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	47806
RM1 Area	75497
RM1 Ratio (A)	1.5792
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.52
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__5

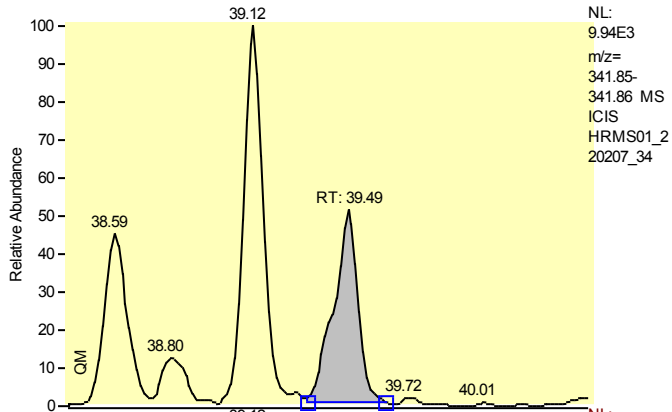
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



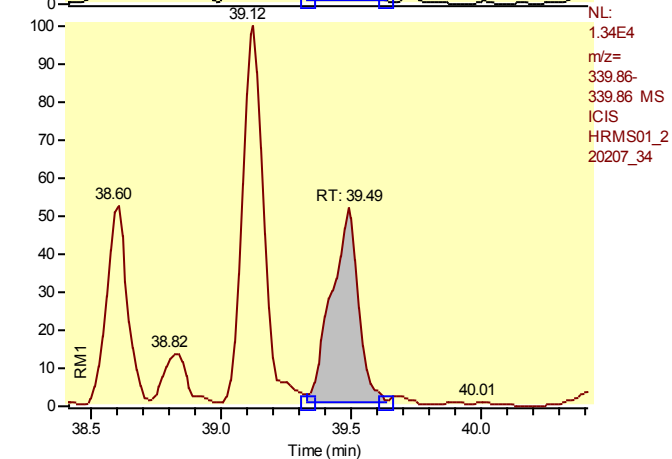
Chromatogram

Entry Parameters

RT: 38.41 - 40.41 SM: 7G

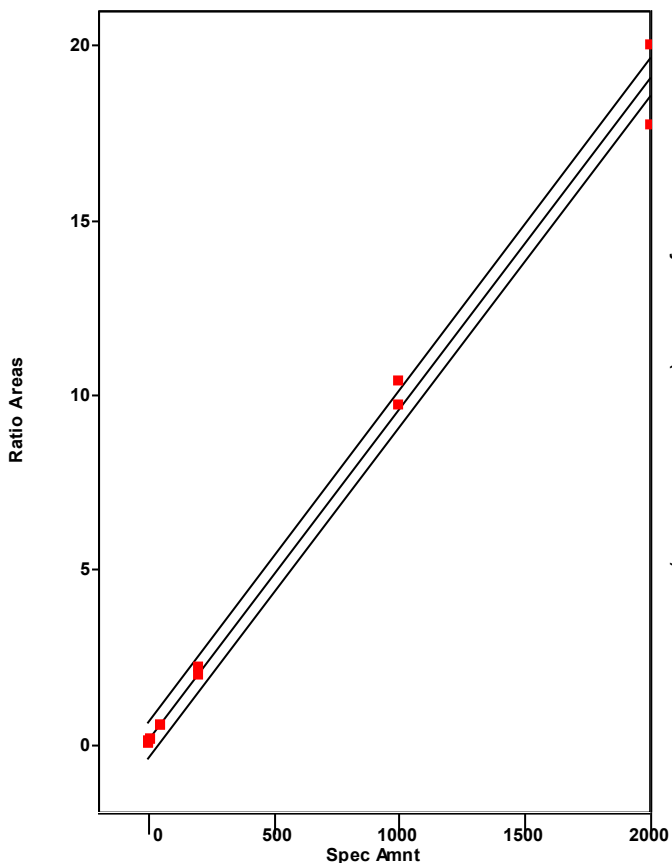


Entry Identifier	Total Pentachlorodibenzofuran__6
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	33127
RM1 Area	50331
RM1 Ratio (A)	1.5193
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	3.74
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzofuran__6

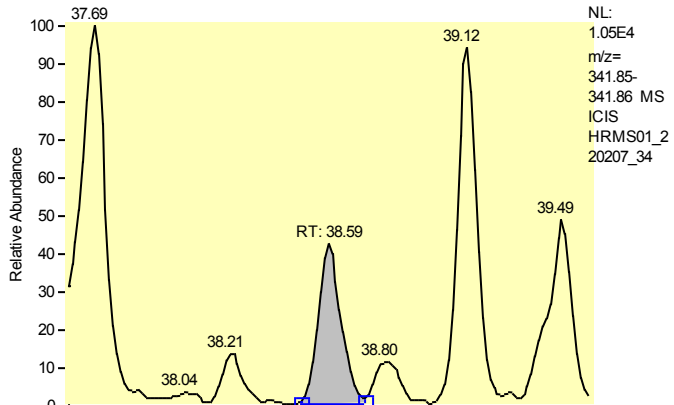
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



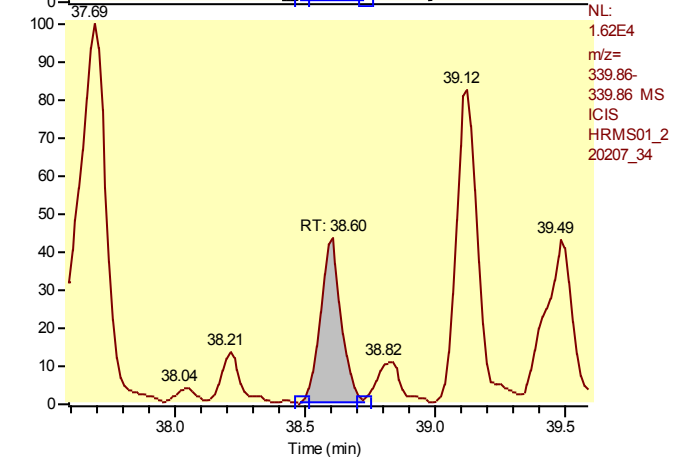
Chromatogram

Entry Parameters

RT: 37.59 - 39.59 SM: 7G

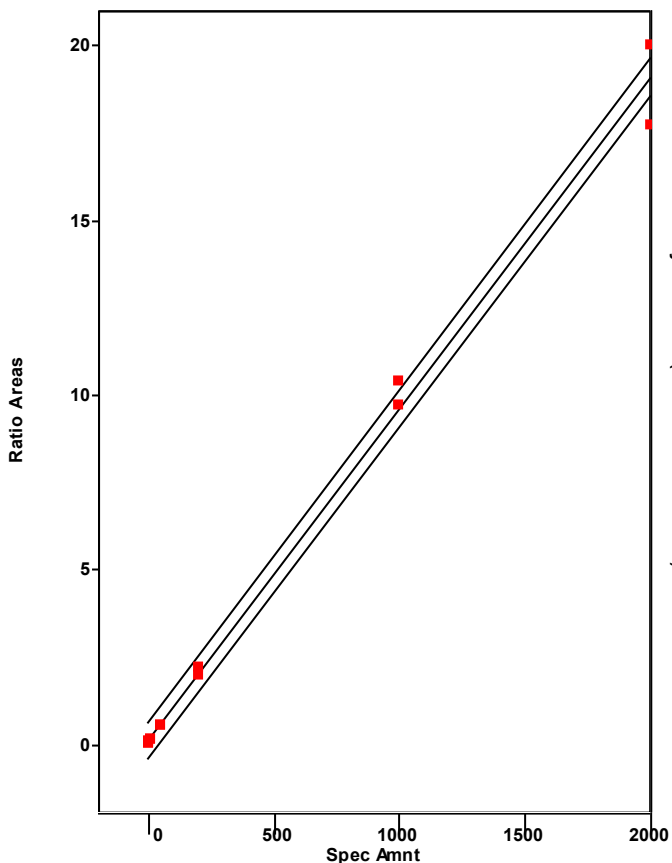


Entry Identifier	Total Pentachlorodibenzofuran__7
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	26301
RM1 Area	38640
RM1 Ratio (A)	1.4692
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.91
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzofuran__7

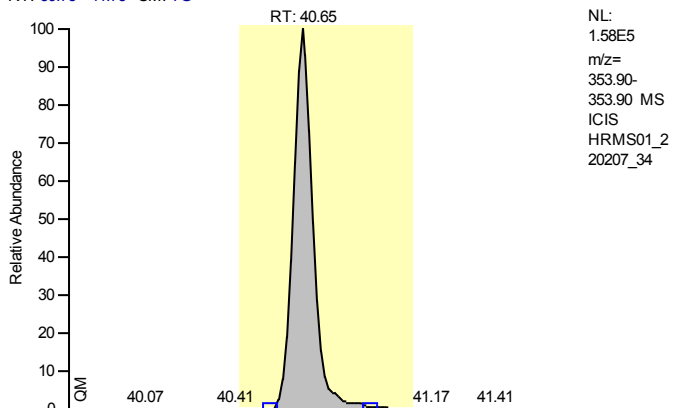
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



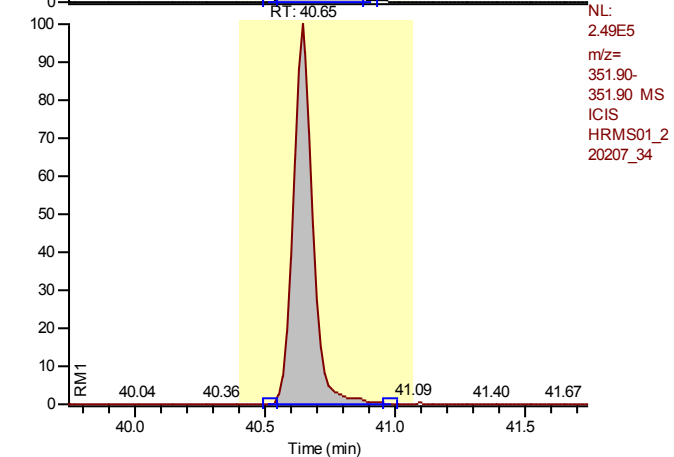
Chromatogram

Entry Parameters

RT: 39.75 - 41.75 SM: 7G

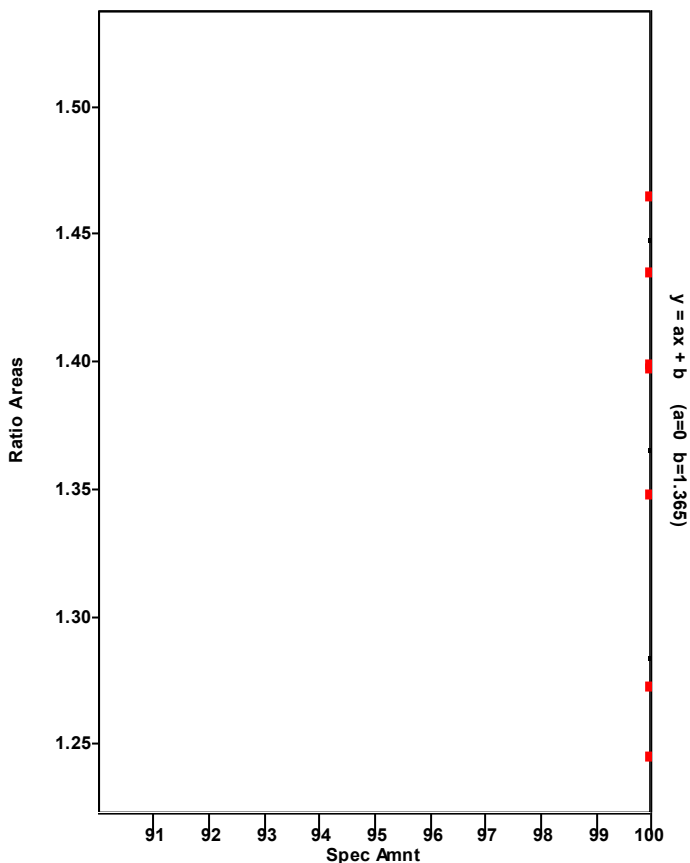


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	852143
RM1 Area	1327243
RM1 Ratio (A)	1.5575
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	75.12
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

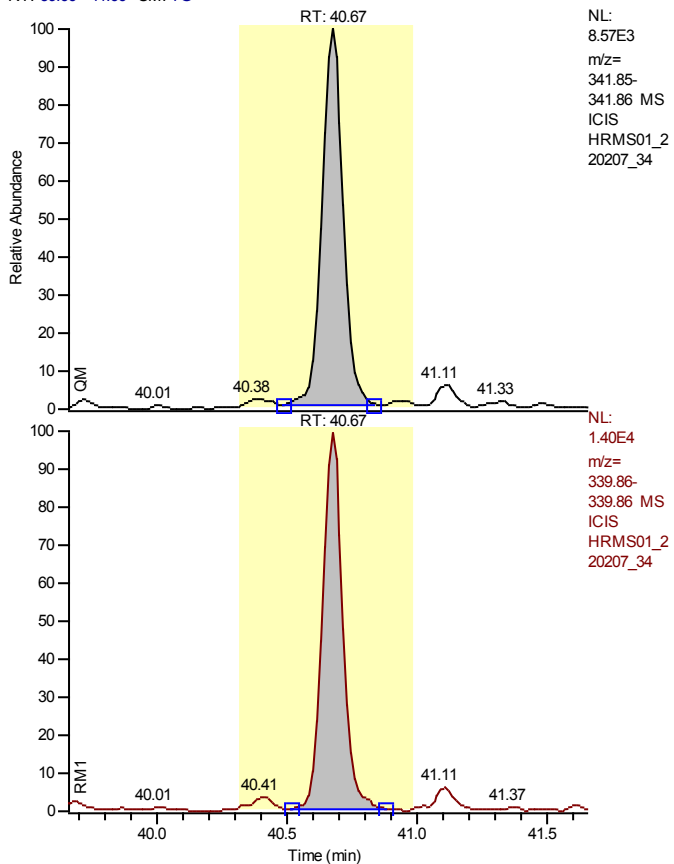
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.66 - 41.66 SM: 7G



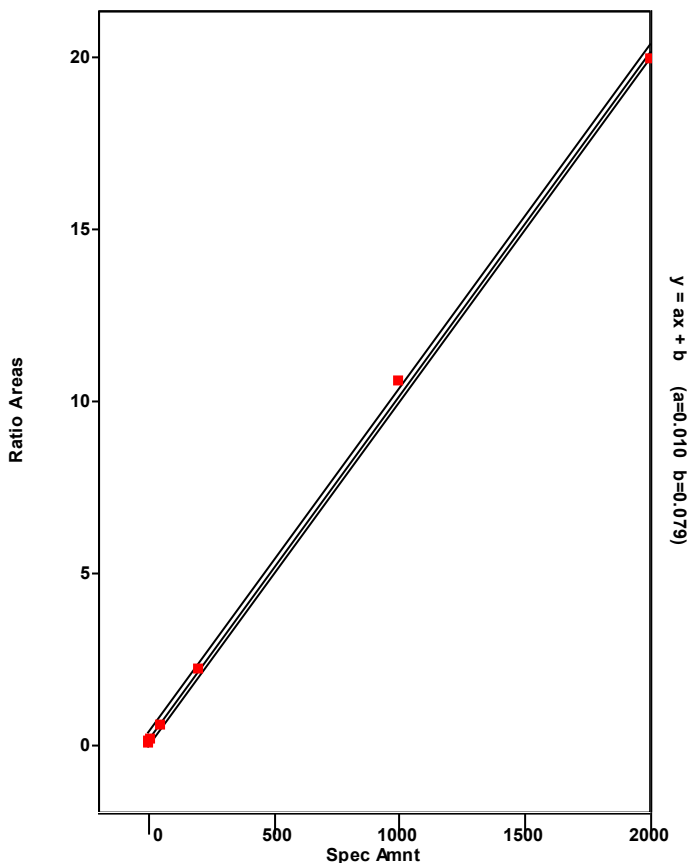
NL:
 8.57E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 1.40E4
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	47806
RM1 Area	75497
RM1 Ratio (A)	1.5792
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.22
Percent Recovery (A)	---
TEQ (A)	1.5649
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

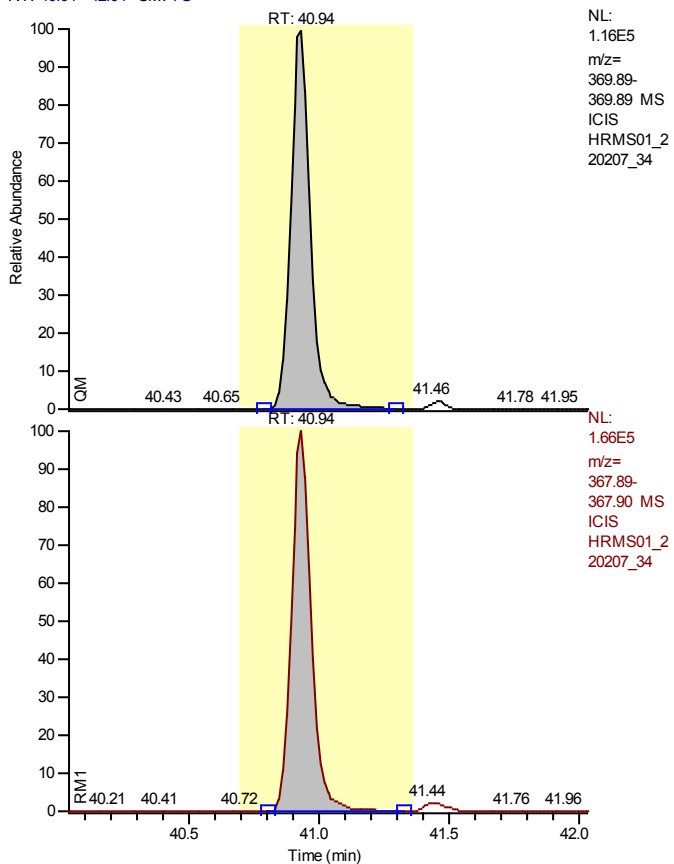
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

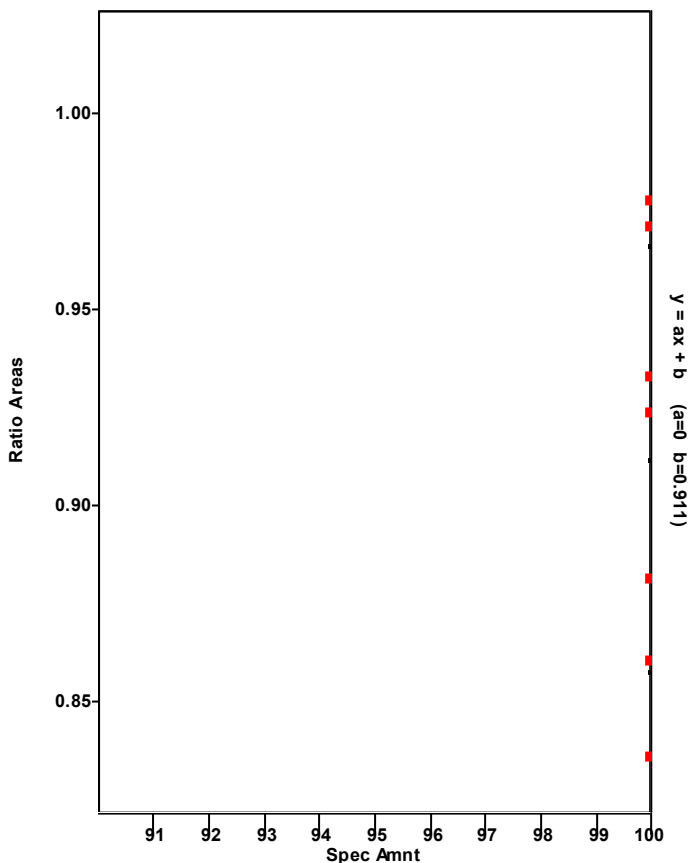
RT: 40.04 - 42.04 SM: 7G



Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	619321
RM1 Area	891574
RM1 Ratio (A)	1.4396
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	78.00
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

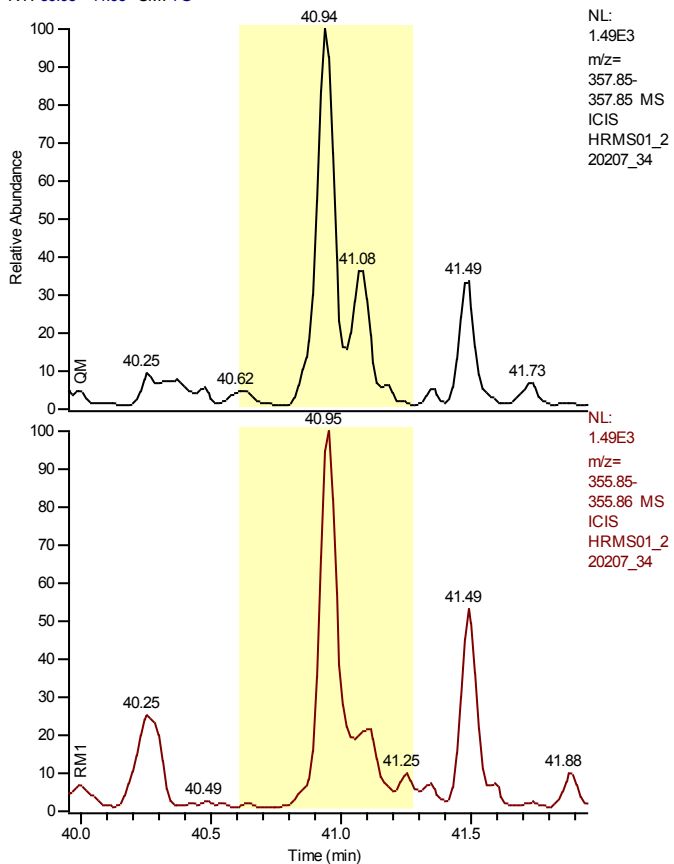
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

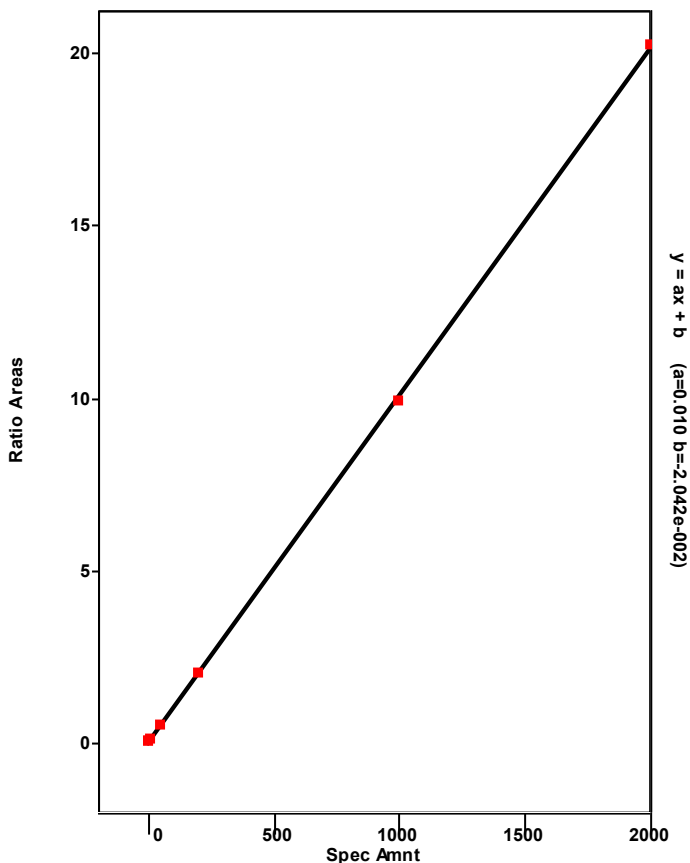
RT: 39.95 - 41.95 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

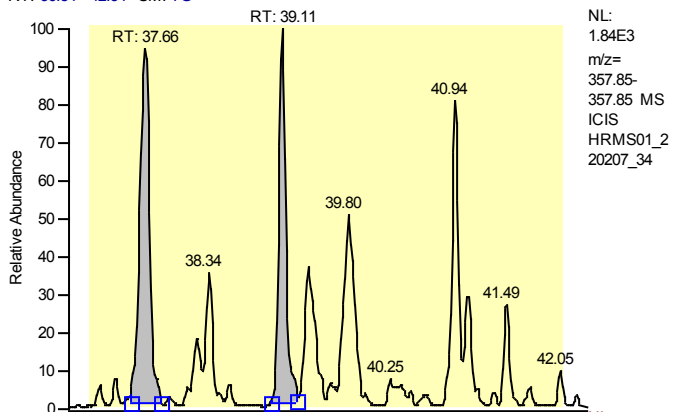
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



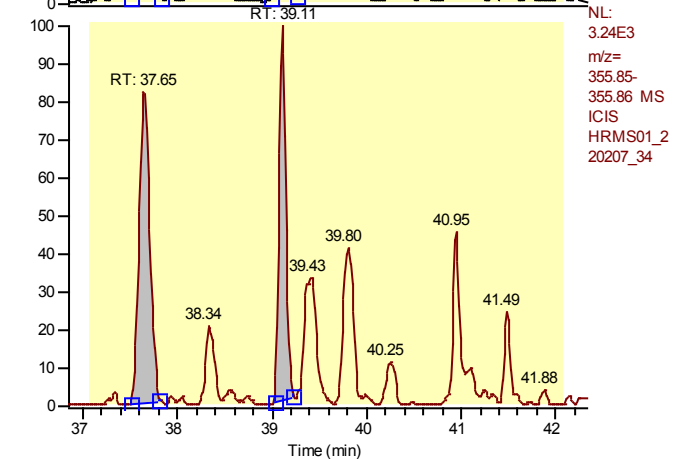
Chromatogram

Entry Parameters

RT: 36.84 - 42.34 SM: 7G

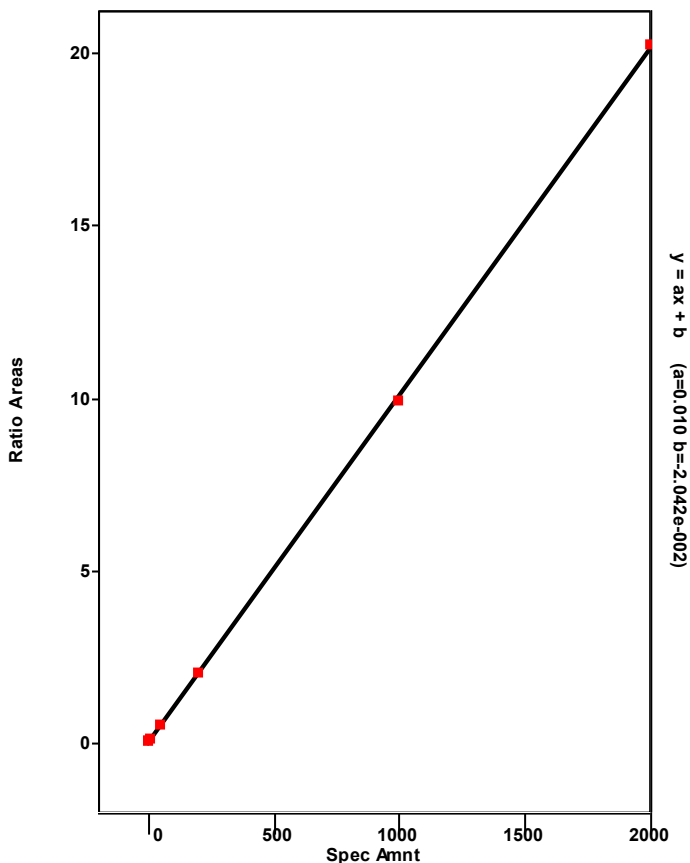


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	21517
RM1 Area	36521
RM1 Ratio (A)	1.6974
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	3.83
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin

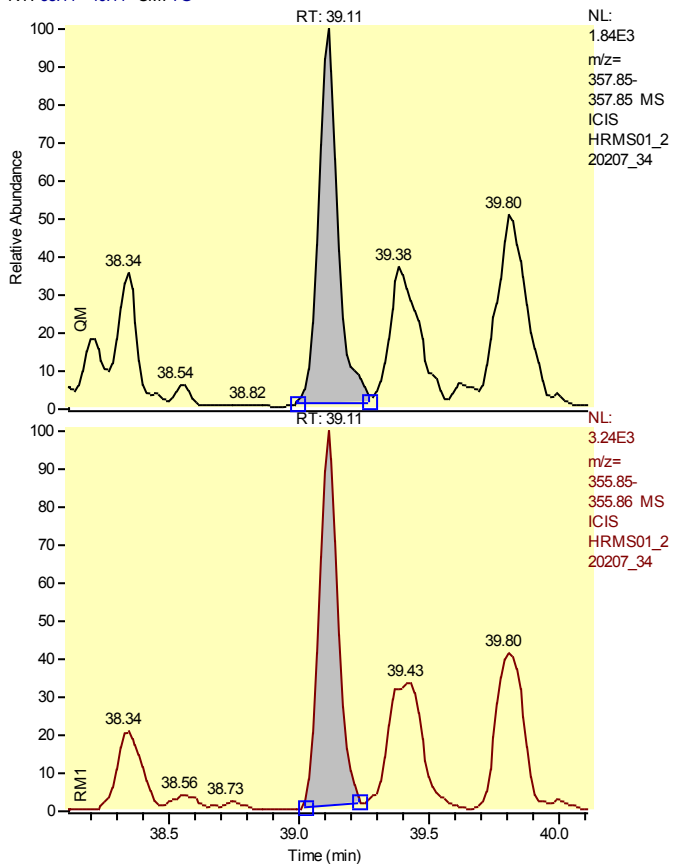
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

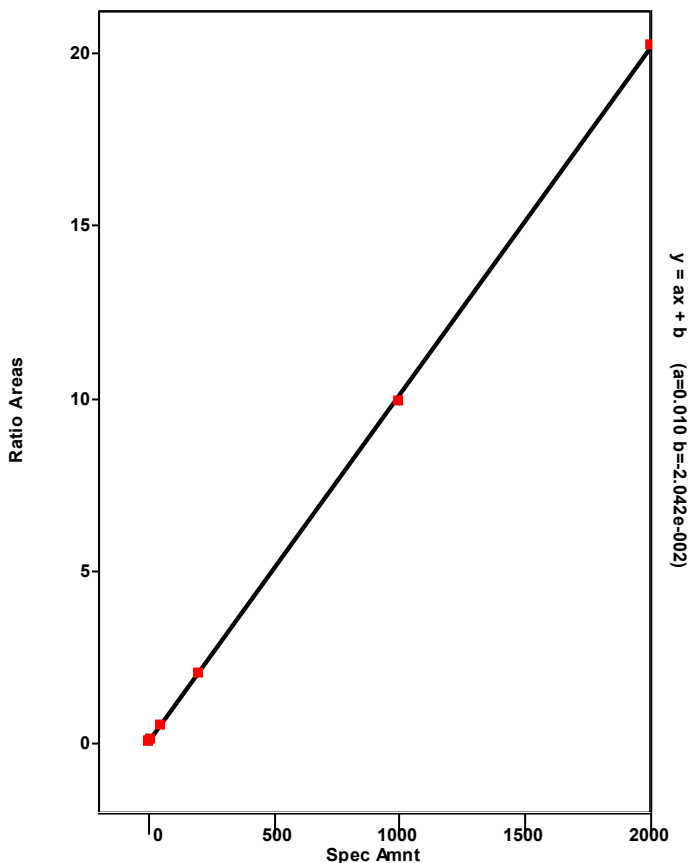
RT: 38.11 - 40.11 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	9455
RM1 Area	16161
RM1 Ratio (A)	1.7092
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.69
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

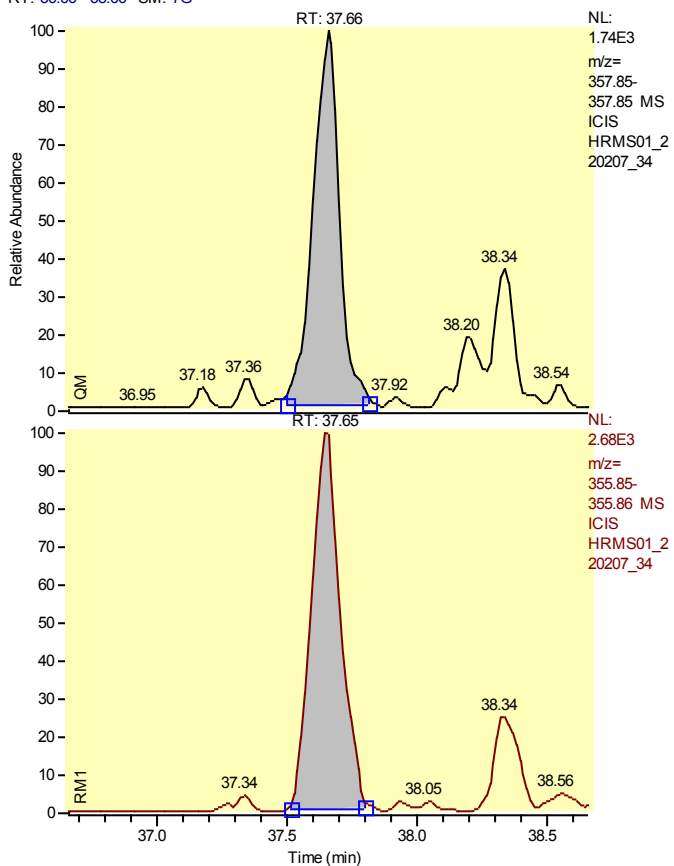
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

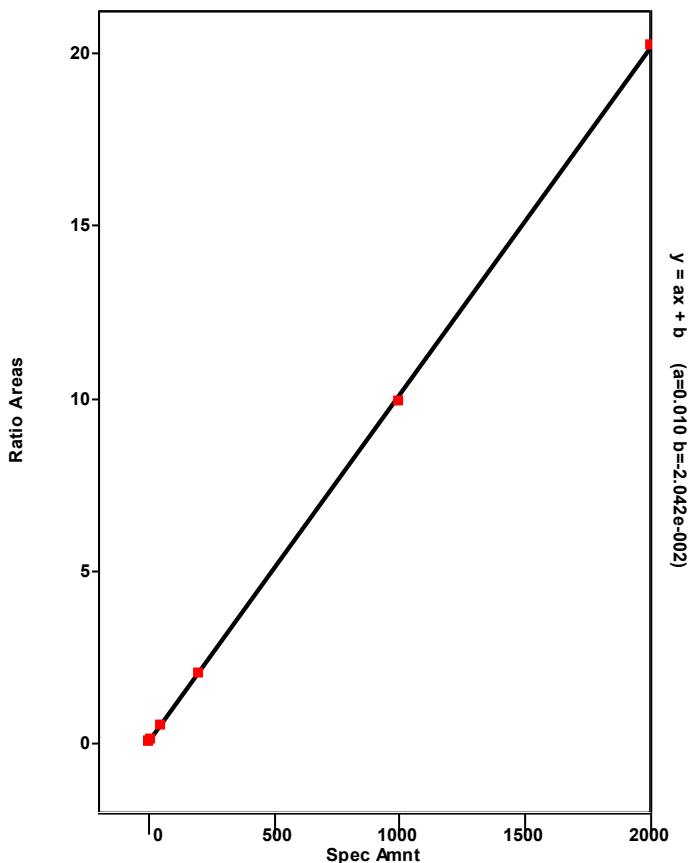
RT: 36.66 - 38.66 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	12061
RM1 Area	20360
RM1 Ratio (A)	1.6881
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.14
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

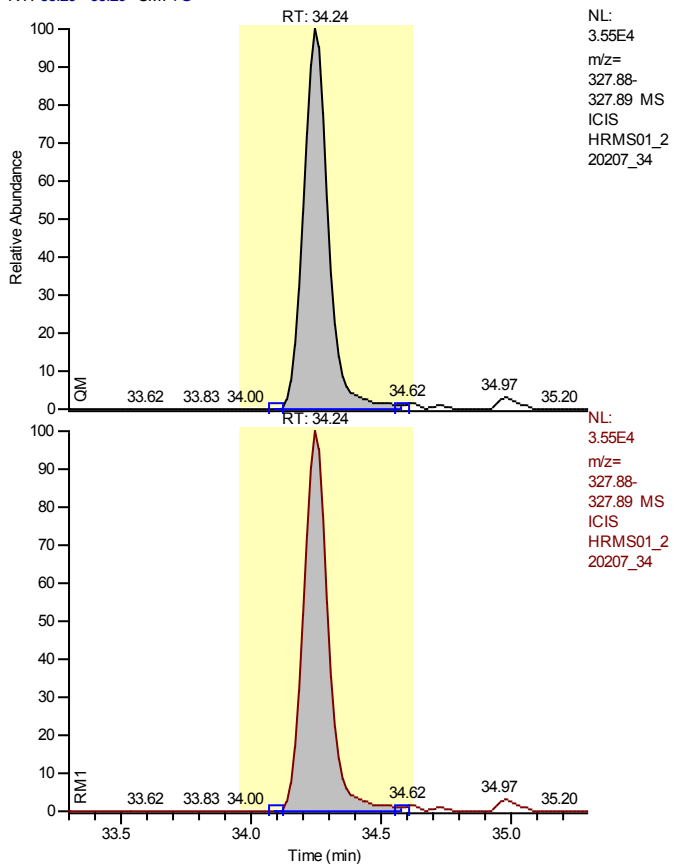
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

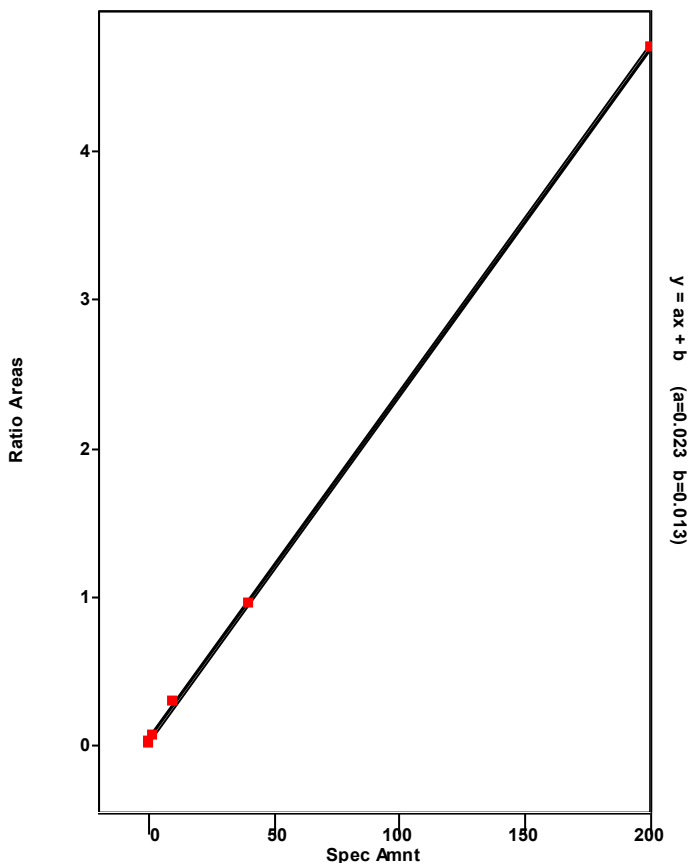
RT: 33.29 - 35.29 SM: 7G



Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	233158
RM1 Area	233158
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.76
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

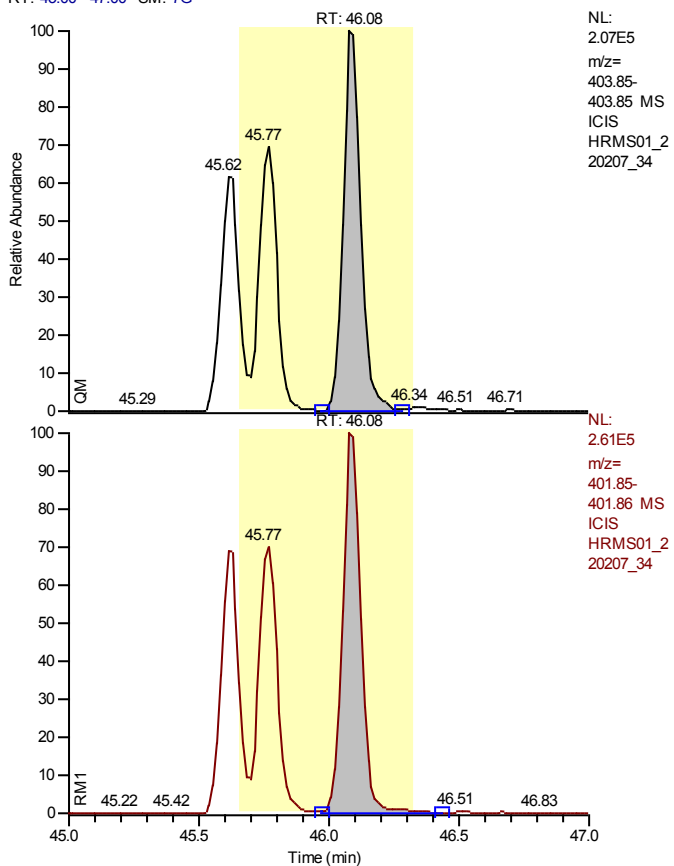
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

Entry Parameters

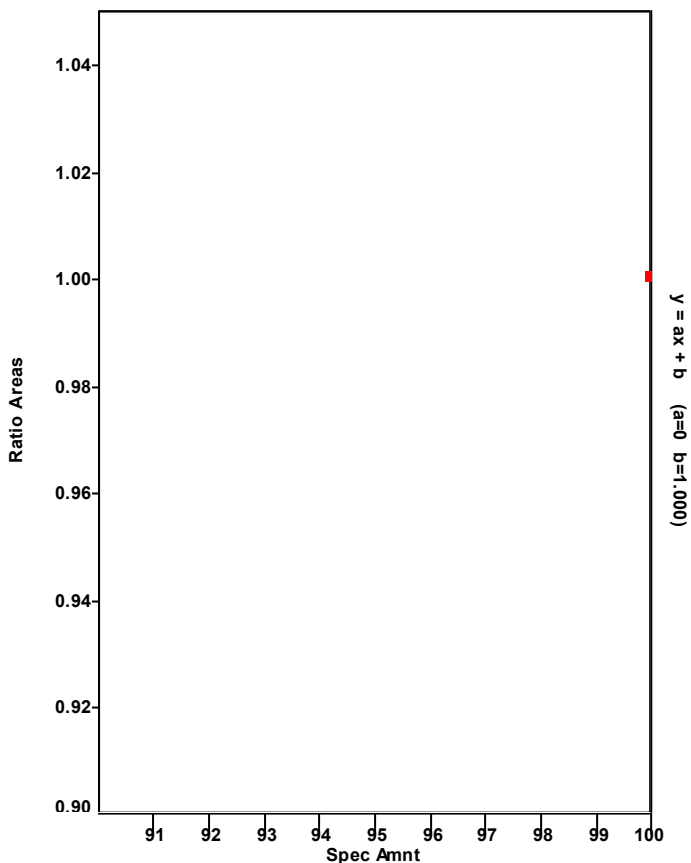
RT: 45.00 - 47.00 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	983261
RM1 Area	1275638
RM1 Ratio (A)	1.2974
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

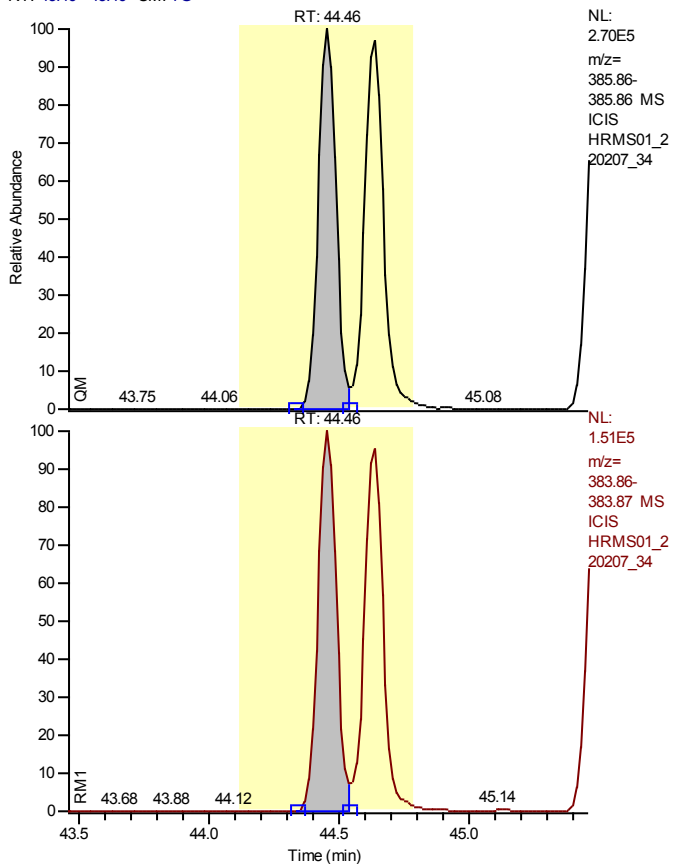
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

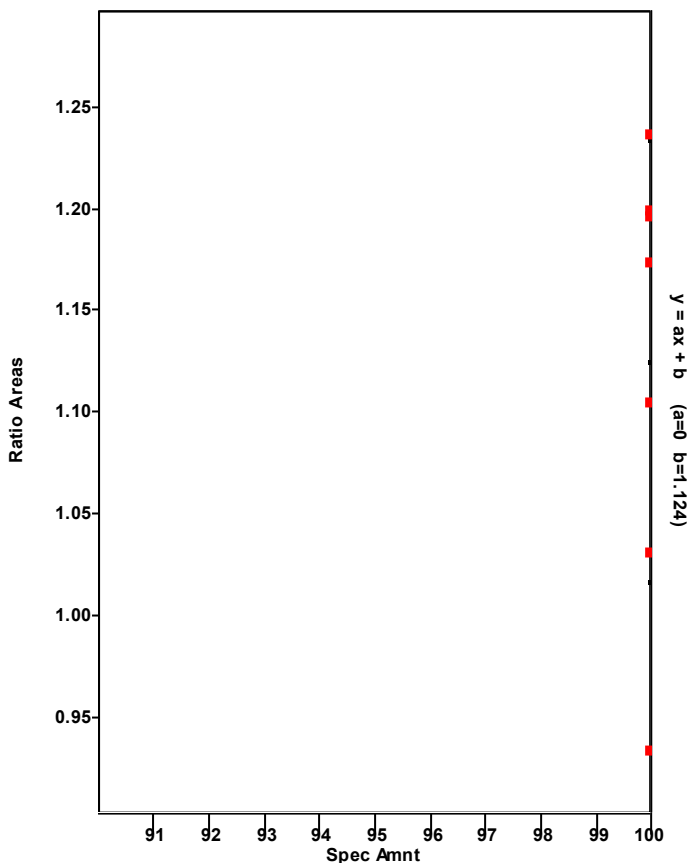
RT: 43.46 - 45.46 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1280139
RM1 Area	733363
RM1 Ratio (A)	0.5729
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	79.34
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	

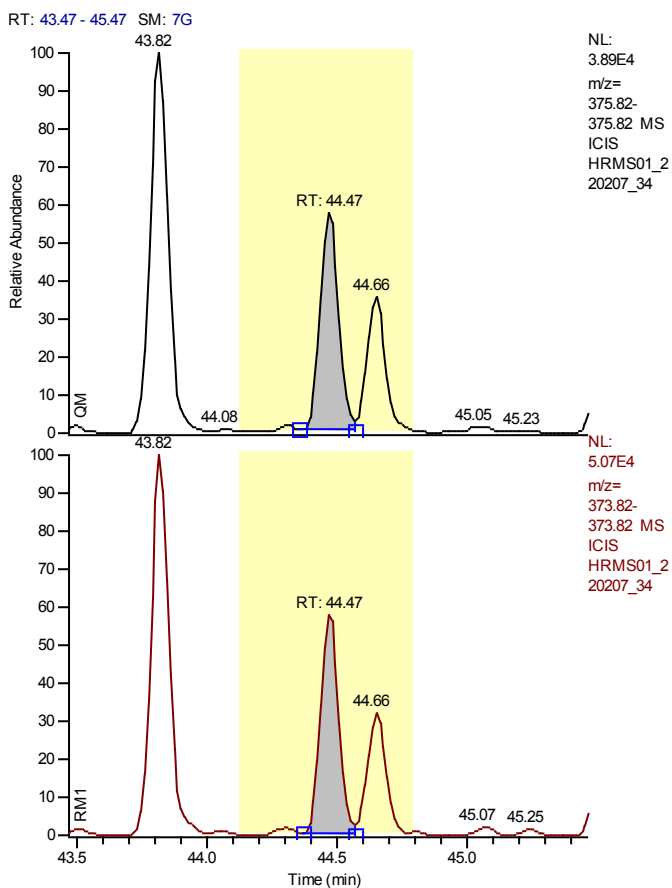
Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters



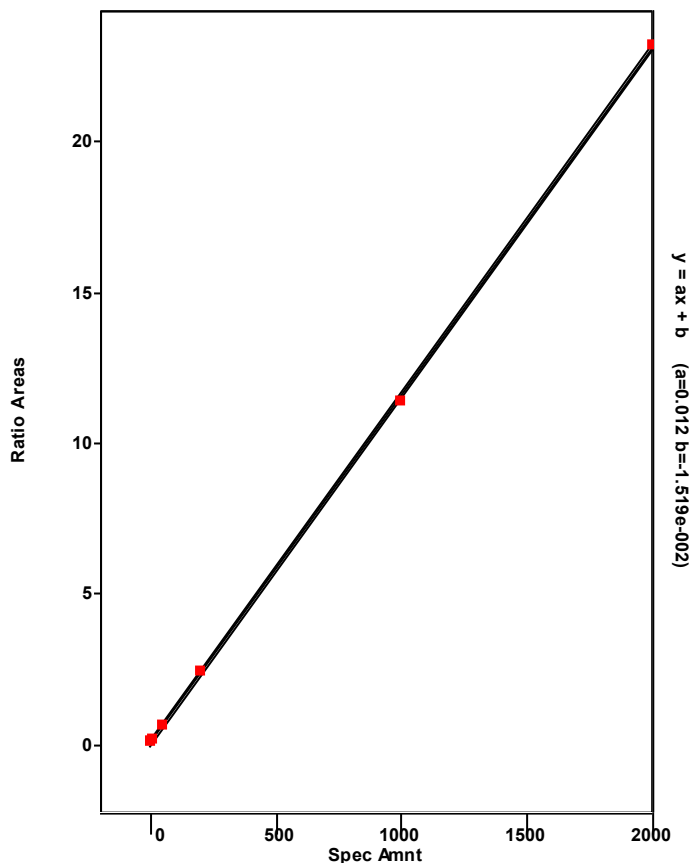
NL:
 3.89E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 5.07E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	110203
RM1 Area	141889
RM1 Ratio (A)	1.2875
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	10.86
Percent Recovery (A)	---
TEQ (A)	1.0863
Label2	

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

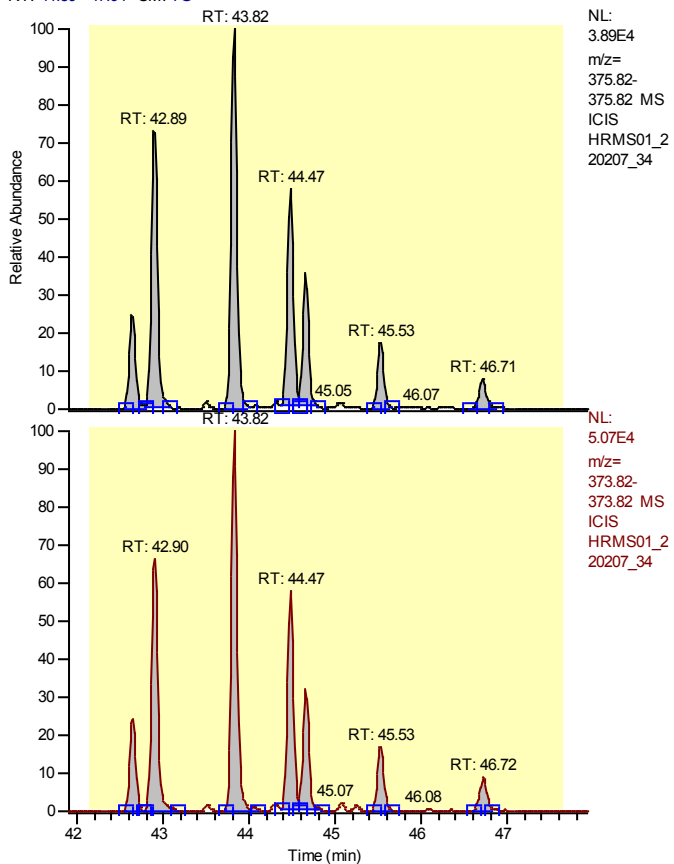
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.89 - 47.94 SM: 7G



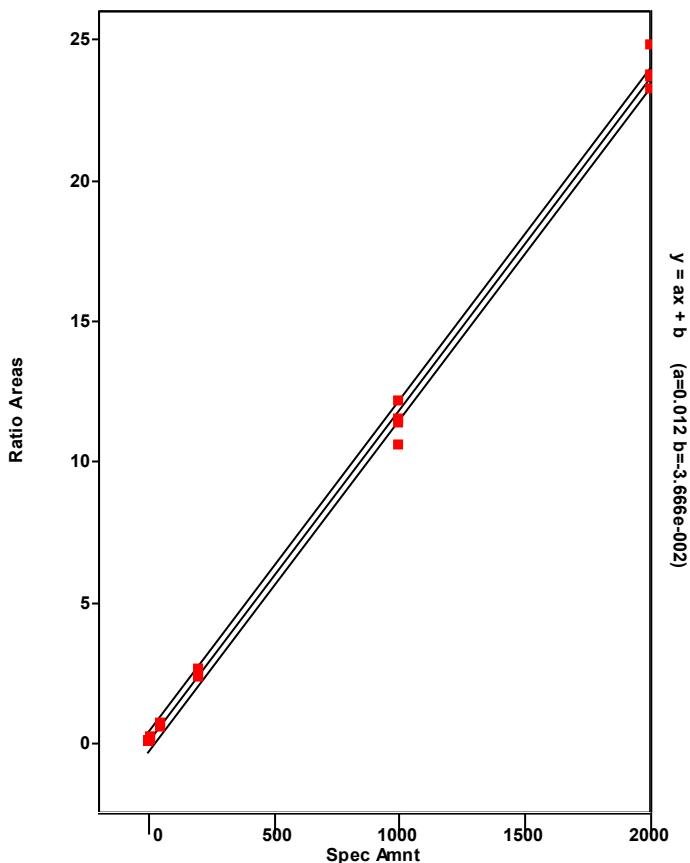
NL:
3.89E4
m/z=
375.82-
MS
ICIS
HRMS01_2
20207_34

NL:
5.07E4
m/z=
373.82-
MS
ICIS
HRMS01_2
20207_34

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	611387
RM1 Area	770426
RM1 Ratio (A)	1.2601
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	57.40
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

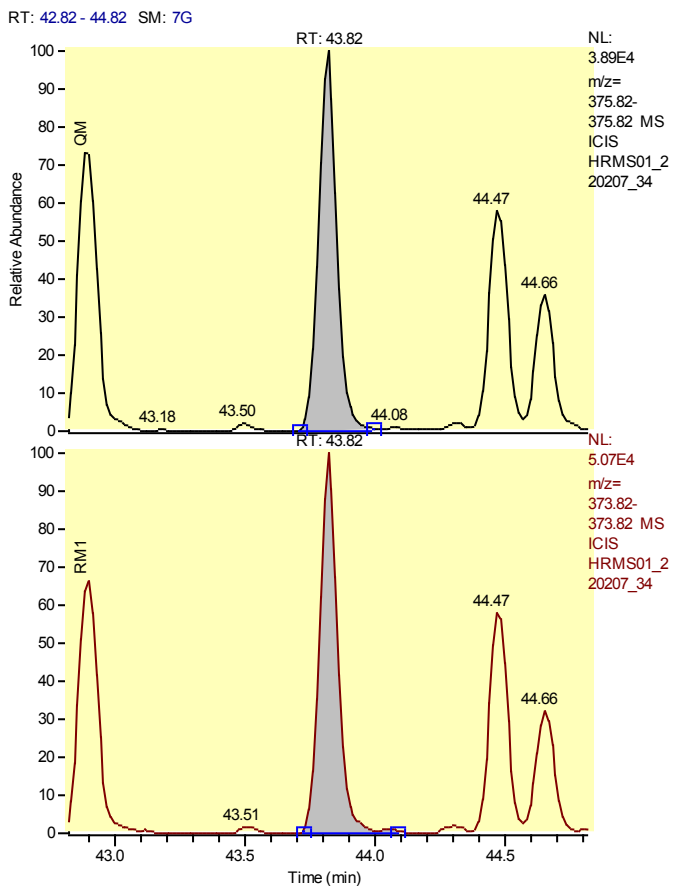
Calibration Points of Total Hexachlorodibenzofuran

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

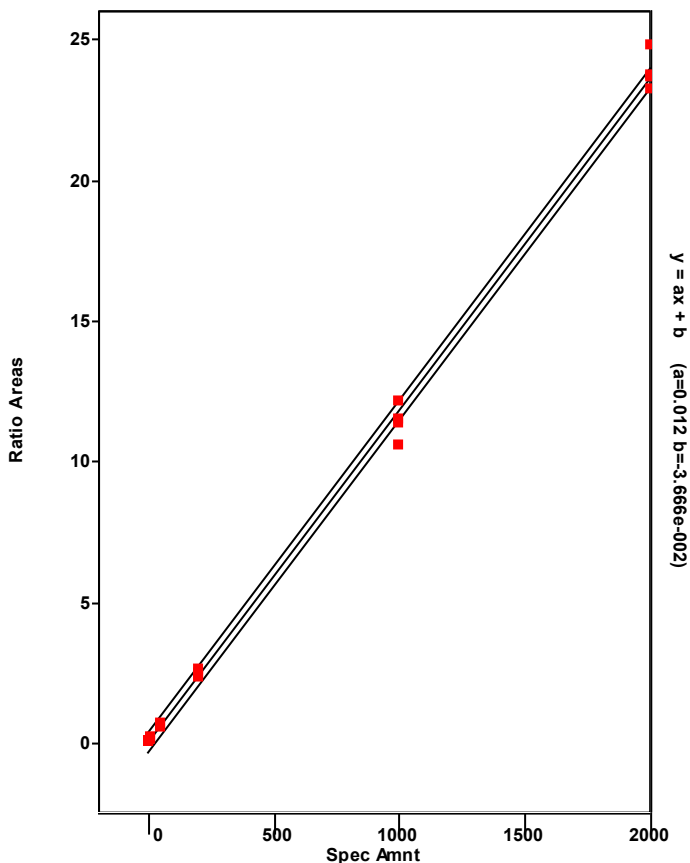
Entry Parameters



Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	188450
RM1 Area	243601
RM1 Ratio (A)	1.2927
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	17.95
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__1

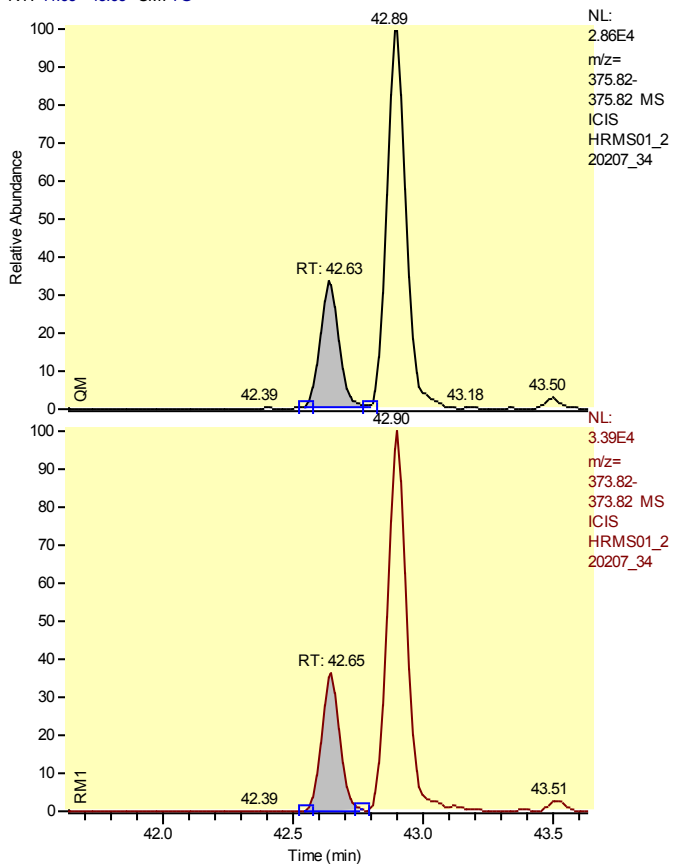
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

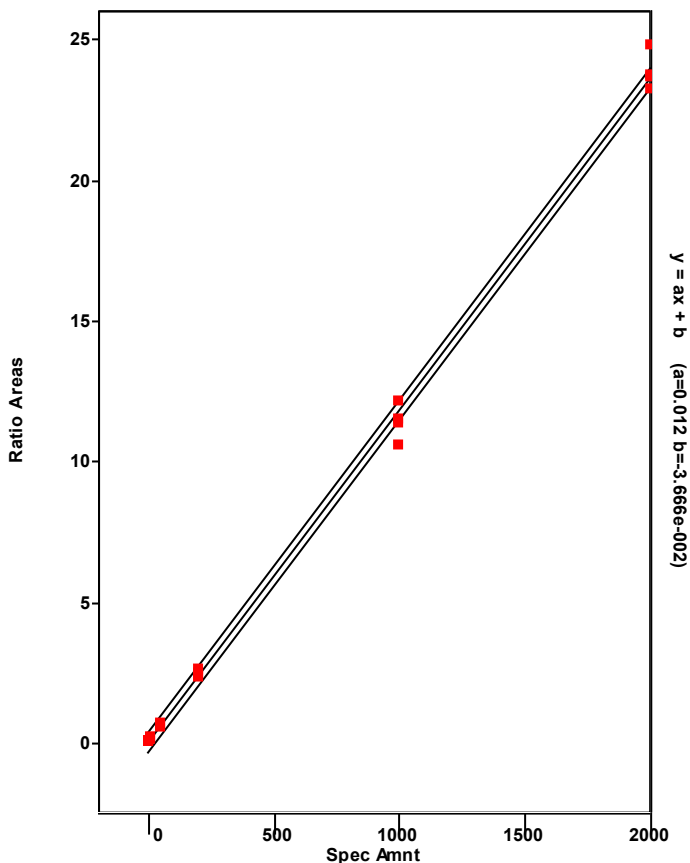
RT: 41.63 - 43.63 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	48027
RM1 Area	59705
RM1 Ratio (A)	1.2432
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.47
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

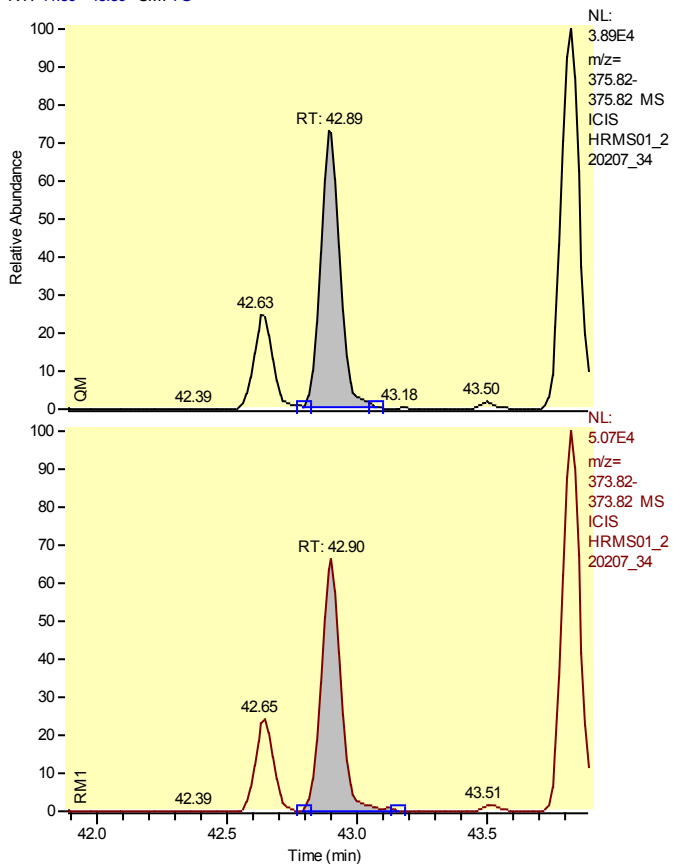
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

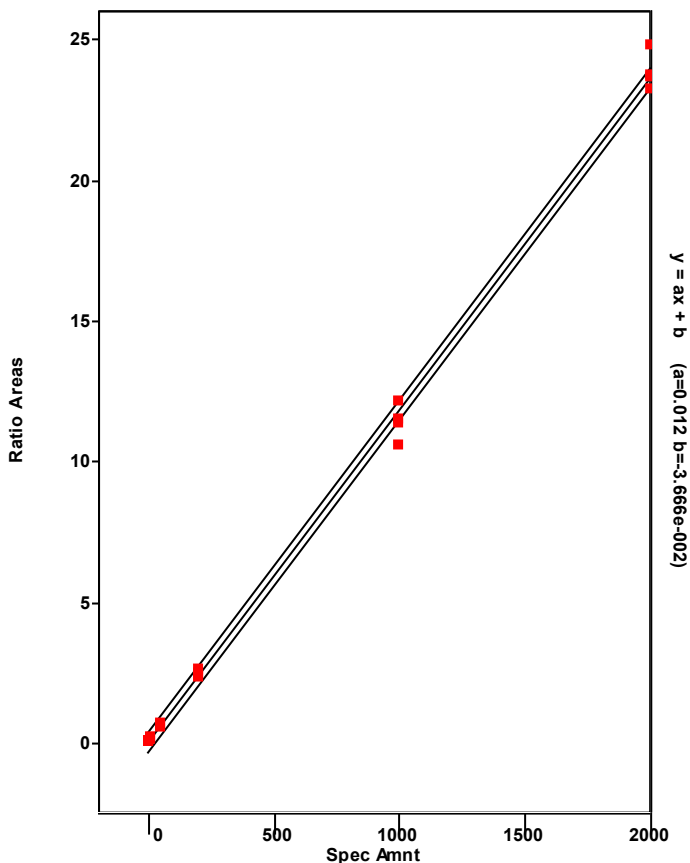
RT: 41.89 - 43.89 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	146250
RM1 Area	174100
RM1 Ratio (A)	1.1904
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	13.31
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

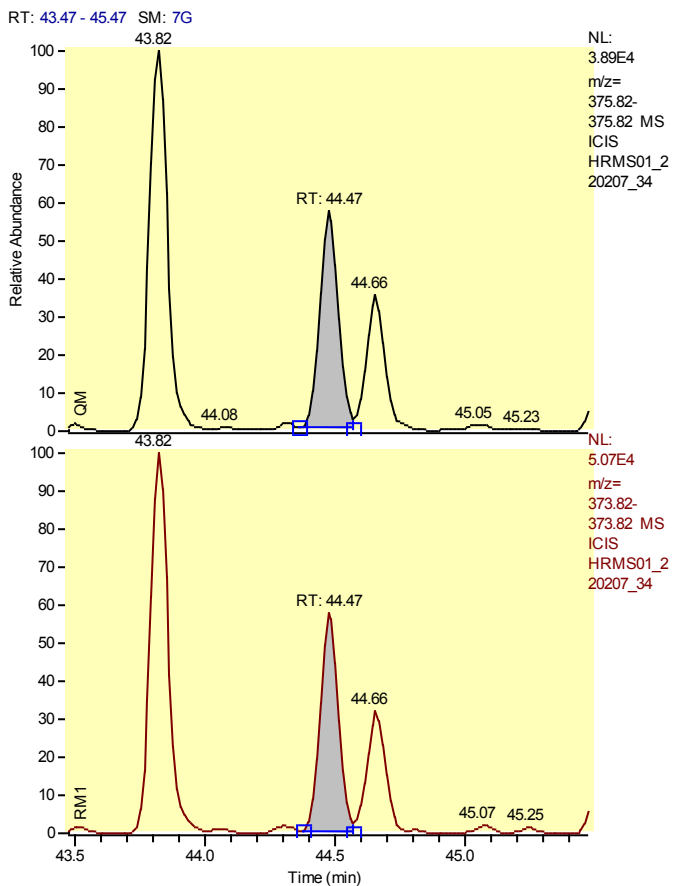
Calibration Points of Total Hexachlorodibenzofuran__3

Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

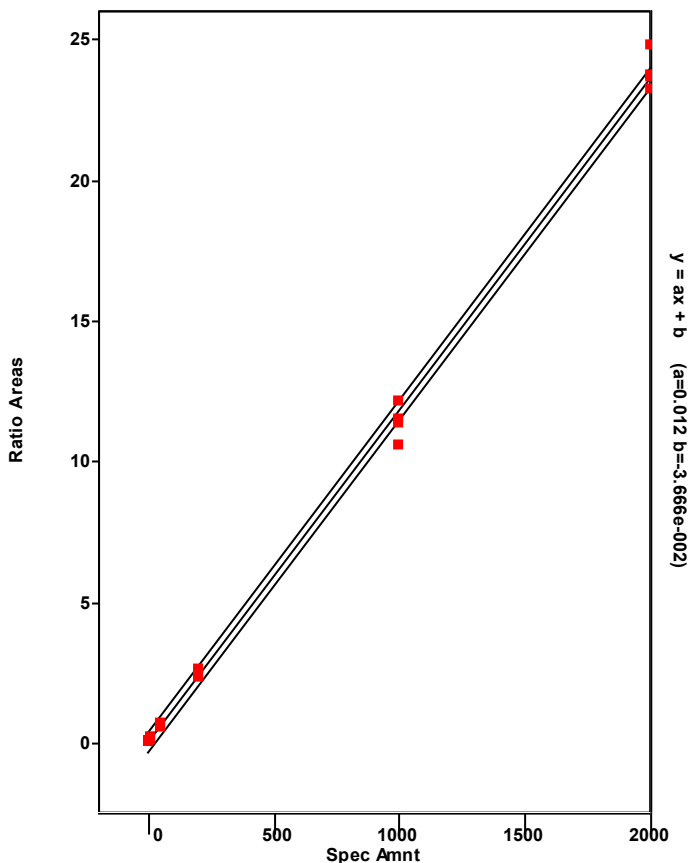
Entry Parameters



Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	110203
RM1 Area	141889
RM1 Ratio (A)	1.2875
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	10.47
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__4

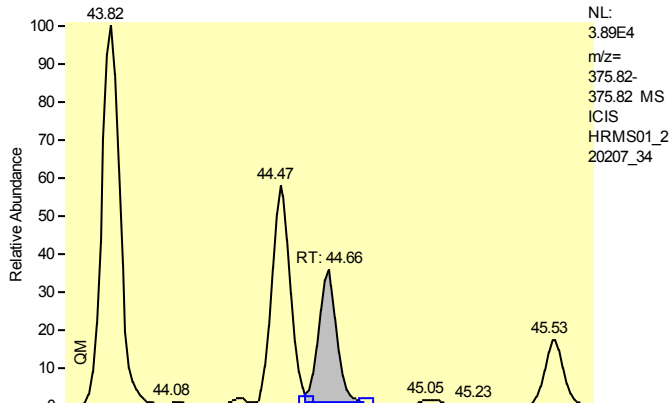
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



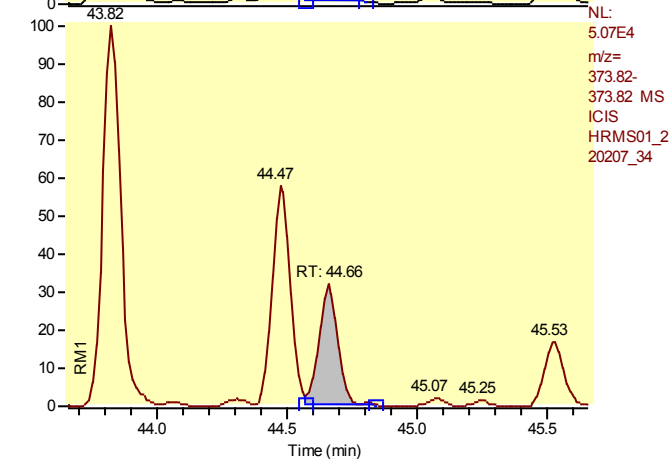
Chromatogram

Entry Parameters

RT: 43.66 - 45.66 SM: 7G

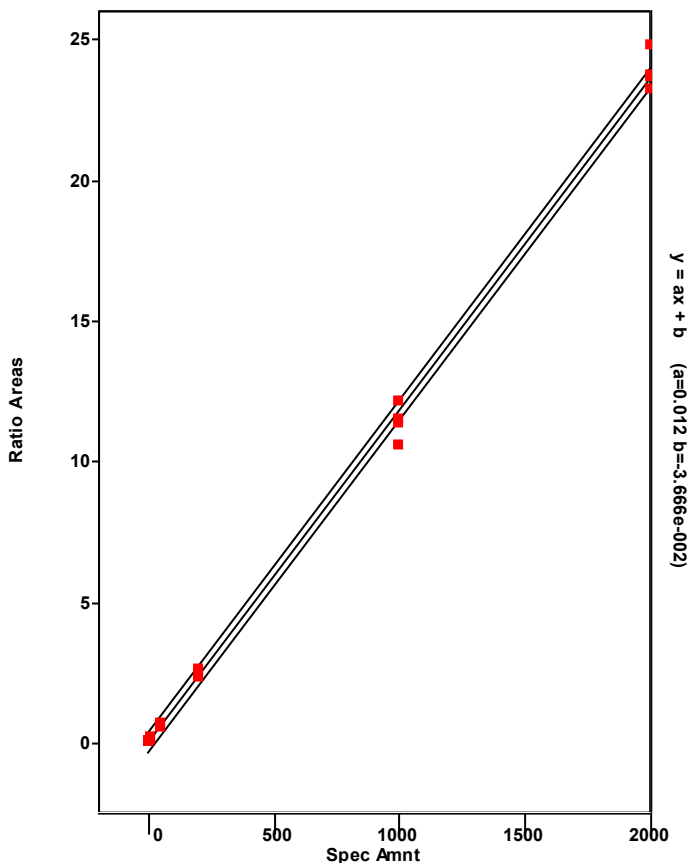


Entry Identifier	Total Hexachlorodibenzofuran__5
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	66871
RM1 Area	81254
RM1 Ratio (A)	1.2151
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__5

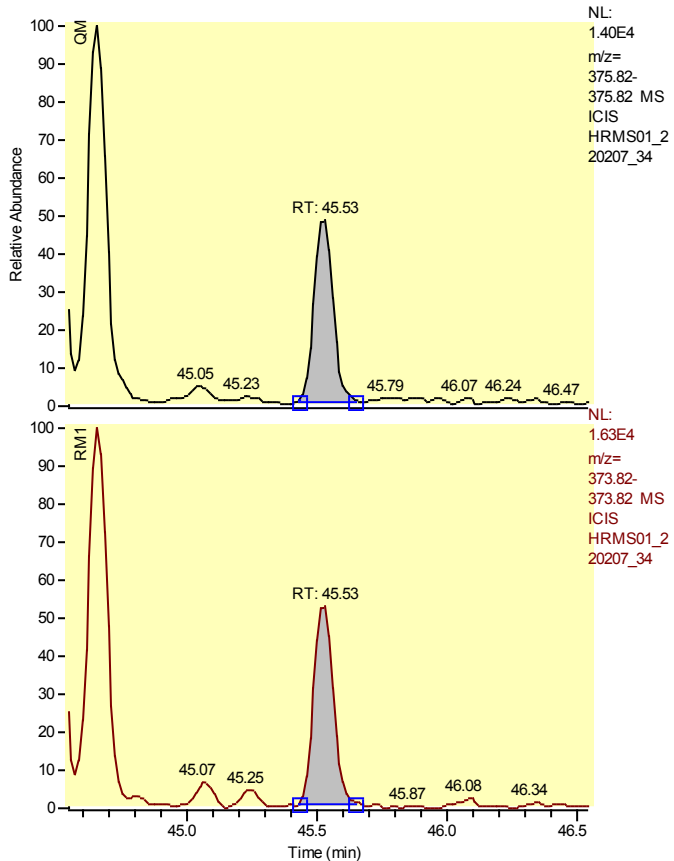
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

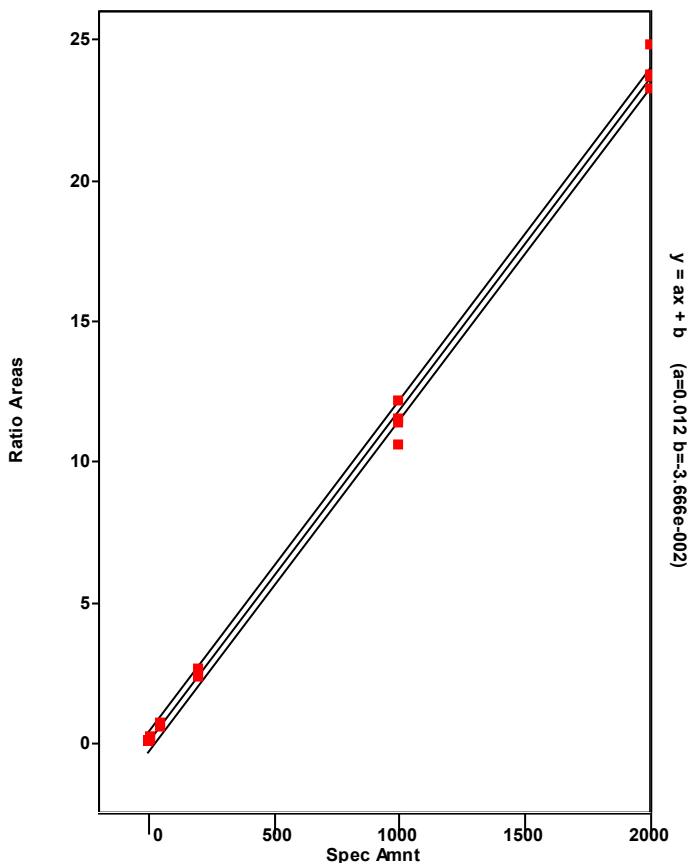
RT: 44.54 - 46.54 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__6
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	33384
RM1 Area	44105
RM1 Ratio (A)	1.3211
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	3.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__6

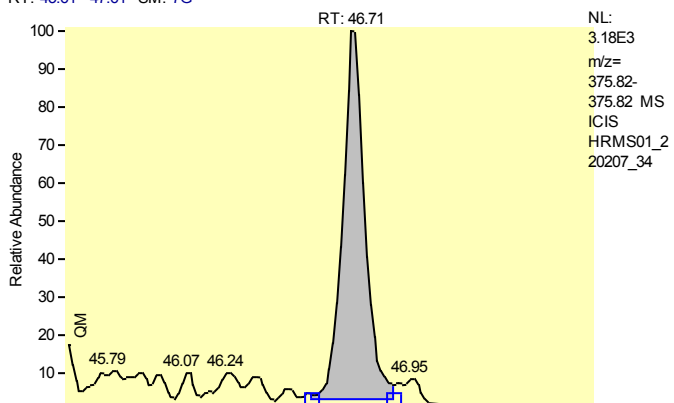
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

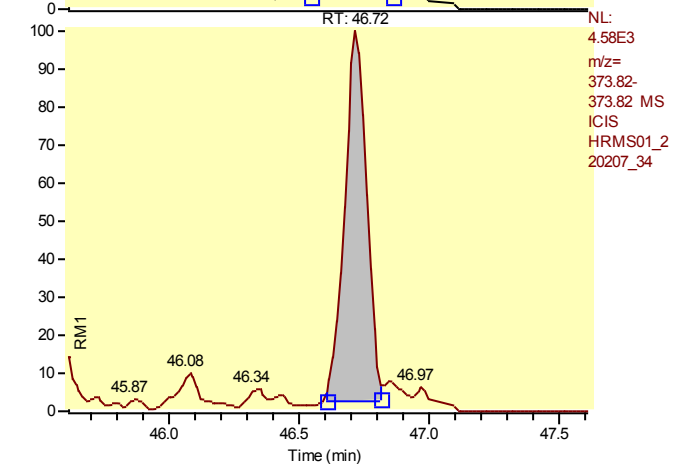
Entry Parameters

RT: 45.61 - 47.61 SM: 7G



NL:
 3.18E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_34

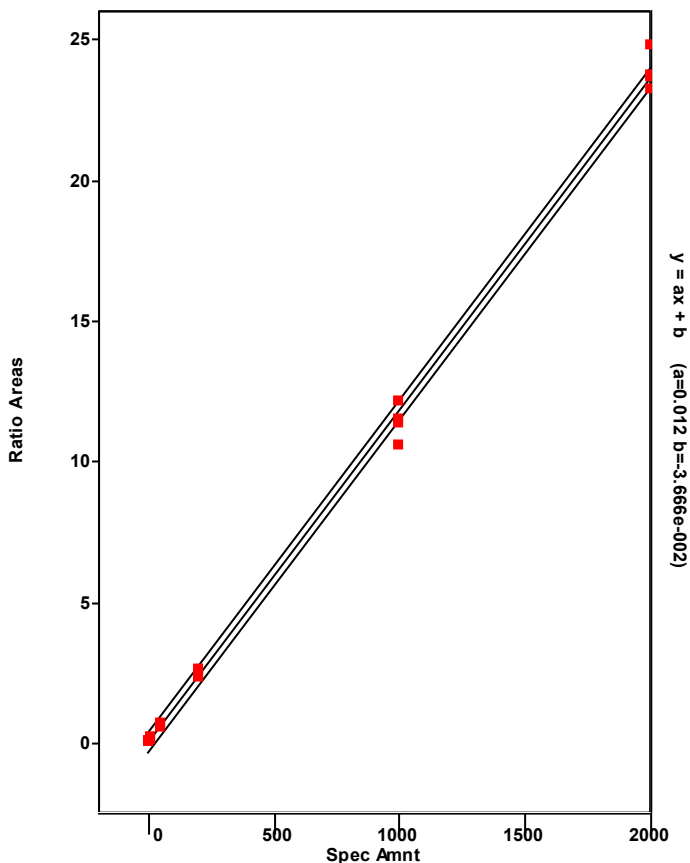
Entry Identifier	Total Hexachlorodibenzofuran__7
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	18203
RM1 Area	25773
RM1 Ratio (A)	1.4159
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.83
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 4.58E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of Total Hexachlorodibenzofuran__7

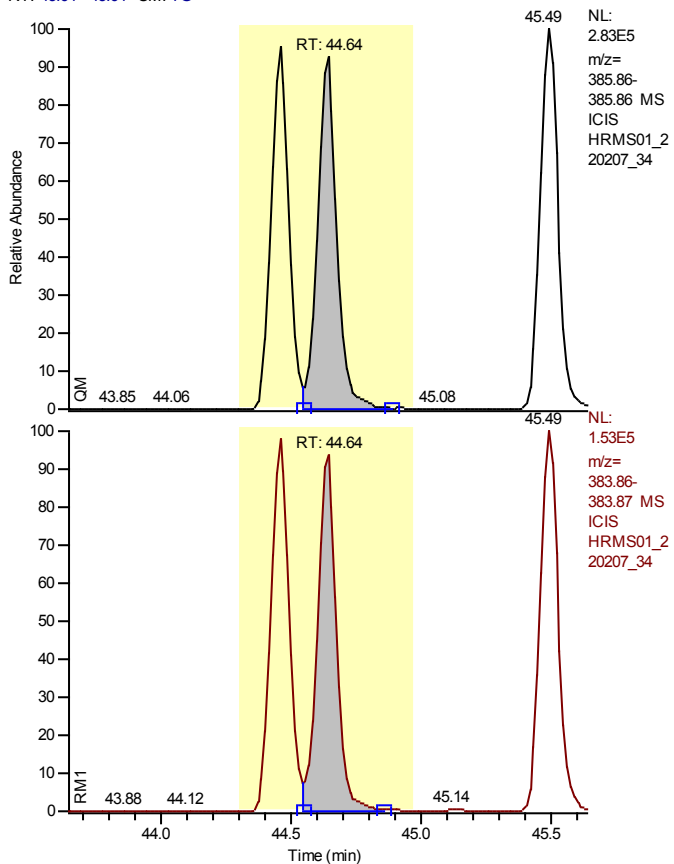
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

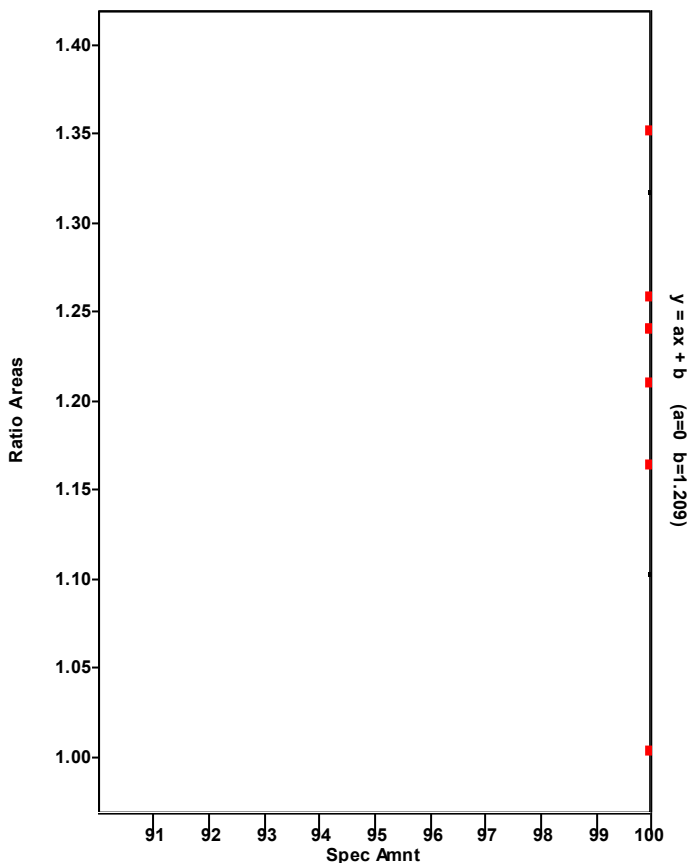
RT: 43.64 - 45.64 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1343861
RM1 Area	726215
RM1 Ratio (A)	0.5404
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	75.83
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

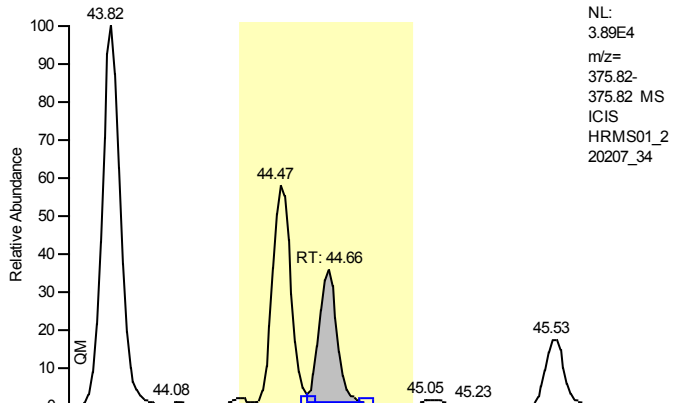
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



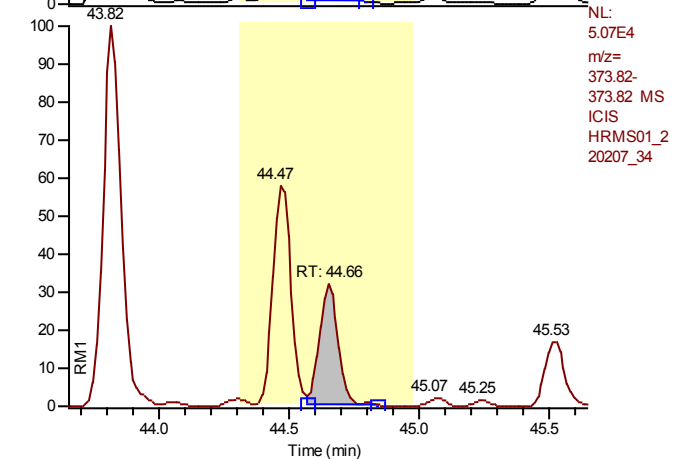
Chromatogram

Entry Parameters

RT: 43.65 - 45.65 SM: 7G

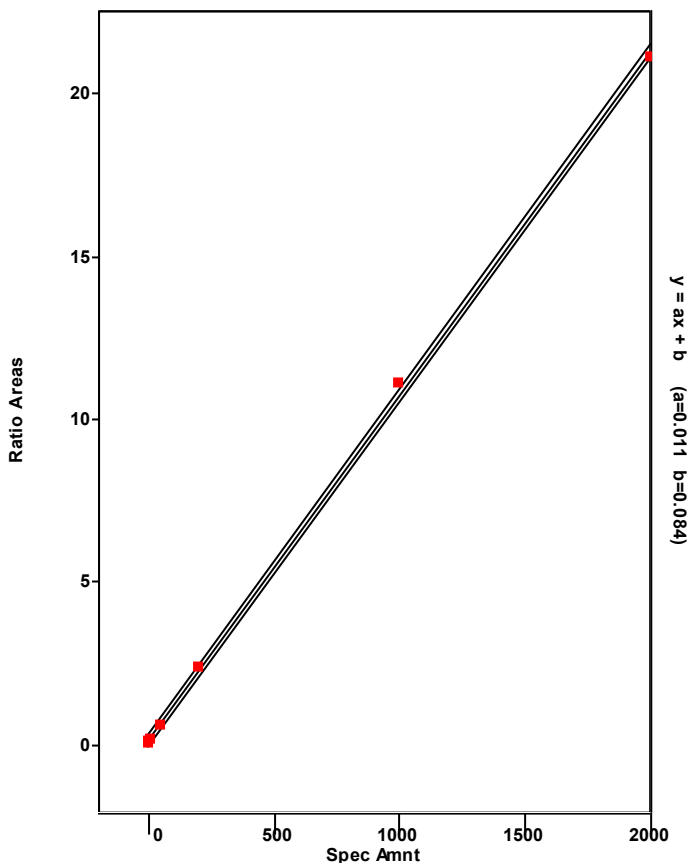


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	66871
RM1 Area	81254
RM1 Ratio (A)	1.2151
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	6.25
Percent Recovery (A)	---
TEQ (A)	0.6255
Label2	



Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

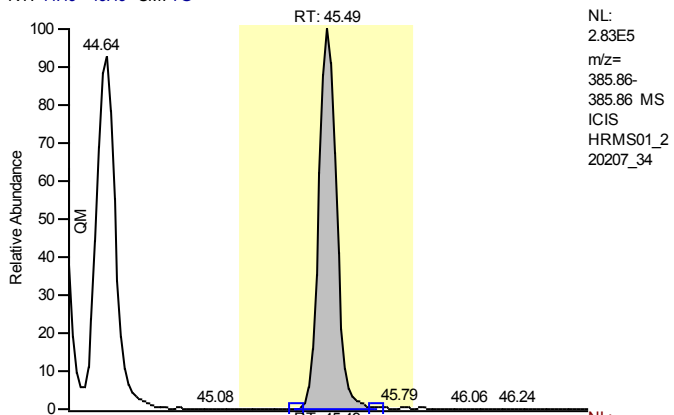
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

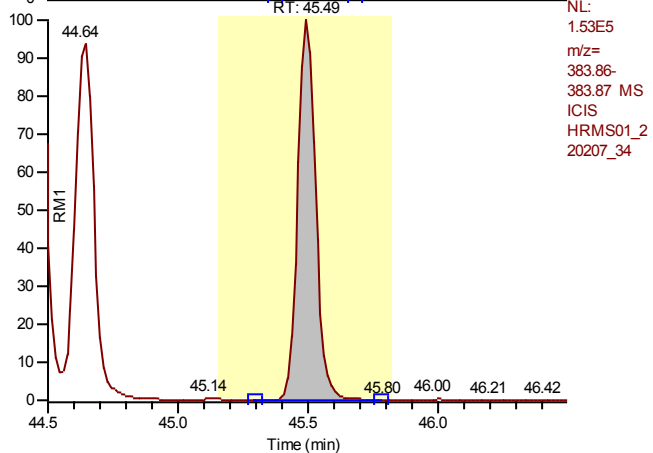
Entry Parameters

RT: 44.49 - 46.49 SM: 7G



NL:
 2.83E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_34

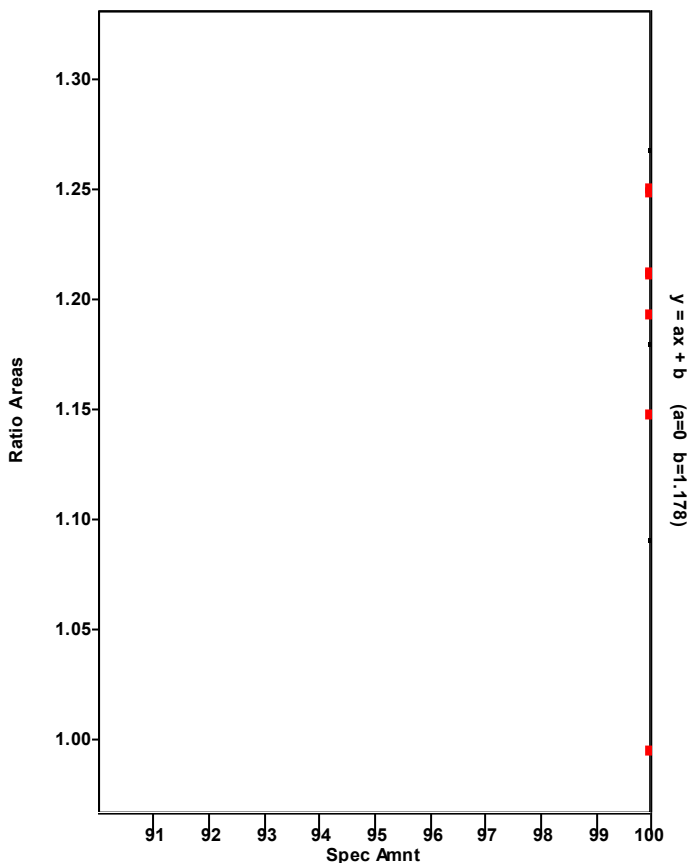
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1338531
RM1 Area	739394
RM1 Ratio (A)	0.5524
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	78.10
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	



NL:
 1.53E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

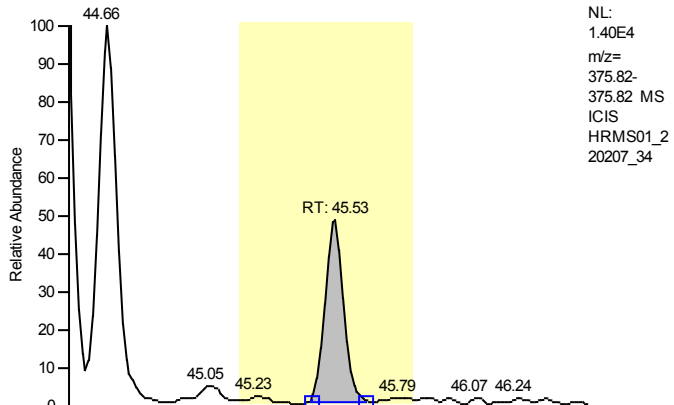
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



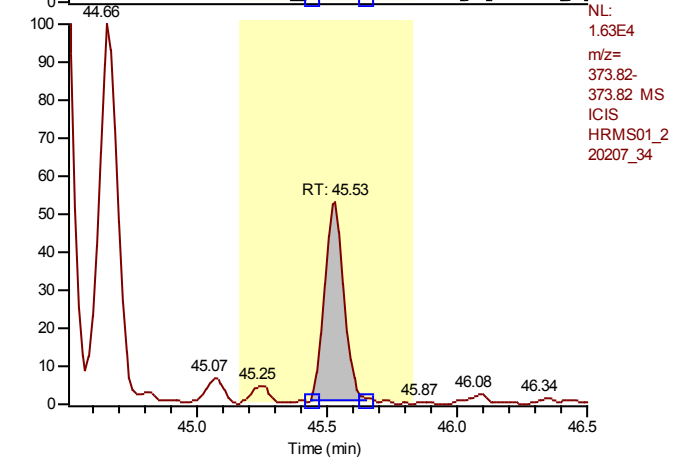
Chromatogram

Entry Parameters

RT: 44.50 - 46.50 SM: 7G

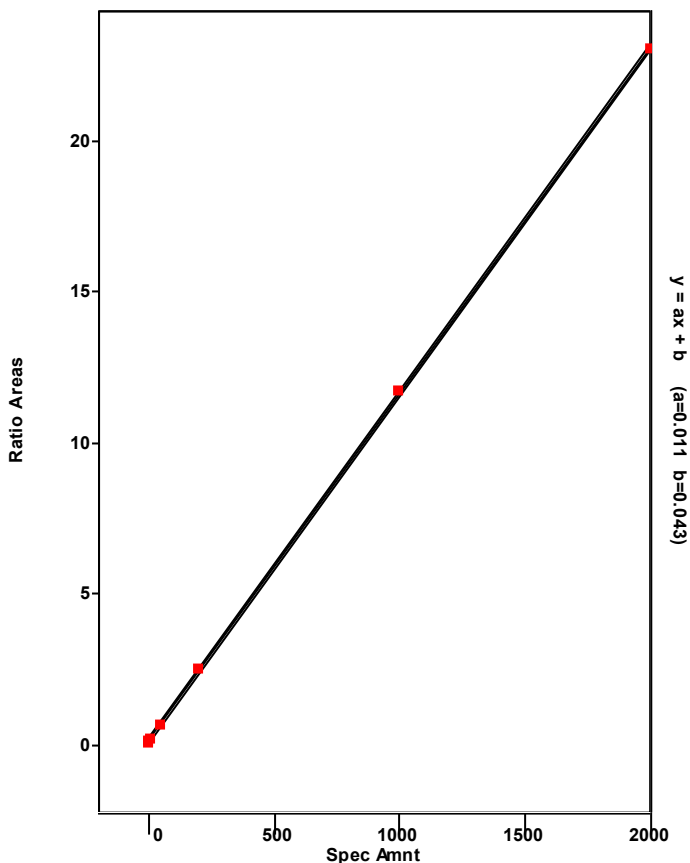


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	33384
RM1 Area	44105
RM1 Ratio (A)	1.3211
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	3.13
Percent Recovery (A)	---
TEQ (A)	0.3125
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

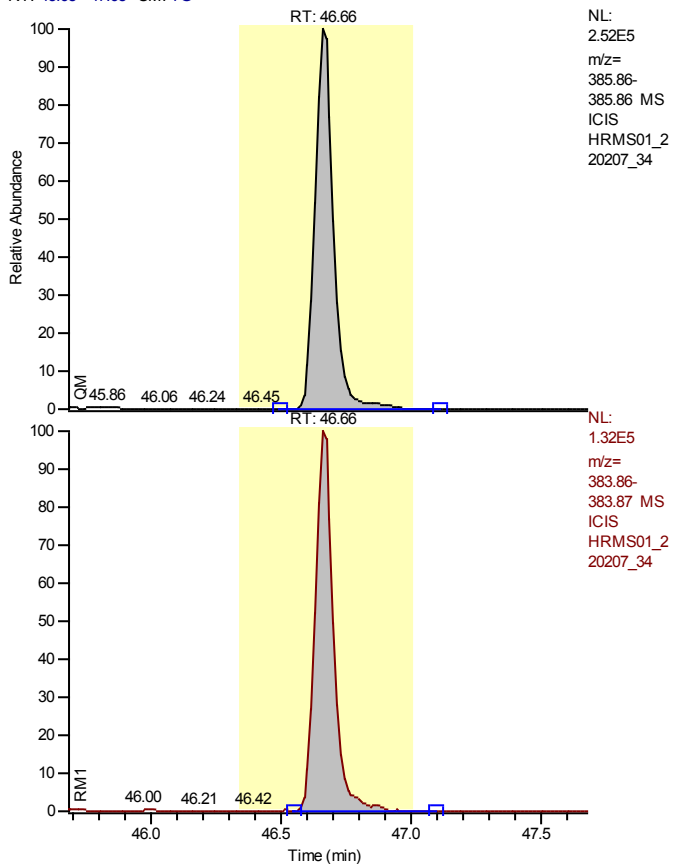
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.68 - 47.68 SM: 7G



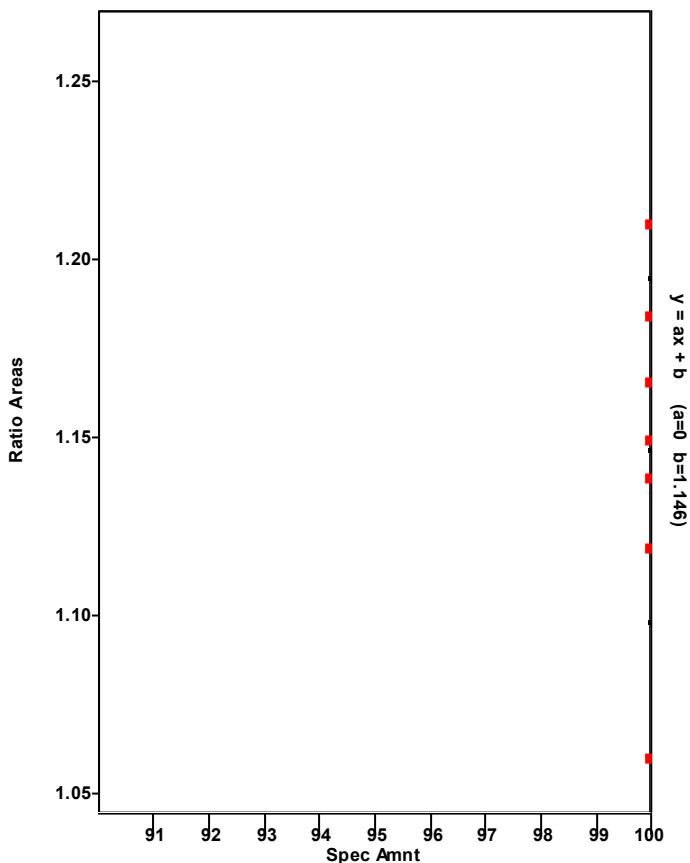
NL:
 2.52E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 1.32E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1263232
RM1 Area	657760
RM1 Ratio (A)	0.5207
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	74.22
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

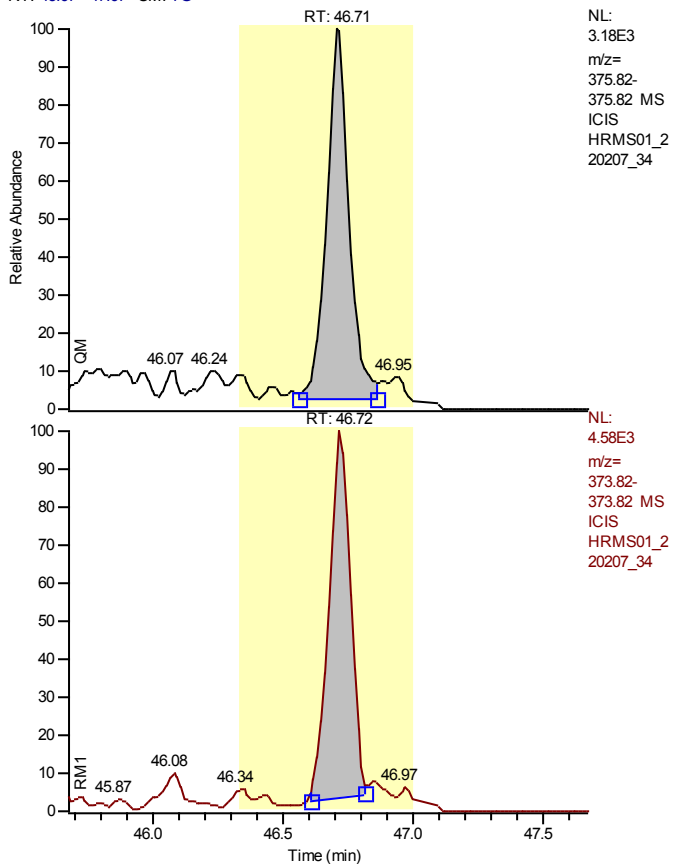
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G



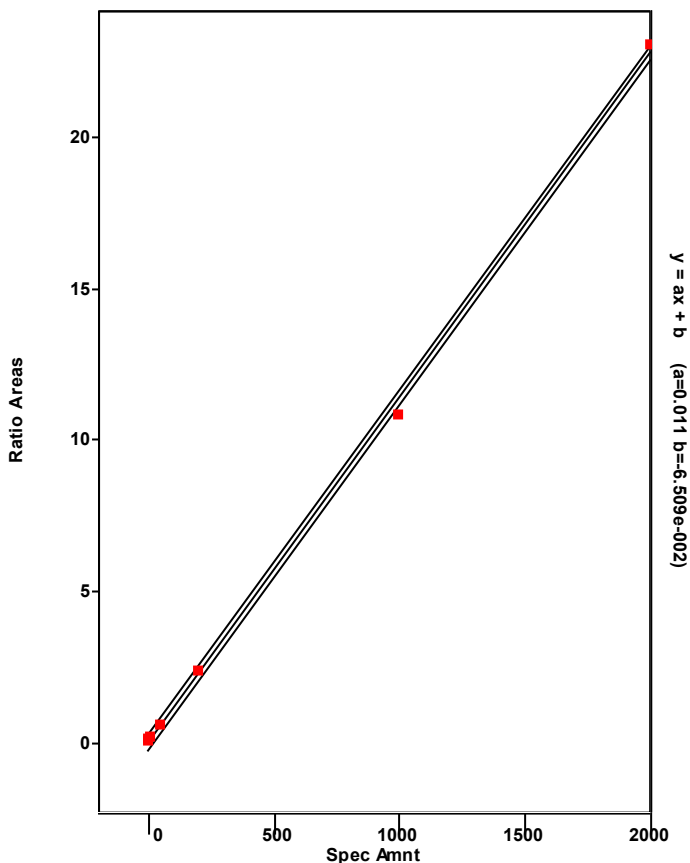
NL:
 3.18E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 4.58E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	18541
RM1 Area	25457
RM1 Ratio (A)	1.3730
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

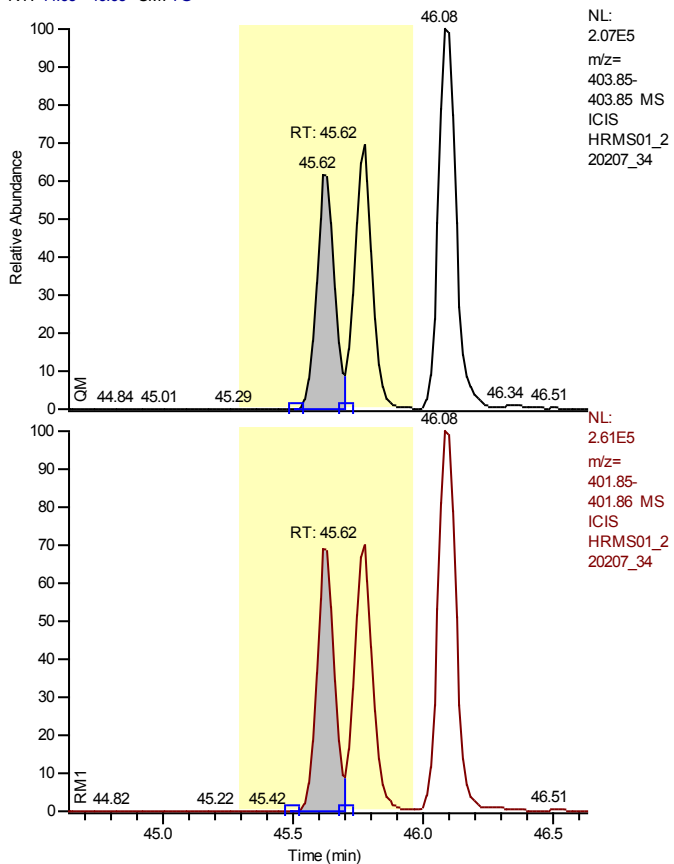
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

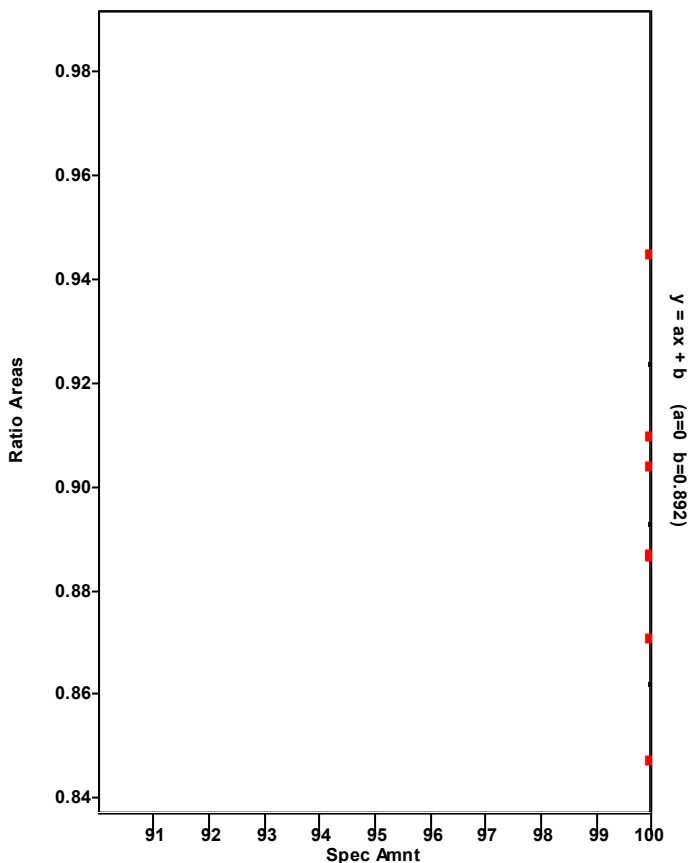
RT: 44.63 - 46.63 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	613893
RM1 Area	844134
RM1 Ratio (A)	1.3751
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	72.33
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

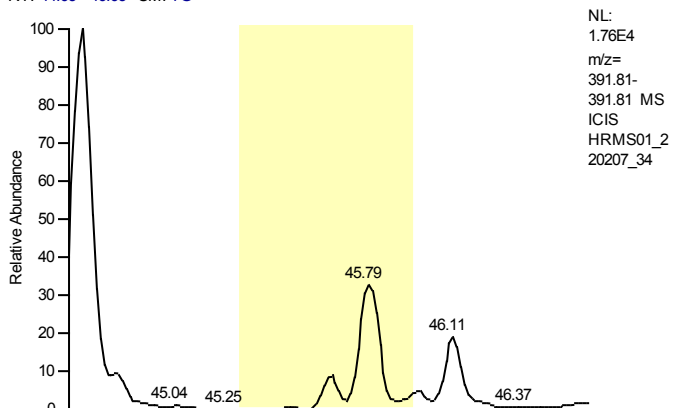
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



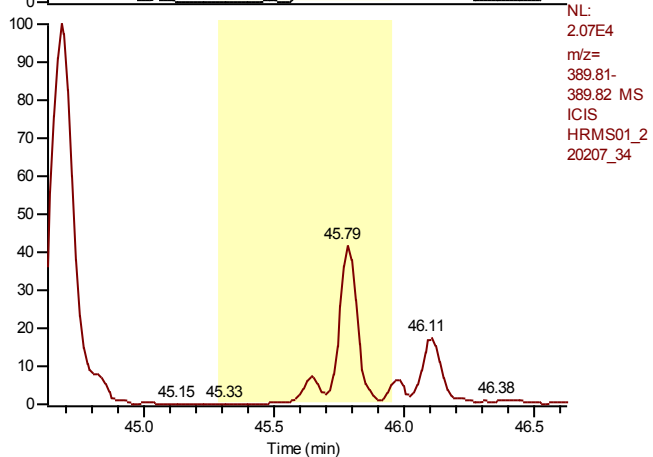
Chromatogram

Entry Parameters

RT: 44.63 - 46.63 SM: 7G

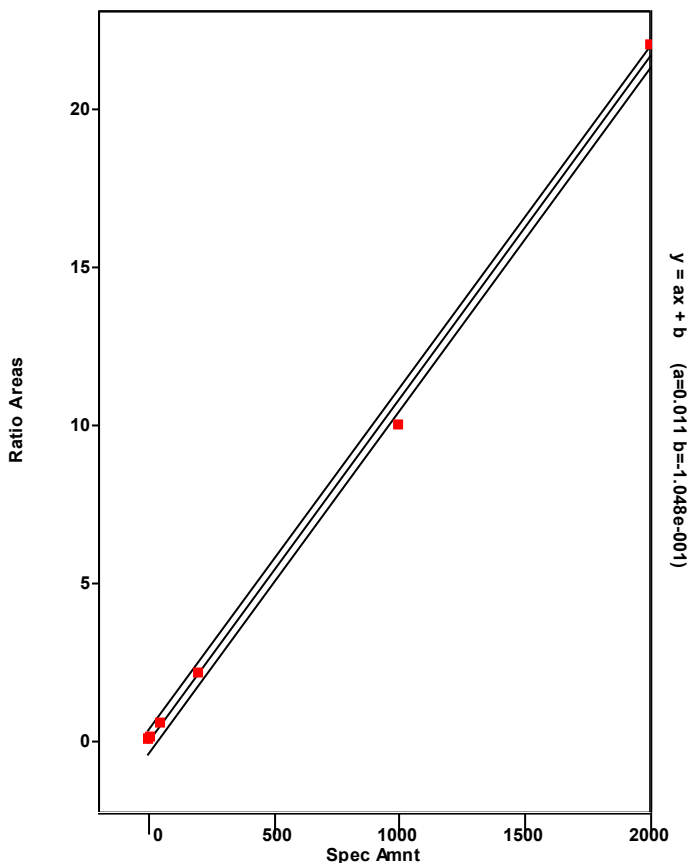


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



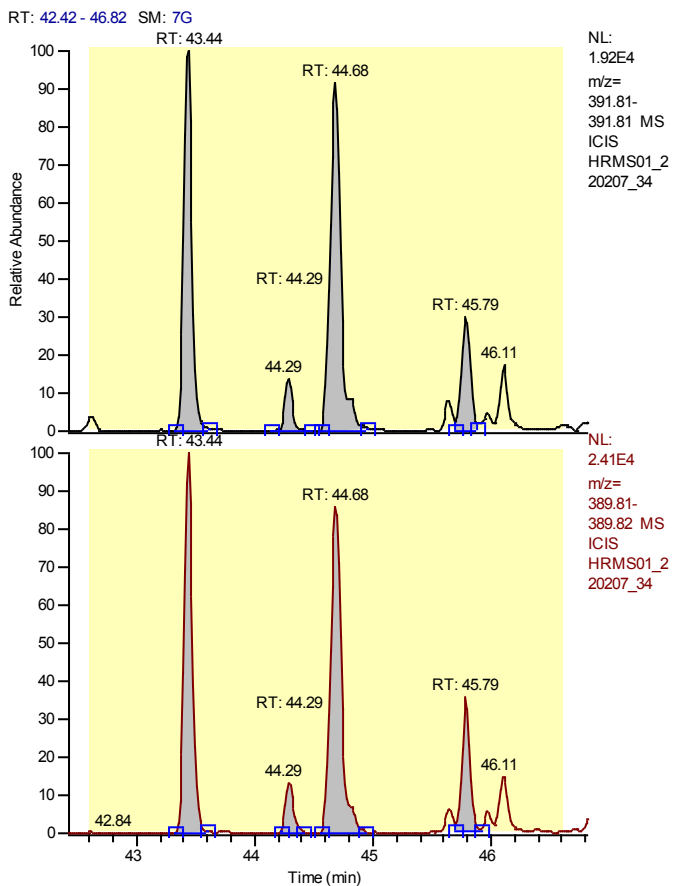
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

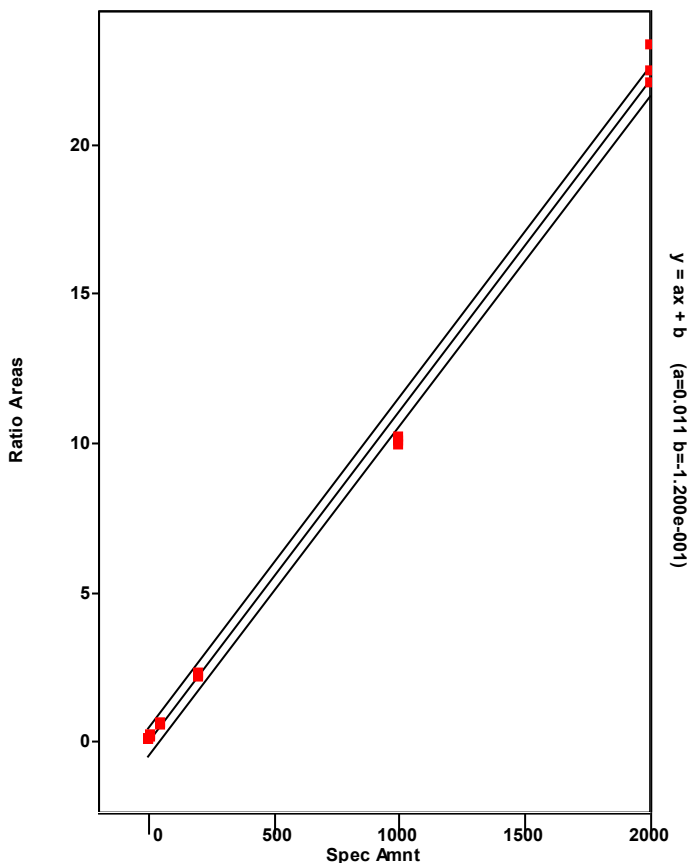
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	245857
RM1 Area	306034
RM1 Ratio (A)	1.2448
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	34.77
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin

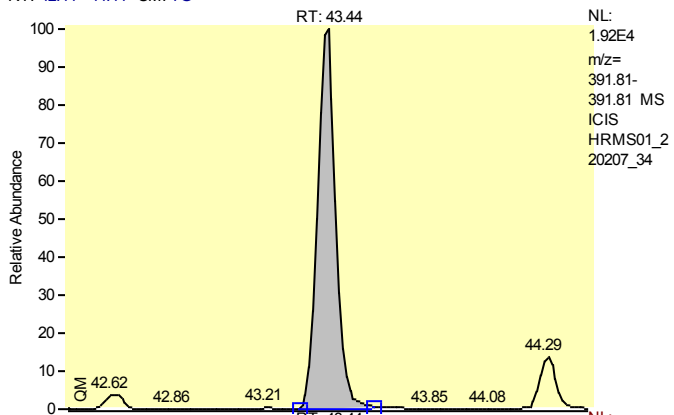
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

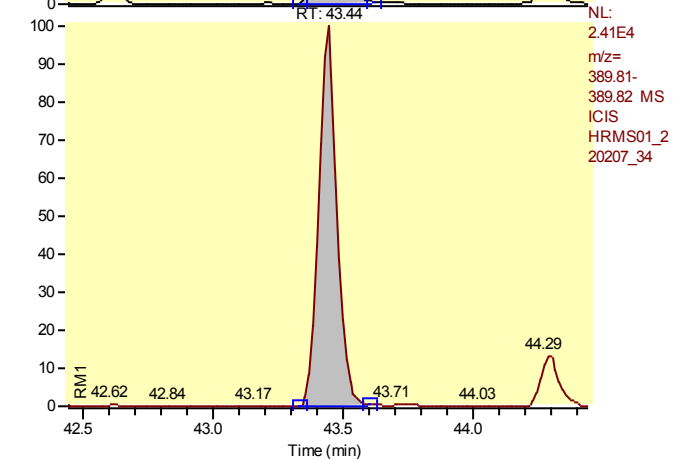
Entry Parameters

RT: 42.44 - 44.44 SM: 7G



NL:
 1.92E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_34

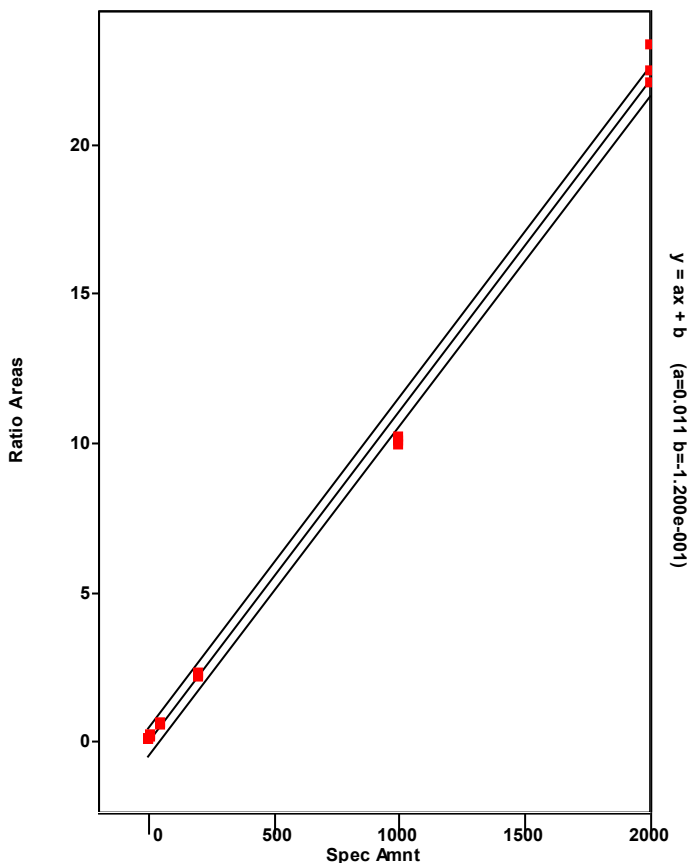
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	92278
RM1 Area	116410
RM1 Ratio (A)	1.2615
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	13.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 2.41E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

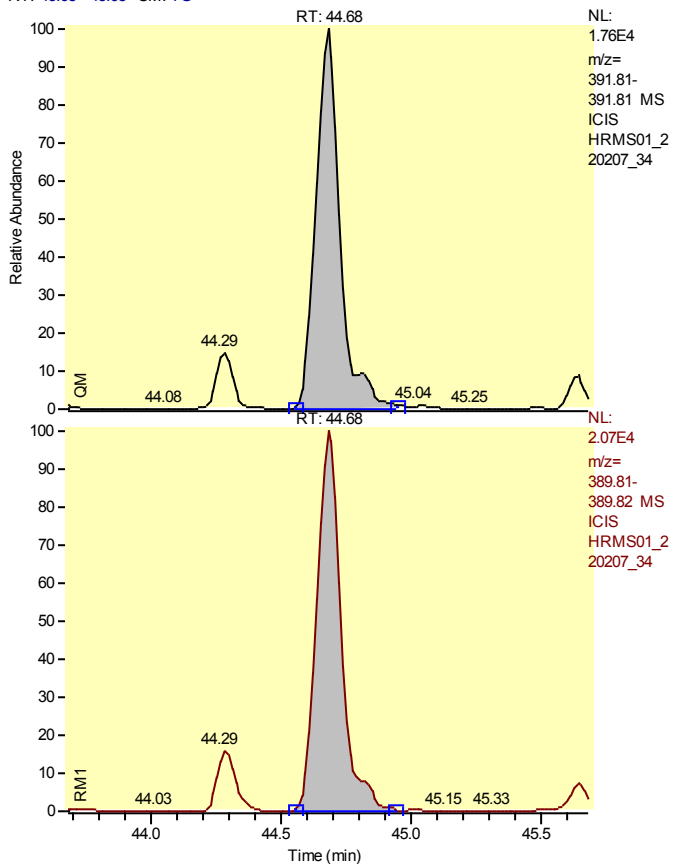
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

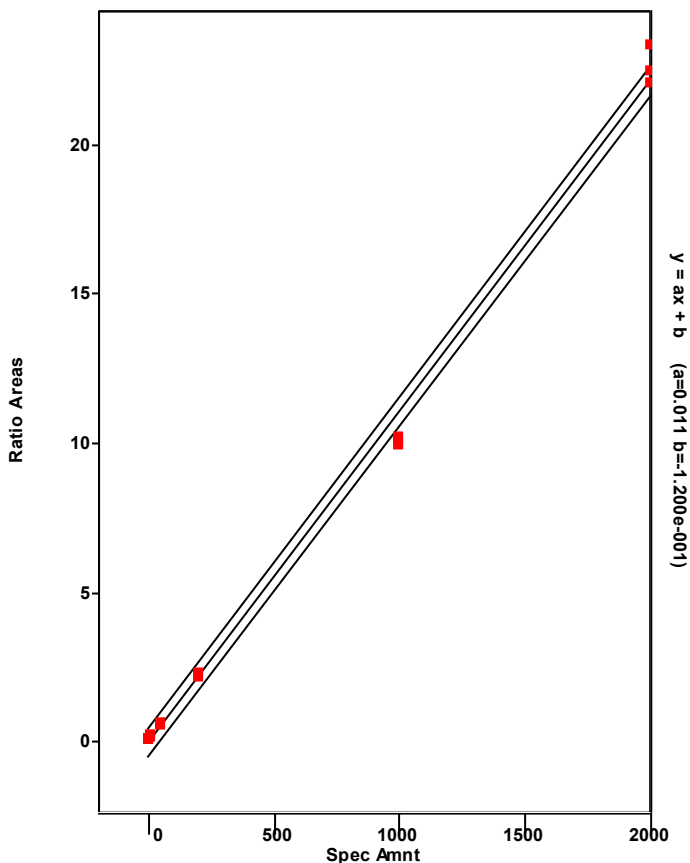
RT: 43.68 - 45.68 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	111223
RM1 Area	134240
RM1 Ratio (A)	1.2069
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	15.46
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

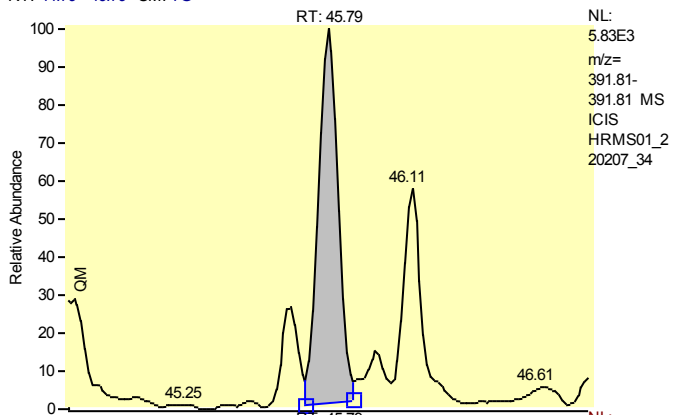
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

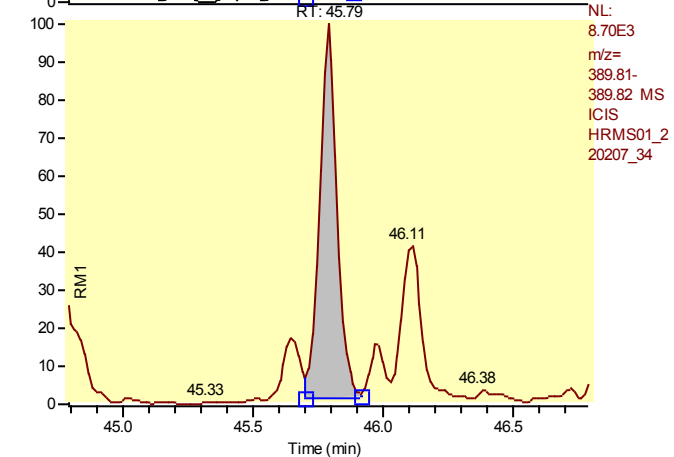
Entry Parameters

RT: 44.79 - 46.79 SM: 7G



NL:
 5.83E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_34

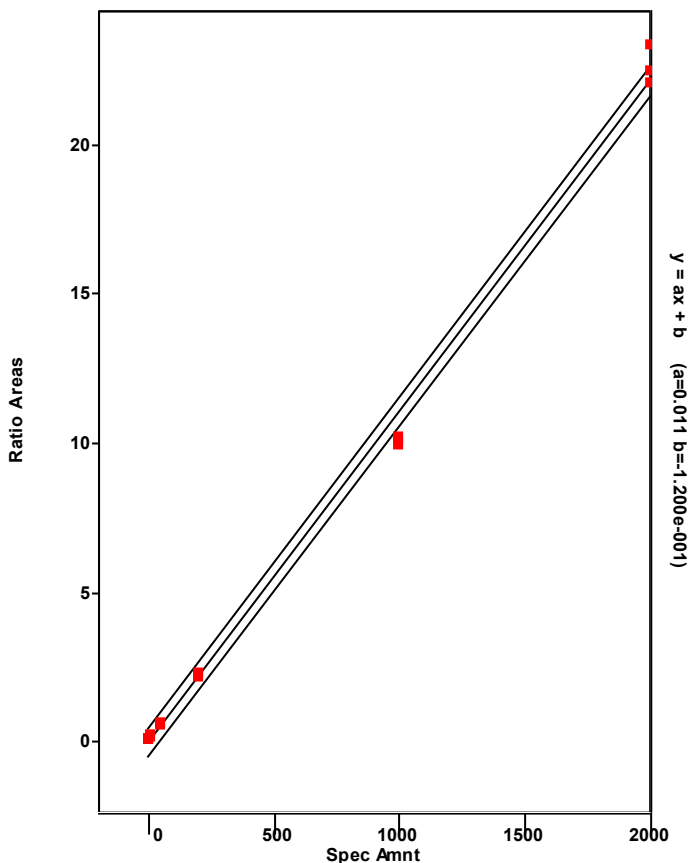
Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	30160
RM1 Area	39793
RM1 Ratio (A)	1.3194
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.41
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 8.70E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

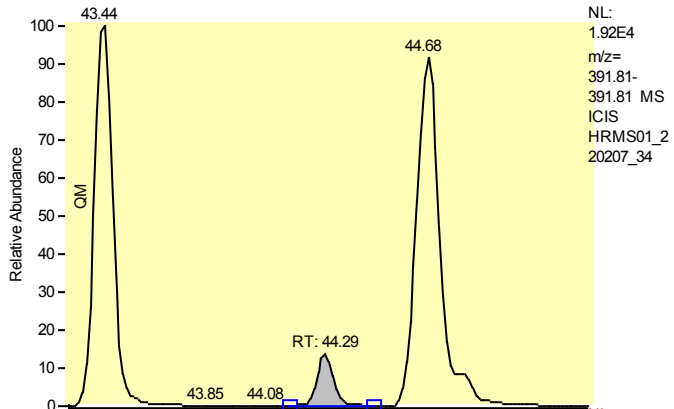
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



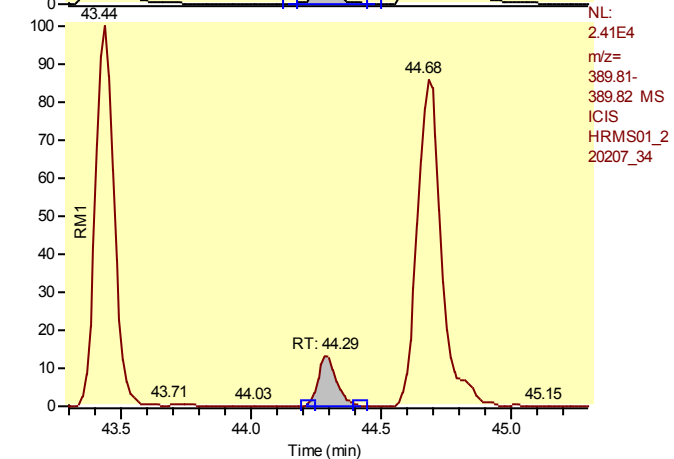
Chromatogram

Entry Parameters

RT: 43.30 - 45.30 SM: 7G

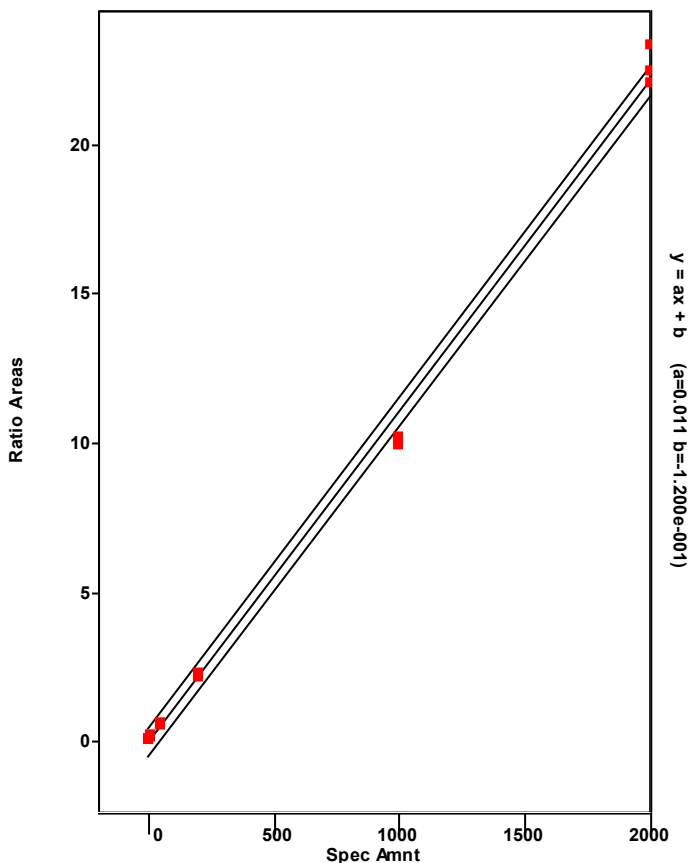


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__4
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	12196
RM1 Area	15591
RM1 Ratio (A)	1.2784
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.75
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzo-p-dioxin__4

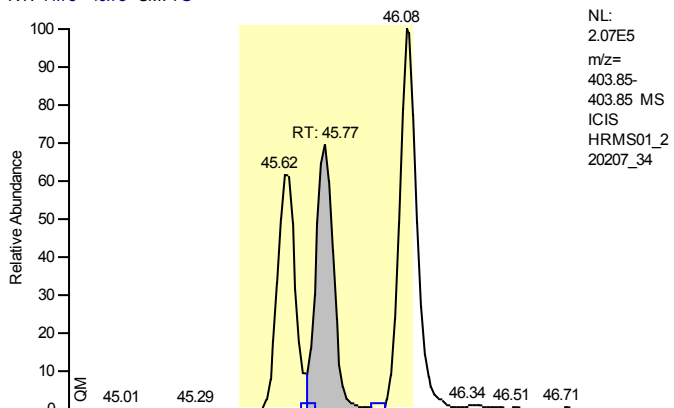
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

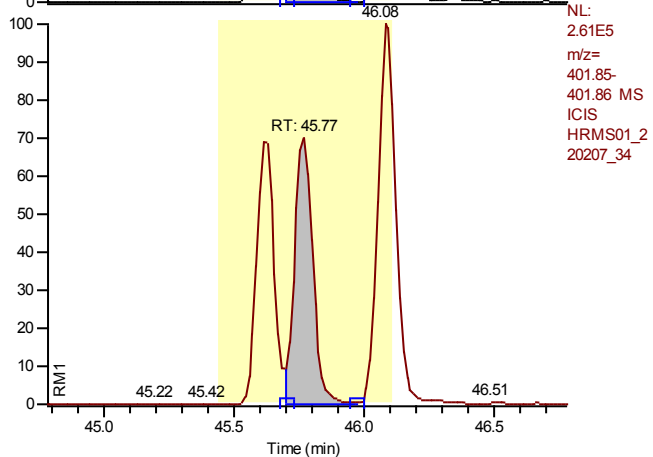
Entry Parameters

RT: 44.78 - 46.78 SM: 7G



NL:
 2.07E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_34

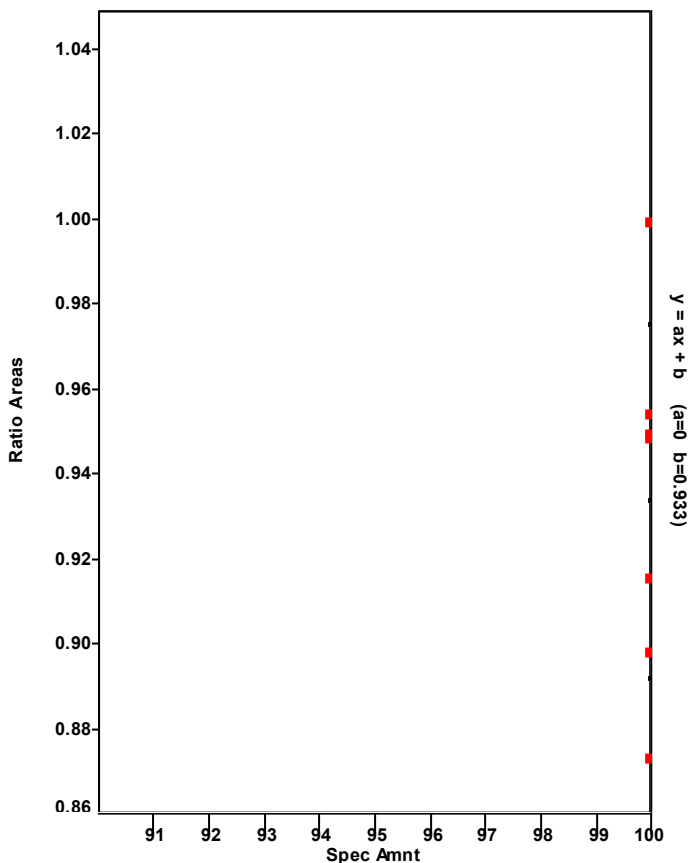
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	679790
RM1 Area	897355
RM1 Ratio (A)	1.3200
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	74.81
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	



NL:
 2.61E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

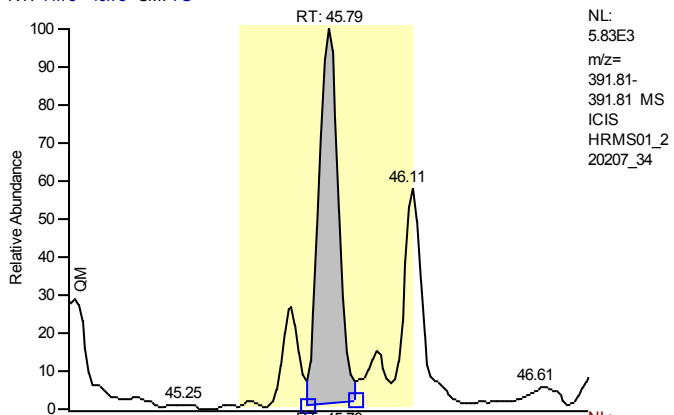
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

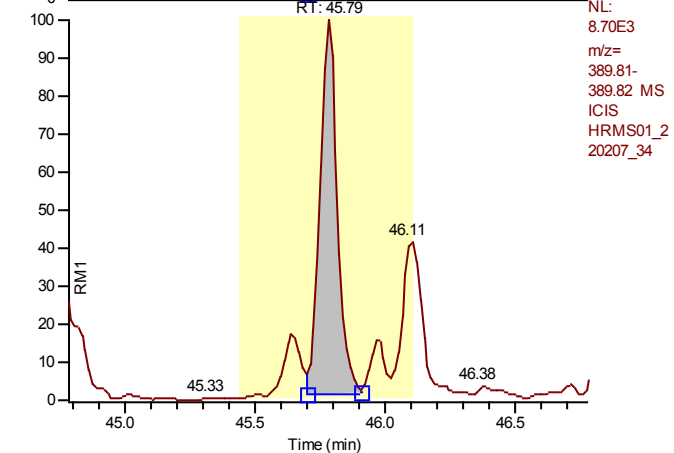
Entry Parameters

RT: 44.78 - 46.78 SM: 7G



NL:
 5.83E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_34

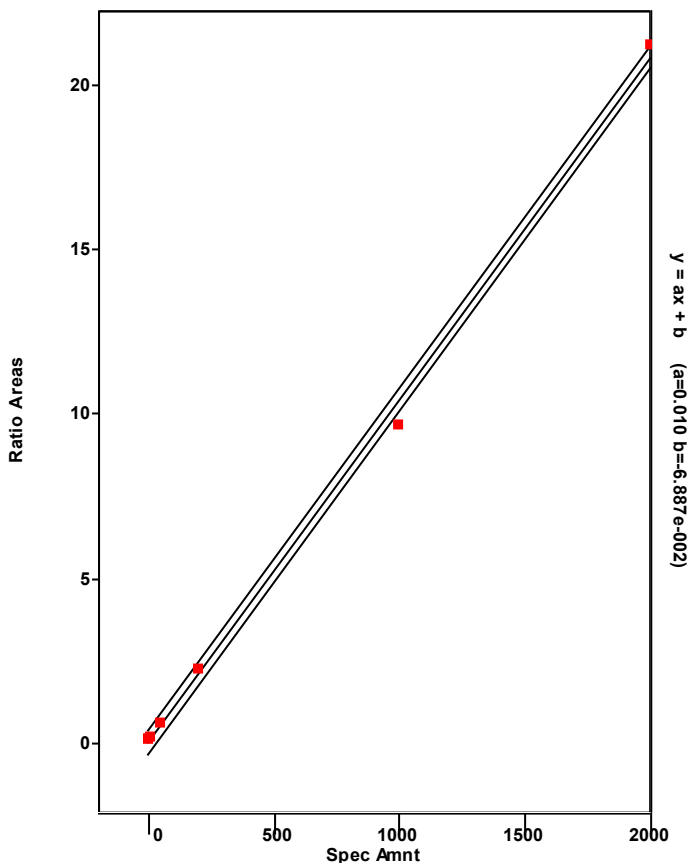
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	30160
RM1 Area	39793
RM1 Ratio (A)	1.3194
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.18
Percent Recovery (A)	---
TEQ (A)	0.4175
Label2	



NL:
 8.70E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_34

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

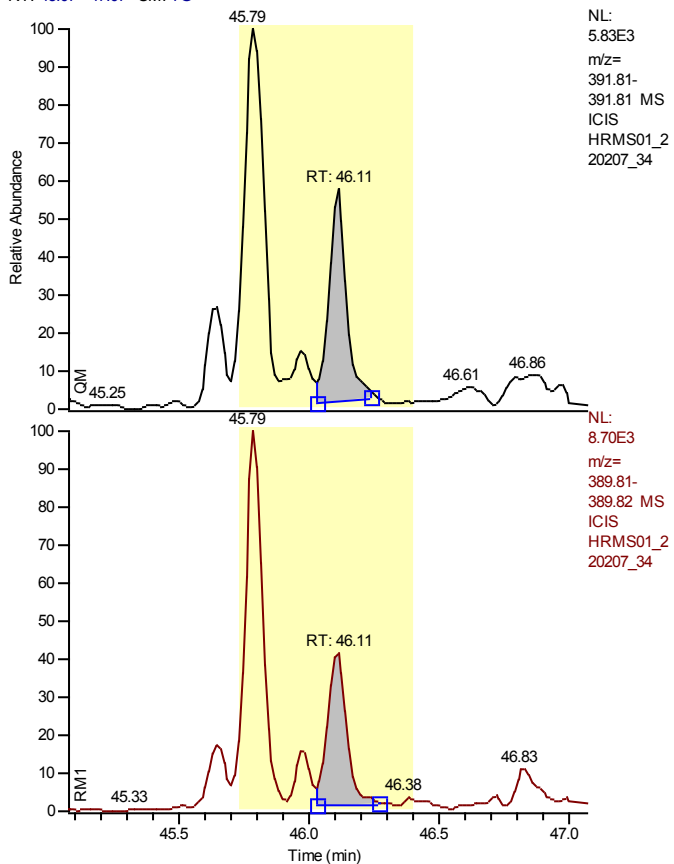
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

RT: 45.07 - 47.07 SM: 7G



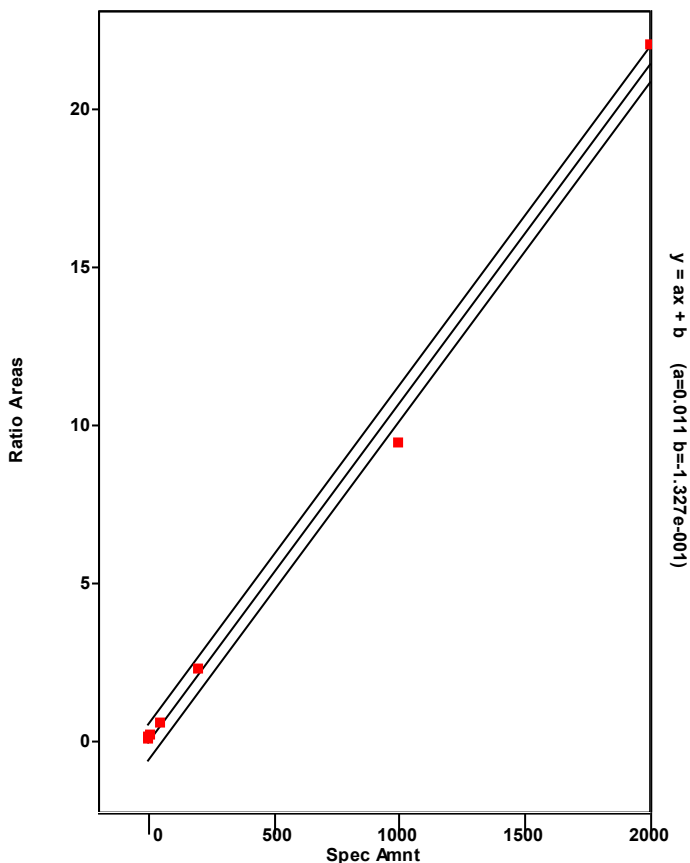
NL:
 5.83E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 8.70E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	15207
RM1 Area	17996
RM1 Ratio (A)	1.1834
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.98
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

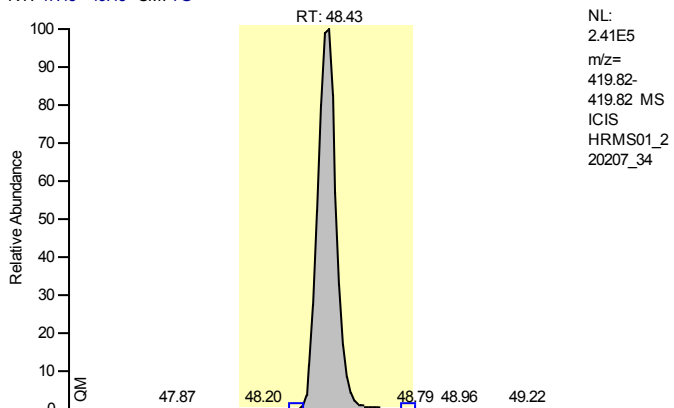
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



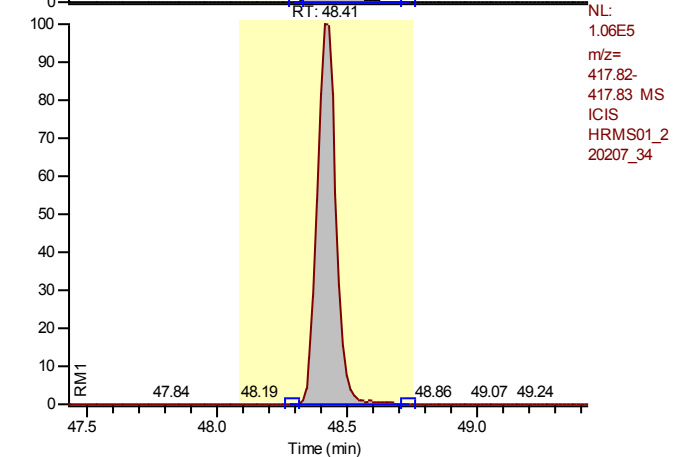
Chromatogram

Entry Parameters

RT: 47.43 - 49.43 SM: 7G

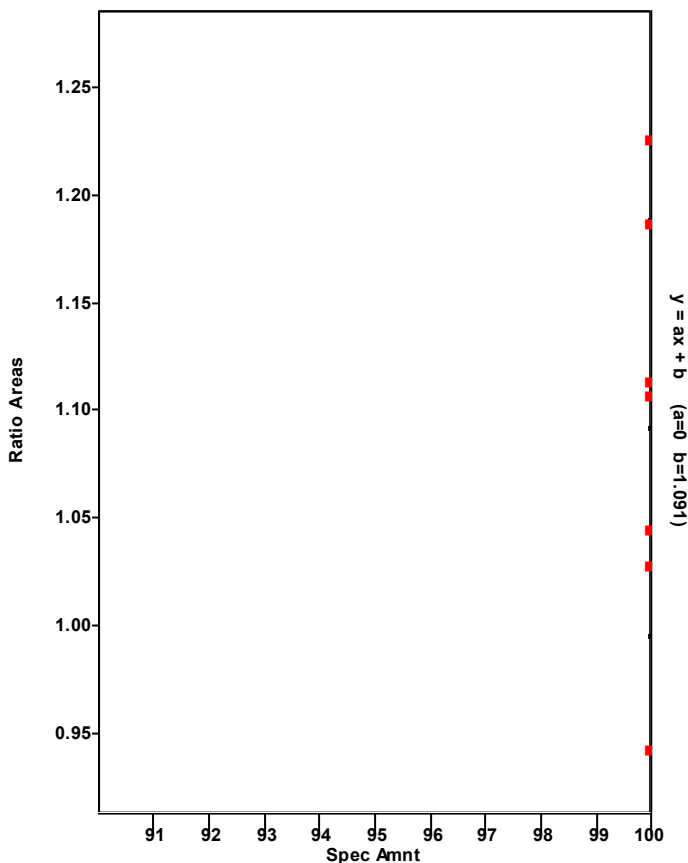


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1217874
RM1 Area	537762
RM1 Ratio (A)	0.4416
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	71.27
Percent Recovery (A)	71
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

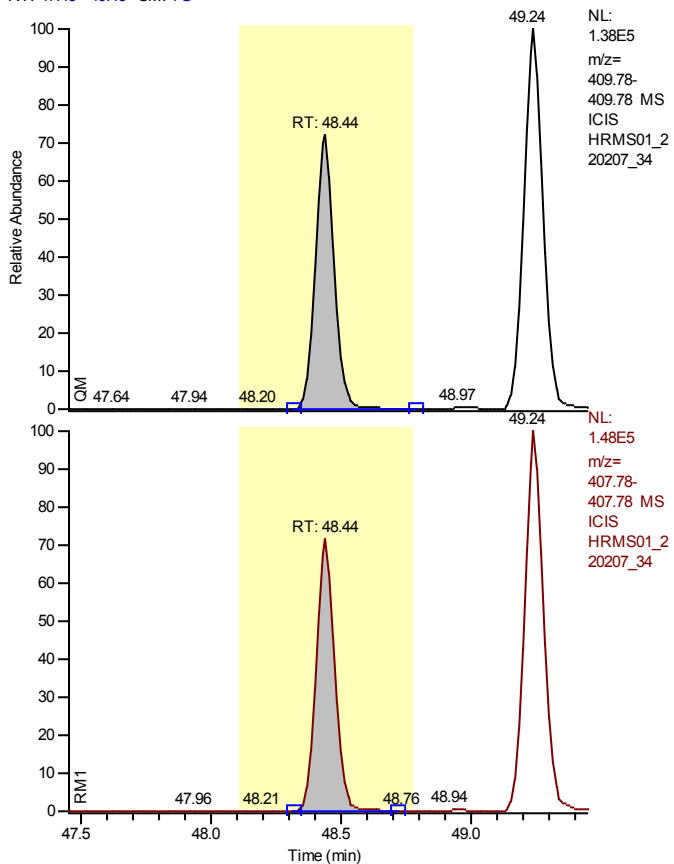
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

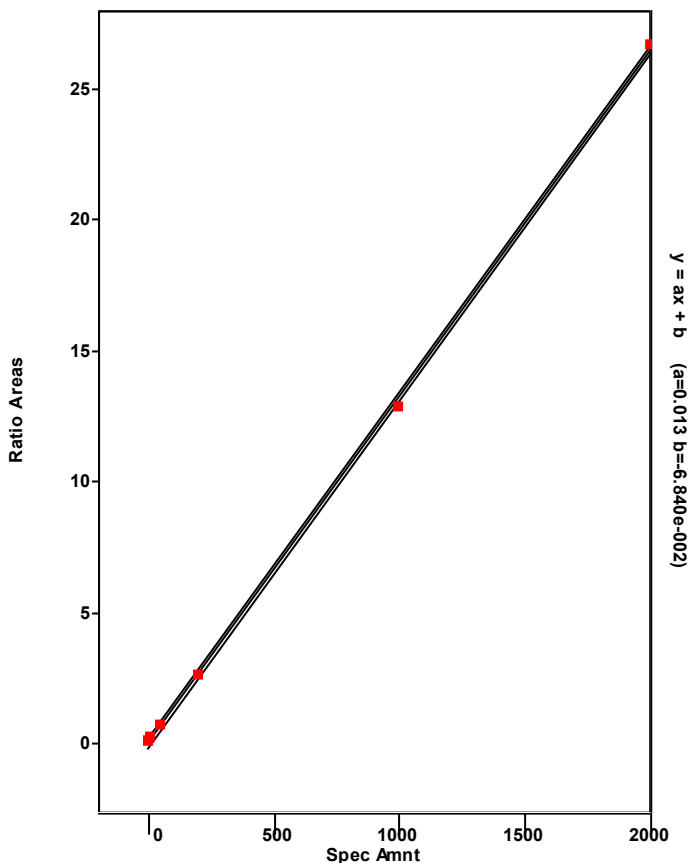
RT: 47.45 - 49.45 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	505430
RM1 Area	532682
RM1 Ratio (A)	1.0539
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	45.97
Percent Recovery (A)	---
TEQ (A)	0.4597
Label2	

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

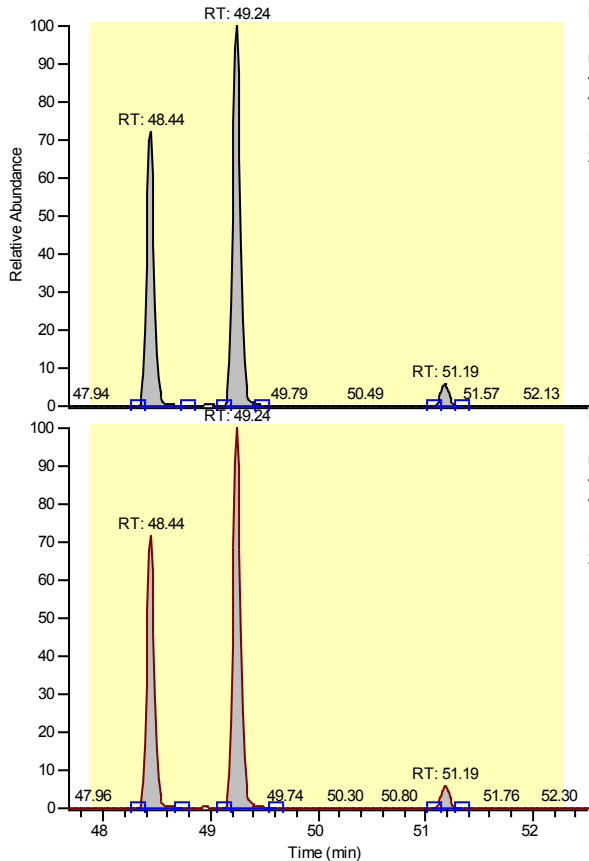
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

Entry Parameters

RT: 47.67 - 52.51 SM: 7G



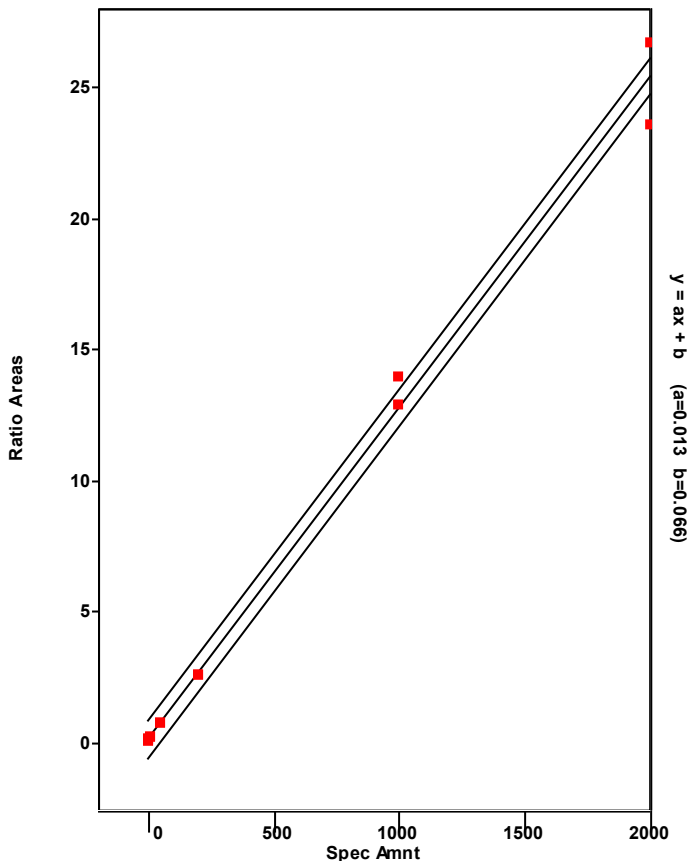
NL:
 1.38E5
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 1.48E5
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	1264312
RM1 Area	1334154
RM1 Ratio (A)	1.0552
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	118.28
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran

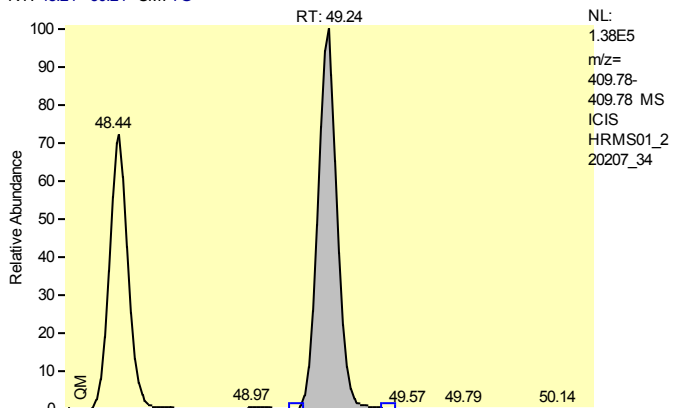
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



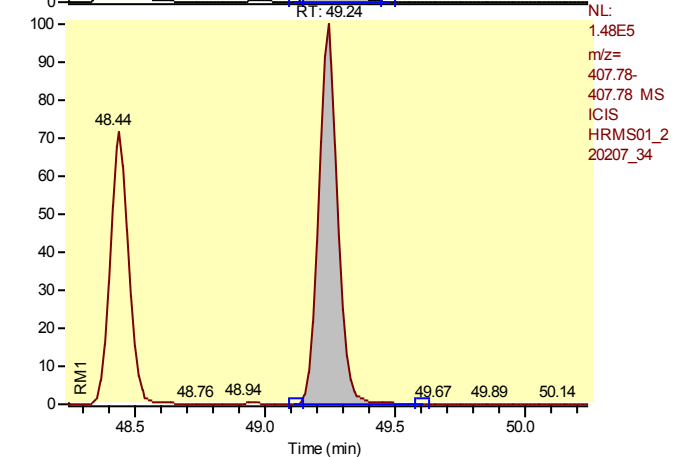
Chromatogram

Entry Parameters

RT: 48.24 - 50.24 SM: 7G

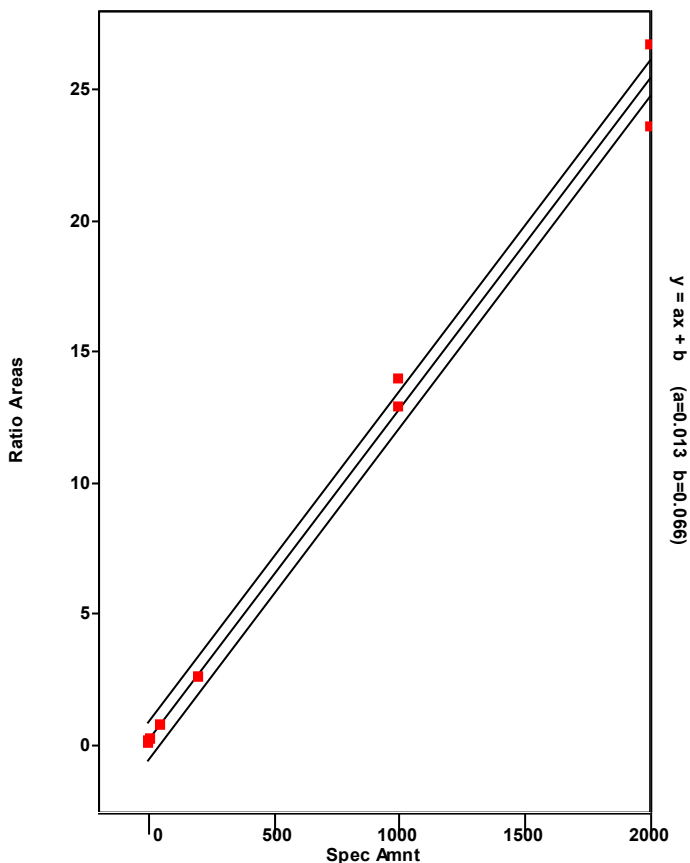


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	713292
RM1 Area	753879
RM1 Ratio (A)	1.0569
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	66.78
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran__1

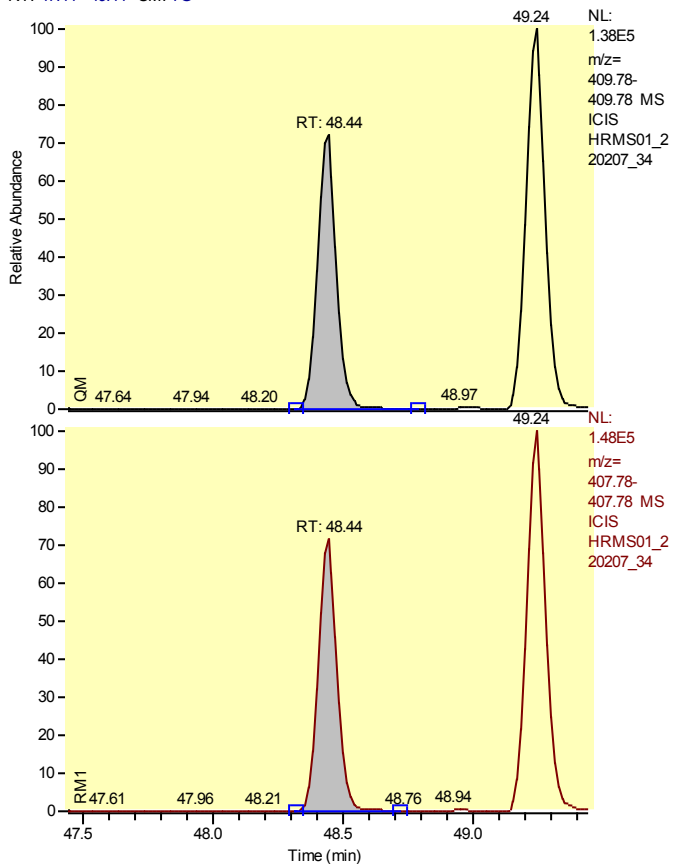
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

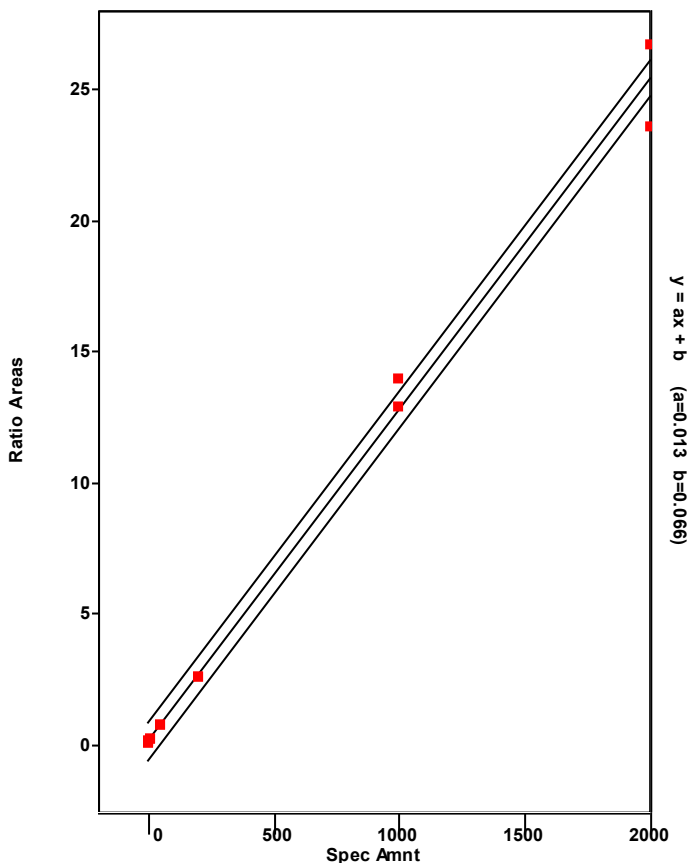
RT: 47.44 - 49.44 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	505430
RM1 Area	532682
RM1 Ratio (A)	1.0539
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	47.25
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__2

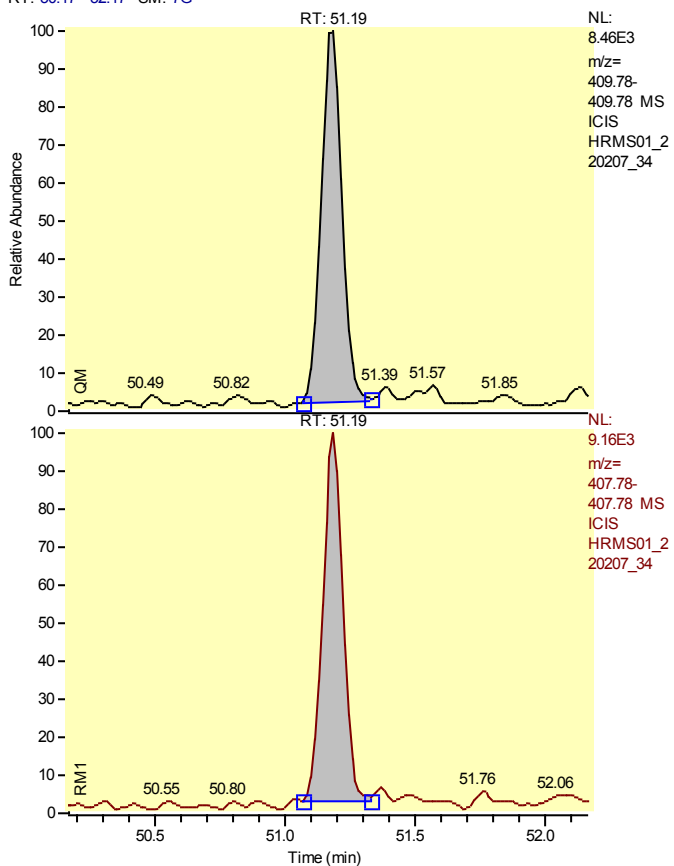
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

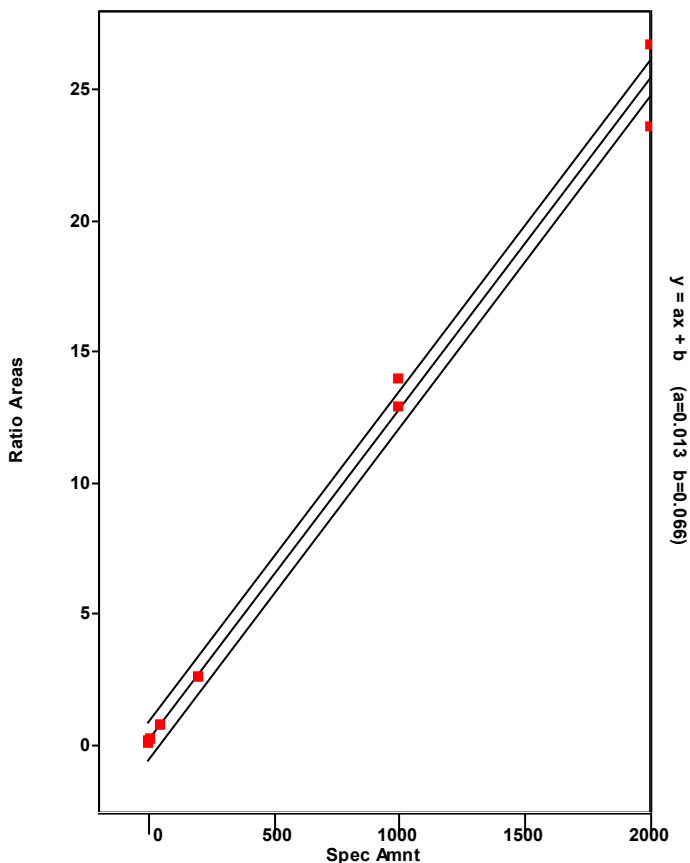
RT: 50.17 - 52.17 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__3
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	45589
RM1 Area	47593
RM1 Ratio (A)	1.0440
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.24
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__3

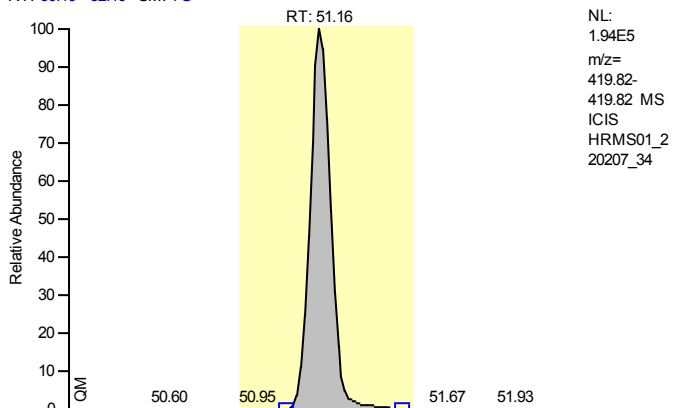
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



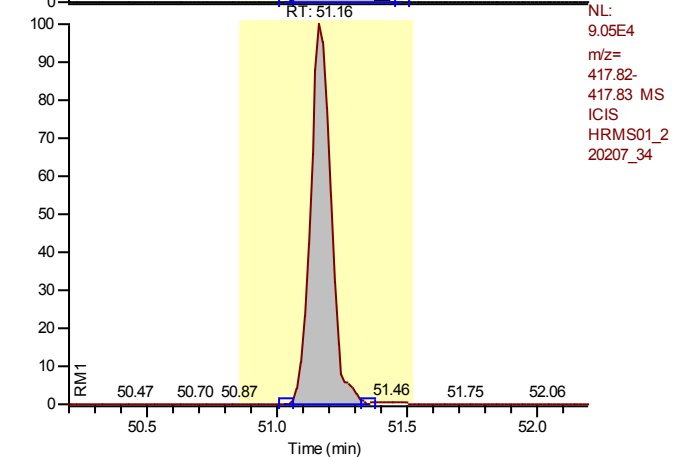
Chromatogram

Entry Parameters

RT: 50.19 - 52.19 SM: 7G

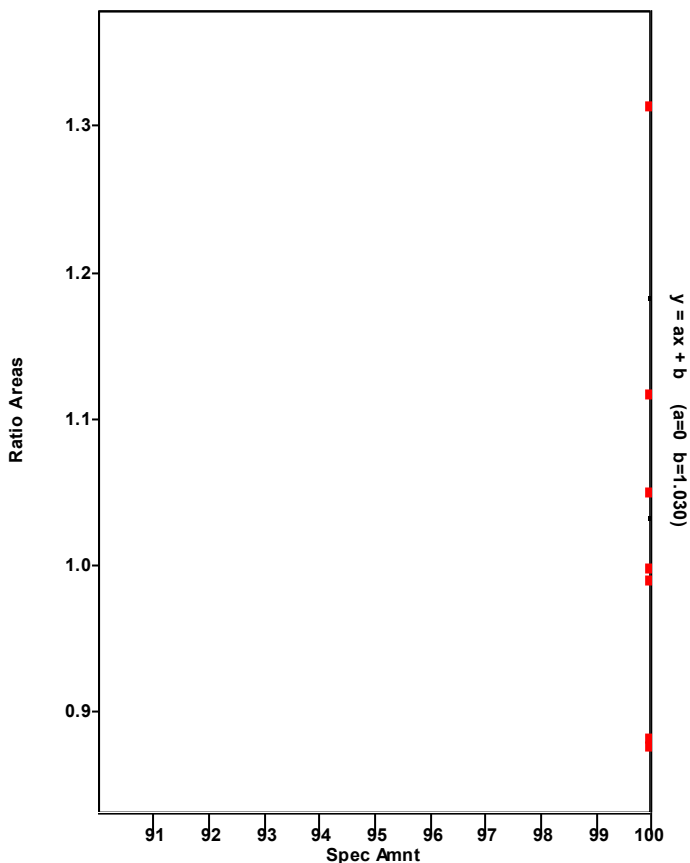


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	1080741
RM1 Area	499348
RM1 Ratio (A)	0.4620
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	67.90
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

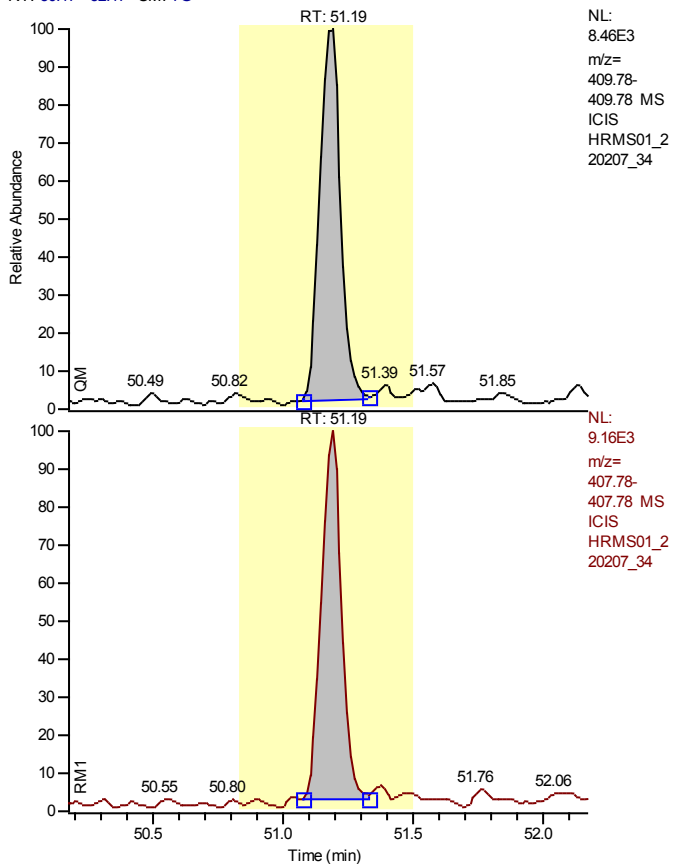
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G



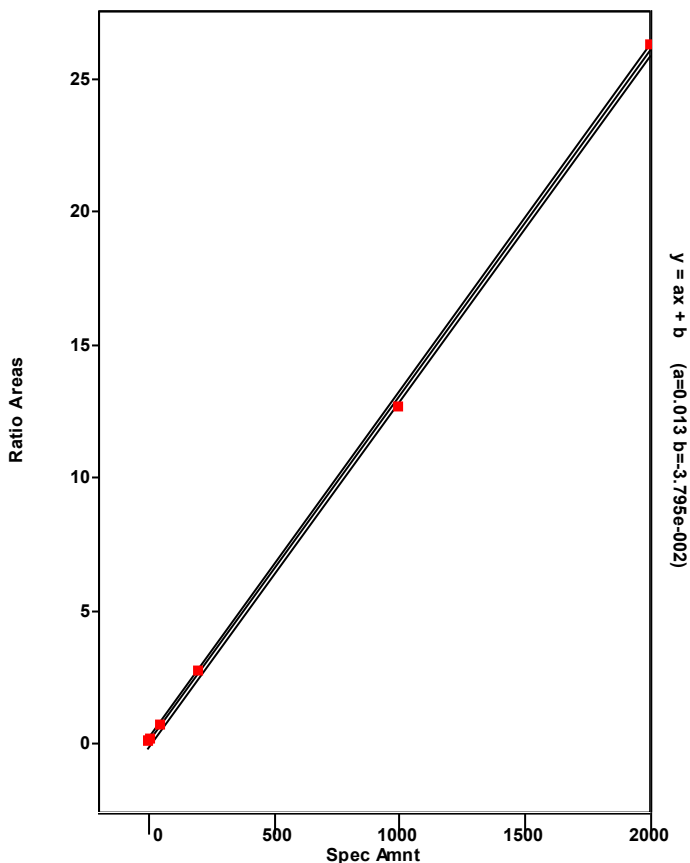
NL:
 8.46E3
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 9.16E3
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	45589
RM1 Area	47593
RM1 Ratio (A)	1.0440
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.57
Percent Recovery (A)	---
TEQ (A)	0.0457
Label2	

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

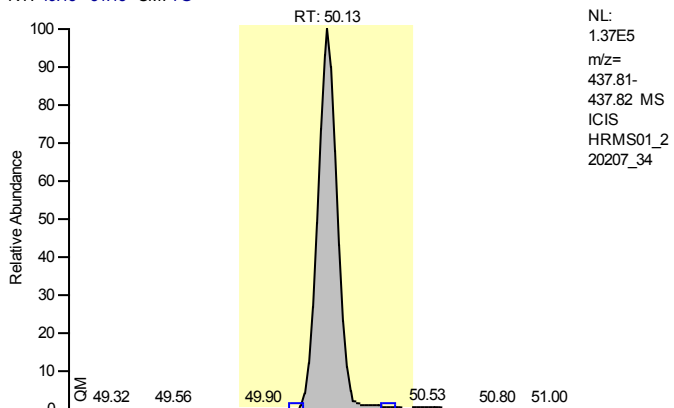
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



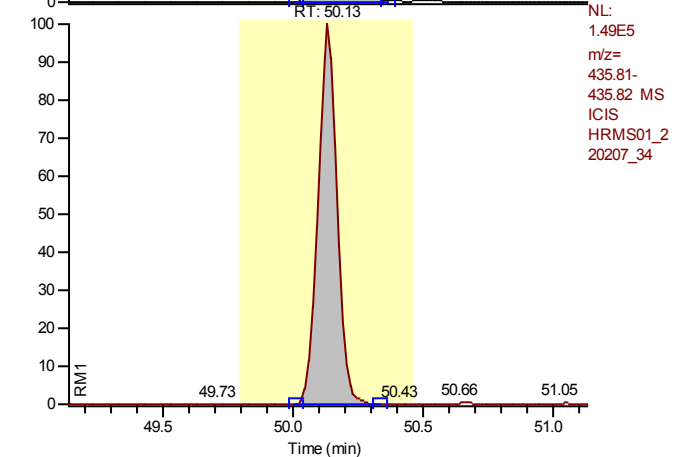
Chromatogram

Entry Parameters

RT: 49.13 - 51.13 SM: 7G

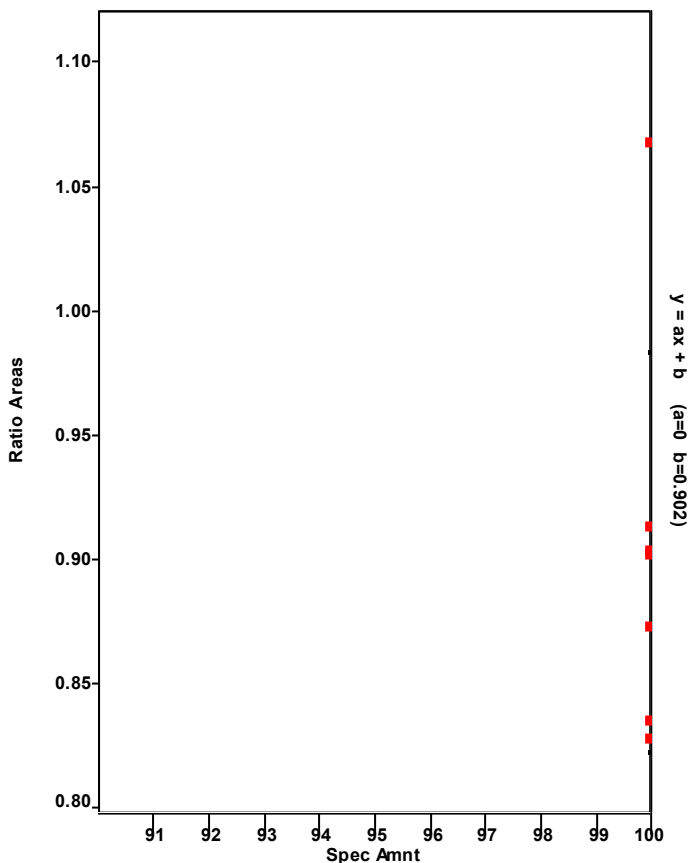


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	720795
RM1 Area	764962
RM1 Ratio (A)	1.0613
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	72.94
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

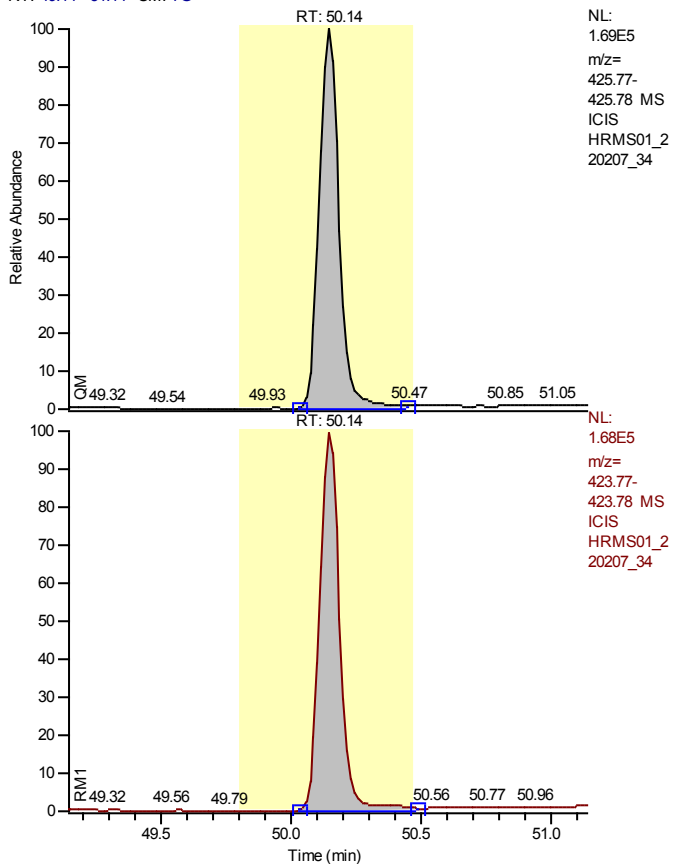
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.14 - 51.14 SM: 7G



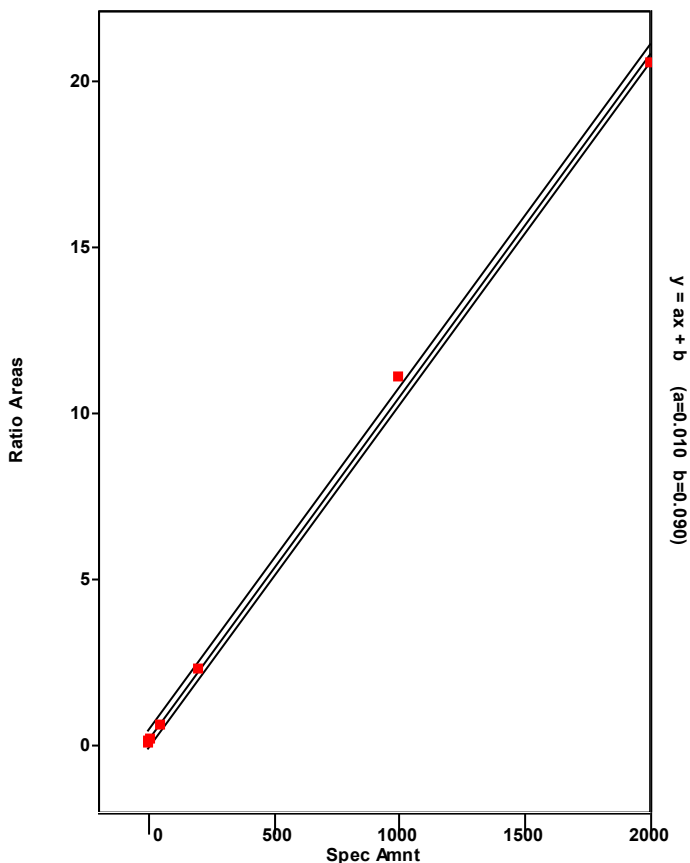
NL:
 1.69E5
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20207_34

NL:
 1.68E5
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20207_34

Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	881983
RM1 Area	883606
RM1 Ratio (A)	1.0018
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	110.11
Percent Recovery (A)	---
TEQ (A)	1.1011
Label2	

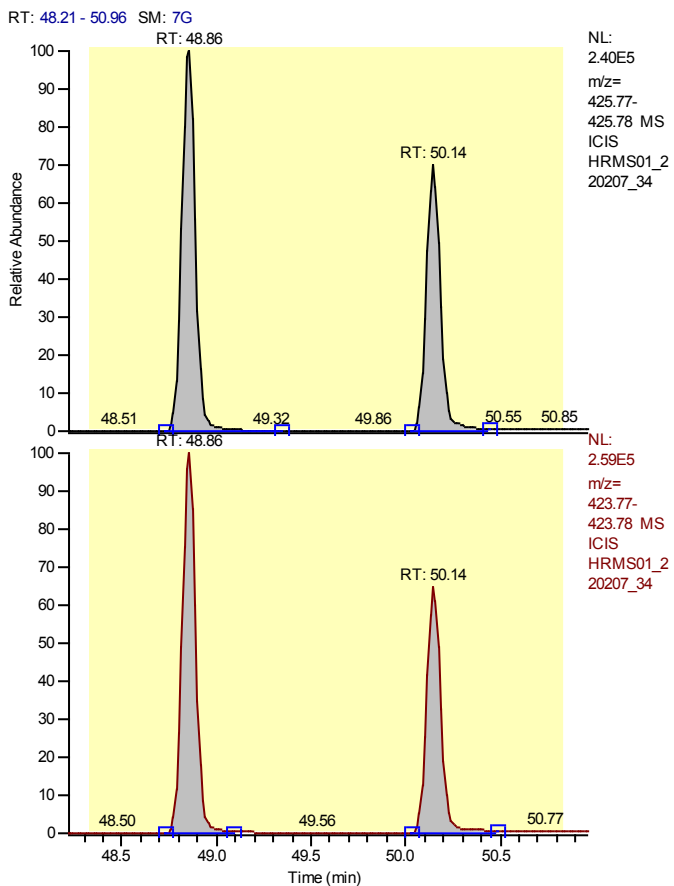
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

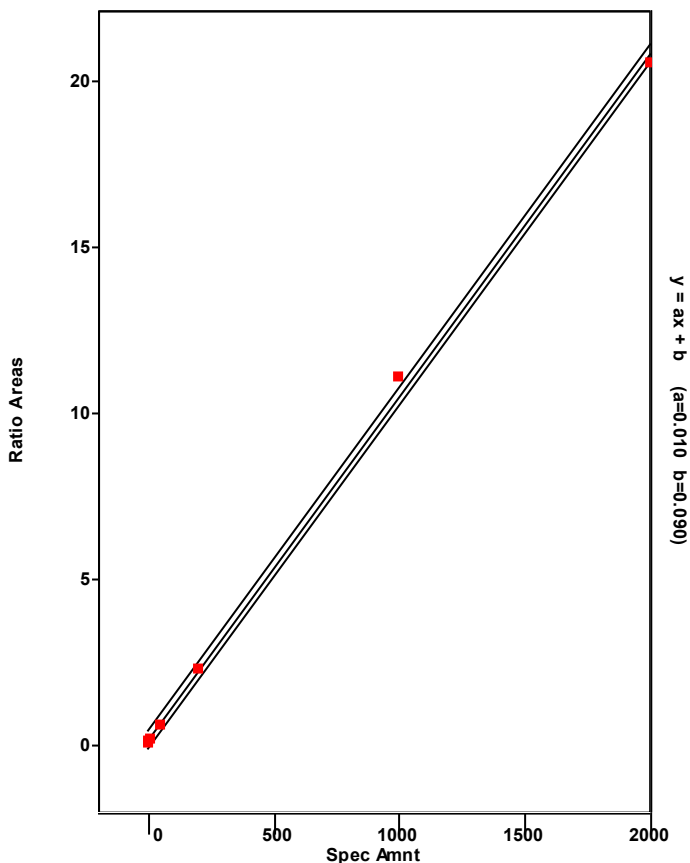
Entry Parameters



Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	2106115
RM1 Area	2182658
RM1 Ratio (A)	1.0363
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	267.46
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin

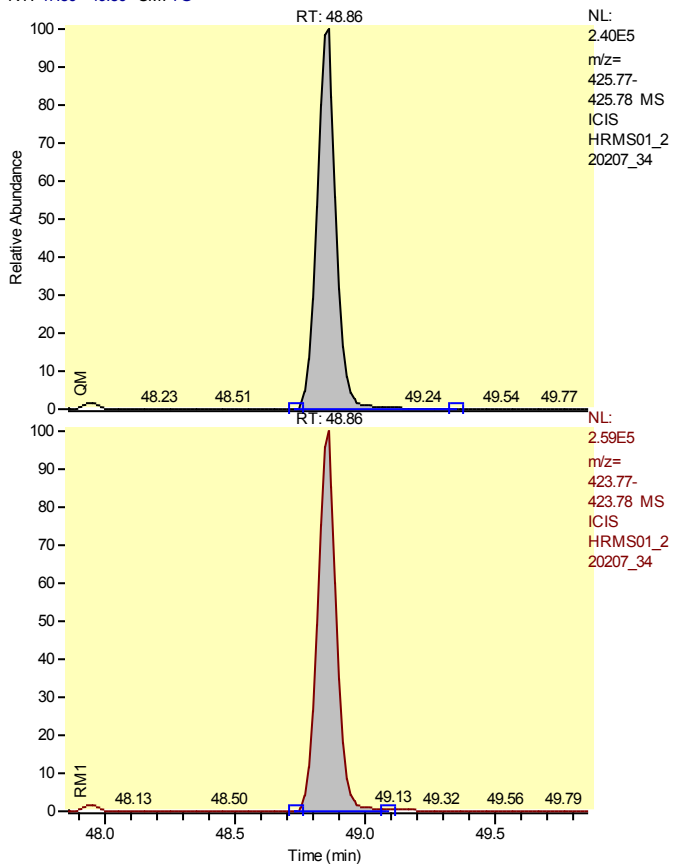
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

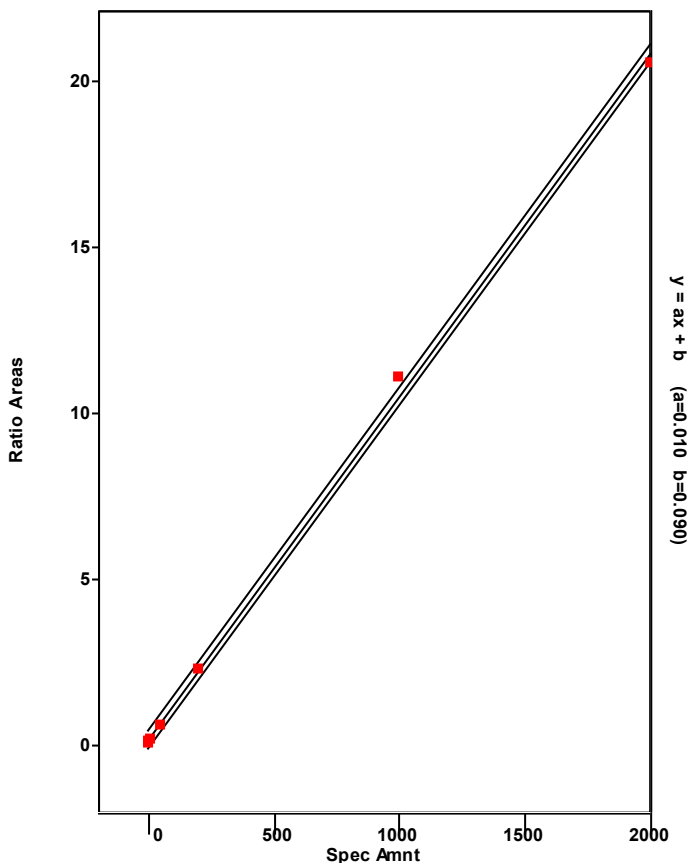
RT: 47.86 - 49.86 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	1224132
RM1 Area	1299052
RM1 Ratio (A)	1.0612
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	157.35
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

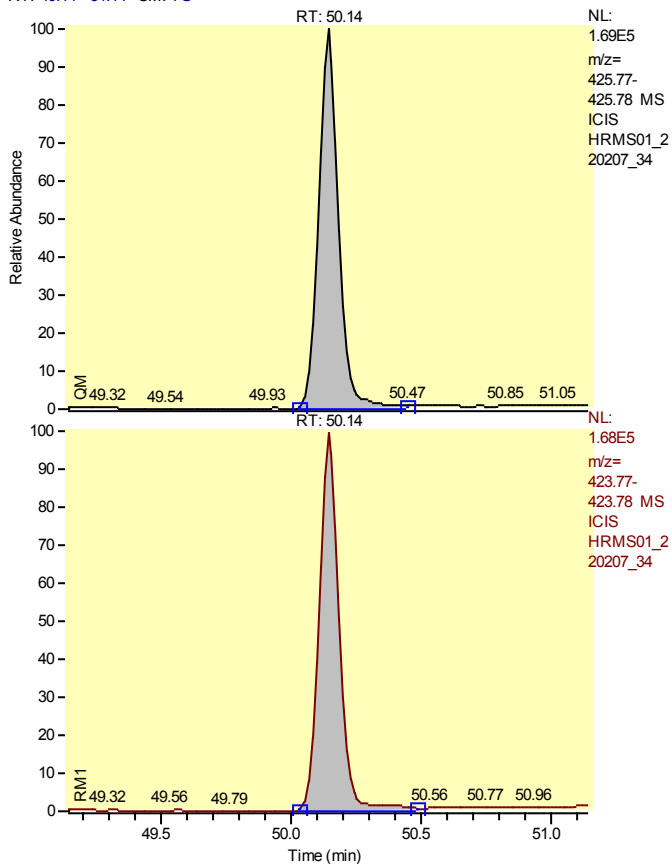
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

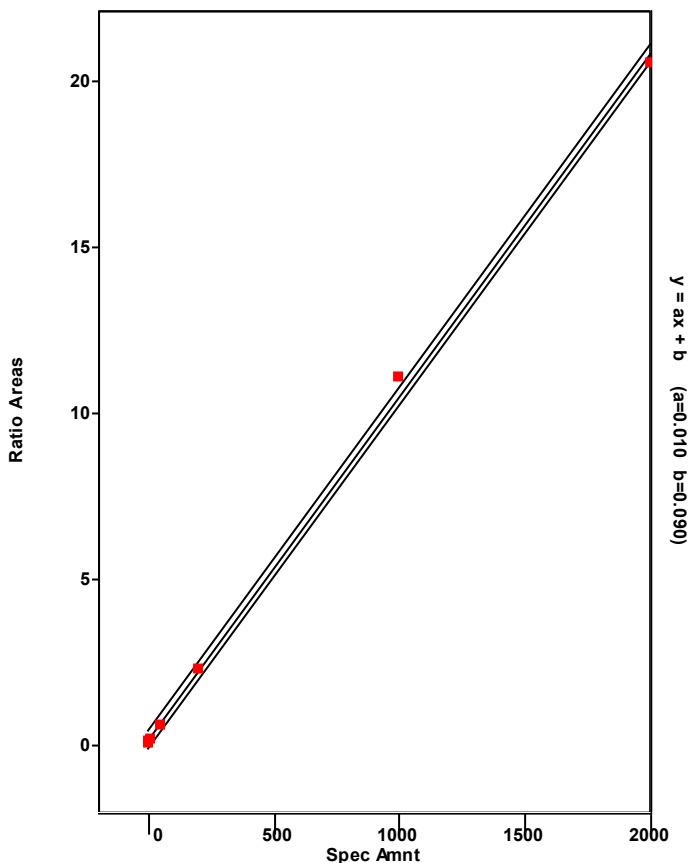
RT: 49.14 - 51.14 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	881983
RM1 Area	883606
RM1 Ratio (A)	1.0018
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	110.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

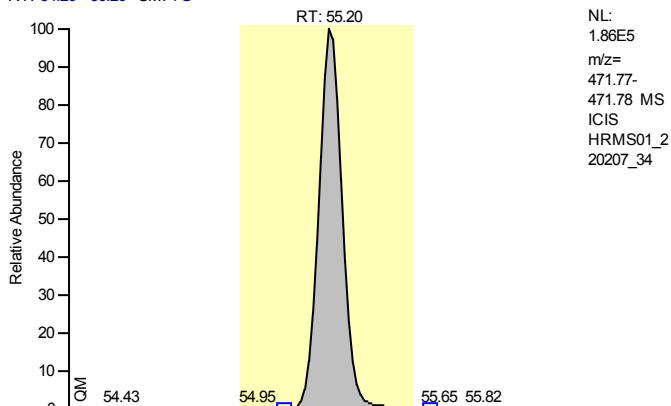
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



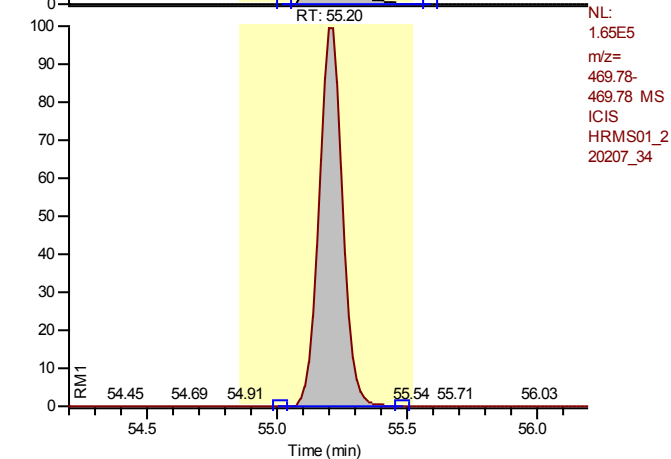
Chromatogram

Entry Parameters

RT: 54.20 - 56.20 SM: 7G

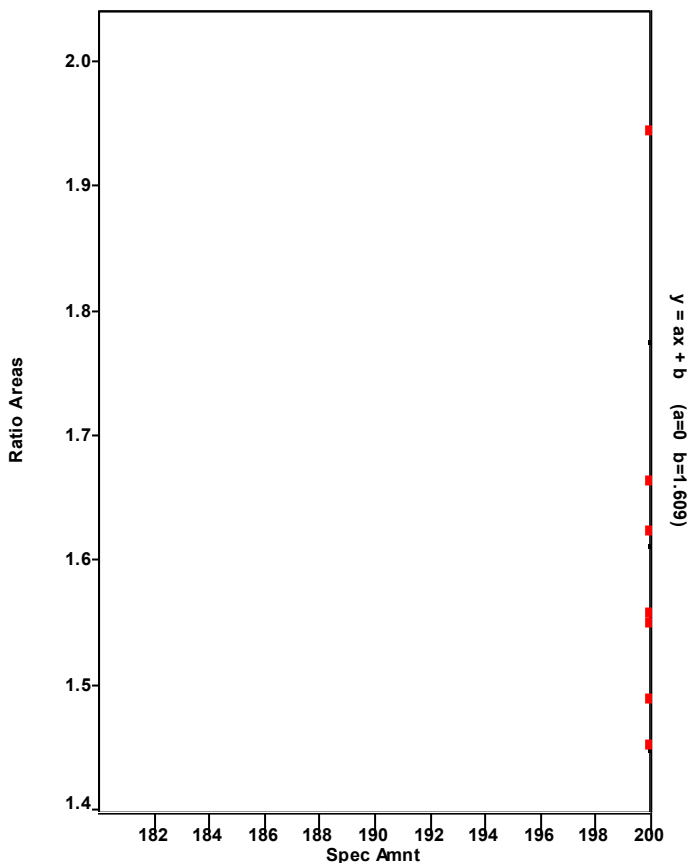


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	1175104
RM1 Area	1037011
RM1 Ratio (A)	0.8825
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	121.70
Percent Recovery (A)	61
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

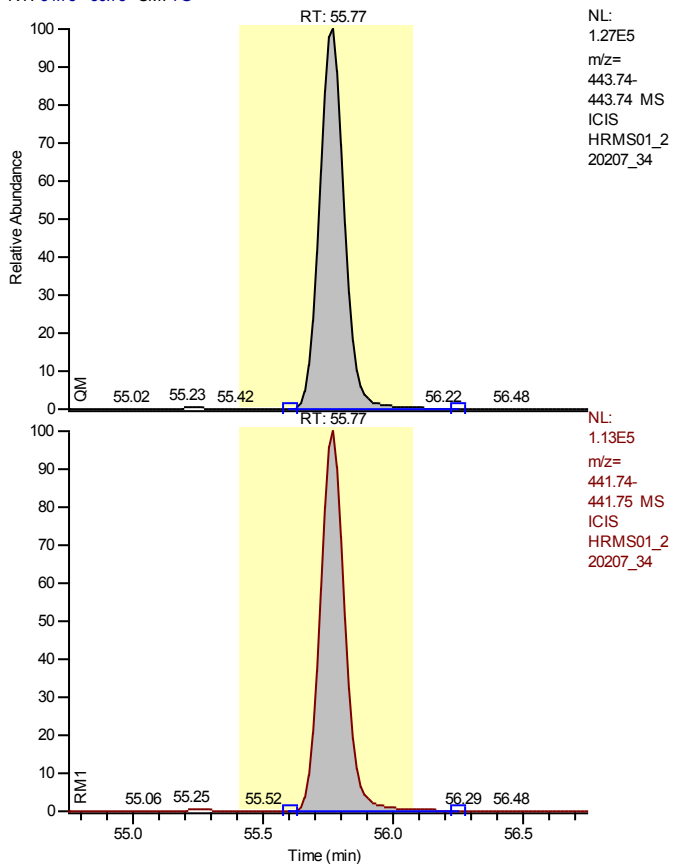
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.75 - 56.75 SM: 7G



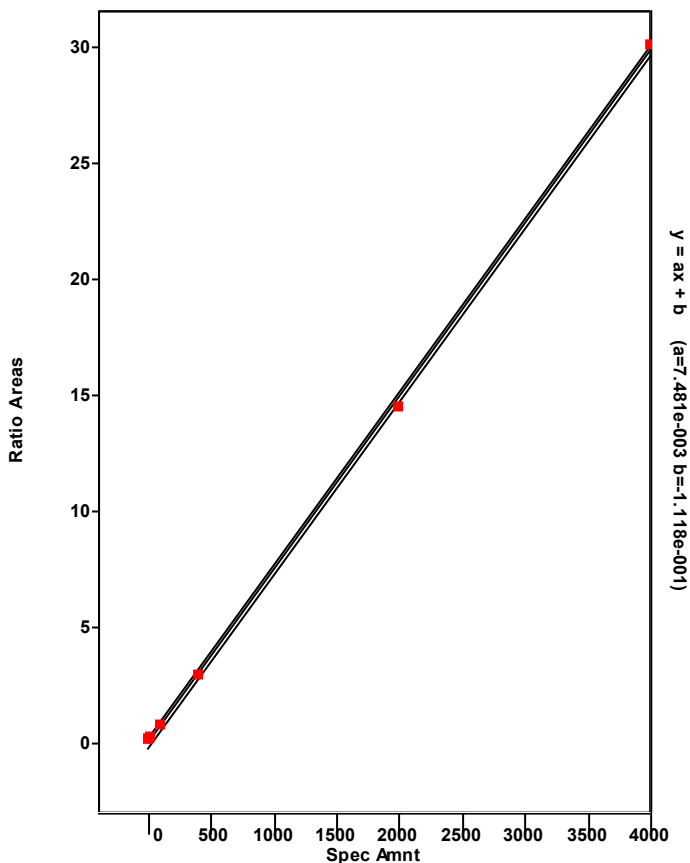
NL:
1.27E5
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443.74-
443.74 MS
ICIS
HRMS01_2
20207_34

NL:
1.13E5
m/z=
441.74-
441.75 MS
ICIS
HRMS01_2
20207_34

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 3268-87-9
QM Area	847035
RM1 Area	746450
RM1 Ratio (A)	0.8813
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	103.26
Percent Recovery (A)	---
TEQ (A)	0.0310
Label2	

Calibration Points of Octachlorodibenzofuran

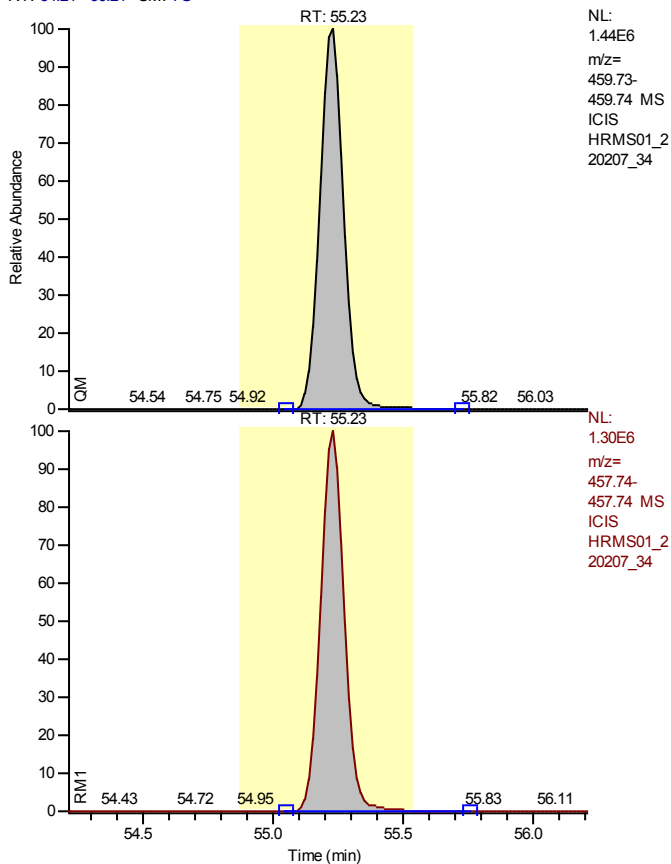
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

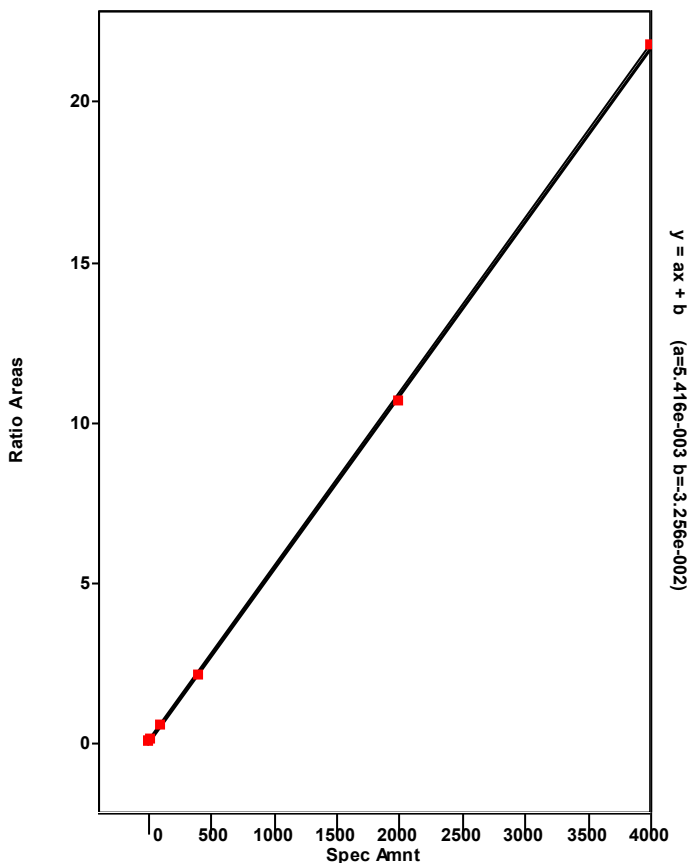
RT: 54.21 - 56.21 SM: 7G



Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	9175121
RM1 Area	8212206
RM1 Ratio (A)	0.8951
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	1453.12
Percent Recovery (A)	---
TEQ (A)	0.4359
Label2	

Calibration Points of Octachlorodibenzo-p-dioxin

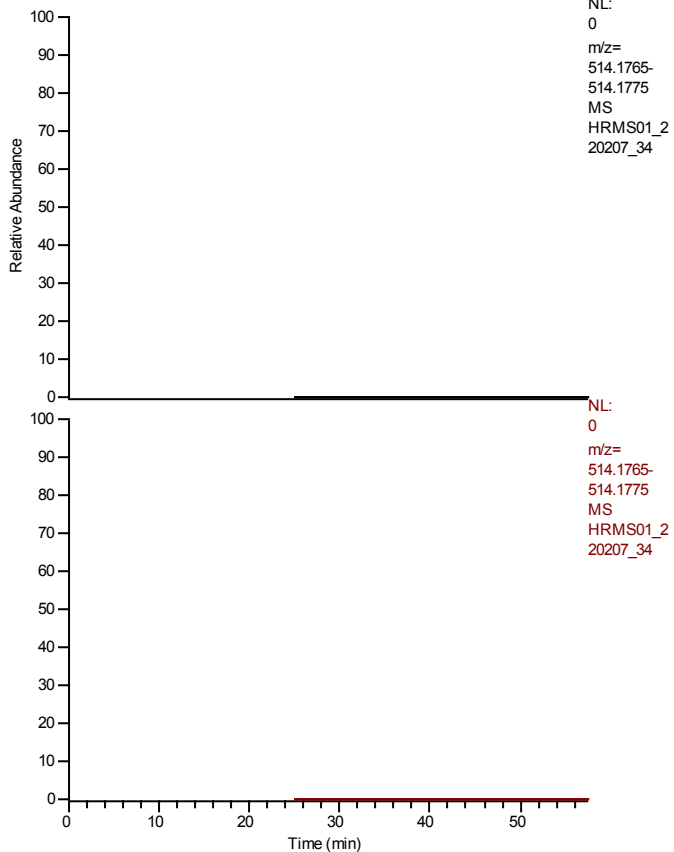
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

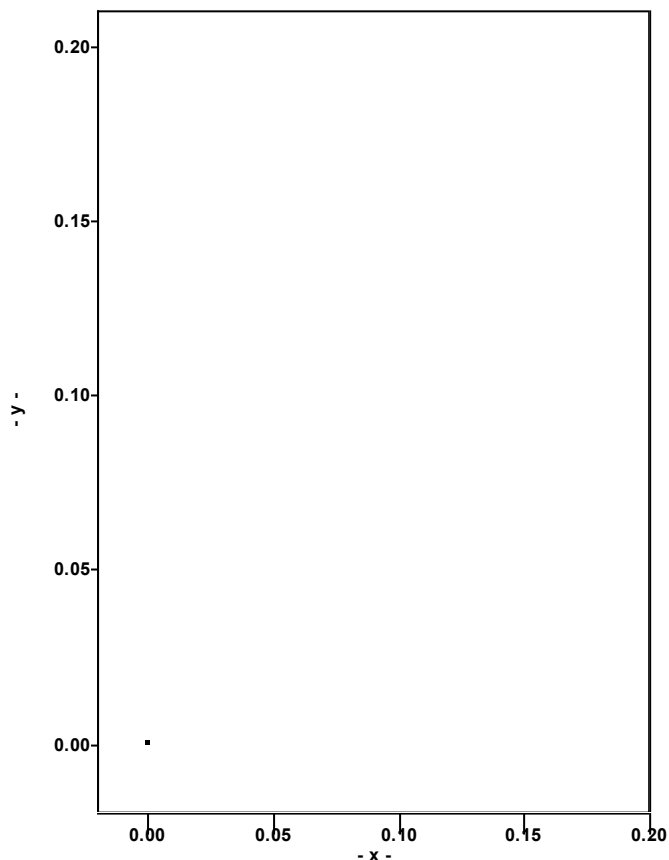
Entry Parameters

RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	11893407
RM1 Area	10980076
RM1 Ratio (A)	0.9232
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	1761.94
Percent Recovery (A)	---
TEQ (A)	6.7940
Label2	

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 17:42
Number of Entries	56
Comment	
Vial	116
Sample Name	L2202953-08
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_36_seq
Data	hrms01_220207_36
Response	220204_1613b_gcb
Quan Method File	epa1613b_samples_gc2
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

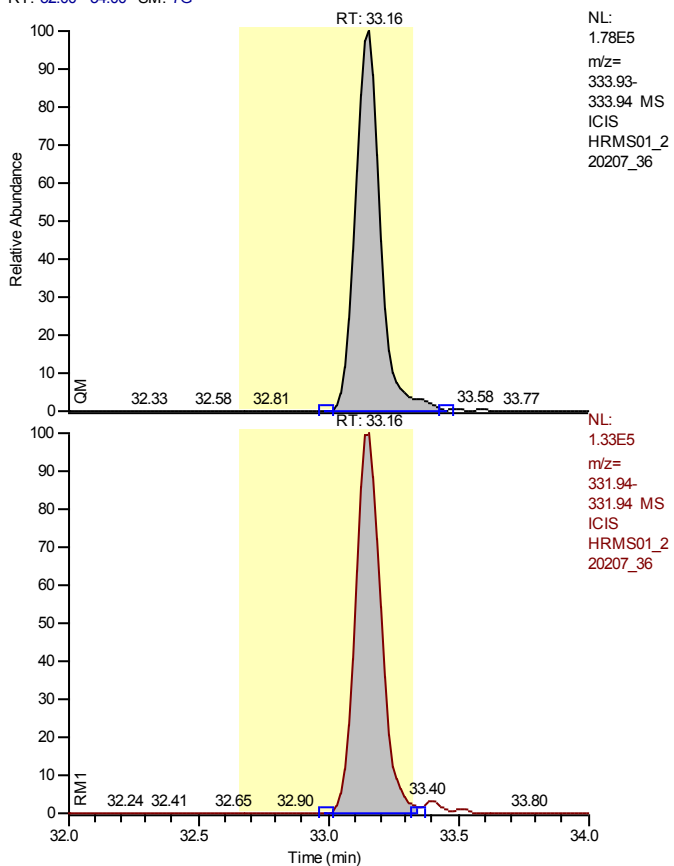
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1181947	907168	0.7675	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1352614	1134902	0.8390	0.6500 - 0.8900	100.00	73.29	73	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	11513	8229	0.7147	0.6500 - 0.8900	0.00	0.85	---	0.0854
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	19895	16558	0.7122	0.6500 - 0.8900	0.00	1.58	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	11590	8255	0.7122	0.6500 - 0.8900	0.00	0.86	---	0.0000
6	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	8305	8303	0.9998	0.6500 - 0.8900	0.00	n.d. < 0.72	---	n.d.
7	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		863597	674528	0.7811	0.6500 - 0.8900	100.00	63.29	63	0.0000
8	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
9	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		740676	1137186	1.5353	1.3200 - 1.7800	100.00	61.98	62	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	21618	33968	1.5713	1.3200 - 1.7800	0.00	2.99	---	0.0897
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	41530	66103	1.5917	1.3200 - 1.7800	0.00	5.70	---	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	21618	33968	1.5713	1.3200 - 1.7800	0.00	2.94	---	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	9876	16338	1.6543	1.3200 - 1.7800	0.00	1.39	---	0.0000
15	Total Pentachlorodibenzofuran__4	Single native PeCDF	CAS# 30402-15-4	10036	15797	1.5740	1.3200 - 1.7800	0.00	1.37	---	0.0000
16	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		692909	1068249	1.5417	1.3200 - 1.7800	100.00	61.78	62	0.0000
17	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	10036	15797	1.5740	1.3200 - 1.7800	0.00	1.35	---	0.0000
18	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		490471	777723	1.5857	1.3200 - 1.7800	100.00	66.62	67	0.0000
19	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
20	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		222201	222201	1.0000	0.8500 - 1.1500	10.00	8.50	85	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		837854	992224	1.1842	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1107493	624771	0.5641	0.4300 - 0.5900	100.00	84.25	84	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	71796	96340	1.3418	1.0500 - 1.4300	0.00	8.42	---	0.8421
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	92260	120791	1.3092	1.0500 - 1.4300	0.00	10.29	---	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	71796	96340	1.3418	1.0500 - 1.4300	0.00	8.12	---	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	20463	24451	1.1949	1.0500 - 1.4300	0.00	2.17	---	0.0000
28	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1230245	641968	0.5218	0.4300 - 0.5900	100.00	84.65	85	0.0000
29	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	20463	24451	1.1949	1.0500 - 1.4300	0.00	2.10	---	0.0000
30	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1099199	591608	0.5382	0.4300 - 0.5900	100.00	78.44	78	0.0000
31	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
32	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1035329	534049	0.5158	0.4300 - 0.5900	100.00	74.85	75	0.0000
33	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
34	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		508463	671691	1.3210	1.0500 - 1.4300	100.00	72.27	72	0.0000
35	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
36	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
37	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		587417	682574	1.1620	1.0500 - 1.4300	100.00	74.36	74	0.0000
38	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
40	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		959295	406336	0.4236	0.3700 - 0.5100	100.00	68.42	68	0.0000
41	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	31769	32910	1.0359	0.8800 - 1.2000	0.00	3.68	---	0.0368
42	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	59832	58897	0.9844	0.8800 - 1.2000	0.00	6.95	---	0.0000
43	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	31769	32910	1.0359	0.8800 - 1.2000	0.00	3.78	---	0.0000
44	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	15862	15188	0.9575	0.8800 - 1.2000	0.00	1.82	---	0.0000
45	Total Heptachlorodibenzofuran__3	Single native HpCDF	CAS# 38998-75-3	12201	10799	0.8851	0.8800 - 1.2000	0.00	1.35	---	0.0000
46	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		818525	371096	0.4534	0.3700 - 0.5100	100.00	63.10	63	0.0000
47	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	12201	10799	0.8851	0.8800 - 1.2000	0.00	1.50	---	0.0000
48	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		572031	617252	1.0791	0.8800 - 1.2000	100.00	72.06	72	0.0000
49	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	17693	17329	0.9794	0.8800 - 1.2000	0.00	2.73	---	0.0273
50	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	44054	43682	0.9916	0.8800 - 1.2000	0.00	6.84	---	0.0000
51	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	26361	26353	0.9997	0.8800 - 1.2000	0.00	4.11	---	0.0000
52	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	17693	17329	0.9794	0.8800 - 1.2000	0.00	2.73	---	0.0000
53	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		881560	810333	0.9192	0.7600 - 1.0200	200.00	114.89	57	0.0000
54	Octachlorodibenzofuran	OCDF	CAS# 3268-87-9	31176	28839	0.9251	0.7600 - 1.0200	0.00	5.08	---	0.0015
55	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	179186	163197	0.9108	0.7600 - 1.0200	0.00	37.41	---	0.0112
56	overall TEQ	overall TEQ test		407451	431858	1.0599	0.0000 - 0.0000	0.00	66.12	---	1.0941

Chromatogram

Entry Parameters

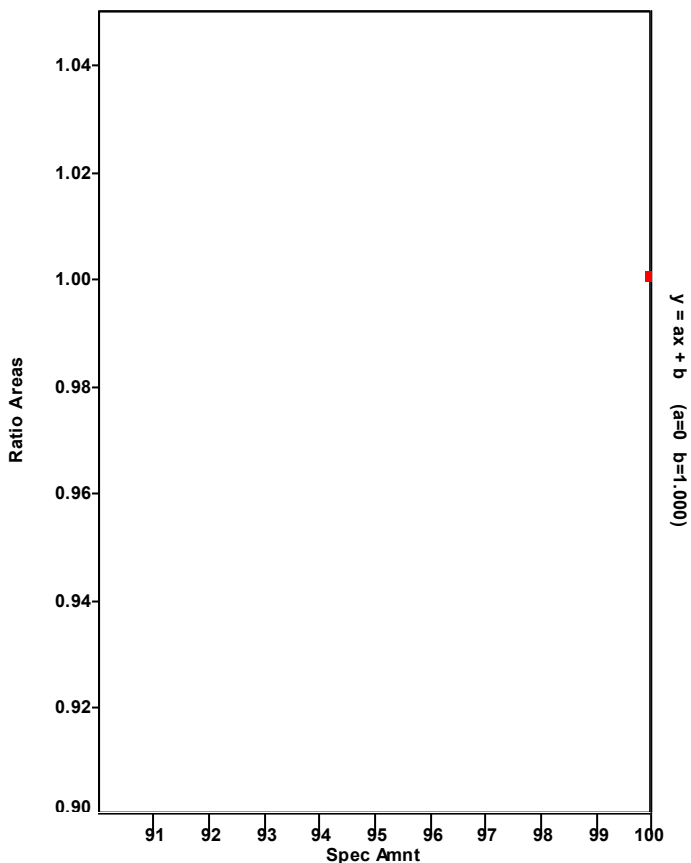
RT: 32.00 - 34.00 SM: 7G



Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1181947
RM1 Area	907168
RM1 Ratio (A)	0.7675
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

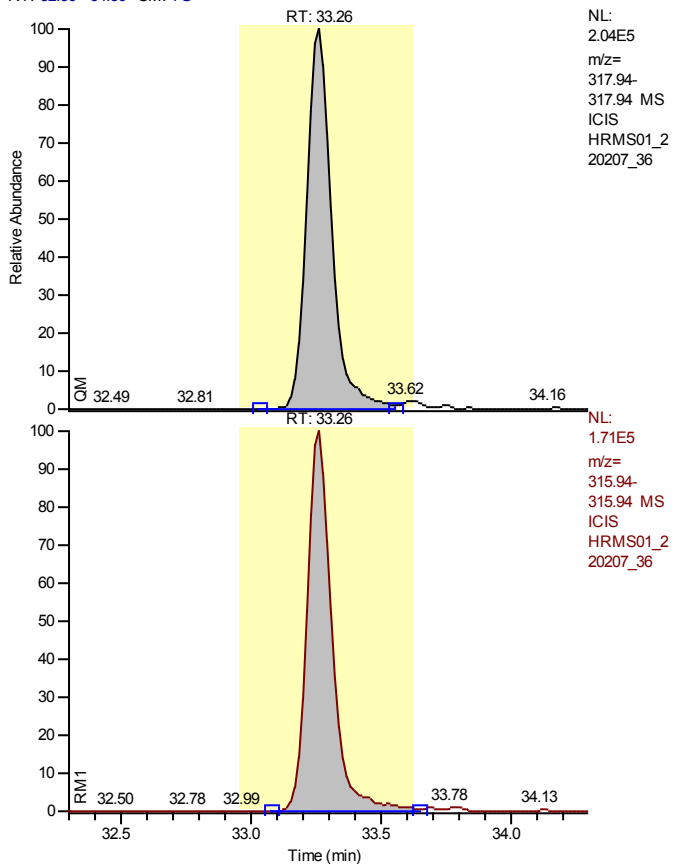
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.30 - 34.30 SM: 7G



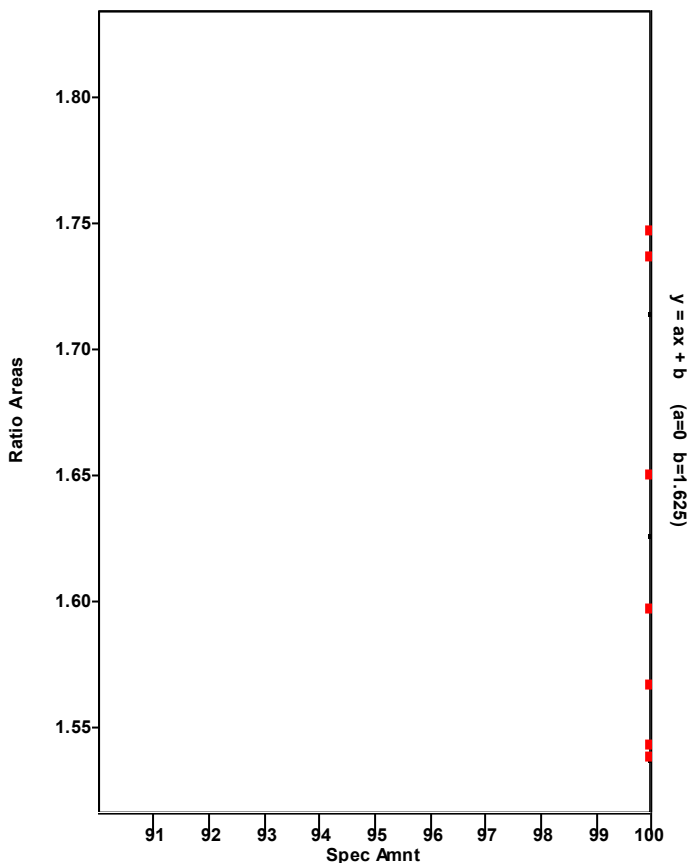
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 20207_36

NL:
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 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1352614
RM1 Area	1134902
RM1 Ratio (A)	0.8390
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	73.29
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

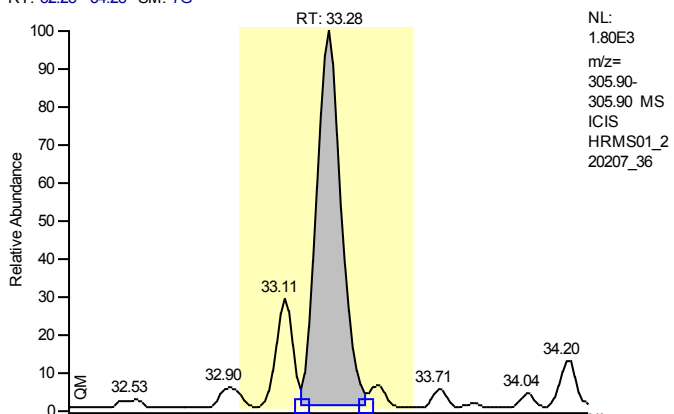
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

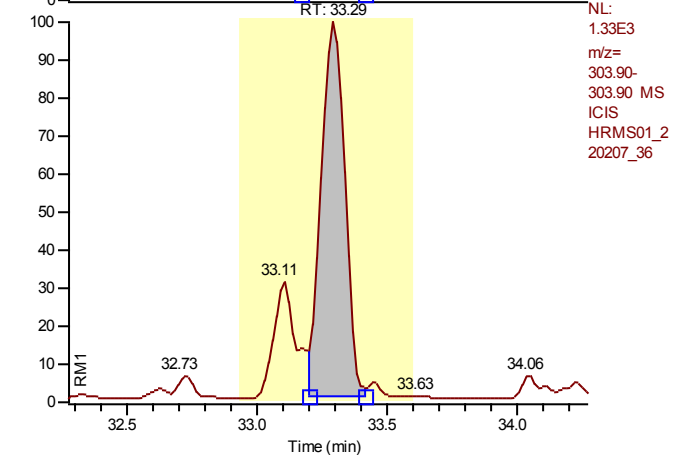
Entry Parameters

RT: 32.28 - 34.28 SM: 7G



NL:
 1.80E3
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_36

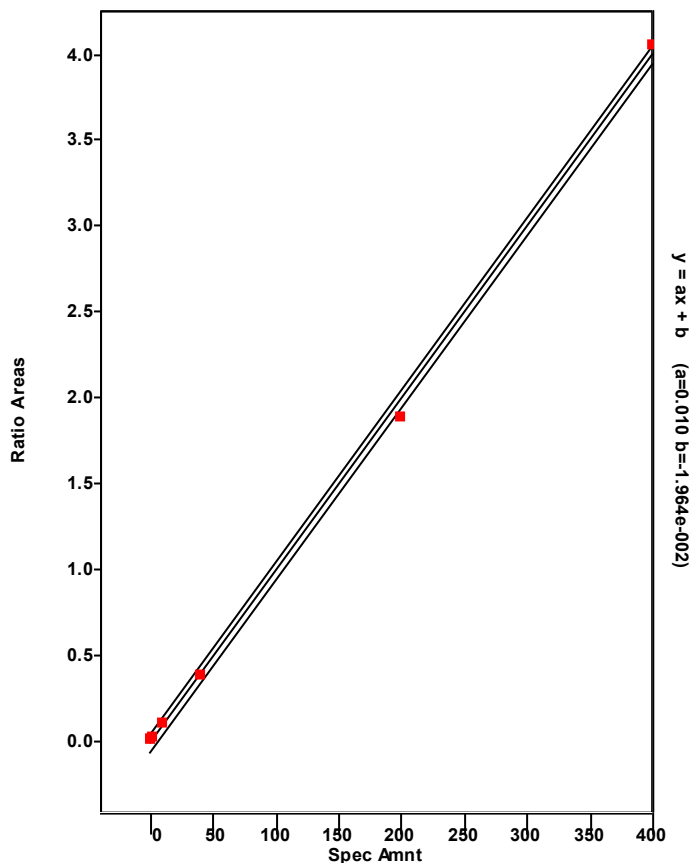
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	11513
RM1 Area	8229
RM1 Ratio (A)	0.7147
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.85
Percent Recovery (A)	---
TEQ (A)	0.0854
Label2	



NL:
 1.33E3
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

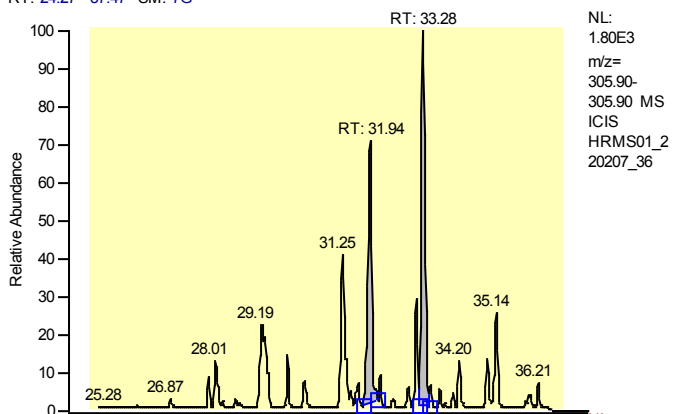
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



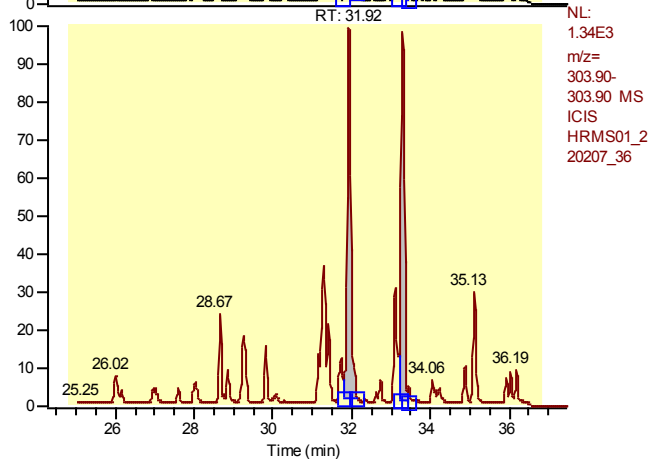
Chromatogram

Entry Parameters

RT: 24.27 - 37.47 SM: 7G

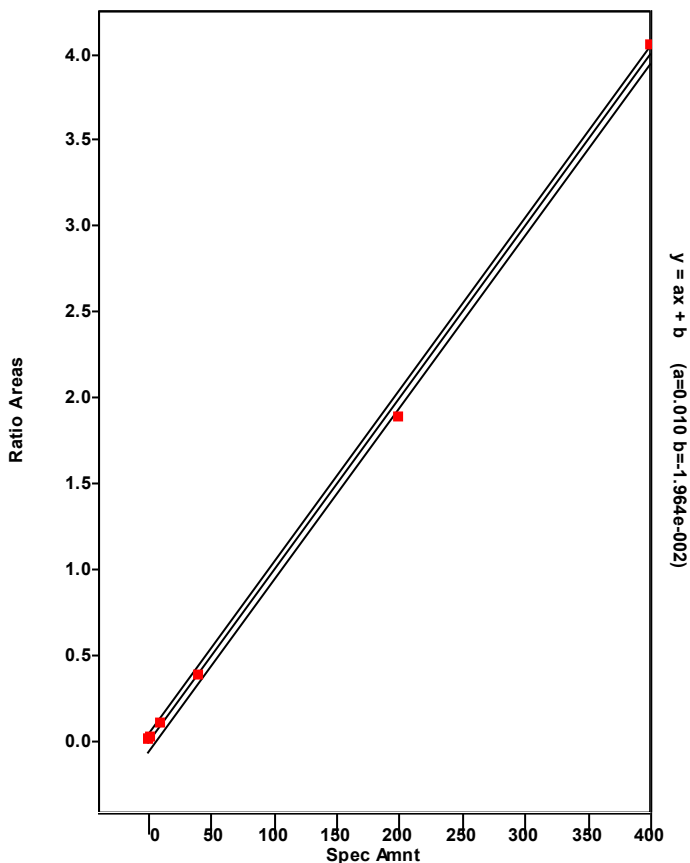


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	19895
RM1 Area	16558
RM1 Ratio (A)	0.7122
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	1.58
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



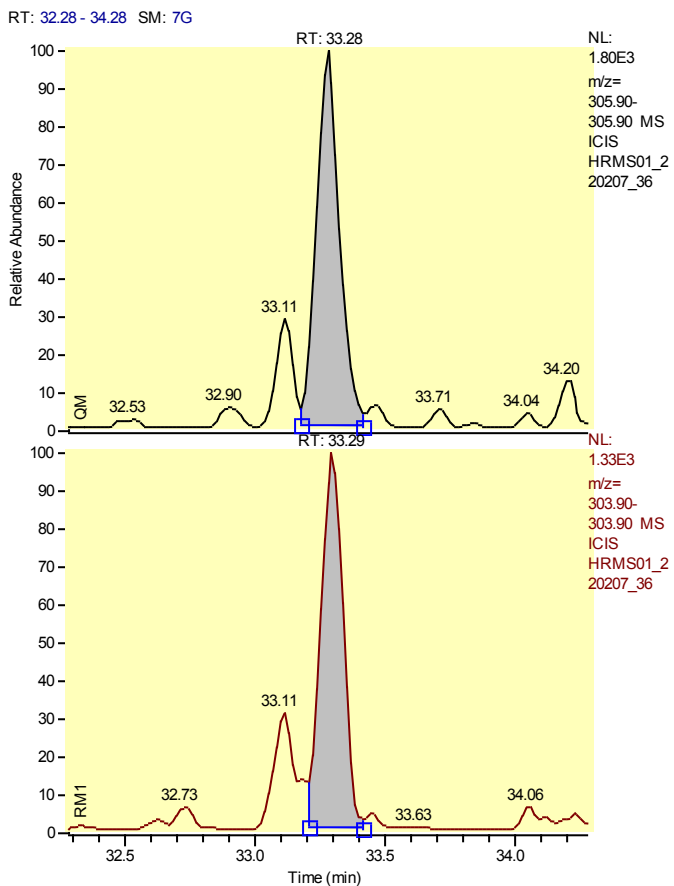
Calibration Points of Total Tetrachlorodibenzofuran

Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

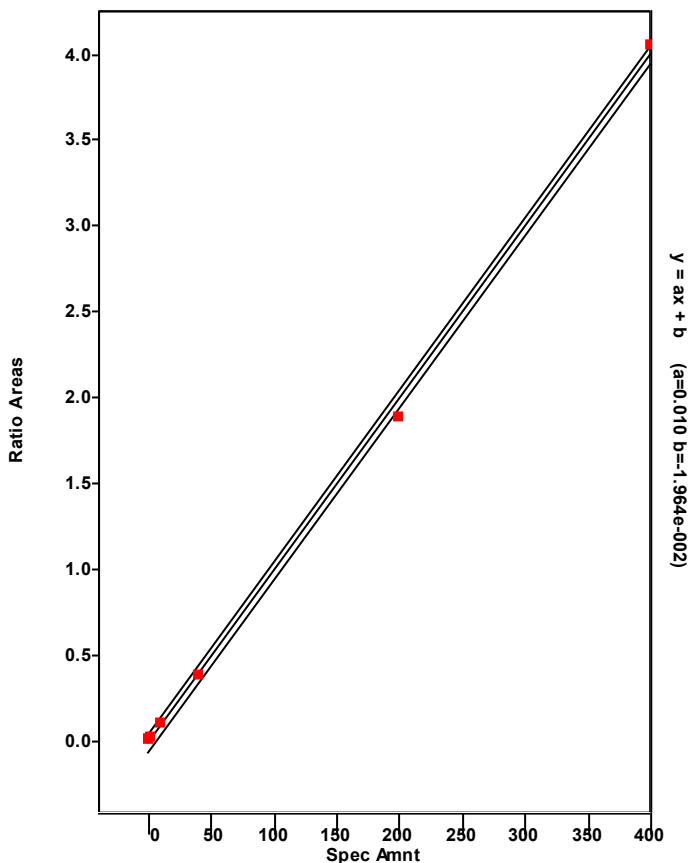
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	11590
RM1 Area	8255
RM1 Ratio (A)	0.7122
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.86
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__1

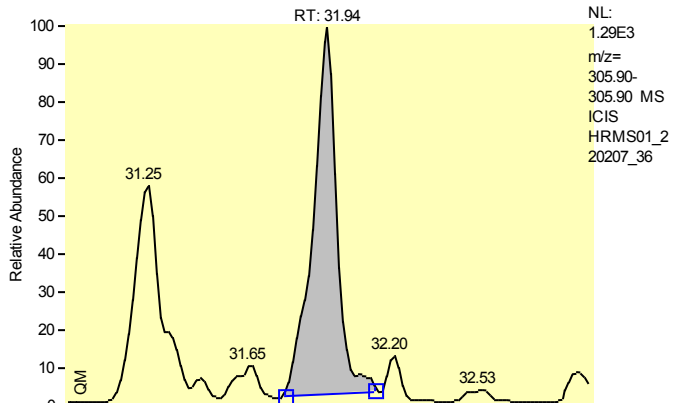
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



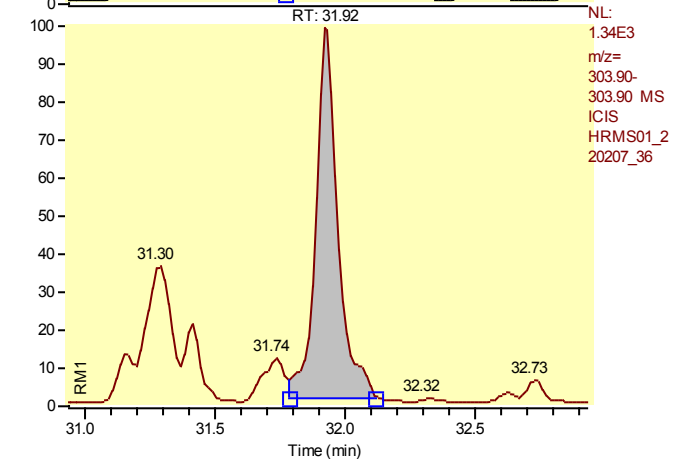
Chromatogram

Entry Parameters

RT: 30.94 - 32.94 SM: 7G

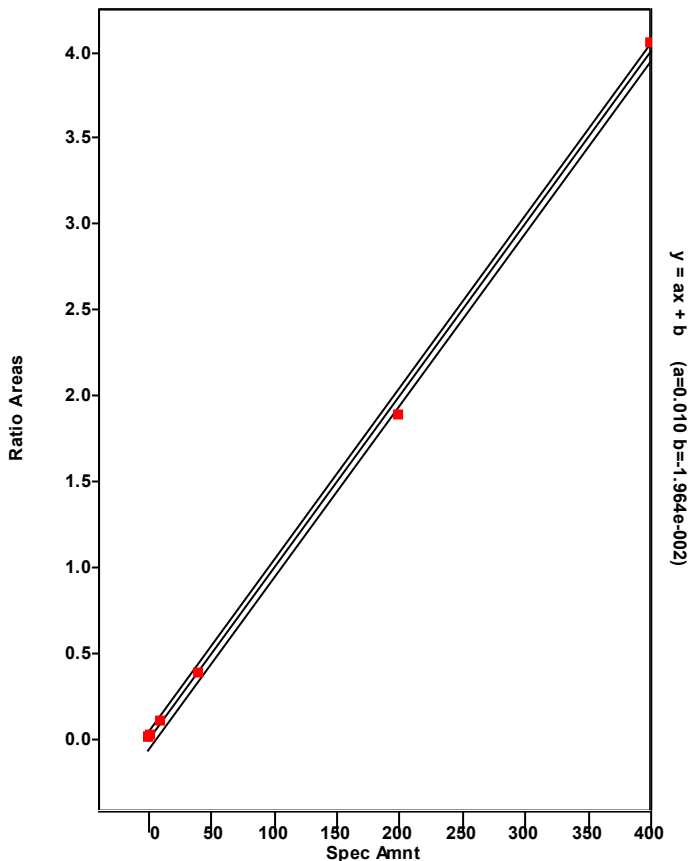


Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	8305
RM1 Area	8303
RM1 Ratio (A)	0.9998
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.72
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__4

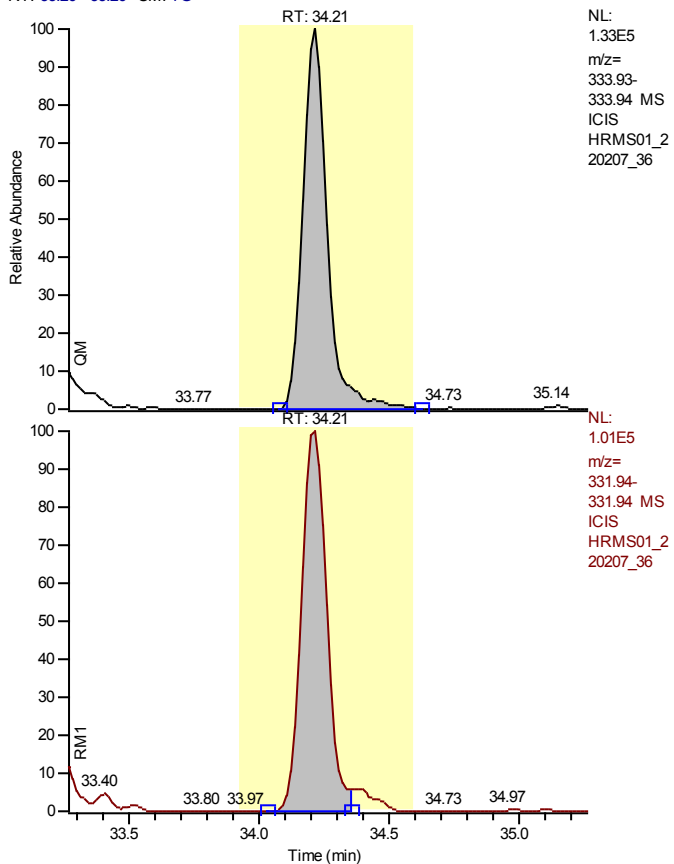
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

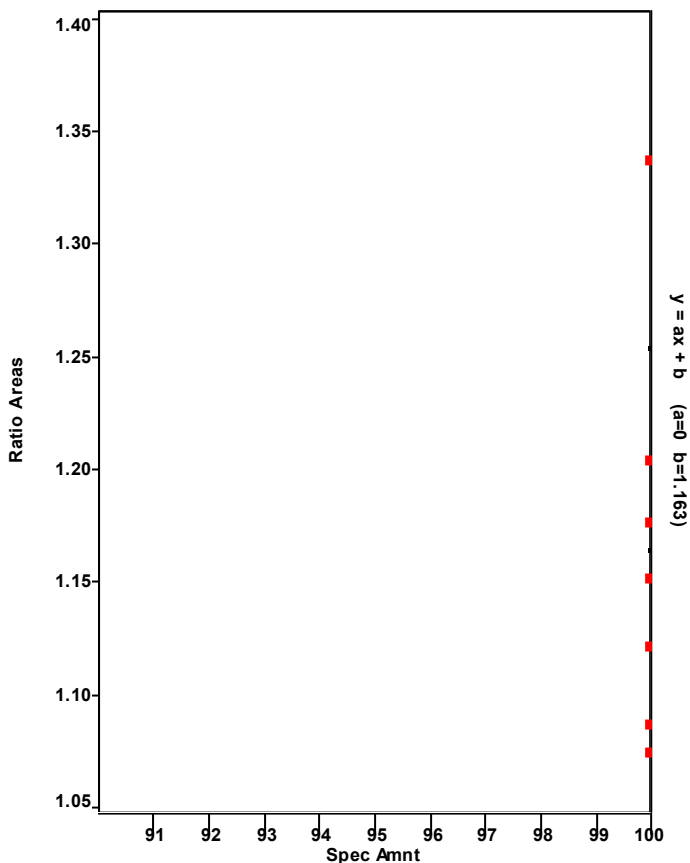
RT: 33.26 - 35.26 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	863597
RM1 Area	674528
RM1 Ratio (A)	0.7811
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	63.29
Percent Recovery (A)	63
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

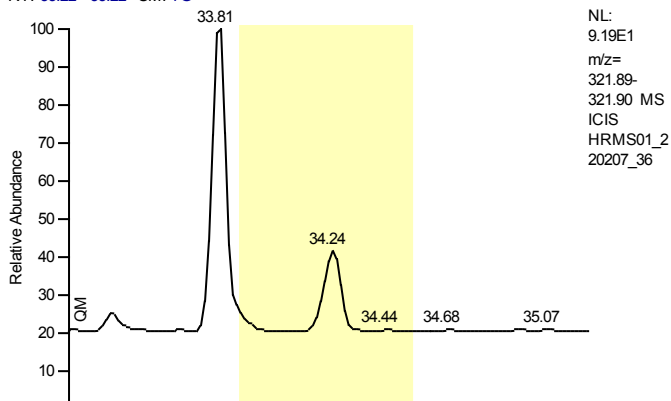
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



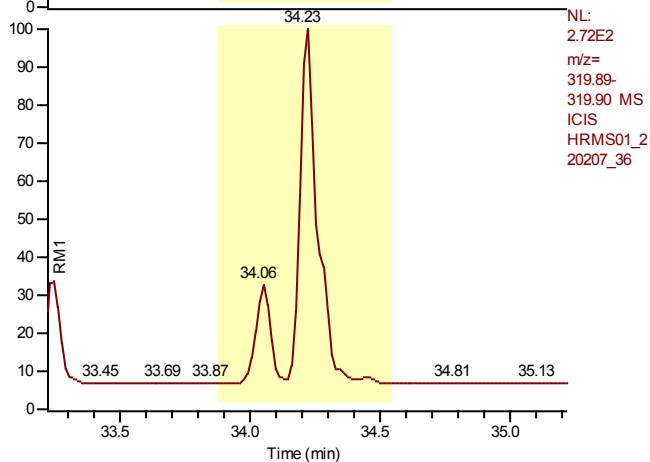
Chromatogram

Entry Parameters

RT: 33.22 - 35.22 SM: 7G

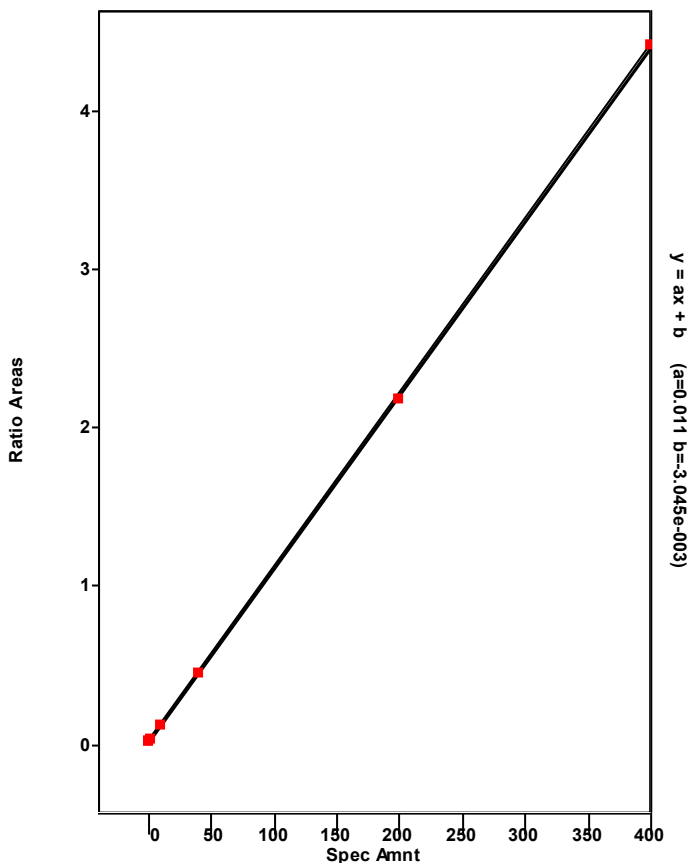


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

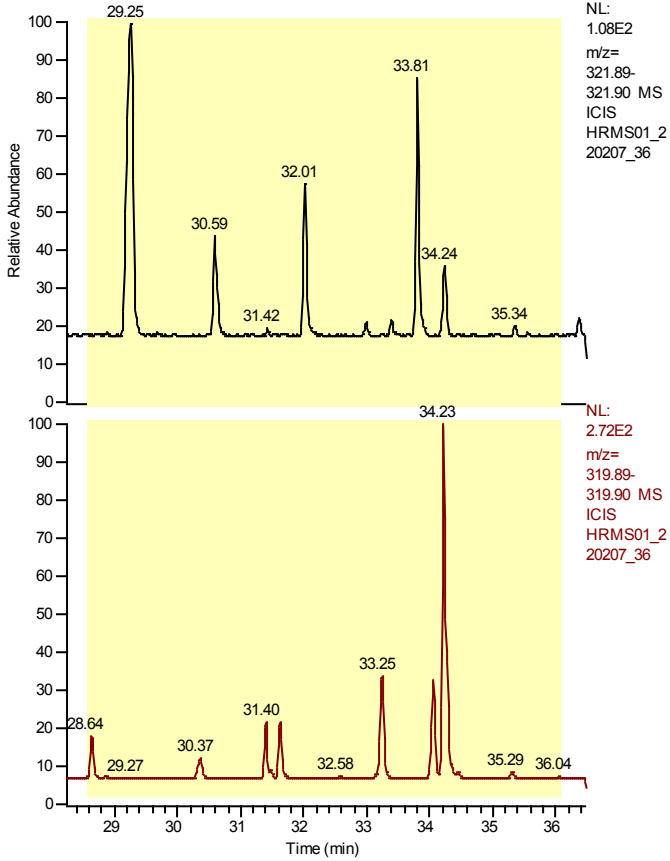
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.23 - 36.48 SM: 7G



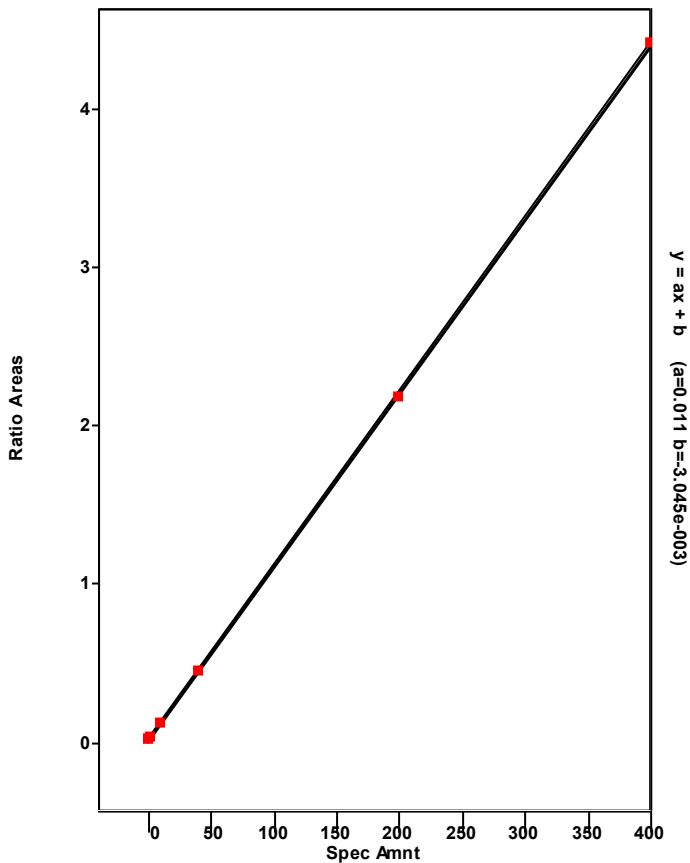
NL:
 1.08E2
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 2.72E2
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

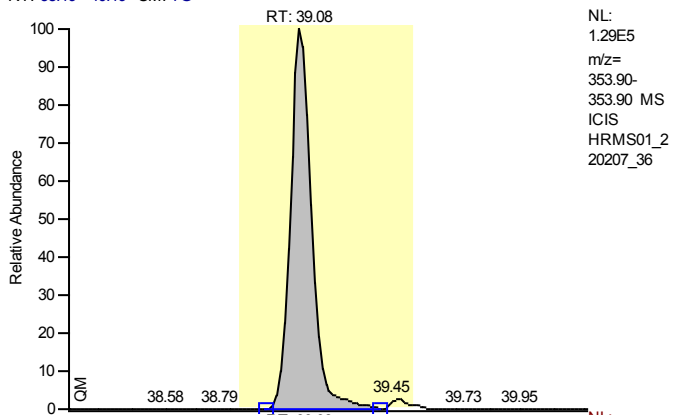
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

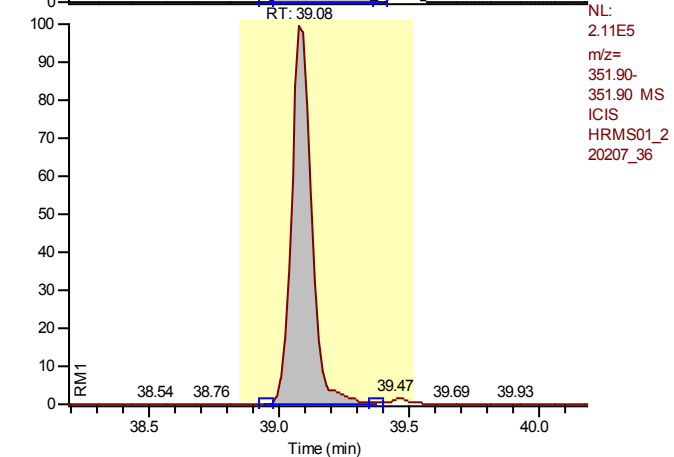
Entry Parameters

RT: 38.19 - 40.19 SM: 7G



NL:
 1.29E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_36

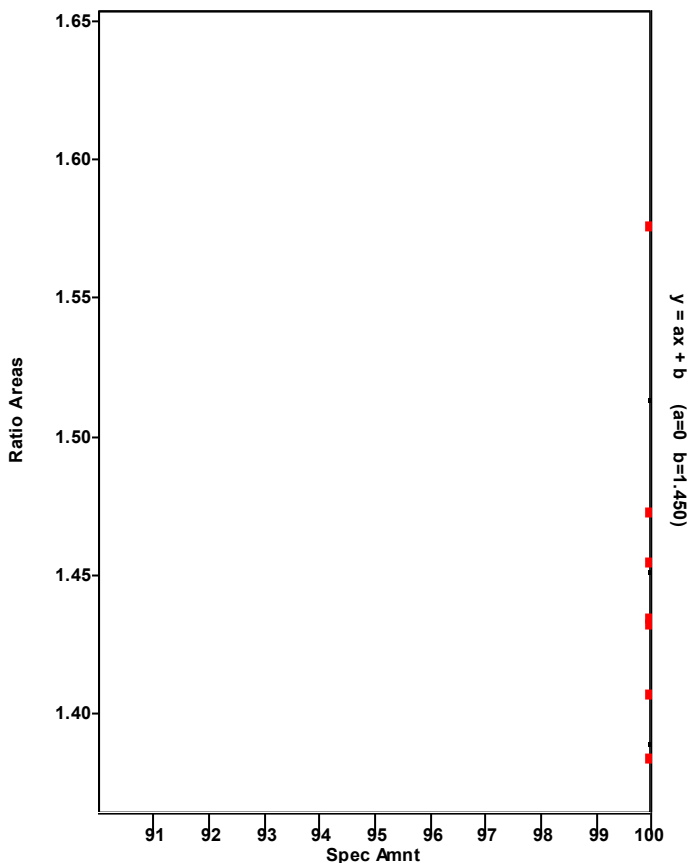
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	740676
RM1 Area	1137186
RM1 Ratio (A)	1.5353
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	61.98
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	



NL:
 2.11E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

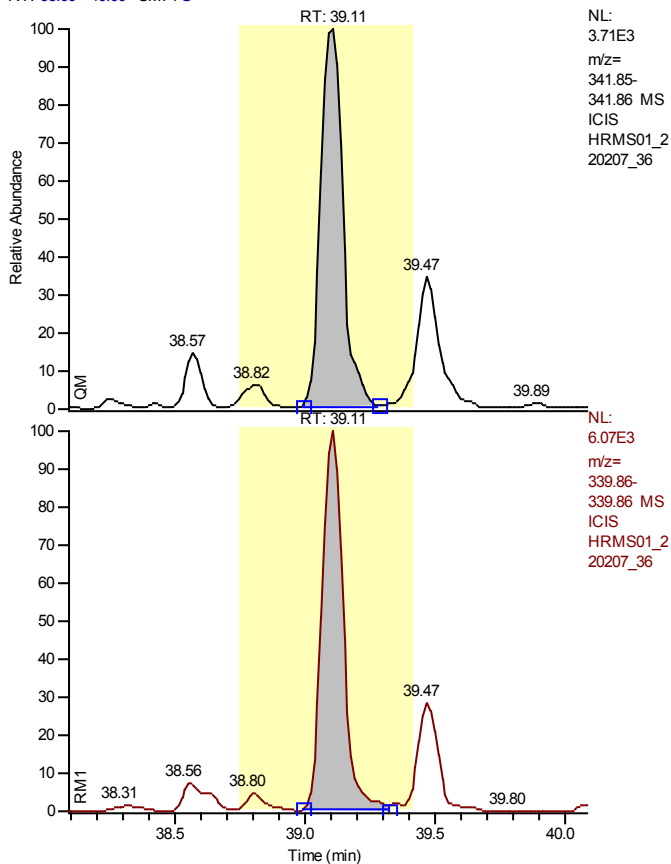
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G



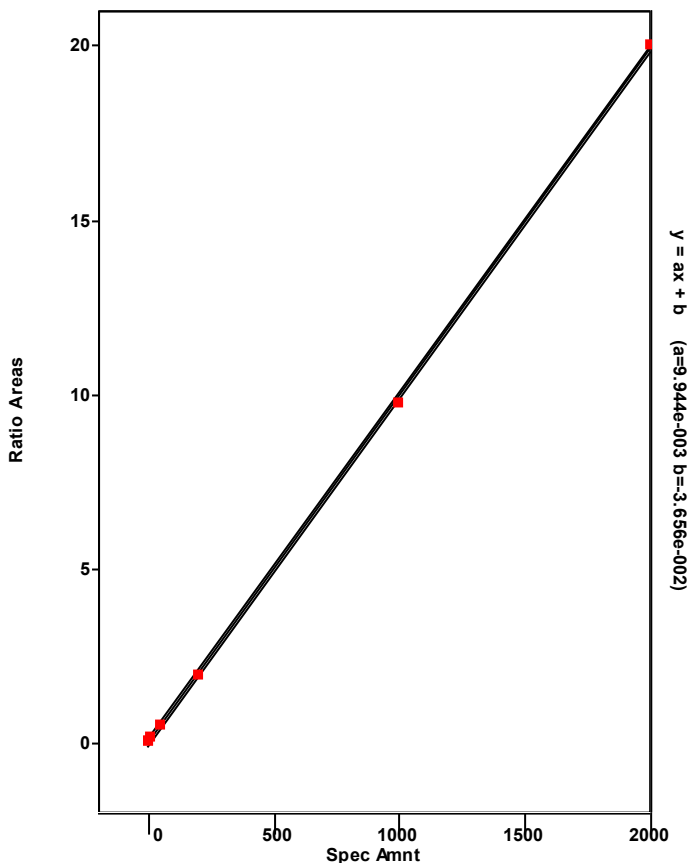
NL:
 3.71E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 6.07E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	21618
RM1 Area	33968
RM1 Ratio (A)	1.5713
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.99
Percent Recovery (A)	---
TEQ (A)	0.0897
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

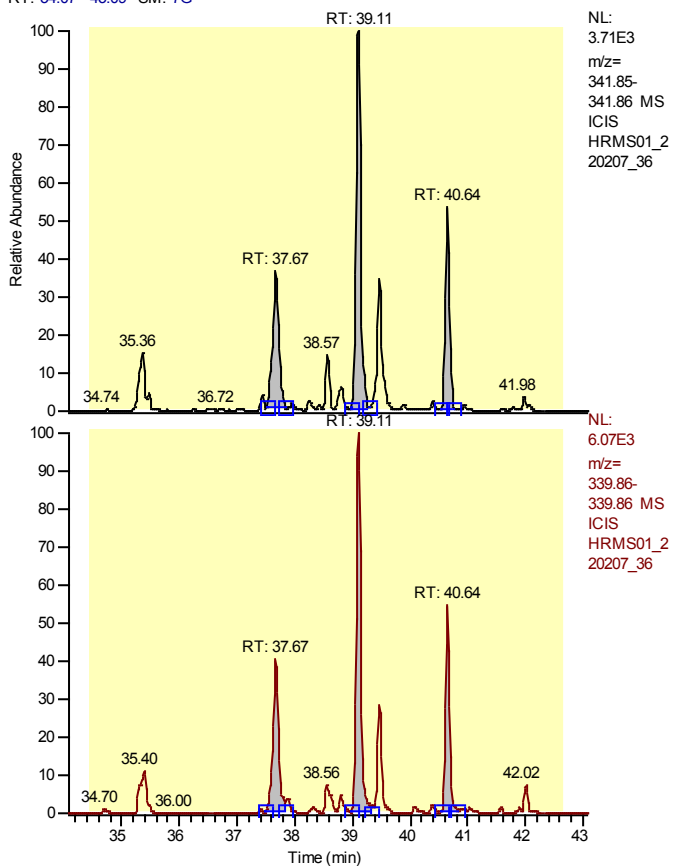
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

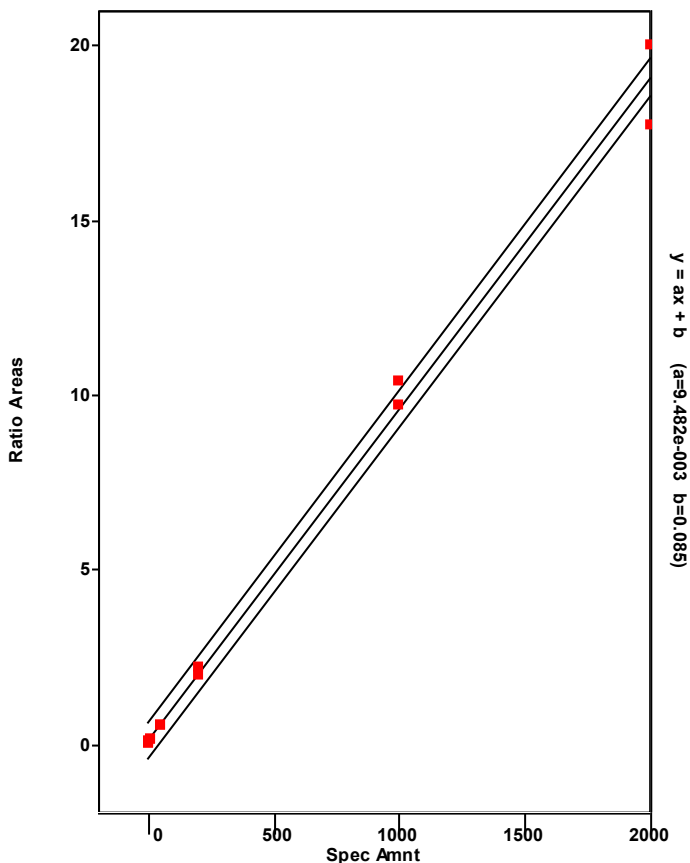
RT: 34.07 - 43.09 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	41530
RM1 Area	66103
RM1 Ratio (A)	1.5917
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	5.70
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran

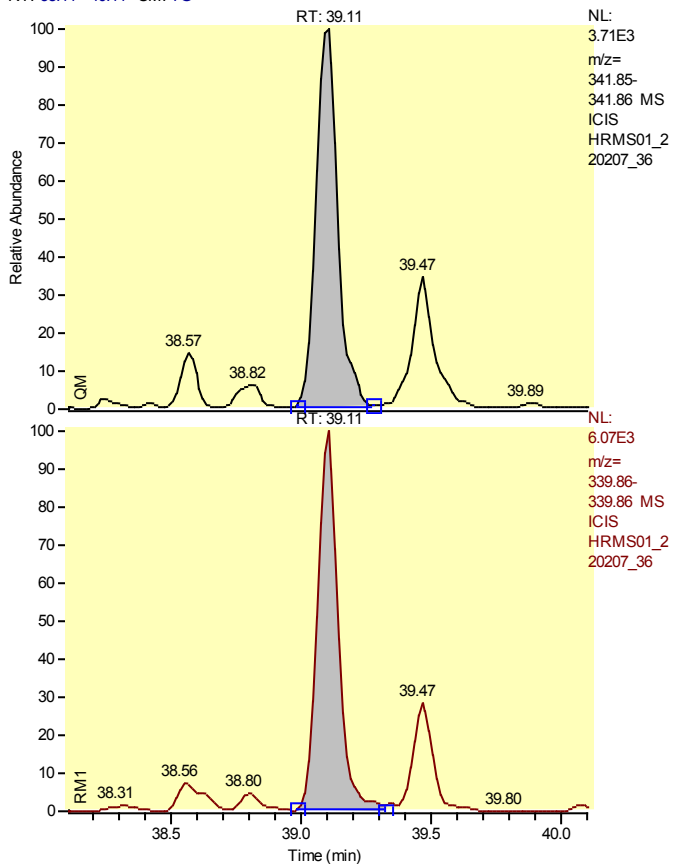
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

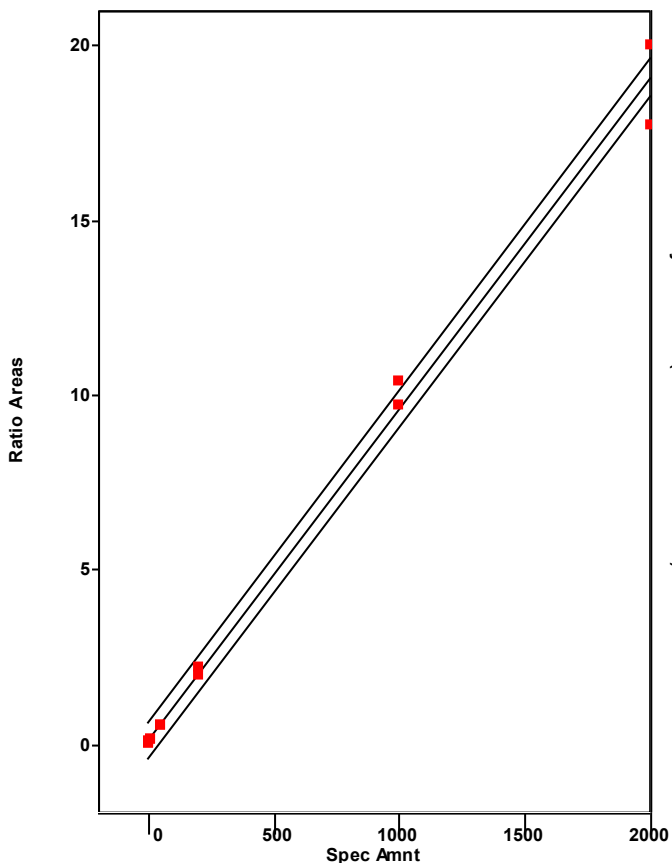
RT: 38.11-40.11 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	21618
RM1 Area	33968
RM1 Ratio (A)	1.5713
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.94
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

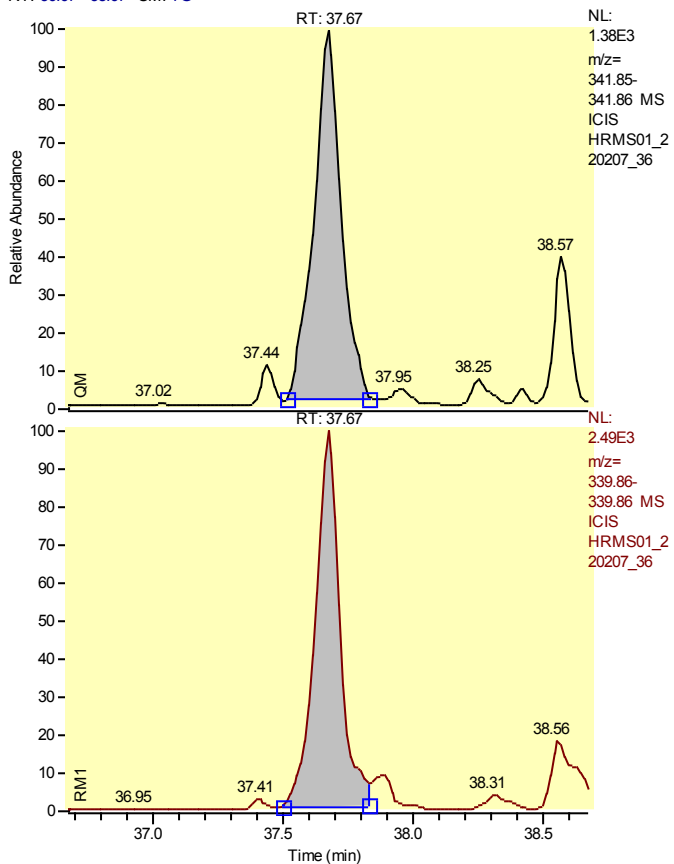
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

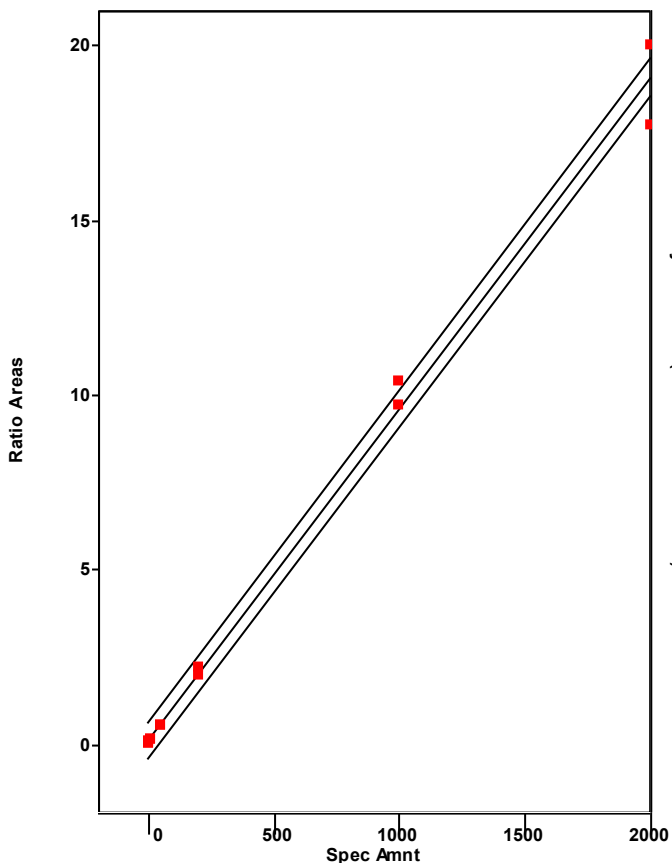
RT: 36.67 - 38.67 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	9876
RM1 Area	16338
RM1 Ratio (A)	1.6543
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.39
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__2

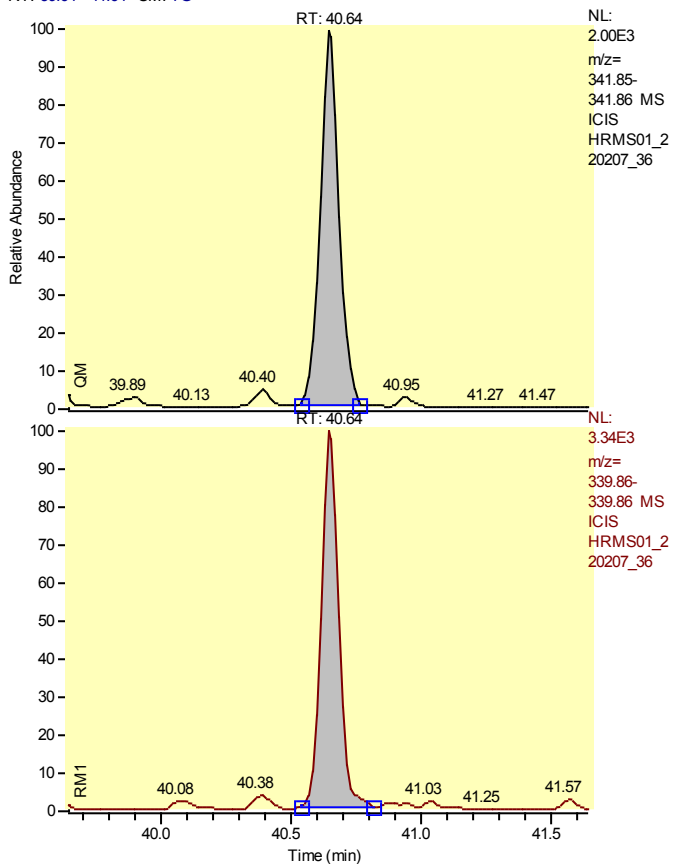
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

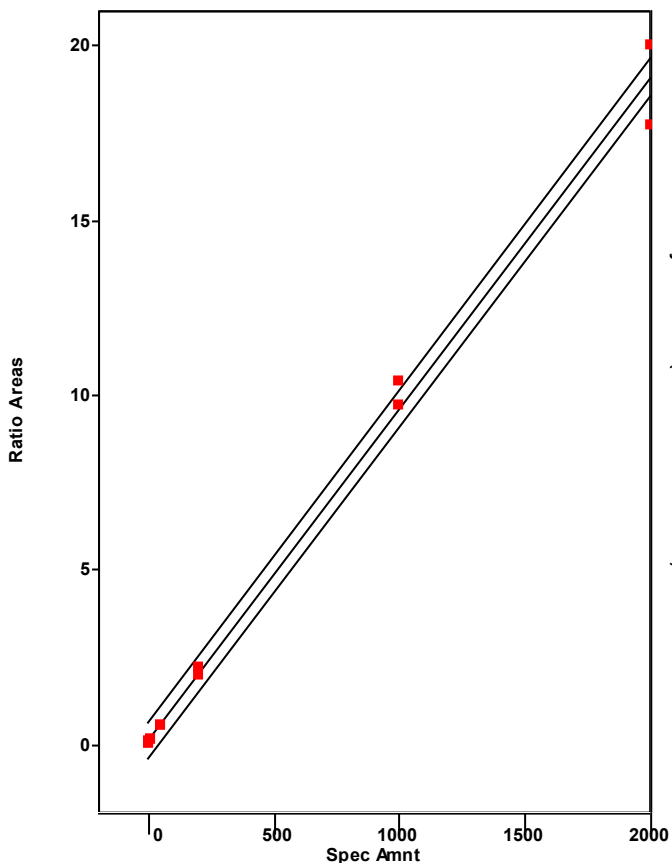
RT: 39.64 - 41.64 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__4
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	10036
RM1 Area	15797
RM1 Ratio (A)	1.5740
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.37
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__4

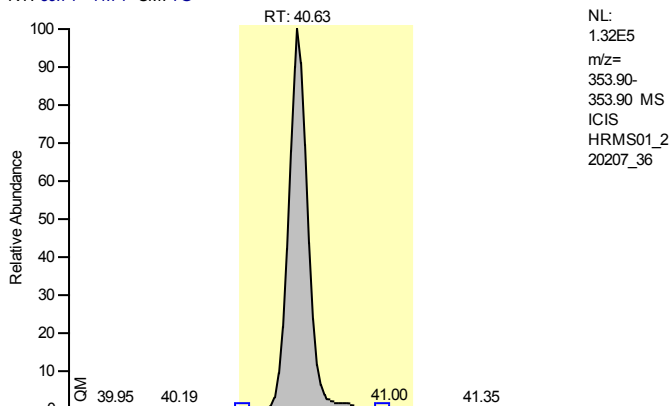
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



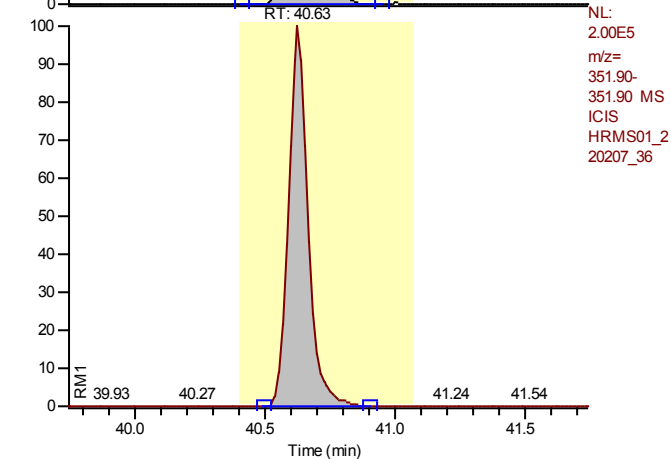
Chromatogram

Entry Parameters

RT: 39.74 - 41.74 SM: 7G

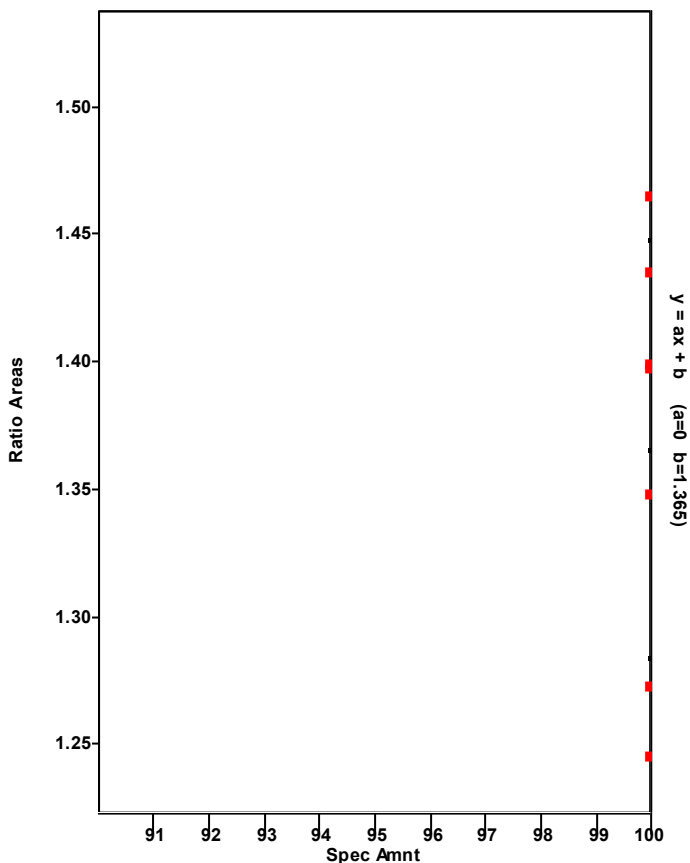


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	692909
RM1 Area	1068249
RM1 Ratio (A)	1.5417
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	61.78
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

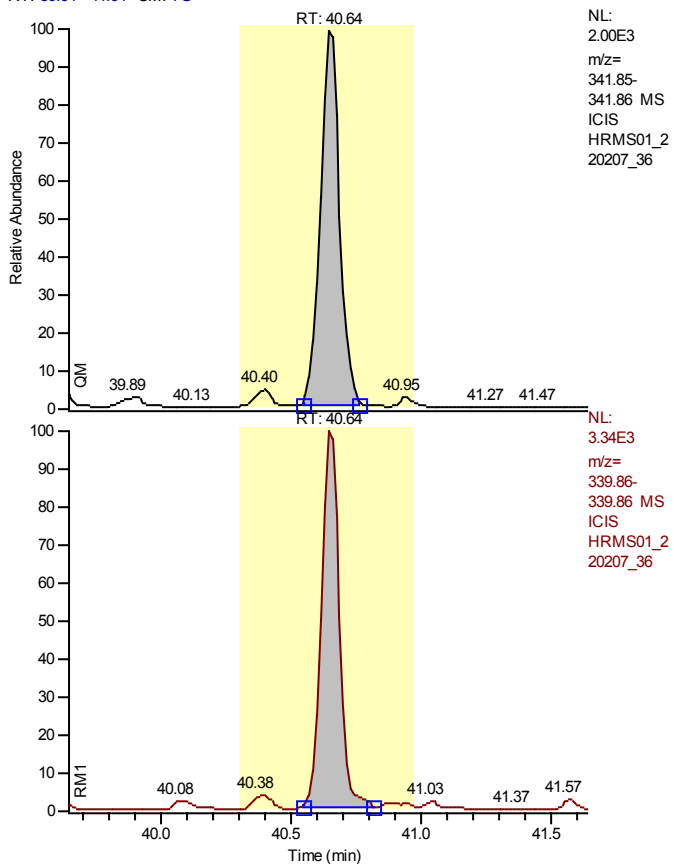
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G



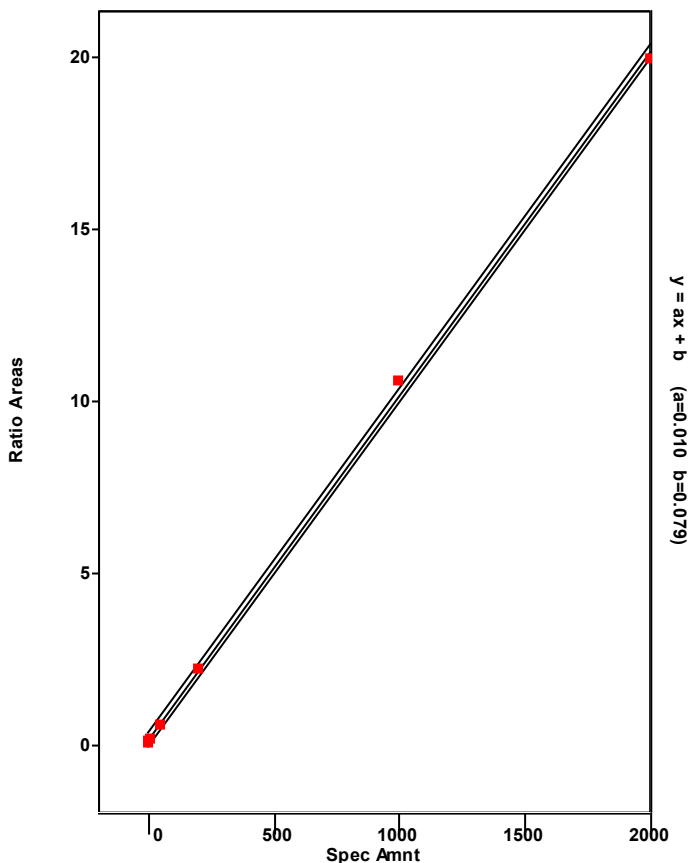
NL:
 2.00E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 3.34E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	10036
RM1 Area	15797
RM1 Ratio (A)	1.5740
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.35
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

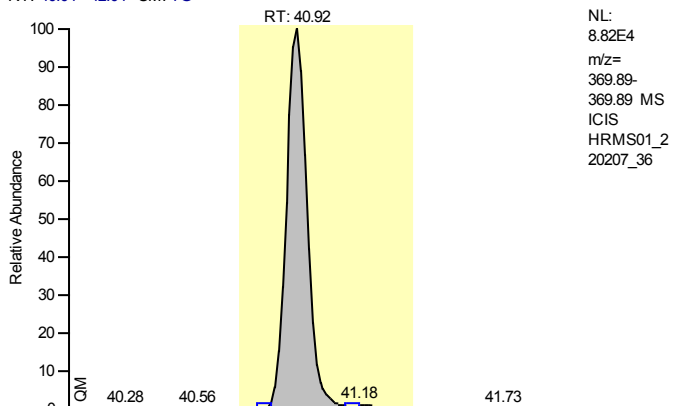
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



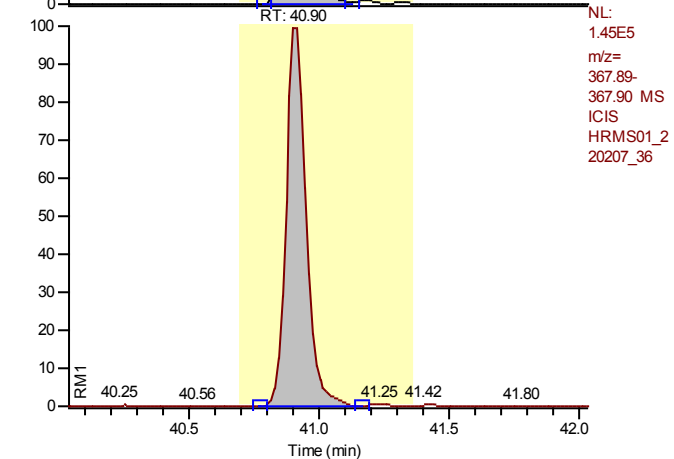
Chromatogram

Entry Parameters

RT: 40.04 - 42.04 SM: 7G

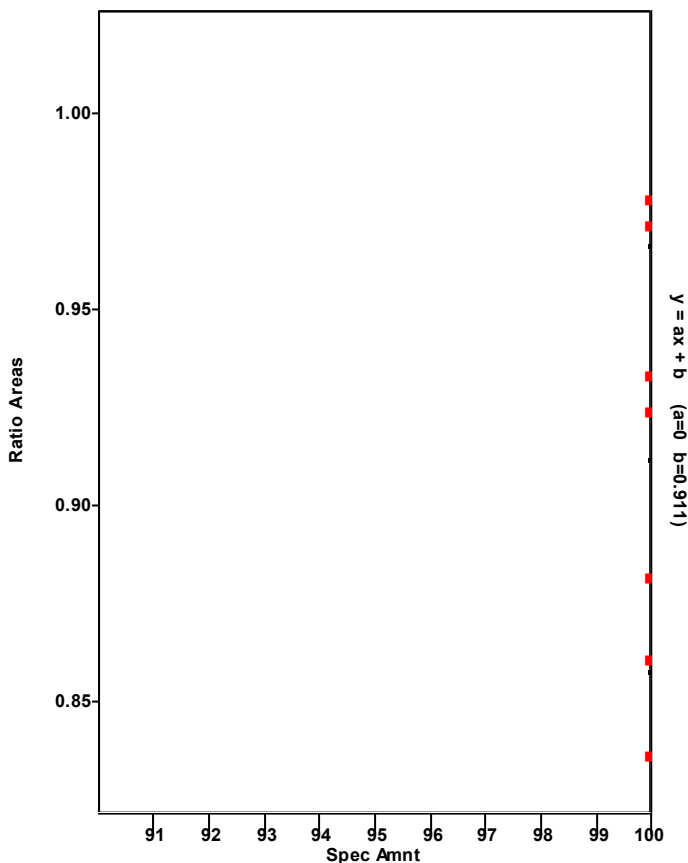


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	490471
RM1 Area	777723
RM1 Ratio (A)	1.5857
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	66.62
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

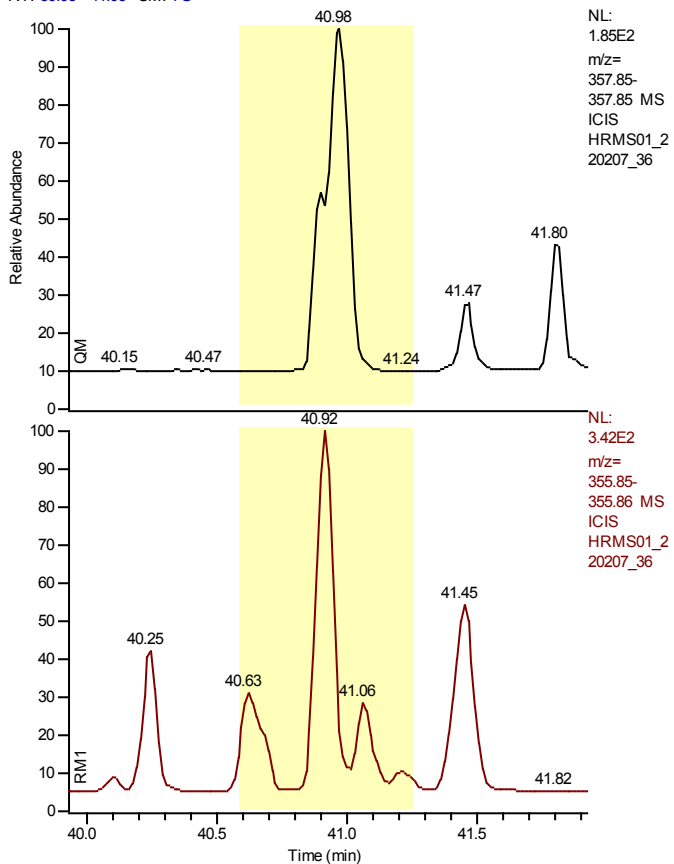
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

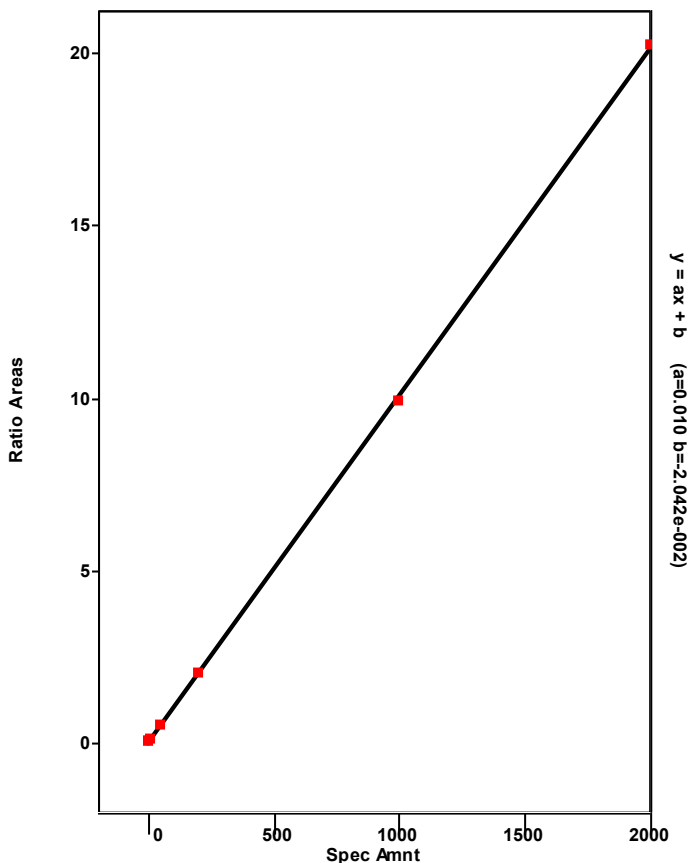
RT: 39.93 - 41.93 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

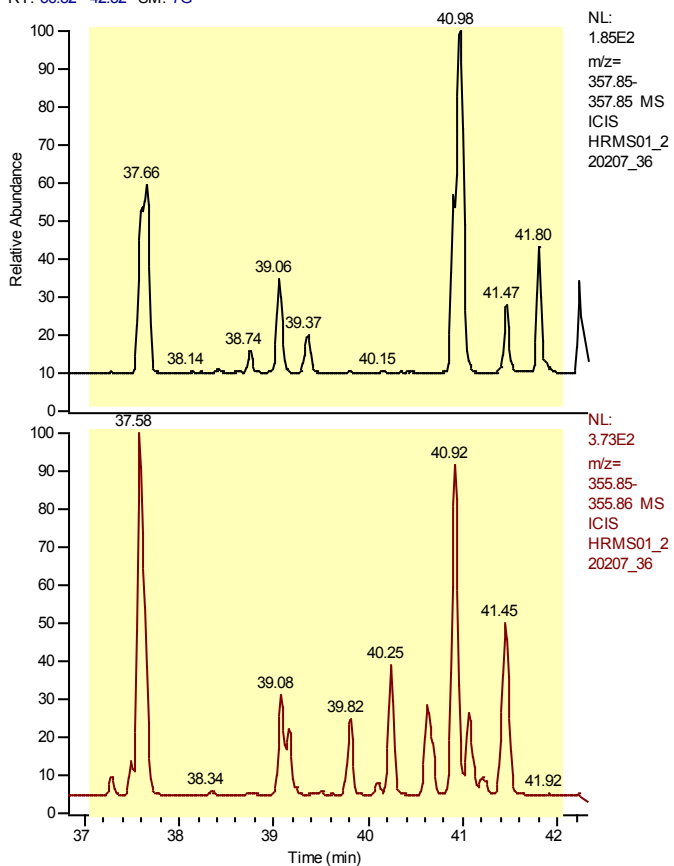
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

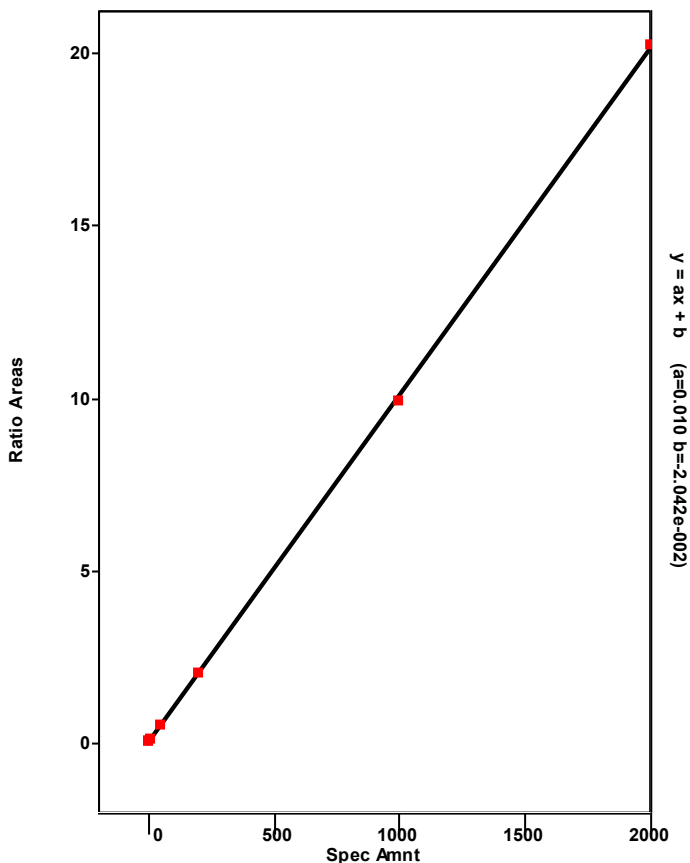
RT: 36.82 - 42.32 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin

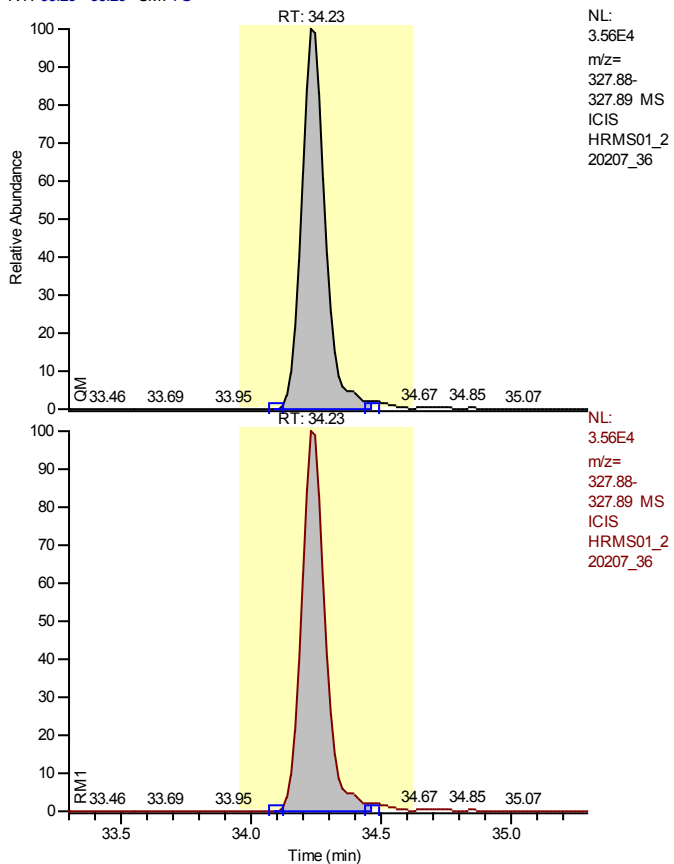
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

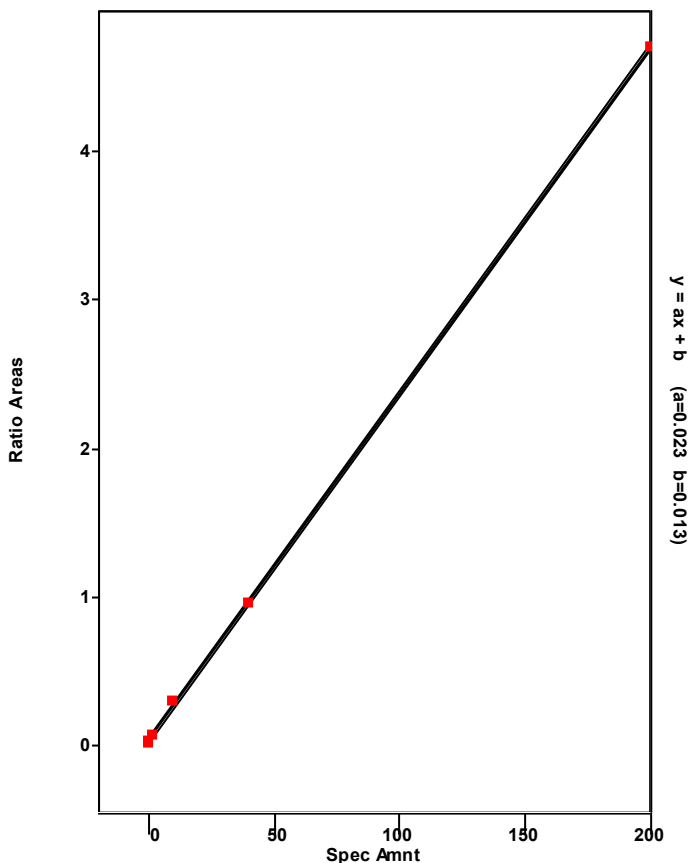
RT: 33.29 - 35.29 SM: 7G



Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	222201
RM1 Area	222201
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.50
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

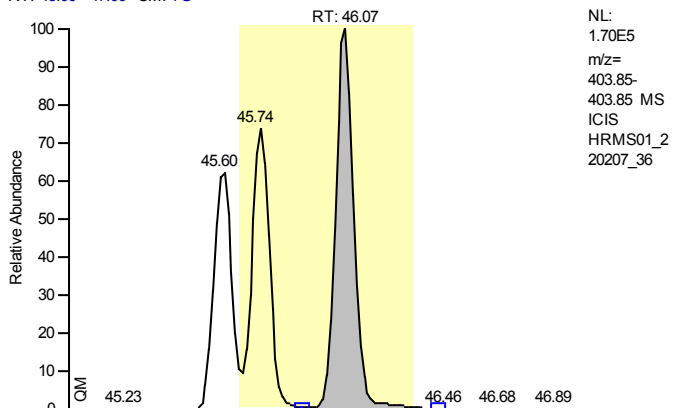
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

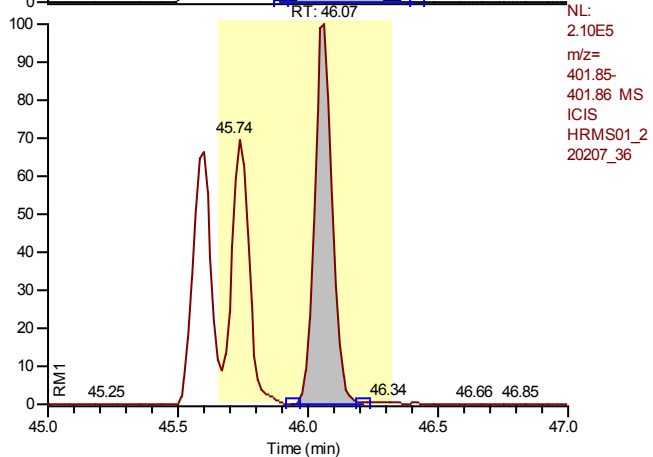
Entry Parameters

RT: 45.00 - 47.00 SM: 7G



NL:
 1.70E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_36

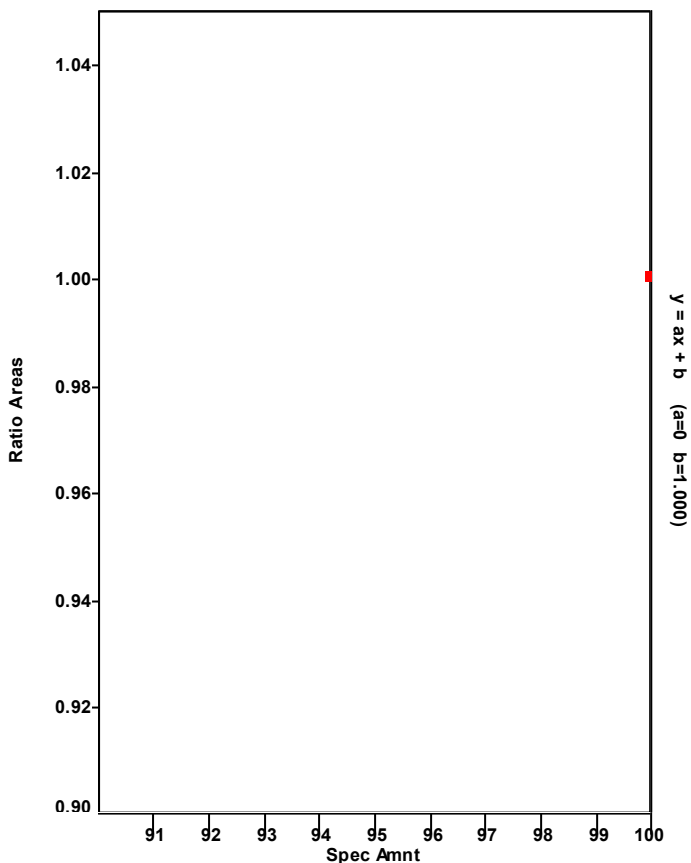
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	837854
RM1 Area	992224
RM1 Ratio (A)	1.1842
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
 2.10E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

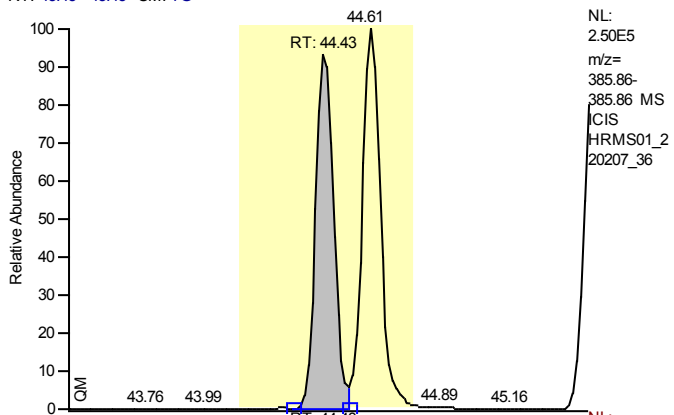
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



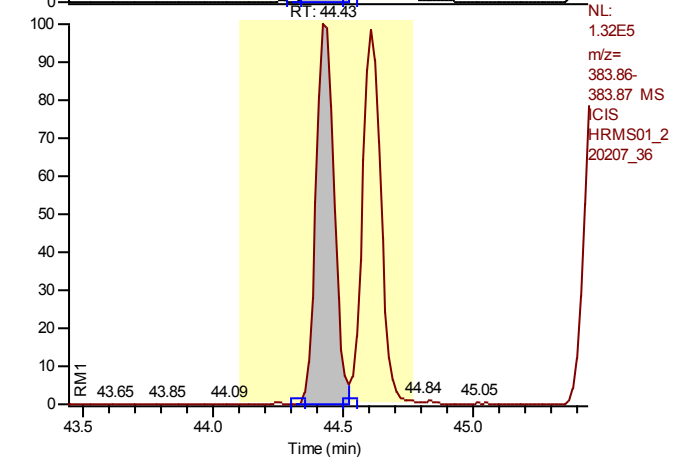
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

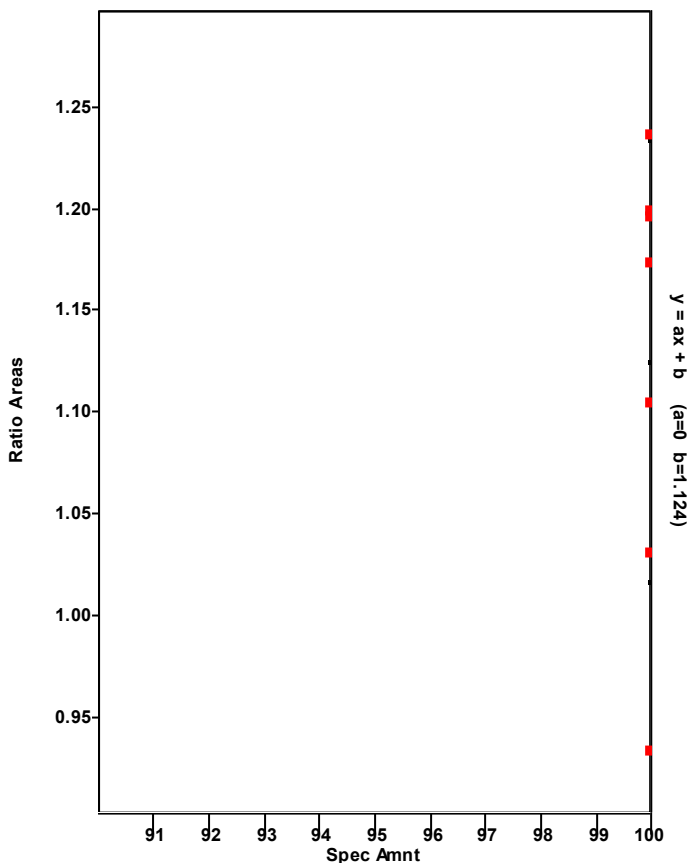


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1107493
RM1 Area	624771
RM1 Ratio (A)	0.5641
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	84.25
Percent Recovery (A)	84
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

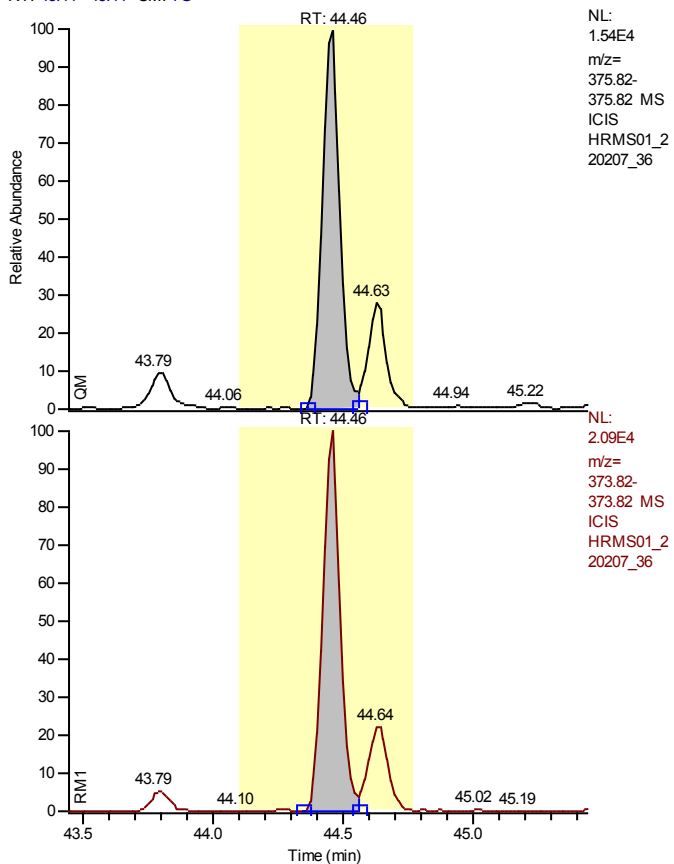
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G



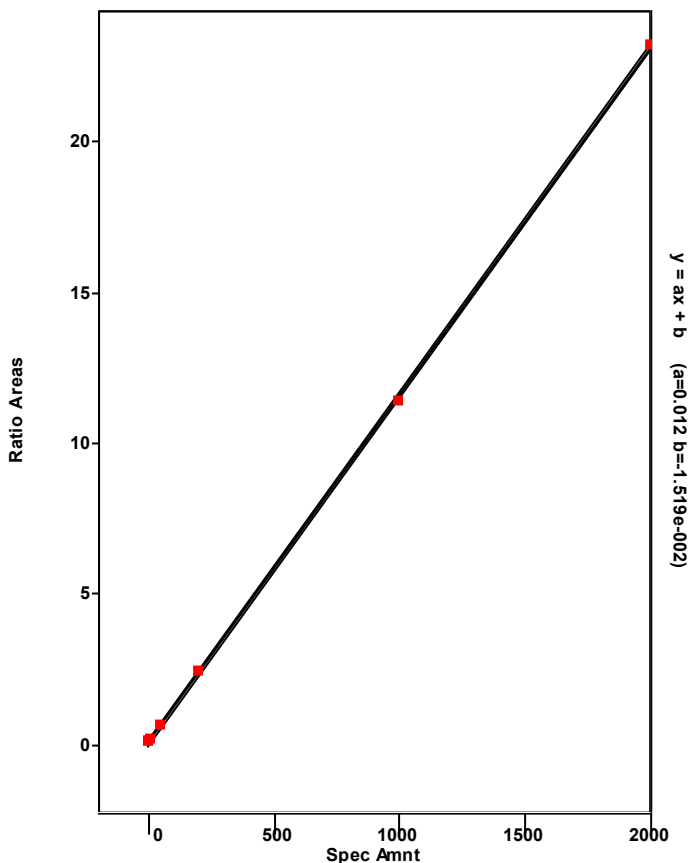
NL:
 1.54E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 2.09E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	71796
RM1 Area	96340
RM1 Ratio (A)	1.3418
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	8.42
Percent Recovery (A)	---
TEQ (A)	0.8421
Label2	

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

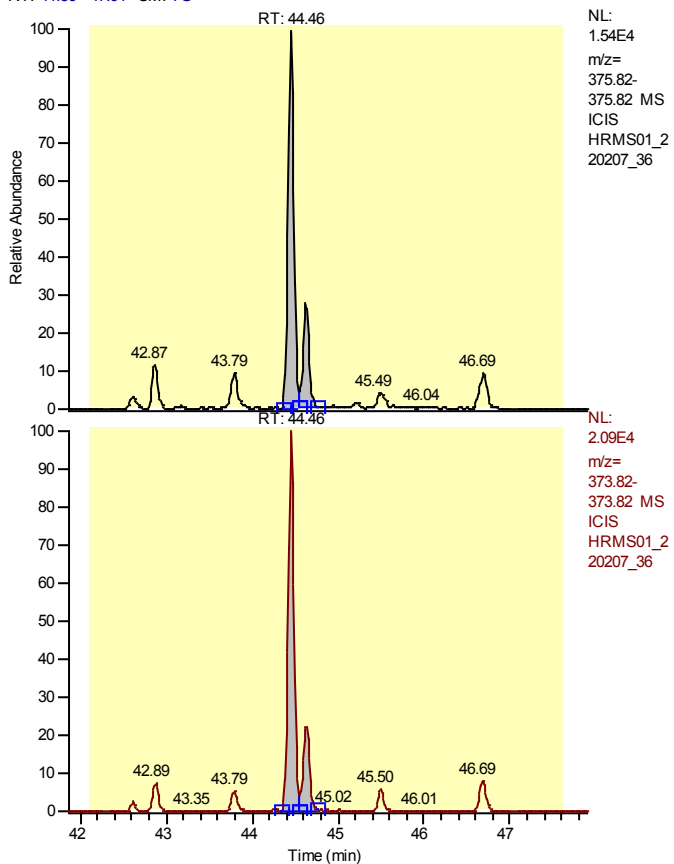
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

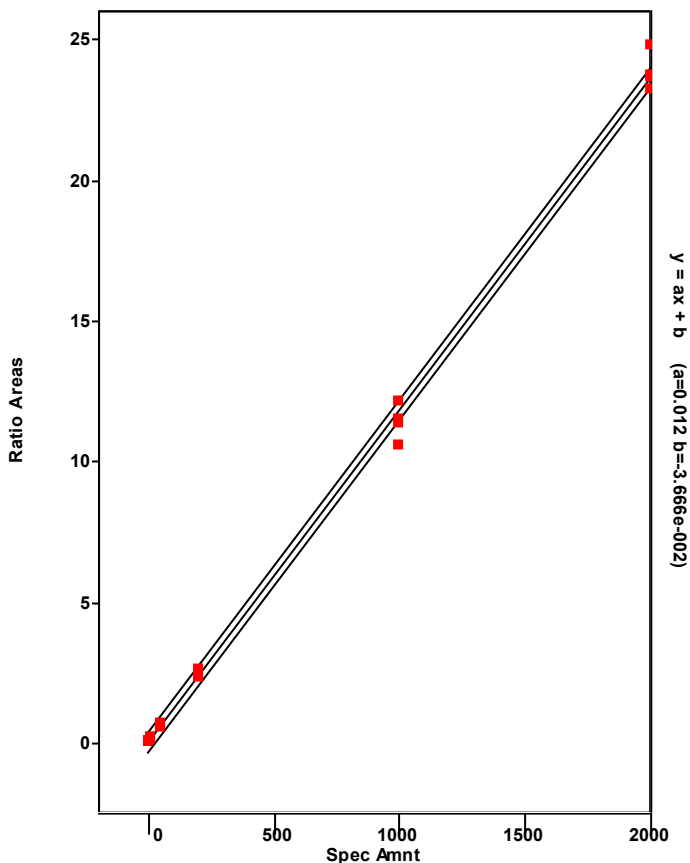
RT: 41.86 - 47.91 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	92260
RM1 Area	120791
RM1 Ratio (A)	1.3092
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	10.29
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran

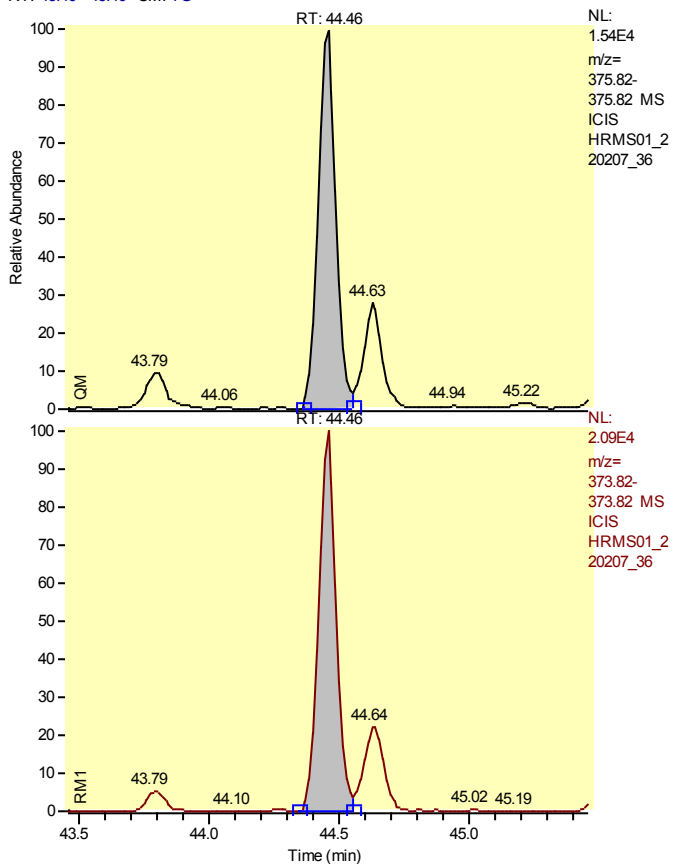
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

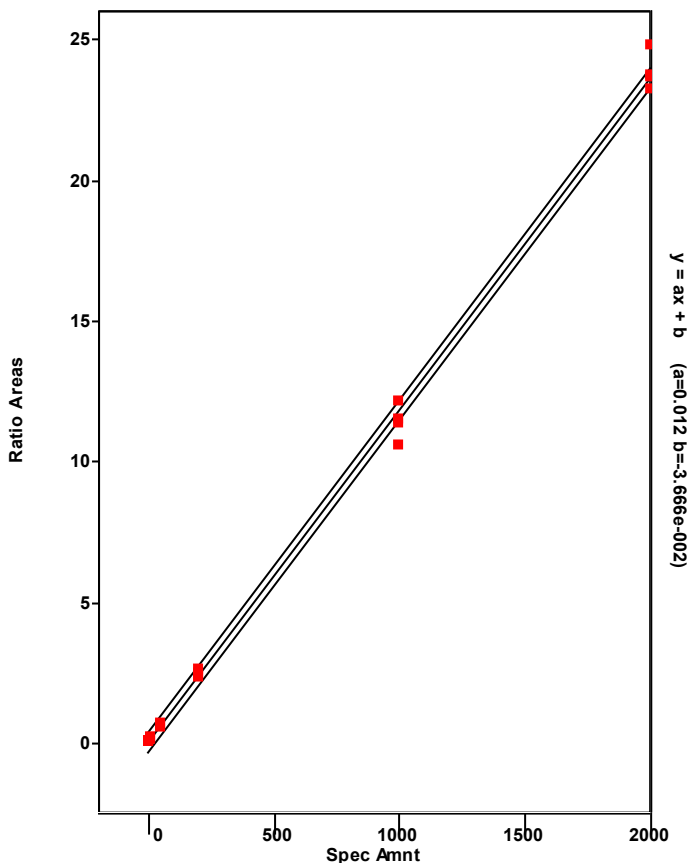
RT: 43.46 - 45.46 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	71796
RM1 Area	96340
RM1 Ratio (A)	1.3418
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	8.12
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__1

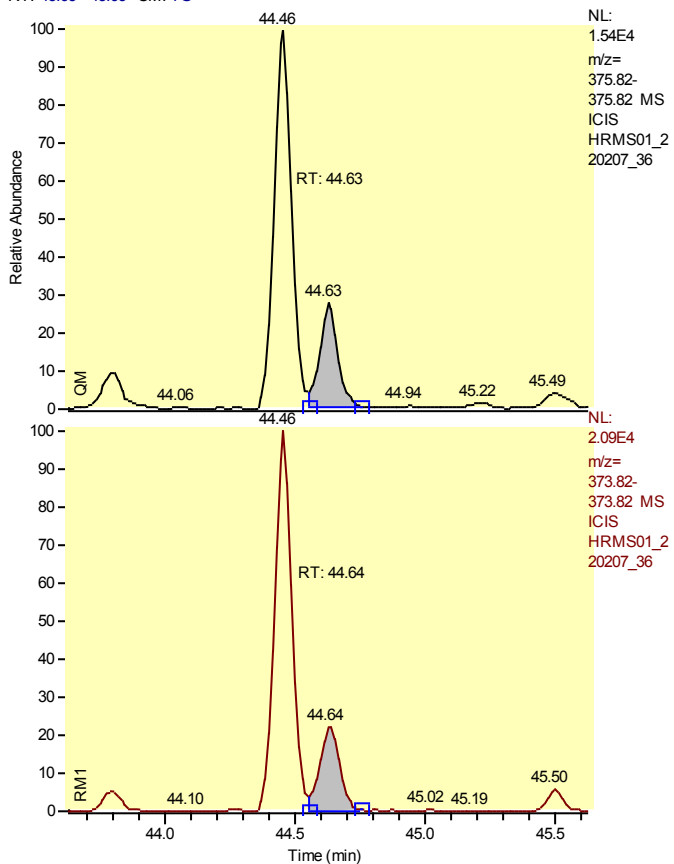
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

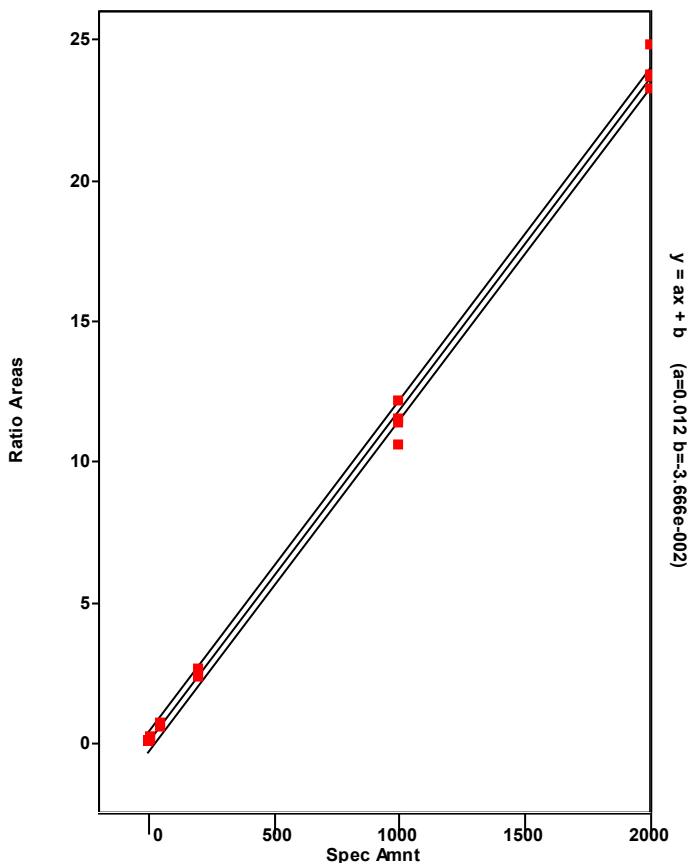
RT: 43.63 - 45.63 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	20463
RM1 Area	24451
RM1 Ratio (A)	1.1949
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.17
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

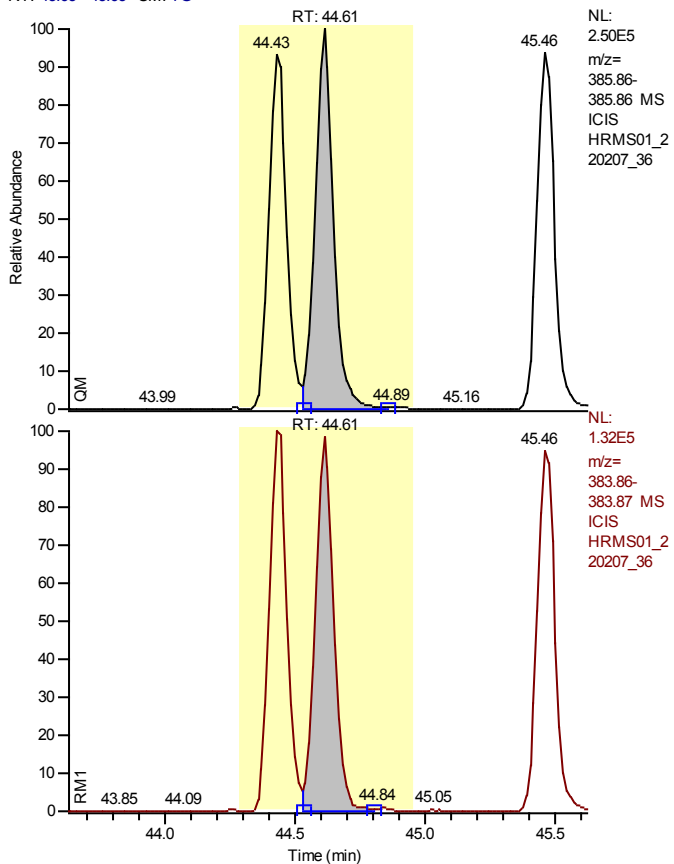
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

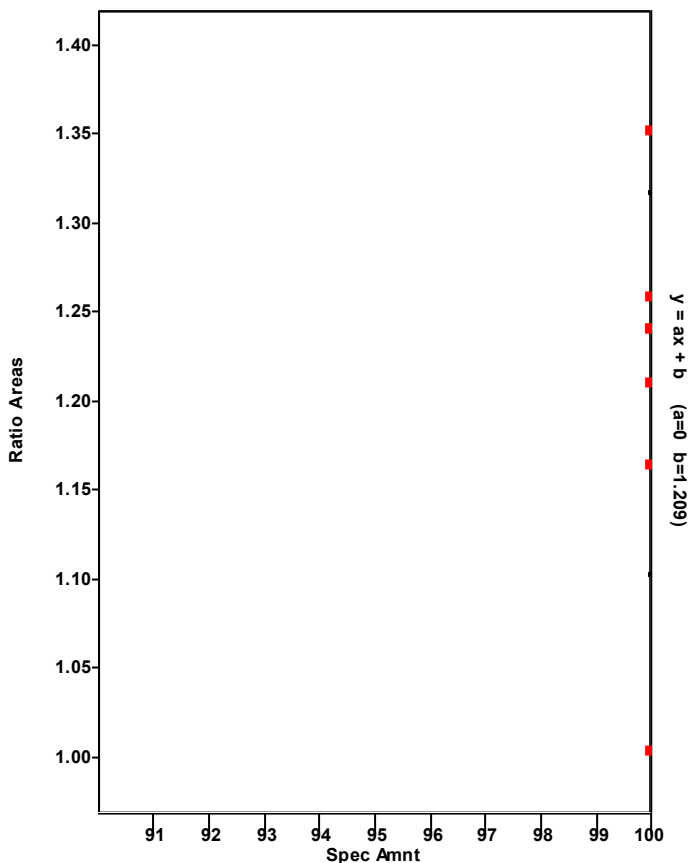
RT: 43.63 - 45.63 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1230245
RM1 Area	641968
RM1 Ratio (A)	0.5218
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	84.65
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

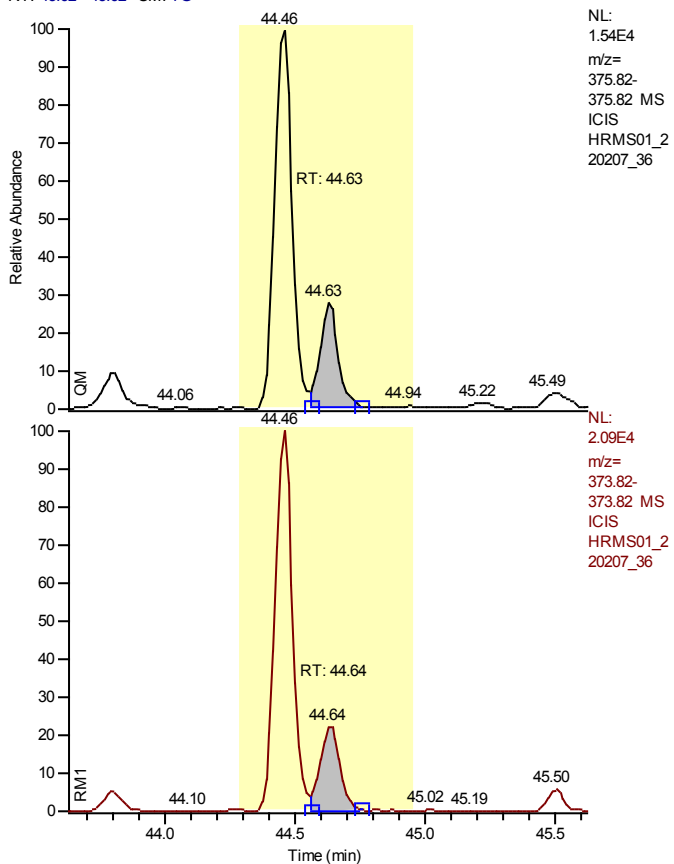
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

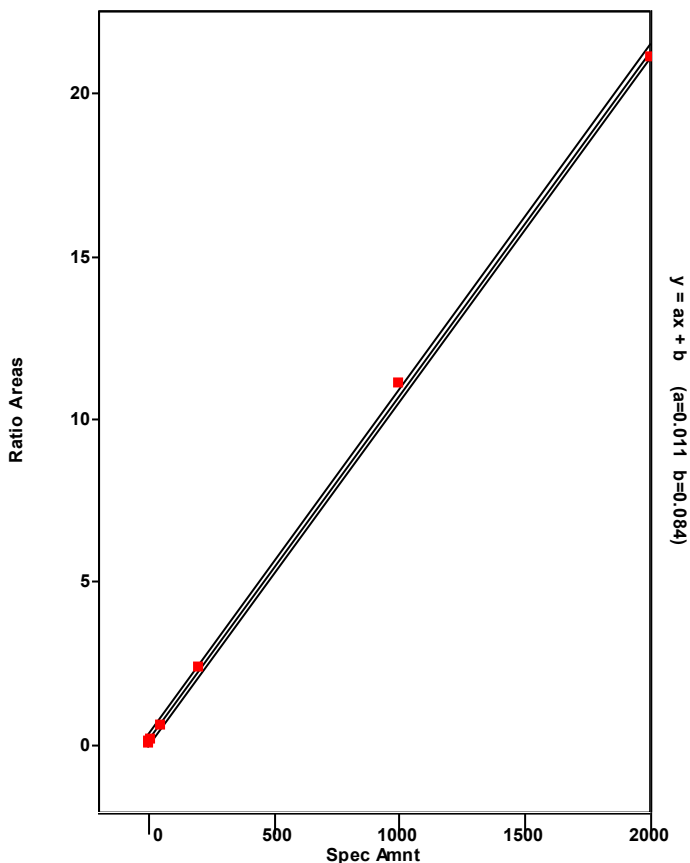
RT: 43.62 - 45.62 SM: 7G



Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	20463
RM1 Area	24451
RM1 Ratio (A)	1.1949
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	2.10
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

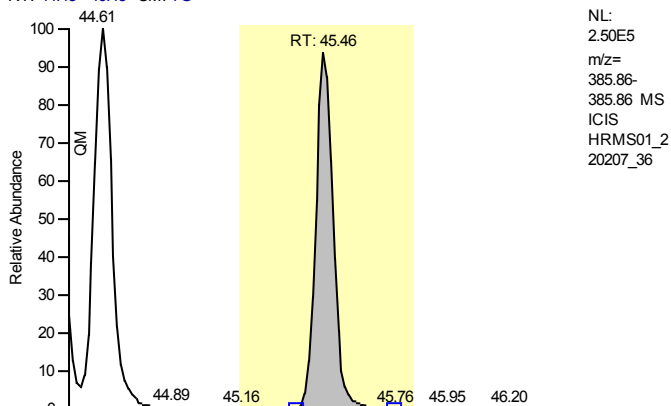
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

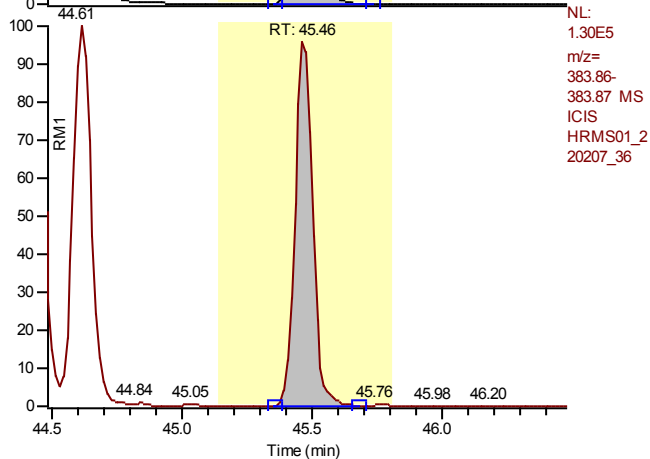
Entry Parameters

RT: 44.48 - 46.48 SM: 7G



NL:
 2.50E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_36

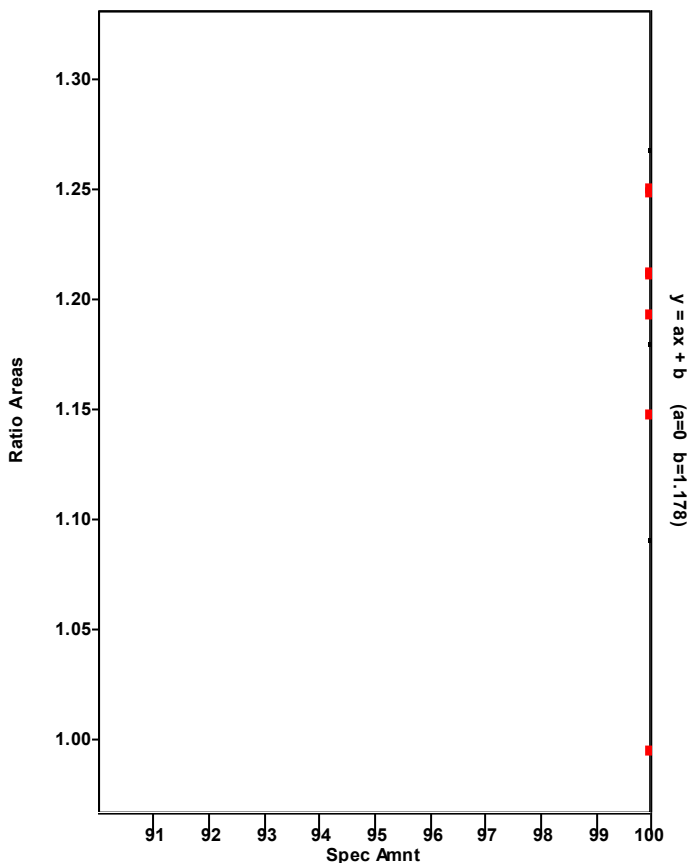
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1099199
RM1 Area	591608
RM1 Ratio (A)	0.5382
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	78.44
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	



NL:
 1.30E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

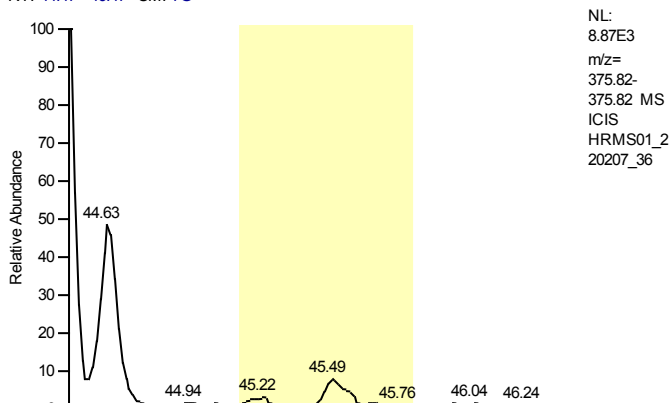
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



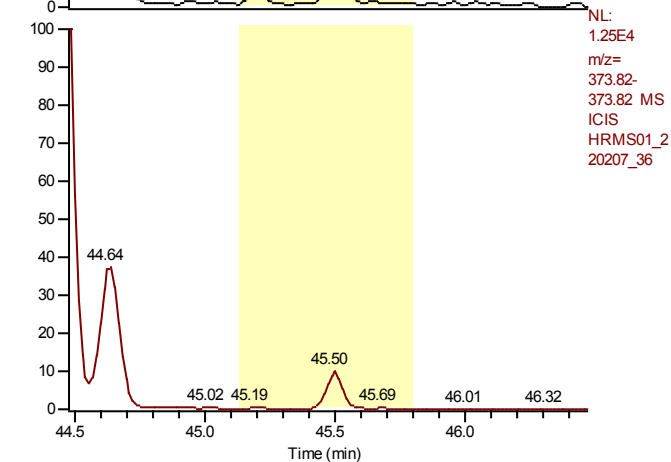
Chromatogram

Entry Parameters

RT: 44.47 - 46.47 SM: 7G

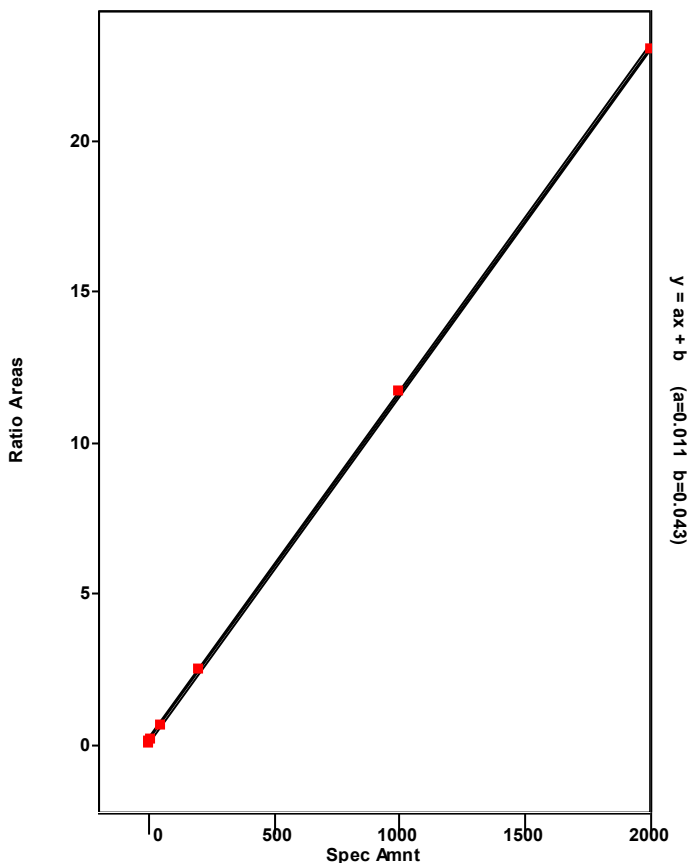


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

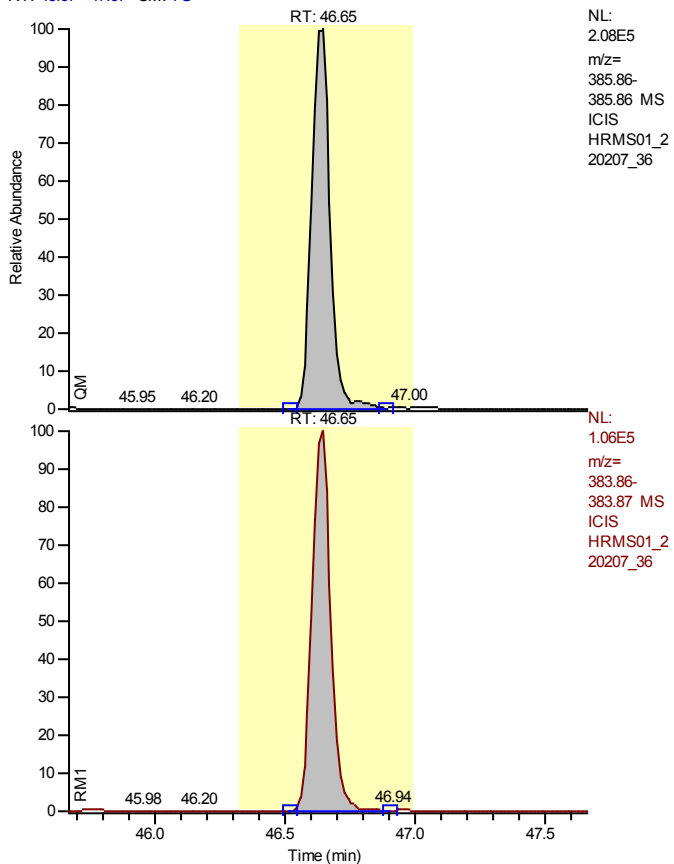
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

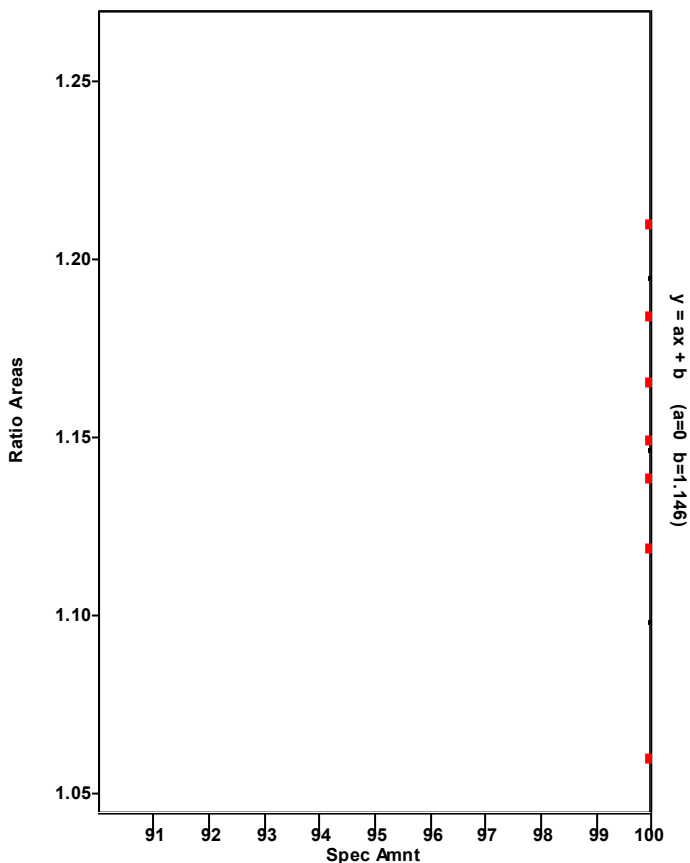
RT: 45.67 - 47.67 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1035329
RM1 Area	534049
RM1 Ratio (A)	0.5158
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	74.85
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

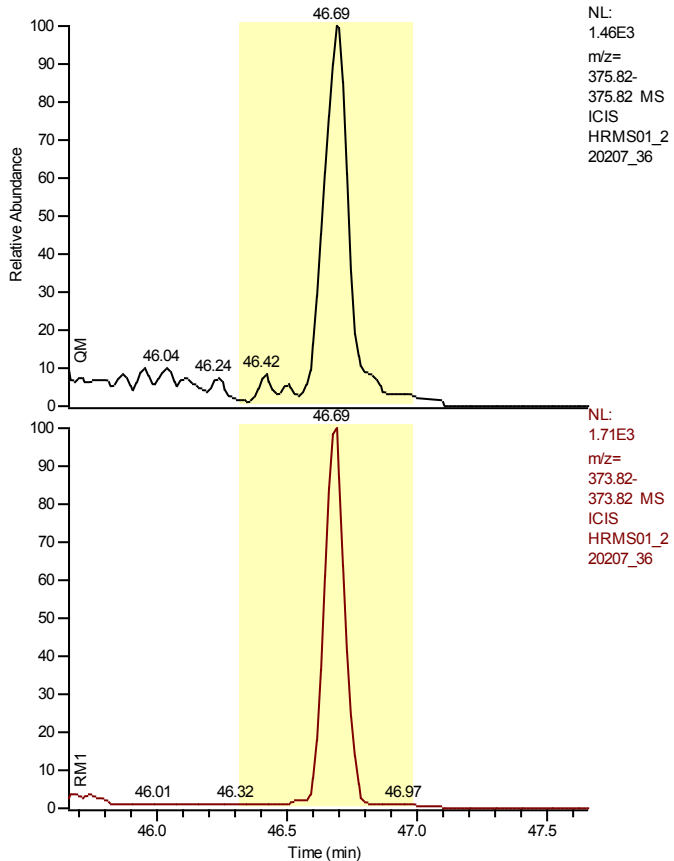
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



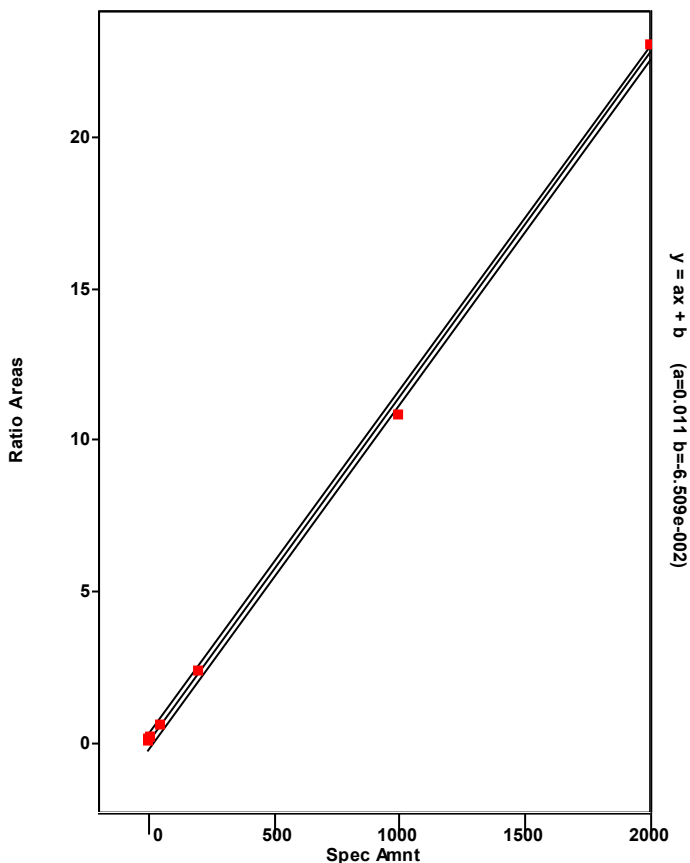
NL:
 1.46E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 1.71E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

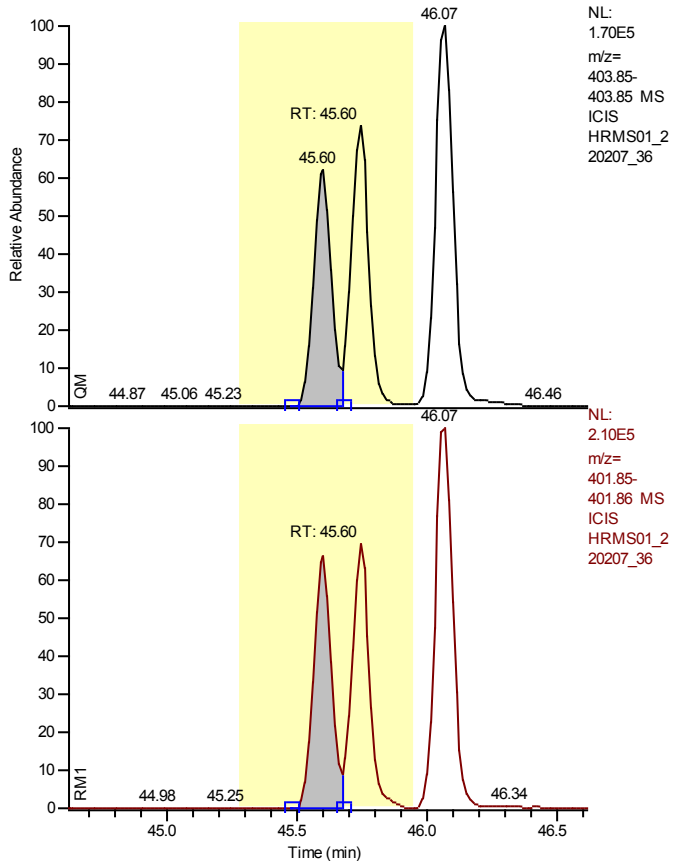
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

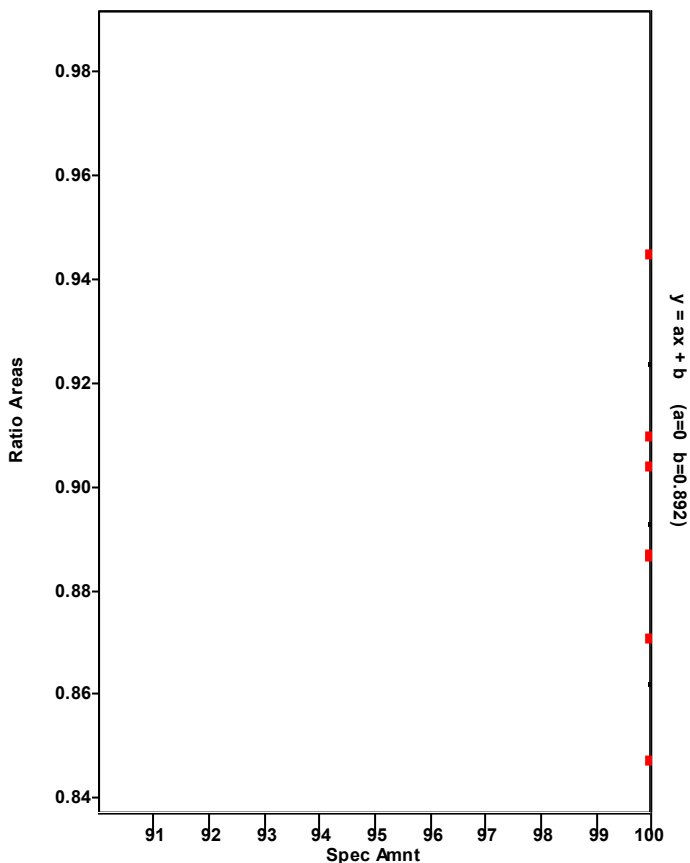
RT: 44.62 - 46.62 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	508463
RM1 Area	671691
RM1 Ratio (A)	1.3210
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	72.27
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

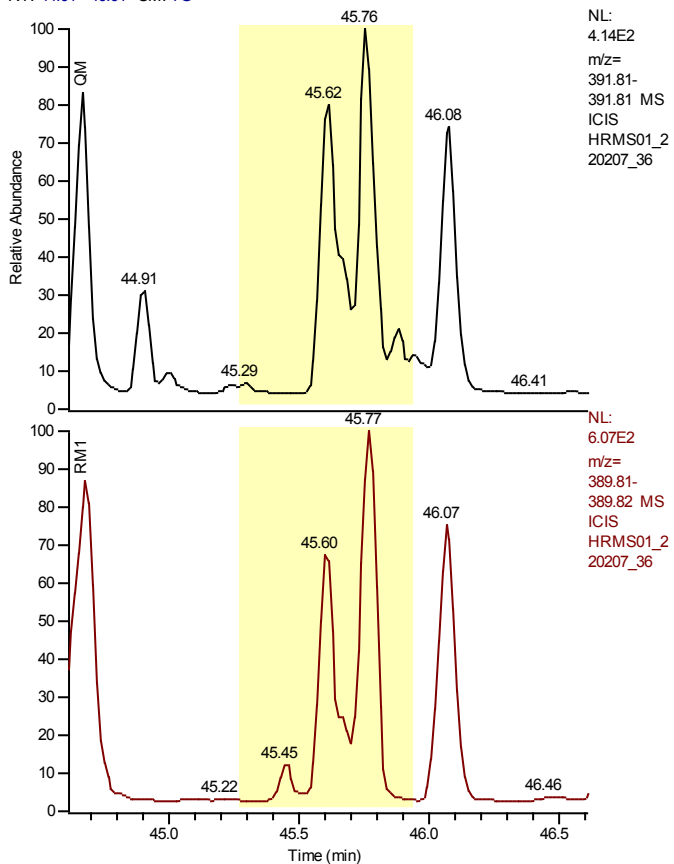
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

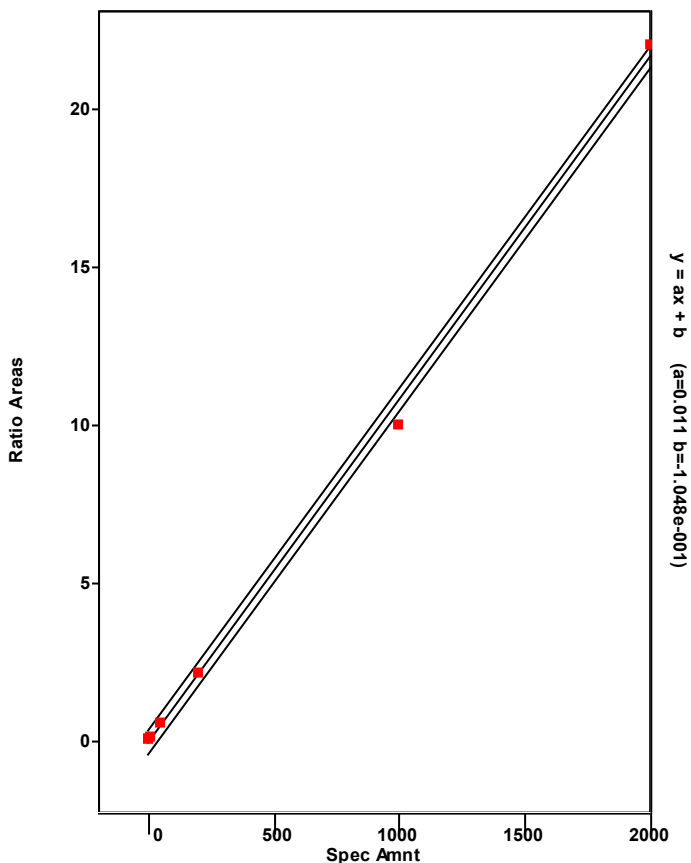
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

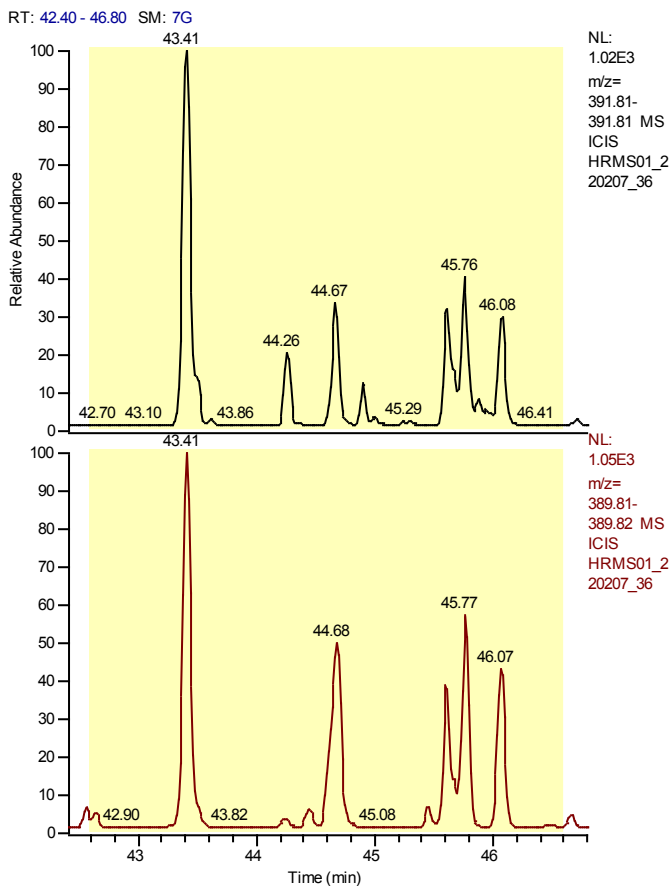
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

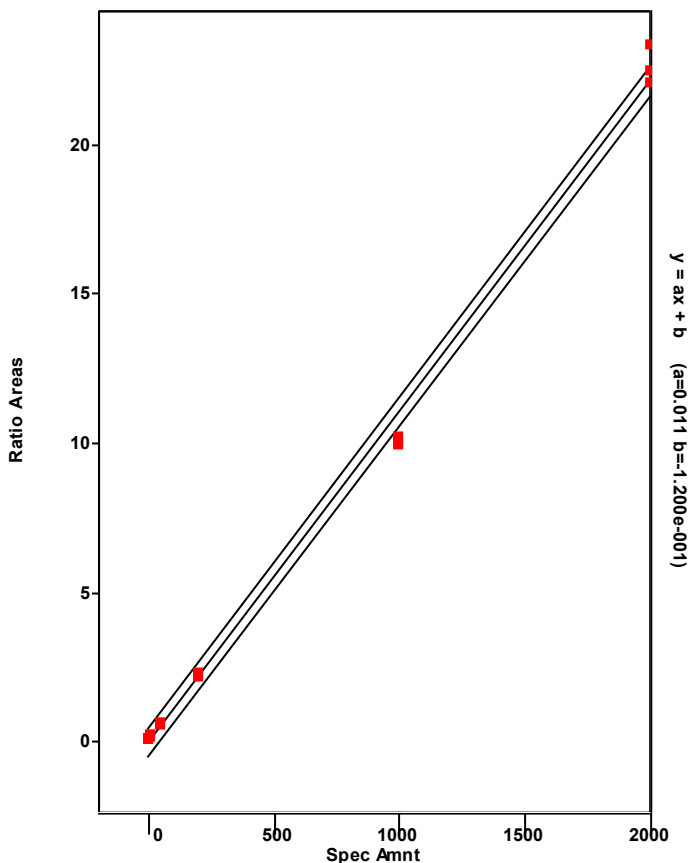
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin

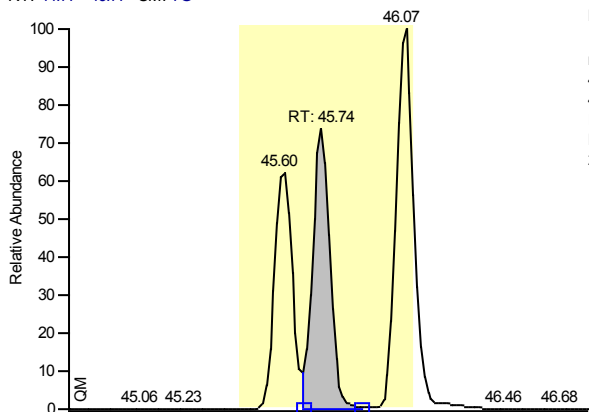
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

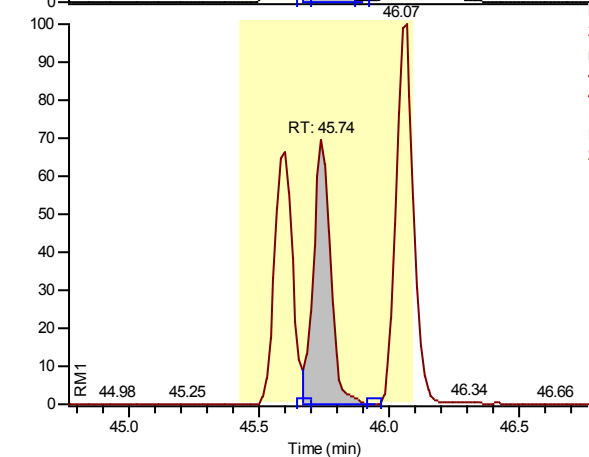
Entry Parameters

RT: 44.77 - 46.77 SM: 7G



NL:
 1.70E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_36

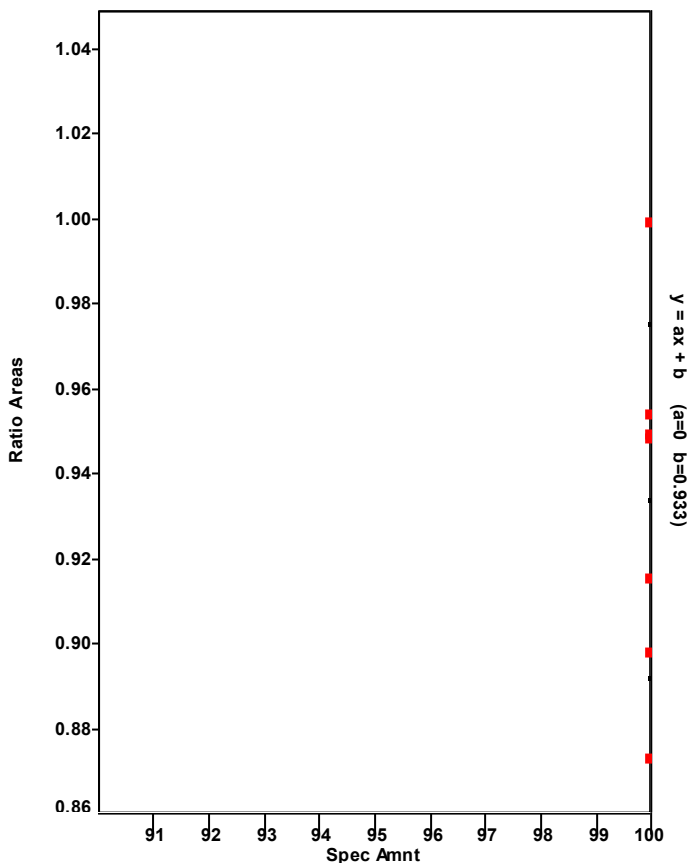
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	587417
RM1 Area	682574
RM1 Ratio (A)	1.1620
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	74.36
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



NL:
 2.10E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

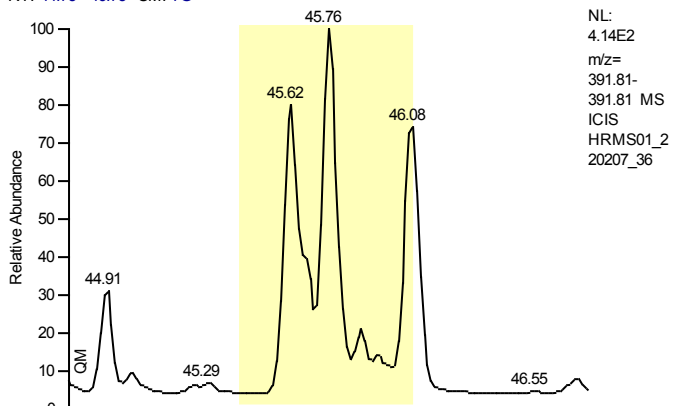
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



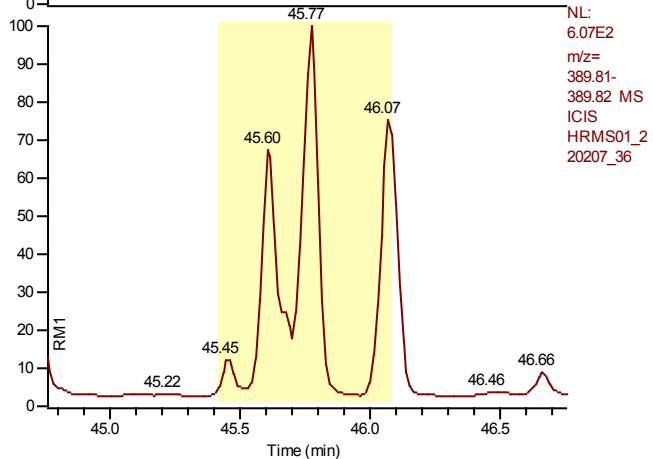
Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G

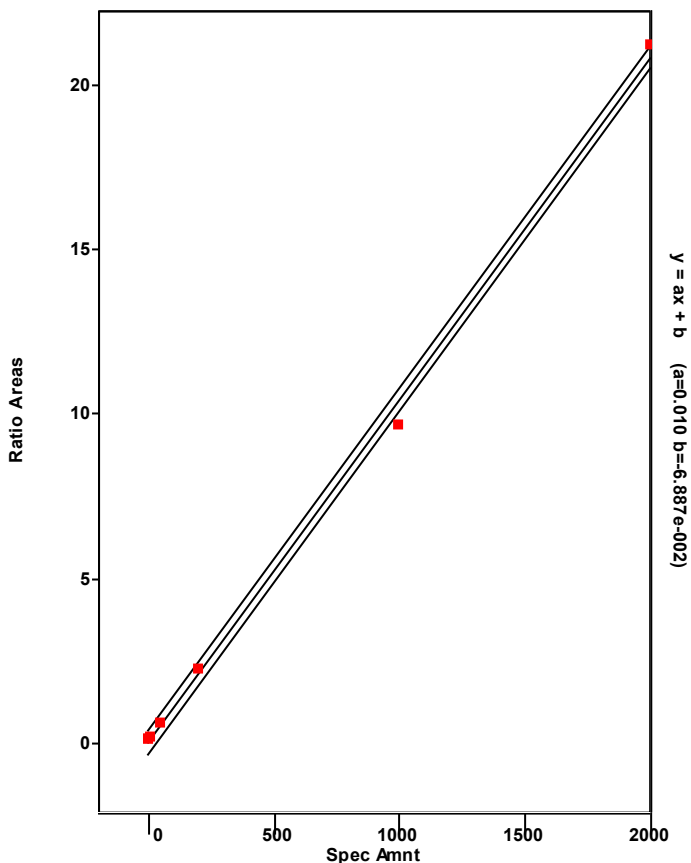


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

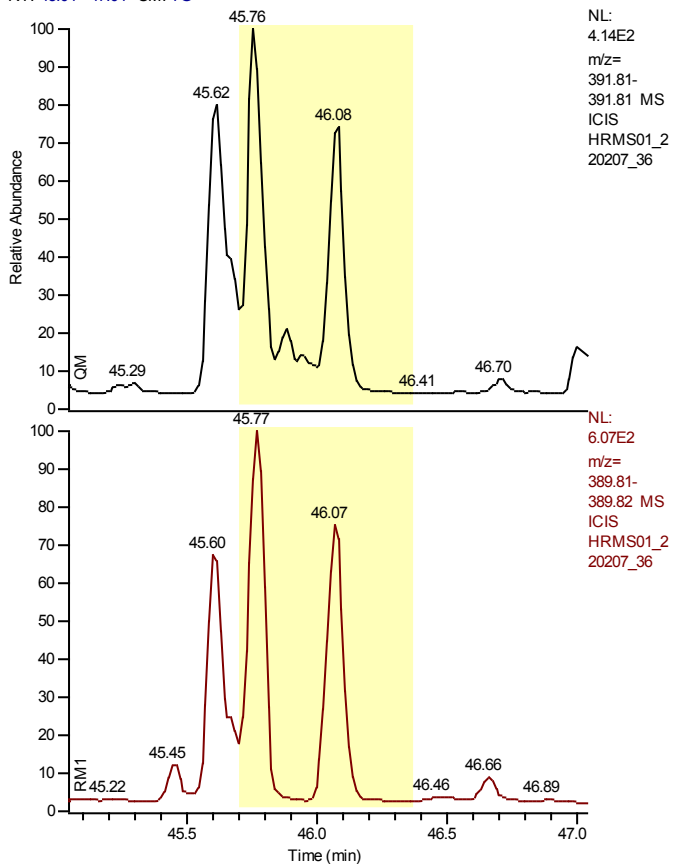
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

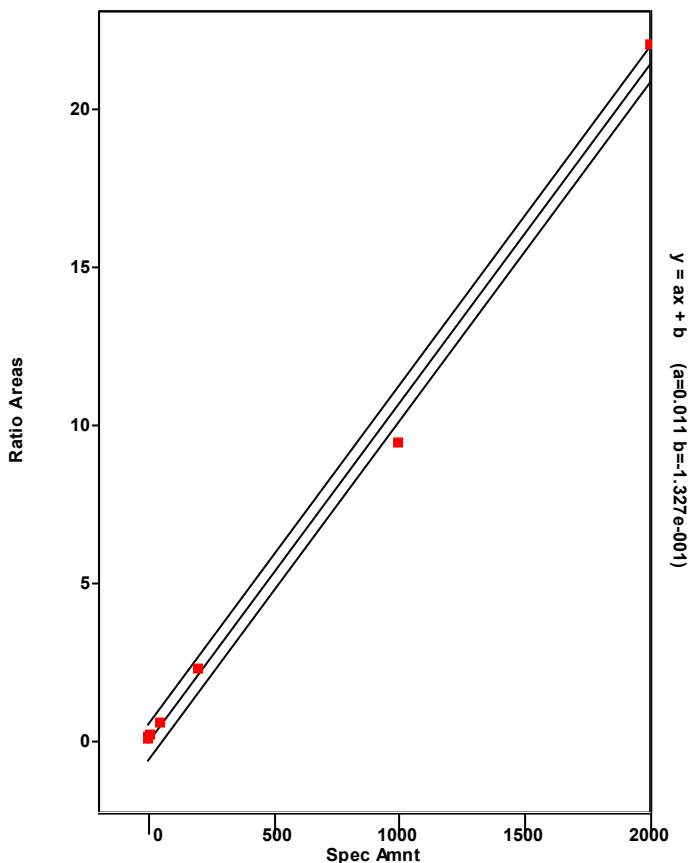
RT: 45.04 - 47.04 SM: 7G



Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

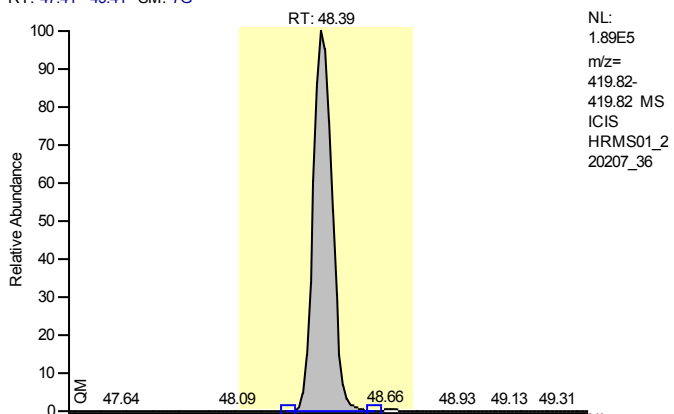
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



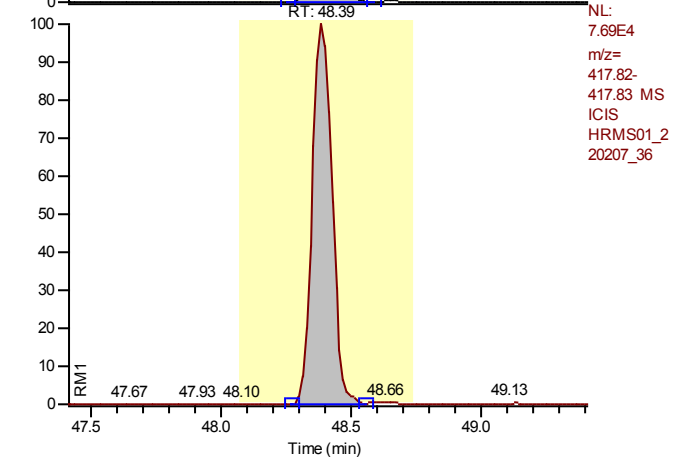
Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

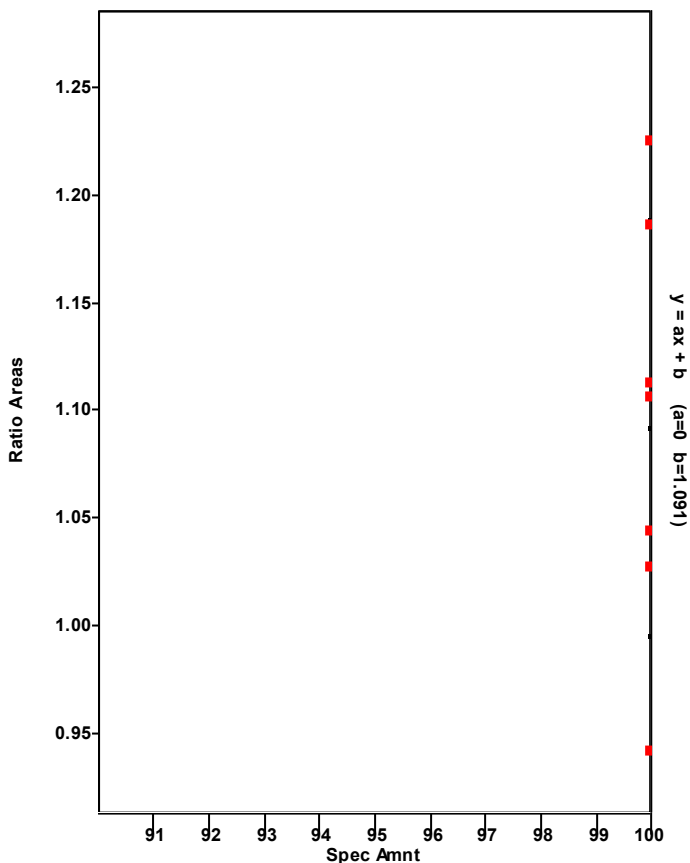


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	959295
RM1 Area	406336
RM1 Ratio (A)	0.4236
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	68.42
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

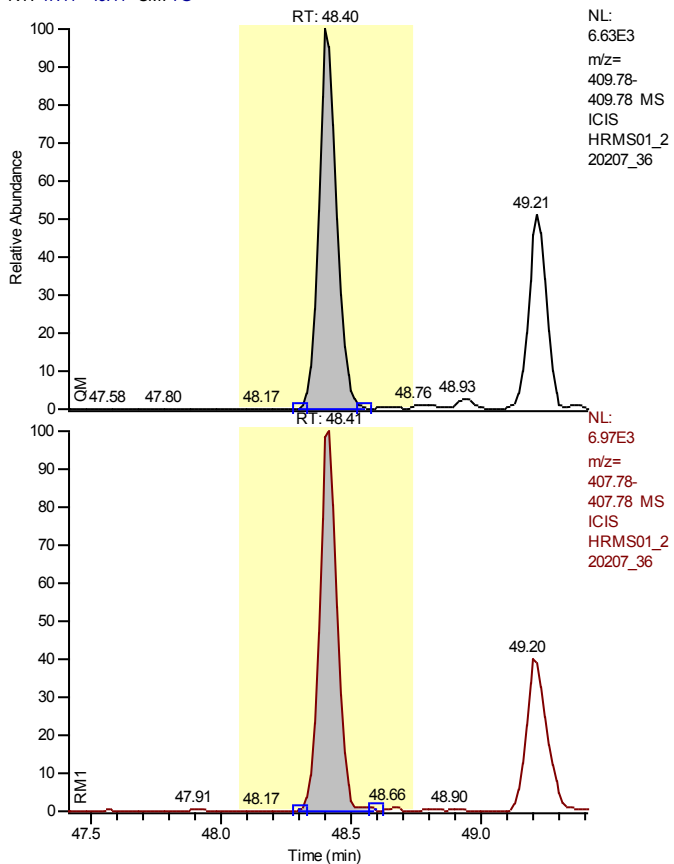
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

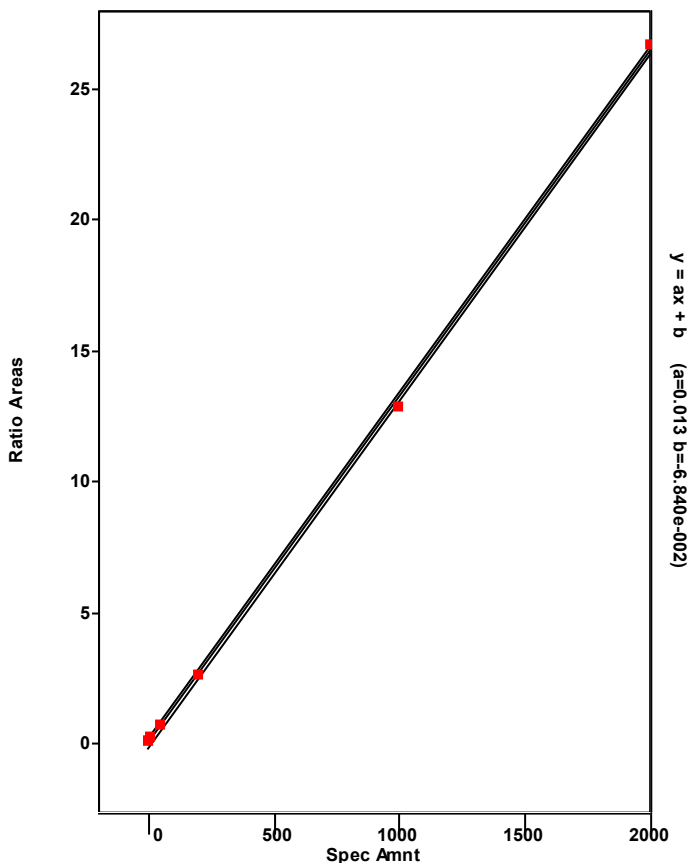
RT: 47.41 - 49.41 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	31769
RM1 Area	32910
RM1 Ratio (A)	1.0359
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	3.68
Percent Recovery (A)	---
TEQ (A)	0.0368
Label2	

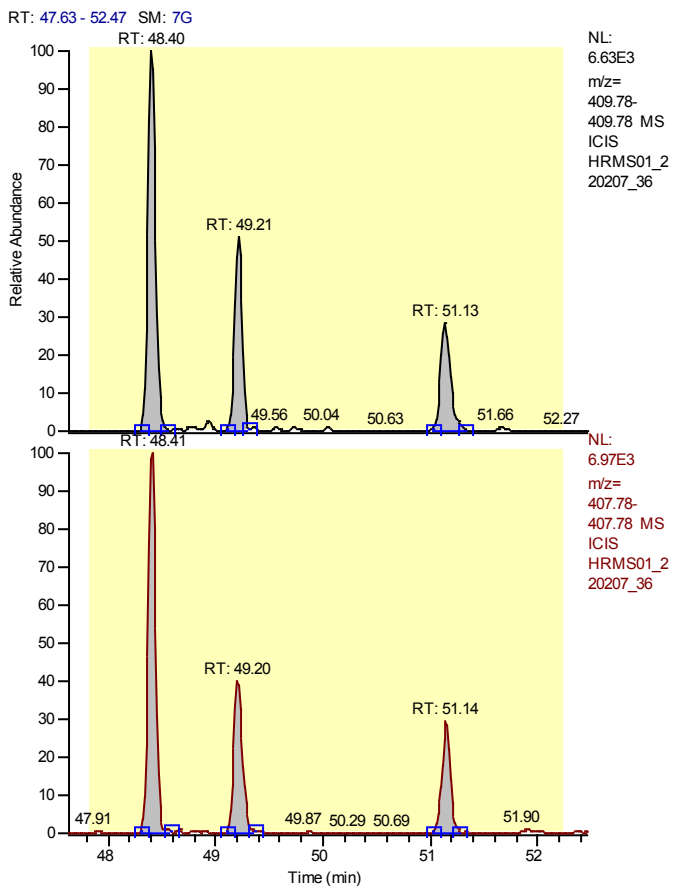
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



Chromatogram

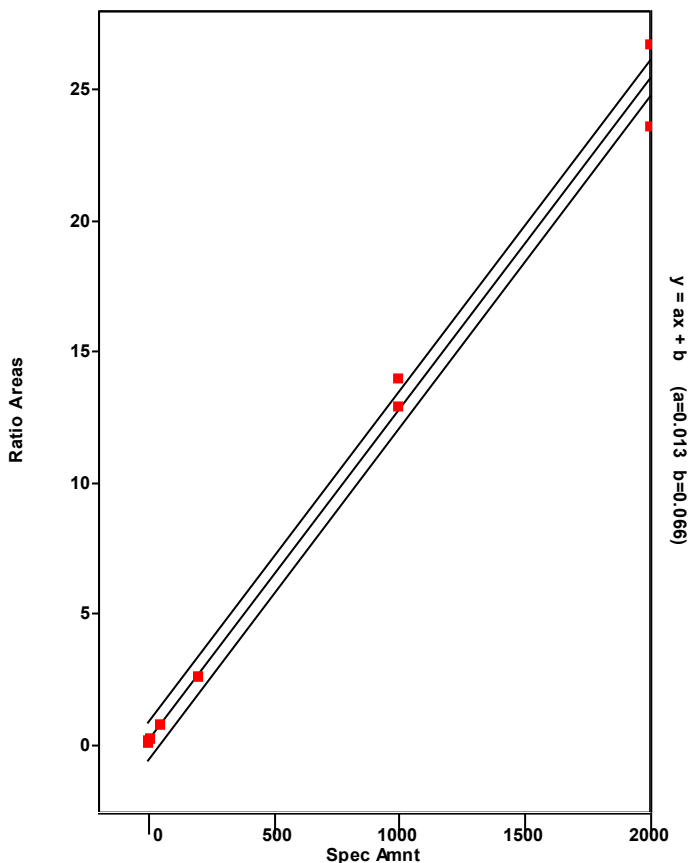
Entry Parameters



Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	59832
RM1 Area	58897
RM1 Ratio (A)	0.9844
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	6.95
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran

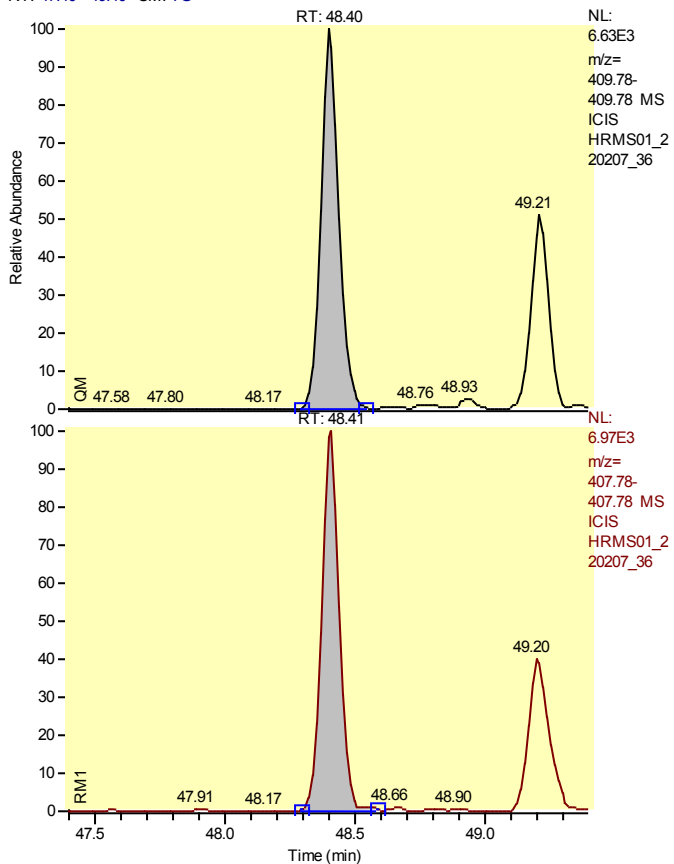
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

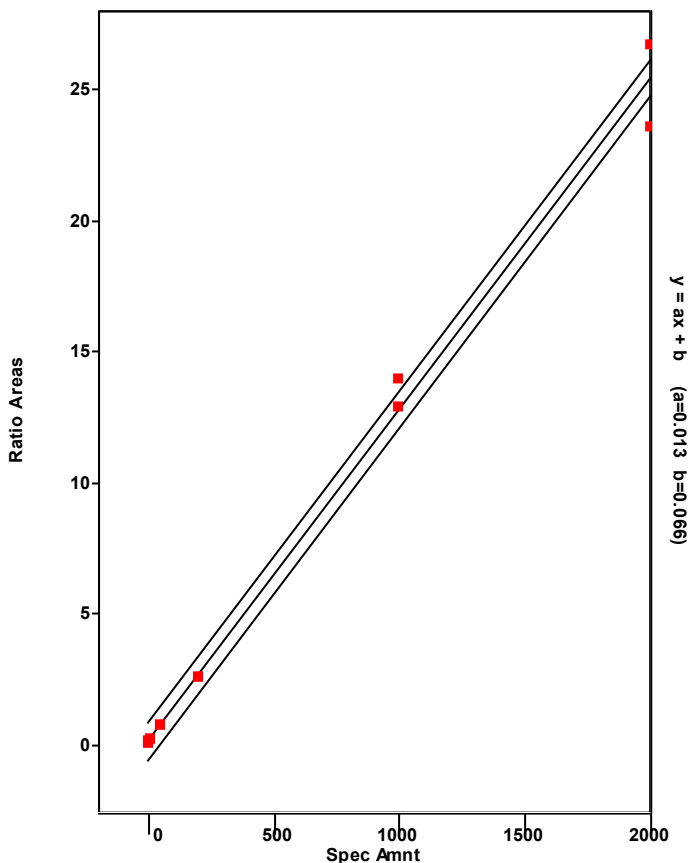
RT: 47.40 - 49.40 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	31769
RM1 Area	32910
RM1 Ratio (A)	1.0359
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	3.78
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

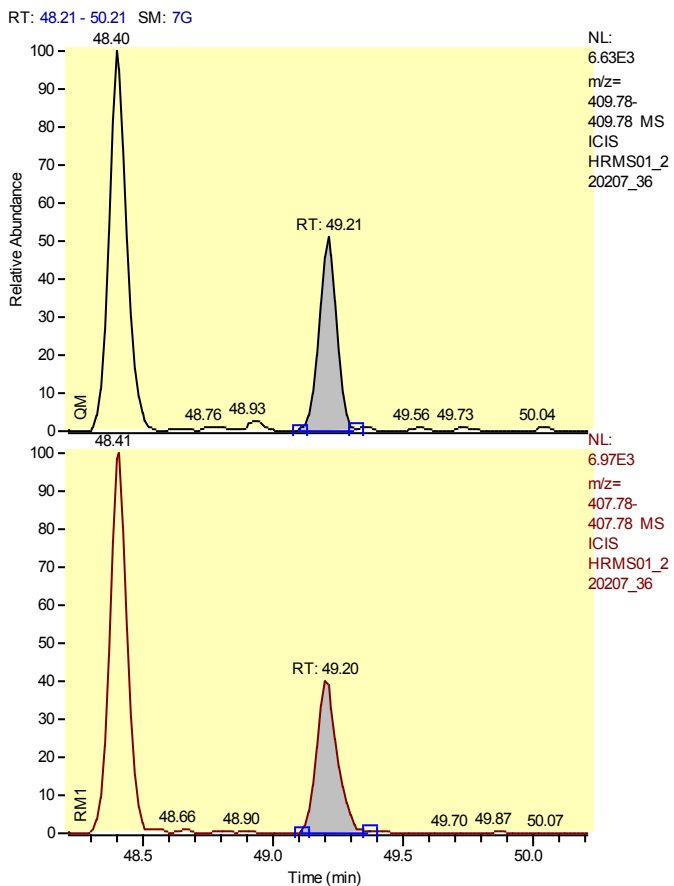
Calibration Points of Total Heptachlorodibenzofuran__1

Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

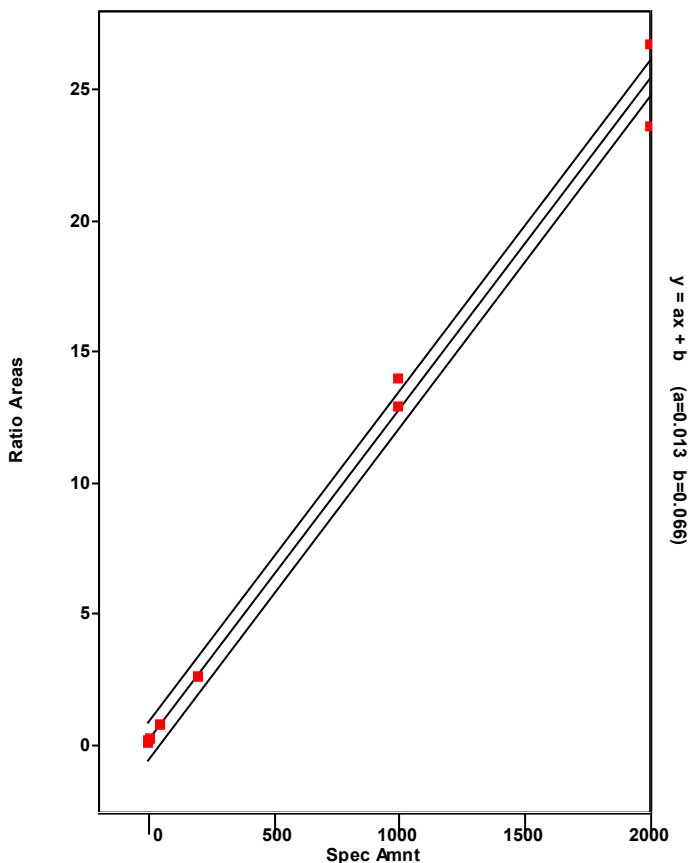
Entry Parameters



Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	15862
RM1 Area	15188
RM1 Ratio (A)	0.9575
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.82
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__2

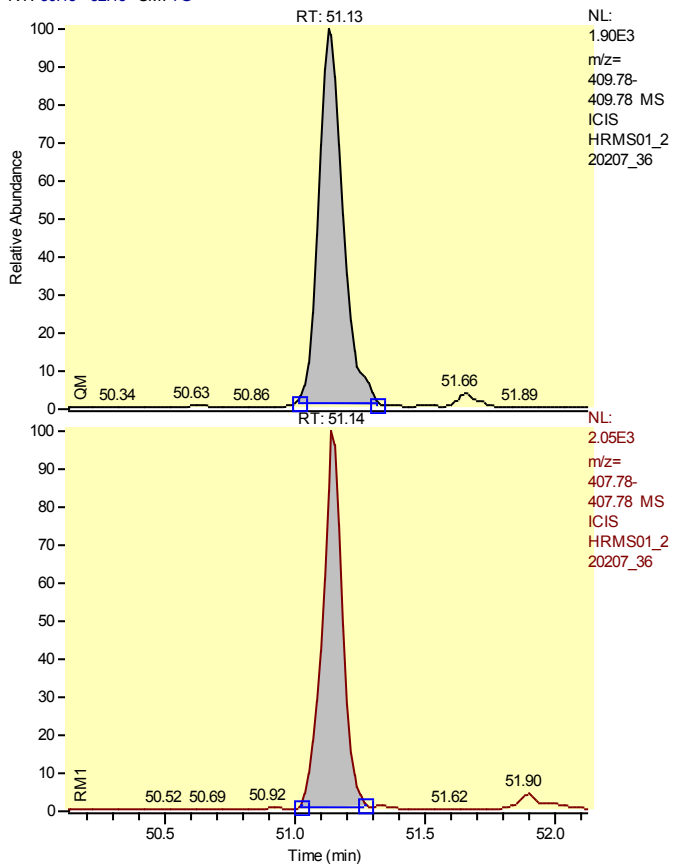
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

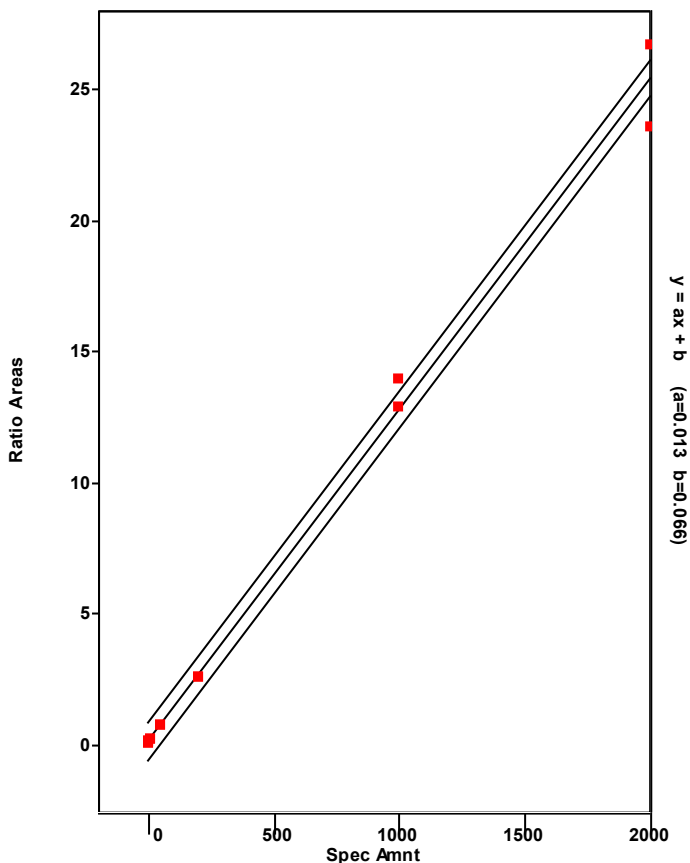
RT: 50.13 - 52.13 SM: 7G



Entry Identifier	Total Heptachlorodibenzofuran__3
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	12201
RM1 Area	10799
RM1 Ratio (A)	0.8851
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.35
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzofuran__3

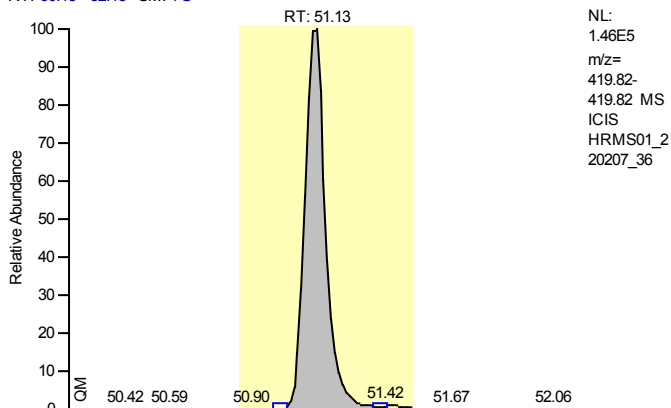
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

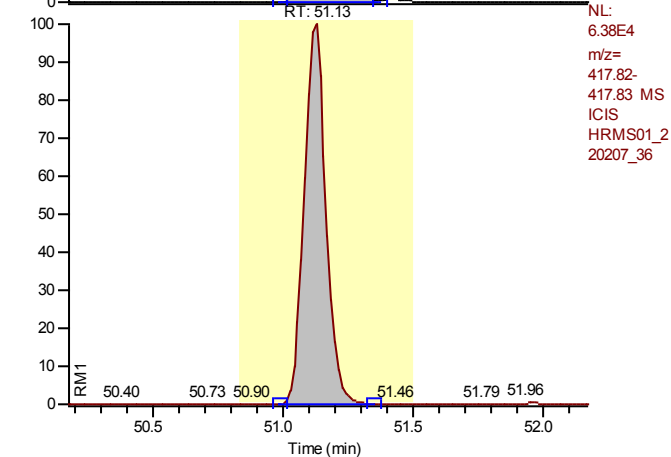
Entry Parameters

RT: 50.18 - 52.18 SM: 7G



NL:
 1.46E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_36

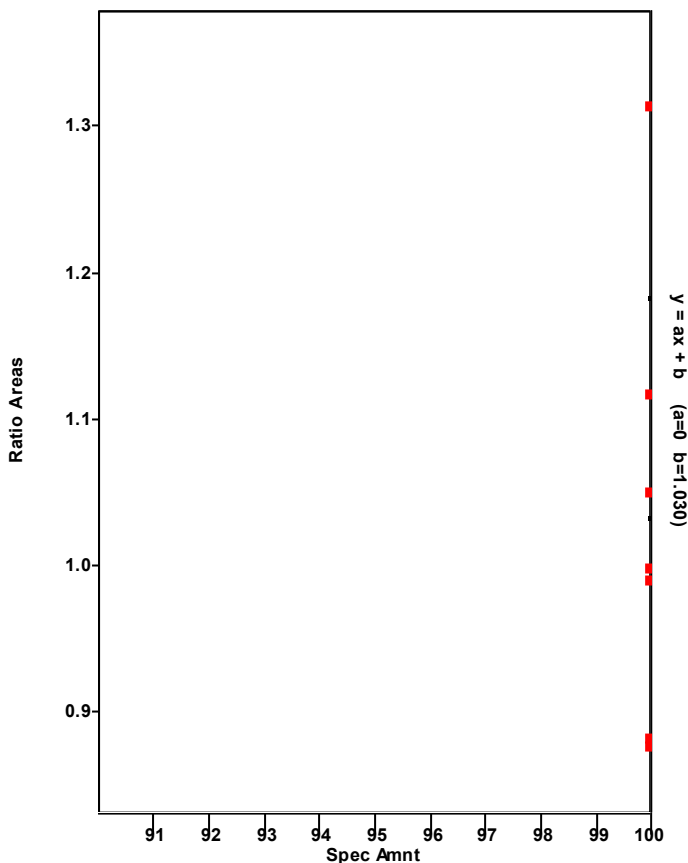
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	818525
RM1 Area	371096
RM1 Ratio (A)	0.4534
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	63.10
Percent Recovery (A)	63
TEQ (A)	0.0000
Label2	



NL:
 6.38E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_36

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

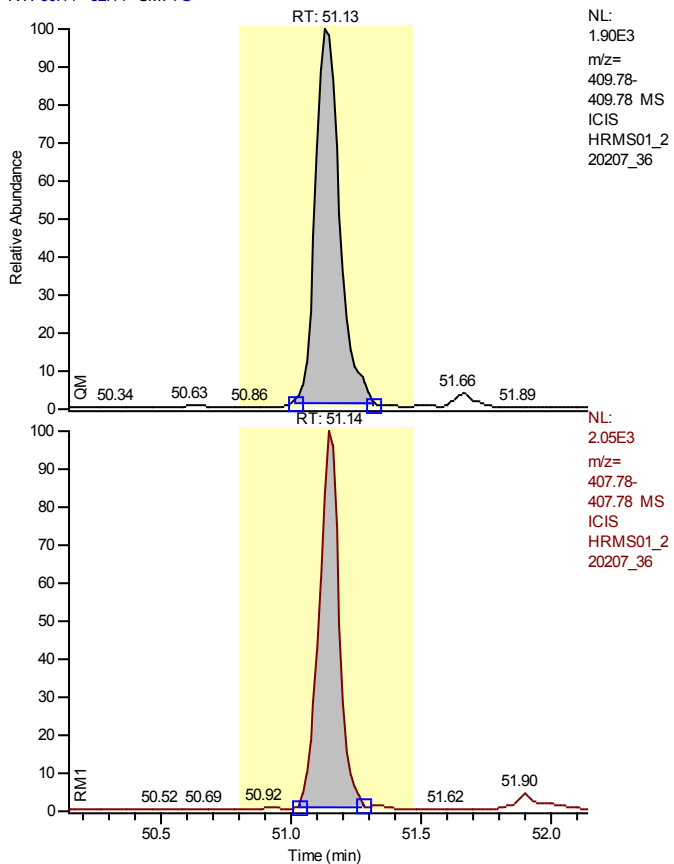
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

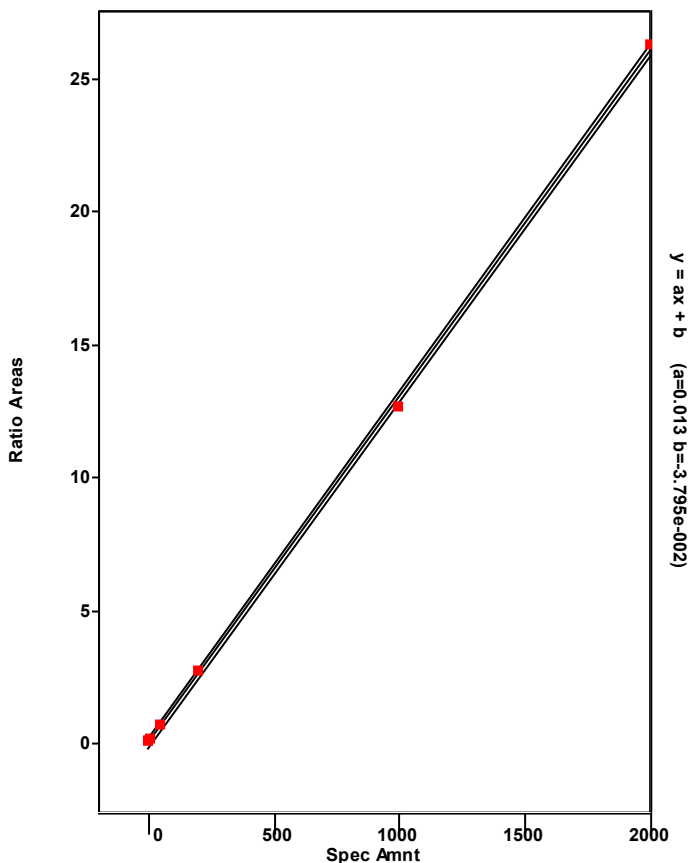
RT: 50.14 - 52.14 SM: 7G



Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	12201
RM1 Area	10799
RM1 Ratio (A)	0.8851
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.50
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

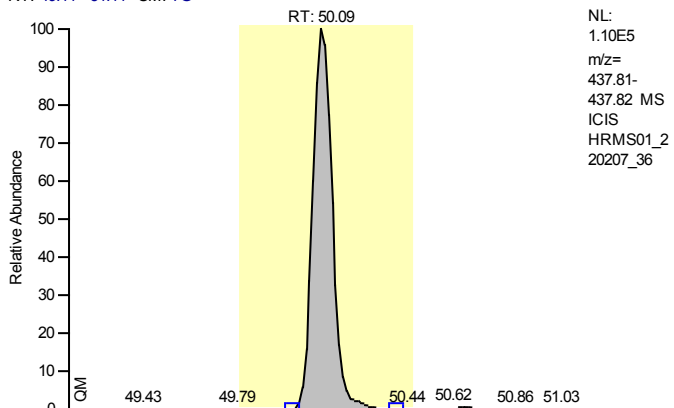
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



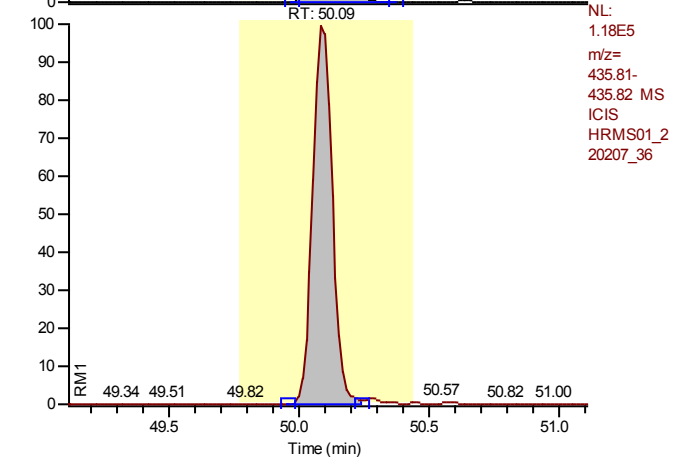
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

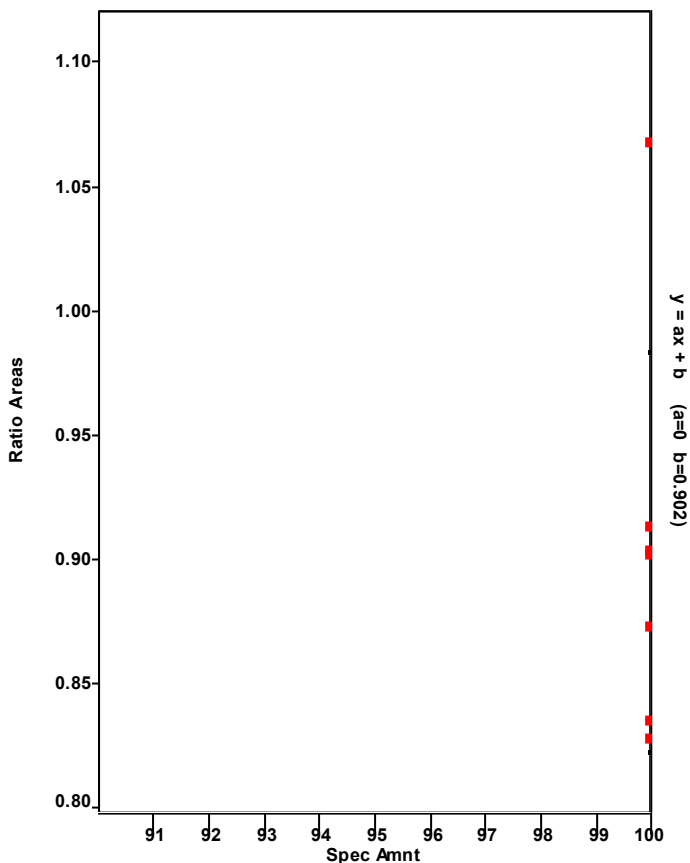


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	572031
RM1 Area	617252
RM1 Ratio (A)	1.0791
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	72.06
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

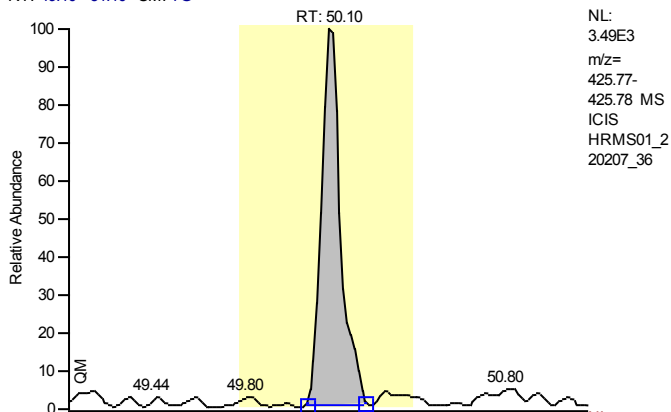
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



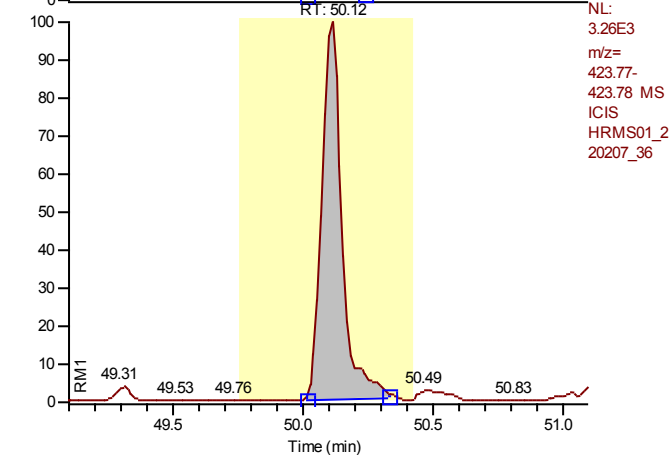
Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

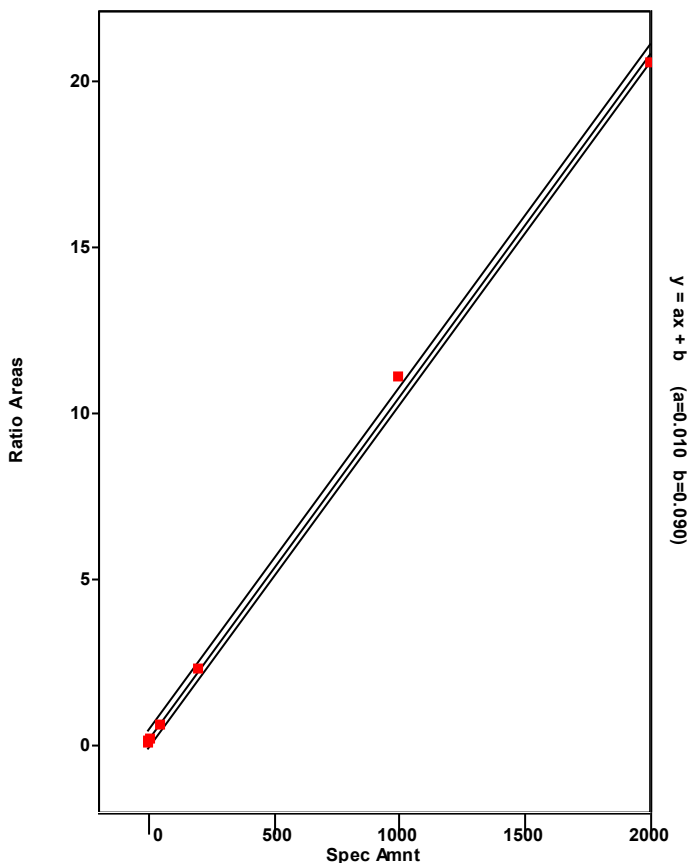


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	17693
RM1 Area	17329
RM1 Ratio (A)	0.9794
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	2.73
Percent Recovery (A)	---
TEQ (A)	0.0273
Label2	



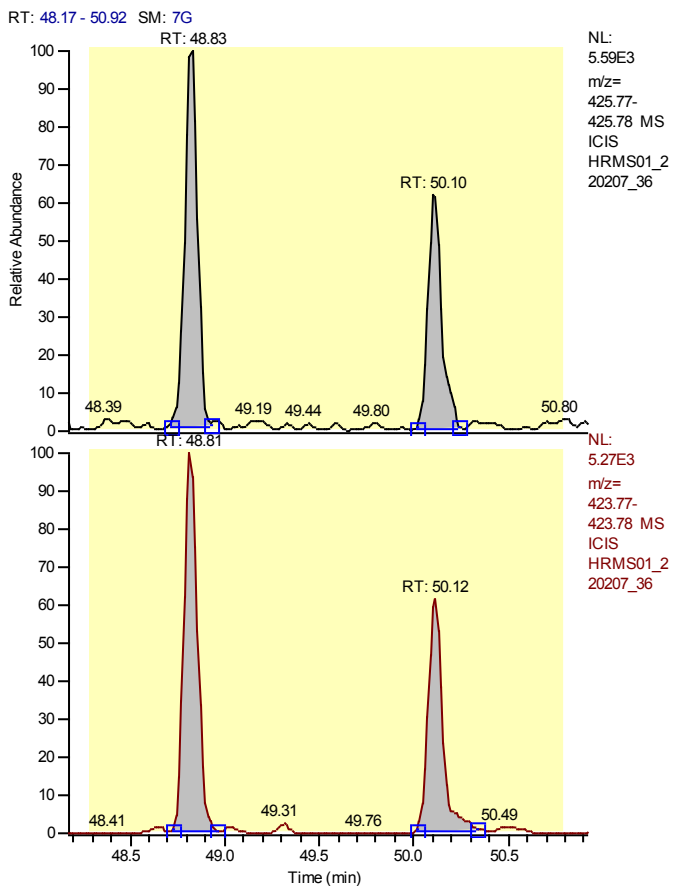
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

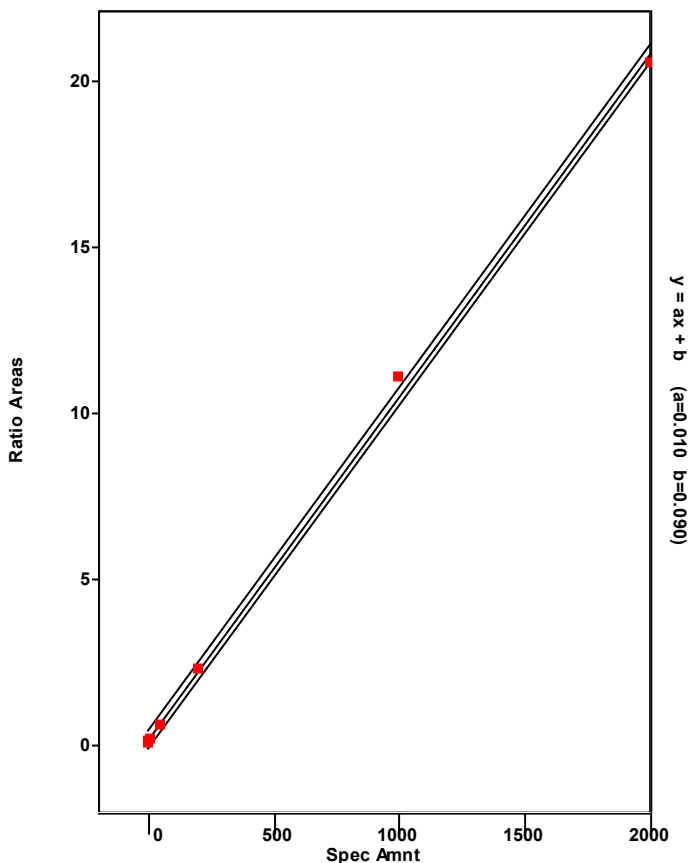
Entry Parameters



Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	44054
RM1 Area	43682
RM1 Ratio (A)	0.9916
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	6.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin

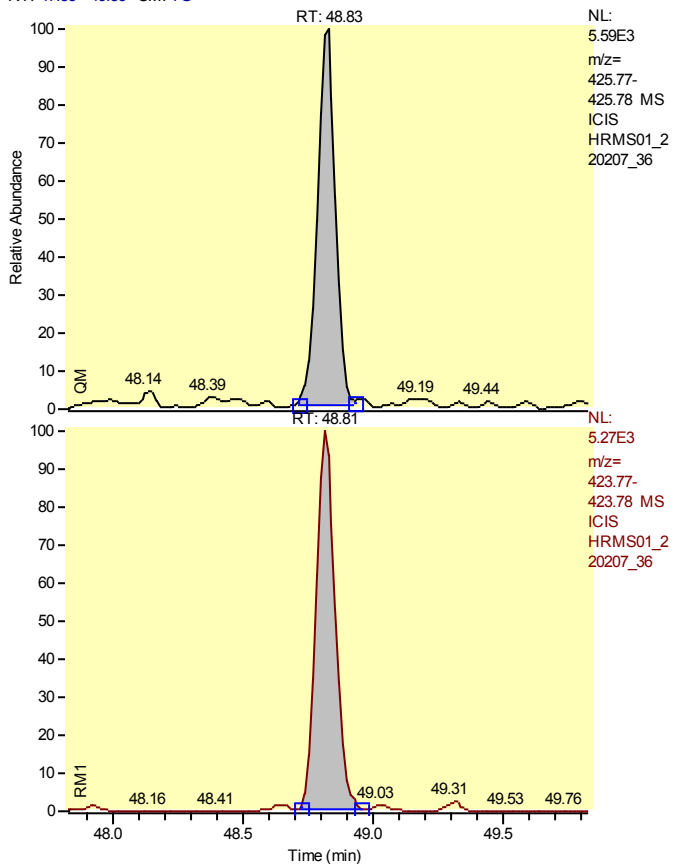
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

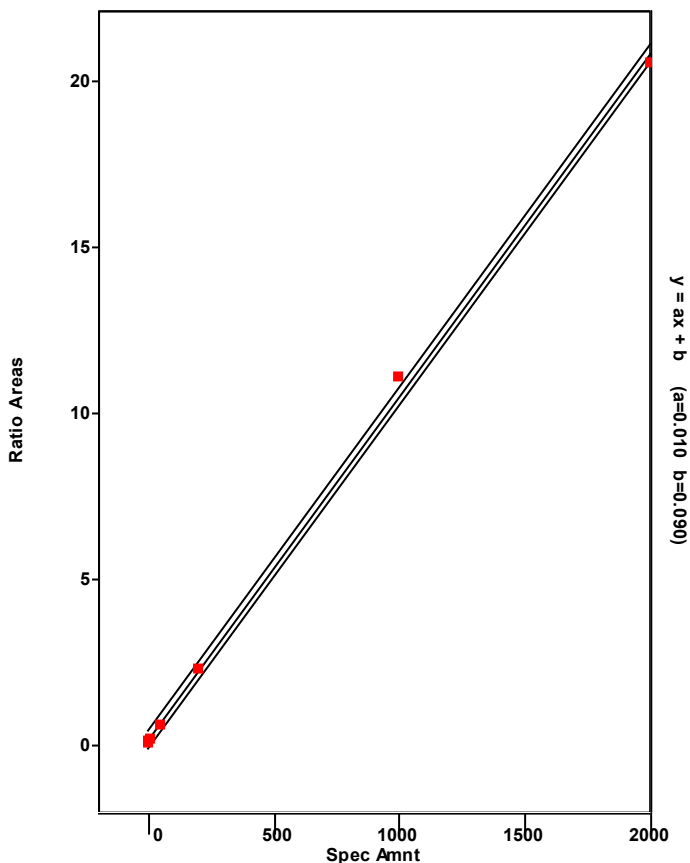
RT: 47.83 - 49.83 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	26361
RM1 Area	26353
RM1 Ratio (A)	0.9997
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

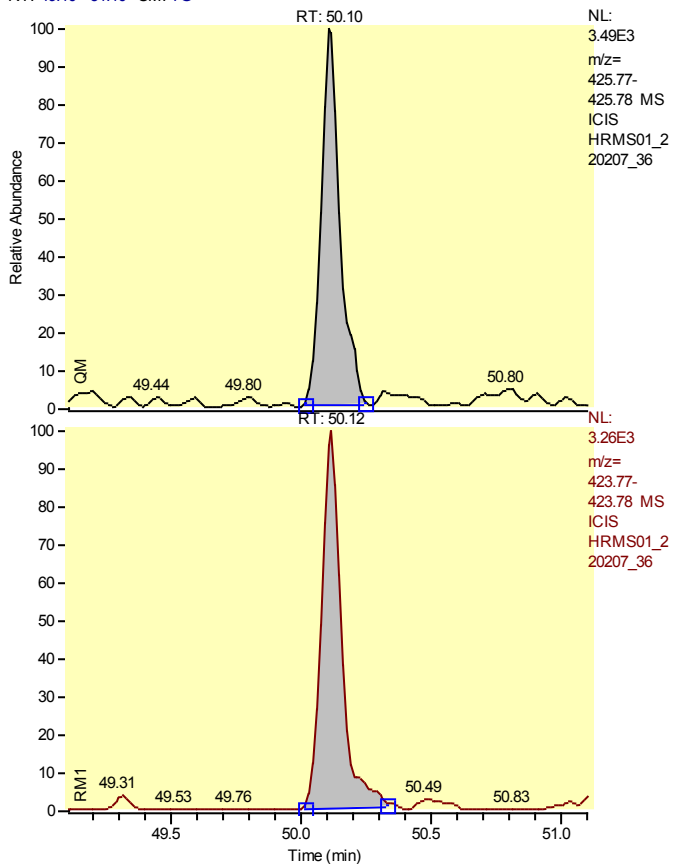
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

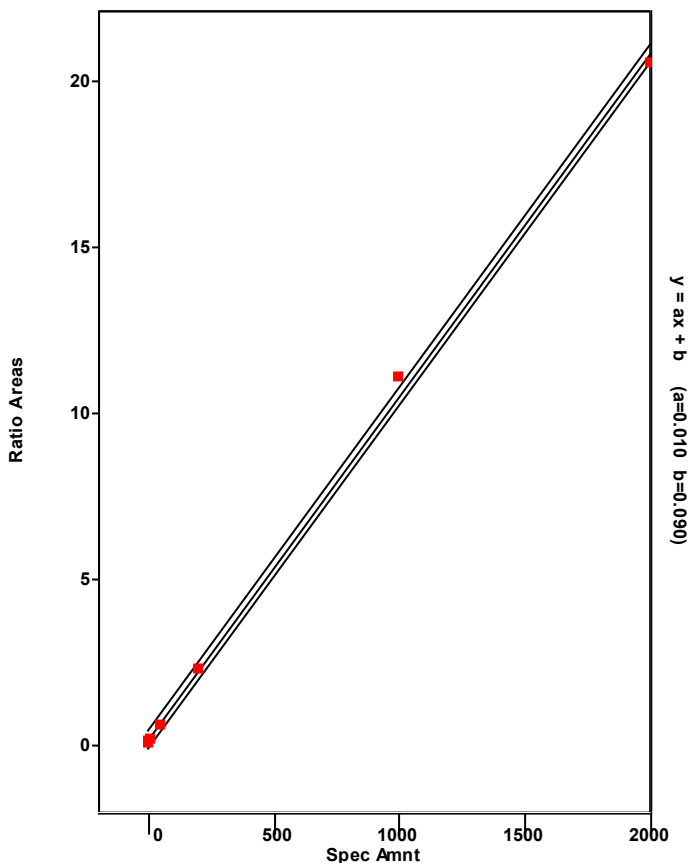
RT: 49.10 - 51.10 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	17693
RM1 Area	17329
RM1 Ratio (A)	0.9794
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	2.73
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

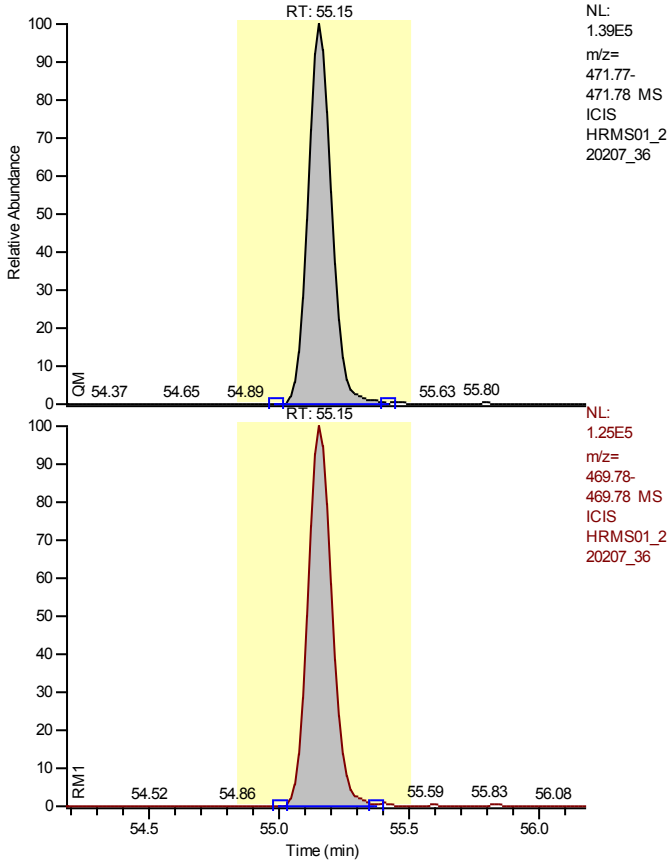
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

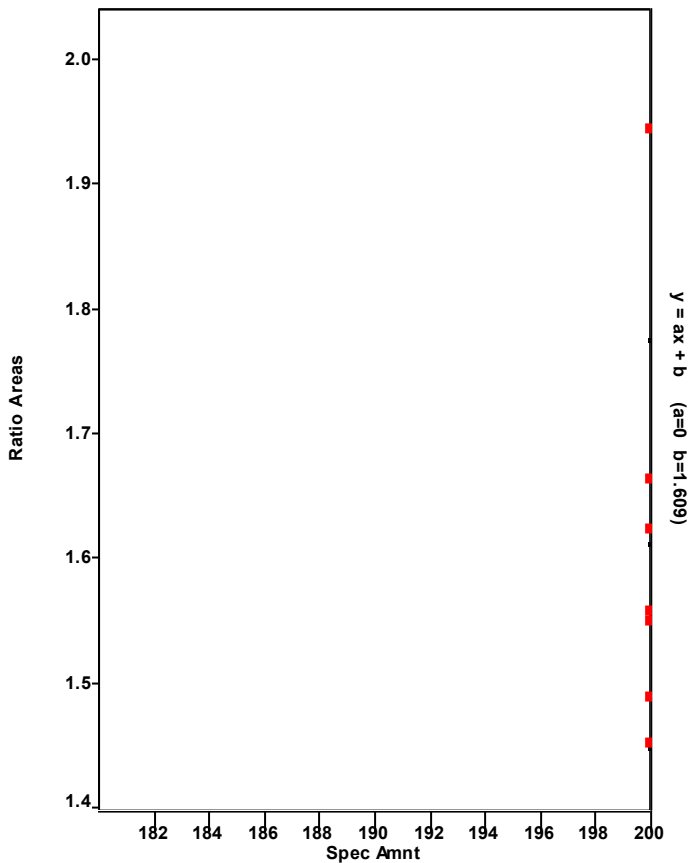
RT: 54.18 - 56.18 SM: 7G



Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	881560
RM1 Area	810333
RM1 Ratio (A)	0.9192
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	114.89
Percent Recovery (A)	57
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

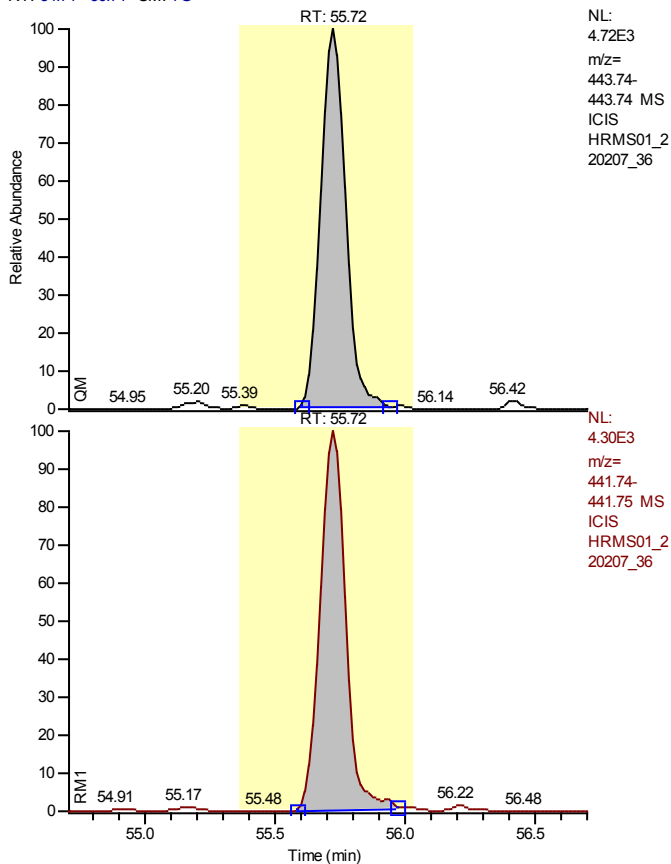
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.71 - 56.71 SM: 7G



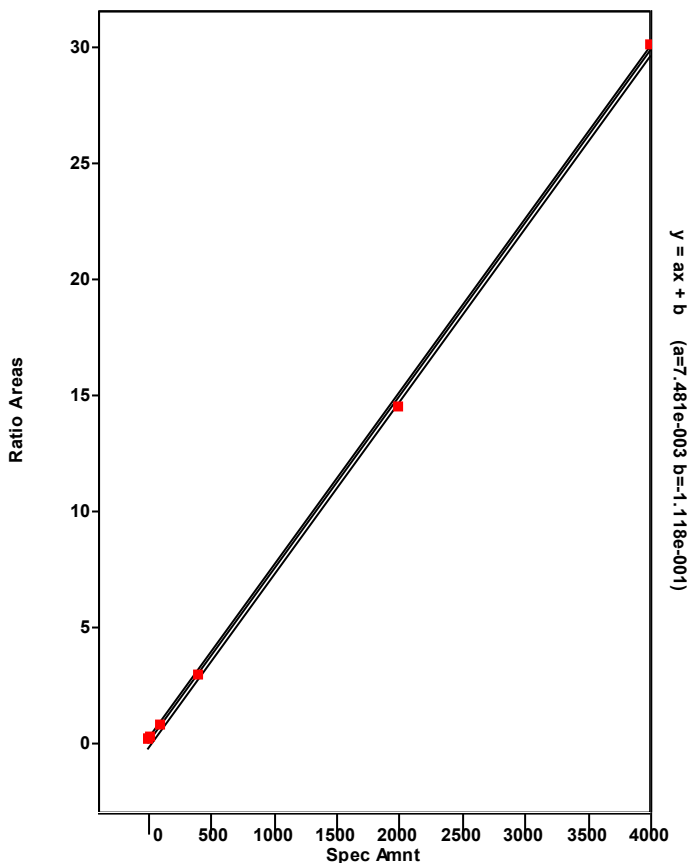
NL:
 4.72E3
 m/z=
 443.74-
 443.74 MS
 ICIS
 HRMS01_2
 20207_36

NL:
 4.30E3
 m/z=
 441.74-
 441.75 MS
 ICIS
 HRMS01_2
 20207_36

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 3268-87-9
QM Area	31176
RM1 Area	28839
RM1 Ratio (A)	0.9251
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	5.08
Percent Recovery (A)	---
TEQ (A)	0.0015
Label2	

Calibration Points of Octachlorodibenzofuran

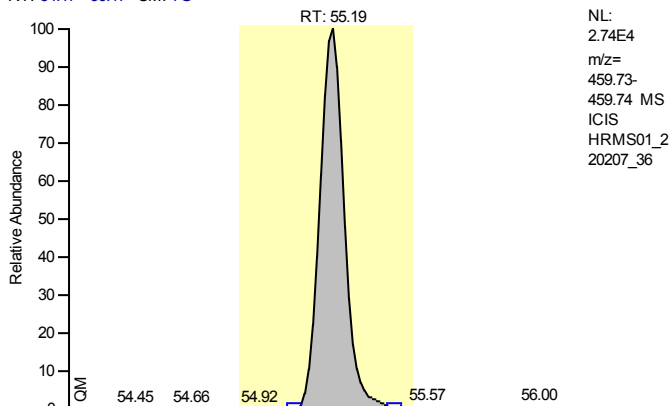
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



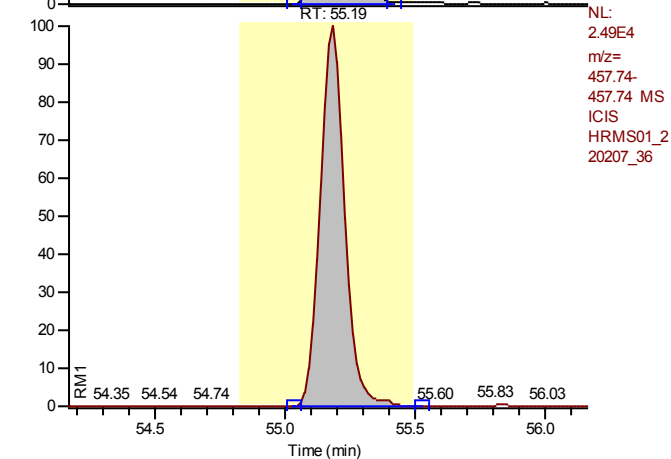
Chromatogram

Entry Parameters

RT: 54.17 - 56.17 SM: 7G

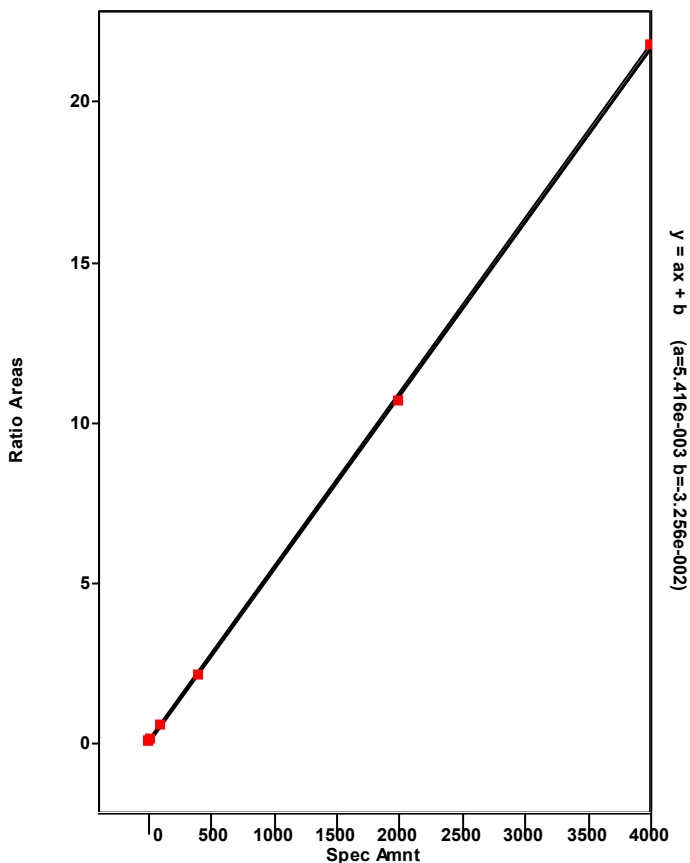


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	179186
RM1 Area	163197
RM1 Ratio (A)	0.9108
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	37.41
Percent Recovery (A)	---
TEQ (A)	0.0112
Label2	



Calibration Points of Octachlorodibenzo-p-dioxin

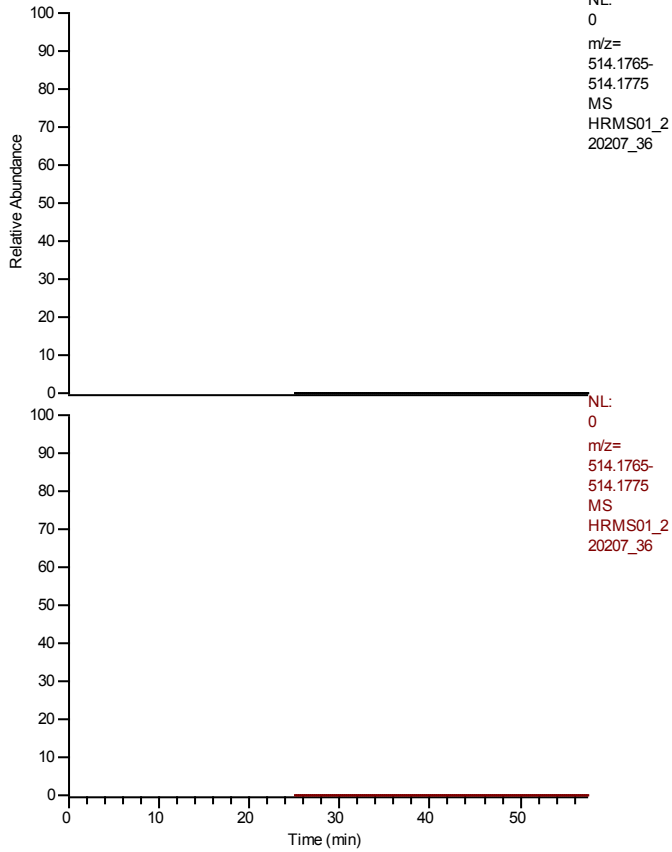
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

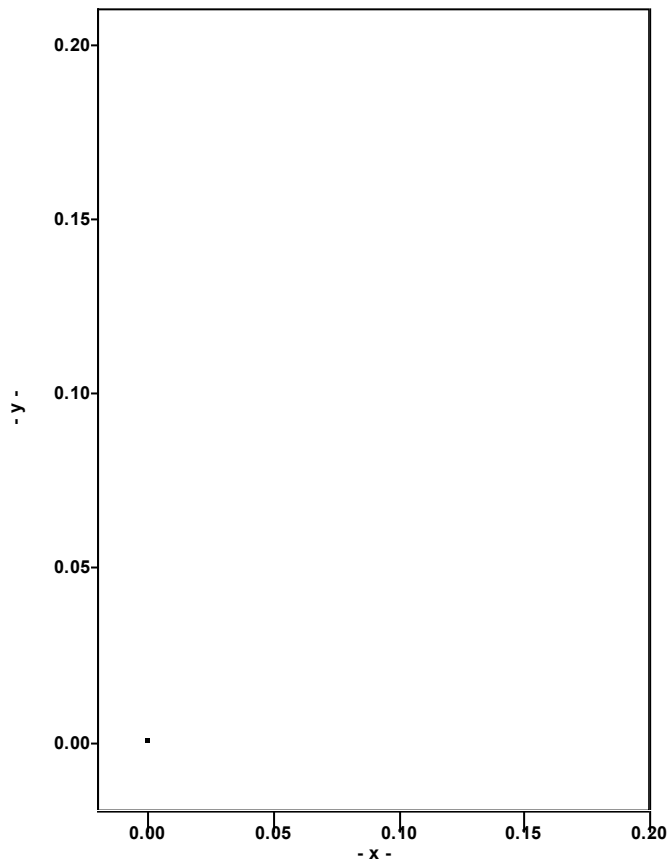
Entry Parameters

RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	407451
RM1 Area	431858
RM1 Ratio (A)	1.0599
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	66.12
Percent Recovery (A)	---
TEQ (A)	1.0941
Label2	

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/08 18:54
Number of Entries	72
Comment	
Vial	118
Sample Name	L2202953-10
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_38_seq
Data	hrms01_220207_38
Response	220204_1613b_gcb
Quan Method File	epa1613b_samples_gc2
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependent on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

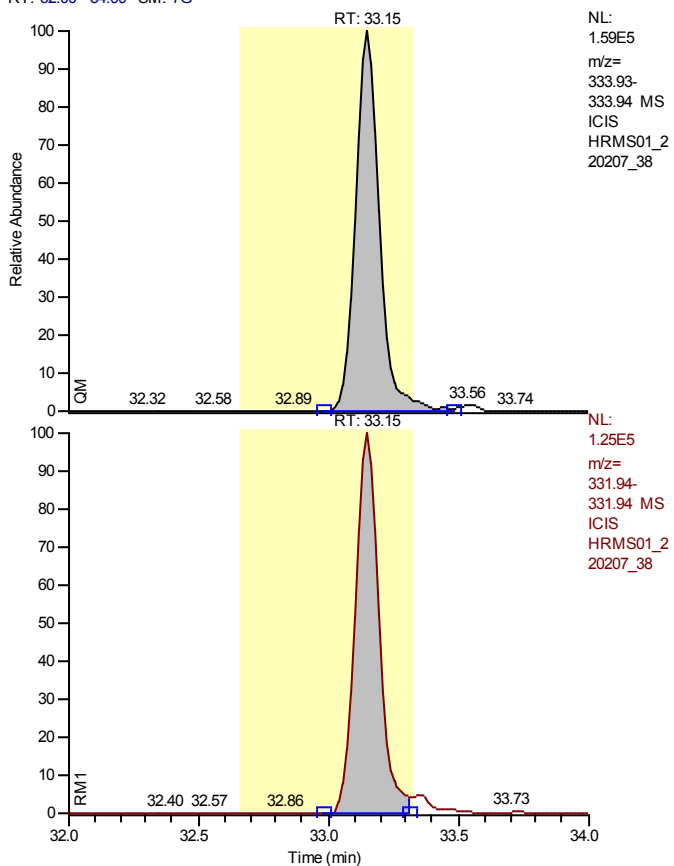
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD	13C12 STD	1016521	791385	0.7785	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	13C12 STD	884996	638652	0.7216	0.6500 - 0.8900	100.00	51.87	52	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	15497	13634	0.8798	0.6500 - 0.8900	0.00	2.06	---	0.2057
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	56431	43831	0.7886	0.6500 - 0.8900	0.00	7.08	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	19816	14275	0.7204	0.6500 - 0.8900	0.00	2.41	---	0.0000
6	Total Tetrachlorodibenzofuran__3	Single native TCDF	CAS# 55722-27-5	15475	13499	0.8723	0.6500 - 0.8900	0.00	2.05	---	0.0000
7	Total Tetrachlorodibenzofuran__4	Single native TCDF	CAS# 55722-27-5	6575	5109	0.7771	0.6500 - 0.8900	0.00	0.83	---	0.0000
8	Total Tetrachlorodibenzofuran__5	Single native TCDF	CAS# 55722-27-5	2844	3570	1.2551	0.6500 - 0.8900	0.00	n.d. < 0.45	---	n.d.
9	Total Tetrachlorodibenzofuran__6	Single native TCDF	CAS# 55722-27-5	3794	1970	0.5192	0.6500 - 0.8900	0.00	n.d. < 0.41	---	n.d.
10	Total Tetrachlorodibenzofuran__7	Single native TCDF	CAS# 55722-27-5	1792	1320	0.7364	0.6500 - 0.8900	0.00	0.22	---	0.0000
11	Total Tetrachlorodibenzofuran__8	Single native TCDF	CAS# 55722-27-5	3244	2785	0.8583	0.6500 - 0.8900	0.00	0.43	---	0.0000
12	Total Tetrachlorodibenzofuran__9	Single native TCDF	CAS# 55722-27-5	2890	1304	0.4513	0.6500 - 0.8900	0.00	n.d. < 0.30	---	n.d.
13	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	13C12 STD	599653	500661	0.8349	0.6500 - 0.8900	100.00	52.31	52	0.0000
14	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
15	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	667209	539018	0.8079	0.6500 - 0.8900	0.00	103.58	---	0.0000
16	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	571096	468297	0.8200	0.6500 - 0.8900	0.00	89.26	---	0.0000
17	Total Tetrachlorodibenzo-p-dioxin__2	Single native TCDD	CAS# 41903-57-5	34902	28763	0.8241	0.6500 - 0.8900	0.00	5.47	---	0.0000
18	Total Tetrachlorodibenzo-p-dioxin__3	Single native TCDD	CAS# 41903-57-5	25814	16788	0.6503	0.6500 - 0.8900	0.00	3.66	---	0.0000
19	Total Tetrachlorodibenzo-p-dioxin__4	Single native TCDD	CAS# 41903-57-5	35398	25170	0.7111	0.6500 - 0.8900	0.00	5.20	---	0.0000
20	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	13C12 STD	490287	810201	1.6525	1.3200 - 1.7800	100.00	49.60	50	0.0000
21	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	11227	19920	1.7743	1.3200 - 1.7800	0.00	2.42	---	0.0000
22	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	39774	59455	1.6324	1.3200 - 1.7800	0.00	7.59	---	0.0000
23	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	11343	20114	1.7732	1.3200 - 1.7800	0.00	2.41	---	0.0000
24	Total Pentachlorodibenzofuran__3	Single native PeCDF	CAS# 30402-15-4	11166	12758	1.1425	1.3200 - 1.7800	0.00	n.d. < 1.83	---	n.d.
25	Total Pentachlorodibenzofuran__5	Single native PeCDF	CAS# 30402-15-4	6335	11185	1.7654	1.3200 - 1.7800	0.00	1.34	---	0.0000
26	Total Pentachlorodibenzofuran__6	Single native PeCDF	CAS# 30402-15-4	10929	15399	1.4090	1.3200 - 1.7800	0.00	2.01	---	0.0000
27	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	13C12 STD	483393	808838	1.6733	1.3200 - 1.7800	100.00	52.38	52	0.0000
28	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	10929	15399	1.4090	1.3200 - 1.7800	0.00	1.88	---	0.0000
29	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	13C12 STD	366718	552128	1.5056	1.3200 - 1.7800	100.00	55.78	56	0.0000
30	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
31	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	117249	187850	1.6021	1.3200 - 1.7800	0.00	33.10	---	0.0000
32	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	84598	137819	1.6291	1.3200 - 1.7800	0.00	24.13	---	0.0000
33	Total Pentachlorodibenzo-p-dioxin__2	Single native PeCDD	CAS# 36088-22-9	15646	21842	1.3960	1.3200 - 1.7800	0.00	4.07	---	0.0000
34	Total Pentachlorodibenzo-p-dioxin__3	Single native PeCDD	CAS# 36088-22-9	17006	28190	1.6577	1.3200 - 1.7800	0.00	4.90	---	0.0000
35	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	37Cl4 STD	199806	199806	1.0000	0.8500 - 1.1500	10.00	8.83	88	0.0000
36	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	13C12 STD	684132	880744	1.2874	1.0500 - 1.4300	100.00	100.00	100	0.0000
37	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	13C12 STD	759559	431379	0.5679	0.4300 - 0.5900	100.00	67.74	68	0.0000
38	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	24568	33999	1.3839	1.0500 - 1.4300	0.00	4.27	---	0.4267

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	46510	60407	1.2988	1.0500 - 1.4300	0.00	7.51	---	0.0000
40	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	24568	33999	1.3839	1.0500 - 1.4300	0.00	4.11	---	0.0000
41	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	11947	13225	1.1069	1.0500 - 1.4300	0.00	1.77	---	0.0000
42	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	9995	13183	1.3190	1.0500 - 1.4300	0.00	1.63	---	0.0000
43	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		794660	422636	0.5318	0.4300 - 0.5900	100.00	64.37	64	0.0000
44	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
45	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		723453	405105	0.5600	0.4300 - 0.5900	100.00	61.23	61	0.0000
46	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
47	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		692940	339639	0.4901	0.4300 - 0.5900	100.00	57.59	58	0.0000
48	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
49	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		348963	461490	1.3225	1.0500 - 1.4300	100.00	58.04	58	0.0000
50	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
51	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	257453	321110	1.2473	1.0500 - 1.4300	0.00	65.57	---	0.0000
52	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	217678	271339	1.2465	1.0500 - 1.4300	0.00	55.42	---	0.0000
53	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	39775	49771	1.2513	1.0500 - 1.4300	0.00	10.15	---	0.0000
54	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		377954	536493	1.4195	1.0500 - 1.4300	100.00	62.61	63	0.0000
55	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	5683	7729	1.3601	1.0500 - 1.4300	0.00	1.38	---	0.0000
56	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	6463	8597	1.3303	1.0500 - 1.4300	0.00	1.55	---	0.0000
57	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		625612	300156	0.4798	0.3700 - 0.5100	100.00	54.25	54	0.0000
58	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	30023	32108	1.0694	0.8800 - 1.2000	0.00	5.22	---	0.0522
59	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	60854	67102	1.1027	0.8800 - 1.2000	0.00	11.05	---	0.0000
60	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	30831	34994	1.1350	0.8800 - 1.2000	0.00	5.68	---	0.0000
61	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	30023	32108	1.0694	0.8800 - 1.2000	0.00	5.36	---	0.0000
62	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		545086	242340	0.4446	0.3700 - 0.5100	100.00	48.85	49	0.0000
63	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
64	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		374701	420052	1.1210	0.8800 - 1.2000	100.00	56.32	56	0.0000
65	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	109794	110364	1.0052	0.8800 - 1.2000	0.00	25.67	---	0.2567
66	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	361141	370160	1.0250	0.8800 - 1.2000	0.00	85.26	---	0.0000
67	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	251346	259796	1.0336	0.8800 - 1.2000	0.00	59.59	---	0.0000
68	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	109794	110364	1.0052	0.8800 - 1.2000	0.00	25.67	---	0.0000
69	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		622983	549528	0.8821	0.7600 - 1.0200	200.00	93.12	47	0.0000
70	Octachlorodibenzofuran	OCDF	CAS# 3268-87-9	33991	34502	1.0150	0.7600 - 1.0200	0.00	8.37	---	0.0025
71	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	877261	792082	0.9029	0.7600 - 1.0200	0.00	263.21	---	0.0790
72	overall TEQ	overall TEQ		1125435	1068335	0.9493	0.0000 - 0.0000	0.00	316.02	---	1.0227

Chromatogram

Entry Parameters

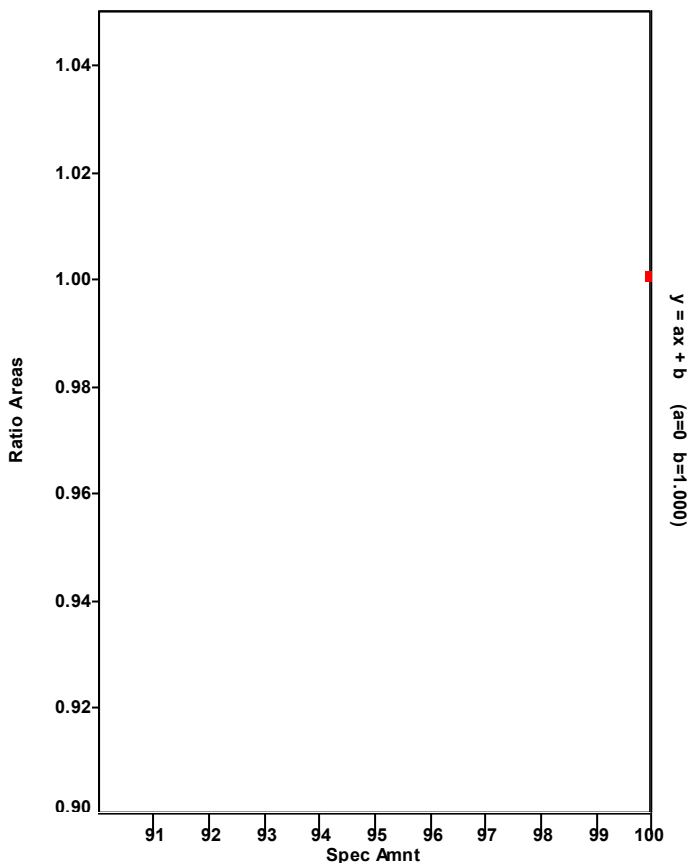
RT: 32.00 - 34.00 SM: 7G



Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1016521
RM1 Area	791385
RM1 Ratio (A)	0.7785
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

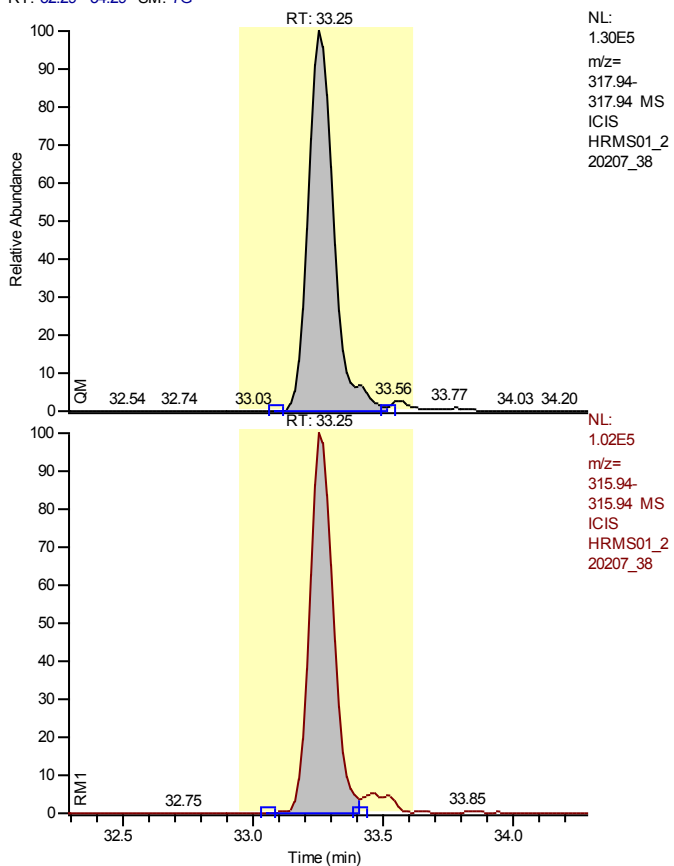
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

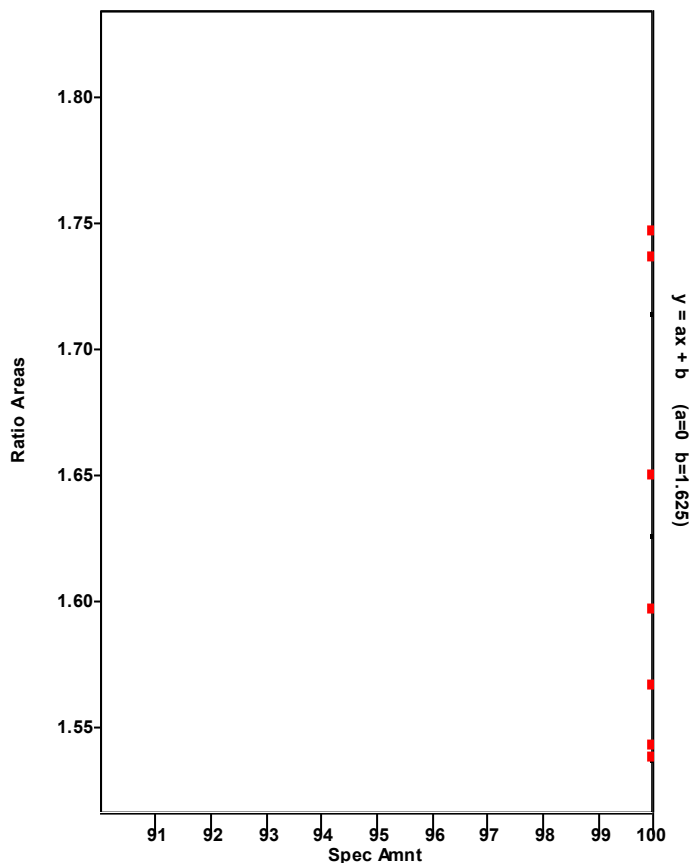
RT: 32.29 - 34.29 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	884996
RM1 Area	638652
RM1 Ratio (A)	0.7216
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	51.87
Percent Recovery (A)	52
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

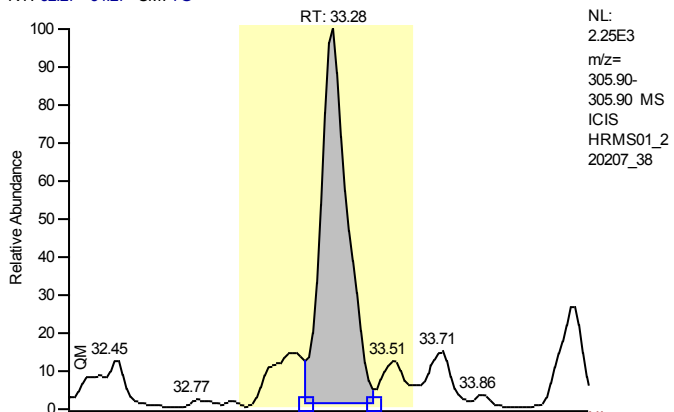
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



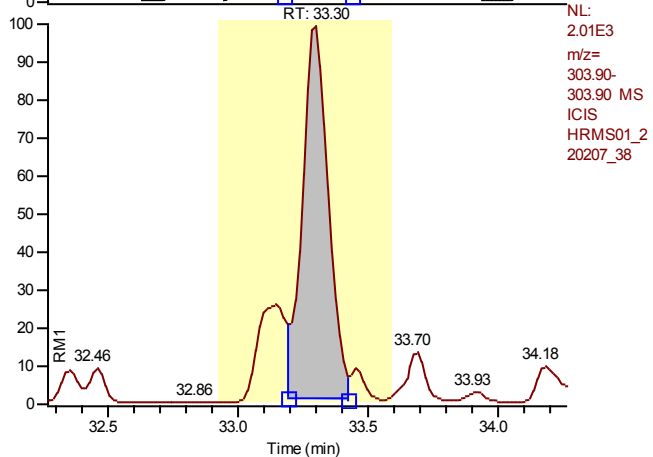
Chromatogram

Entry Parameters

RT: 32.27 - 34.27 SM: 7G

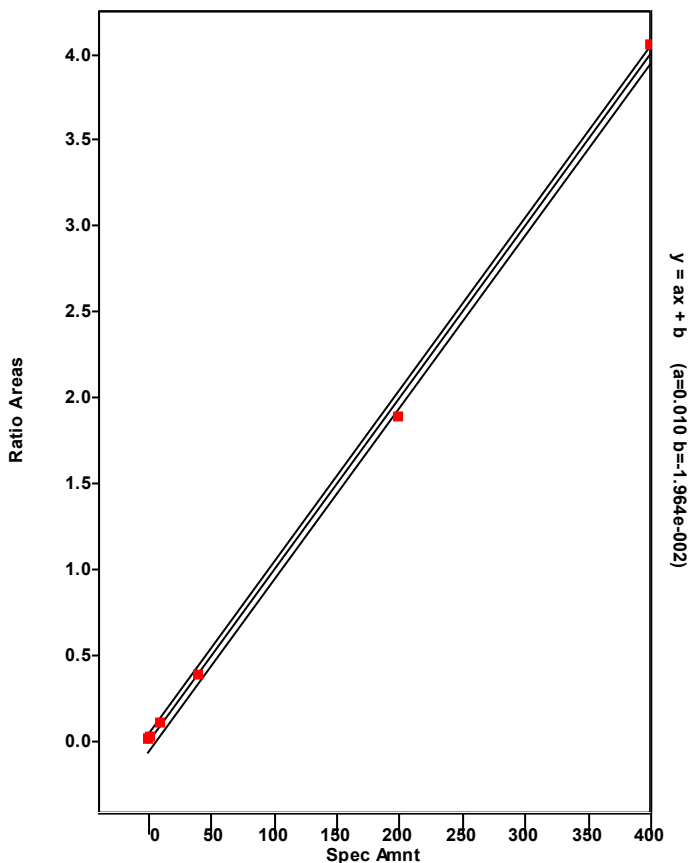


Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	15497
RM1 Area	13634
RM1 Ratio (A)	0.8798
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.06
Percent Recovery (A)	---
TEQ (A)	0.2057
Label2	



Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

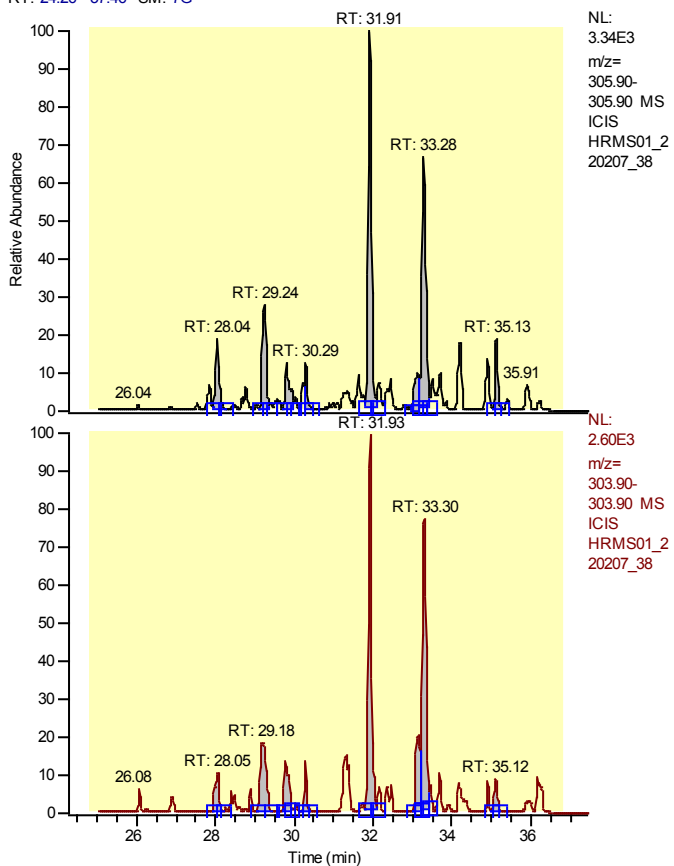
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.26 - 37.46 SM: 7G



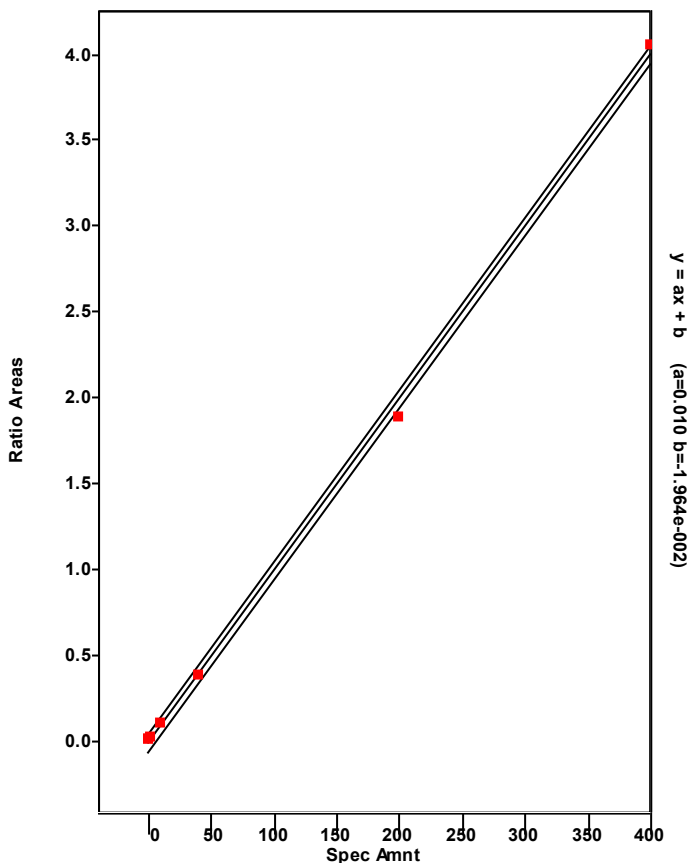
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305.90 MS
ICIS
HRMS01_2
20207_38

NL:
2.60E3
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20207_38

Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	56431
RM1 Area	43831
RM1 Ratio (A)	0.7886
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	7.08
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran

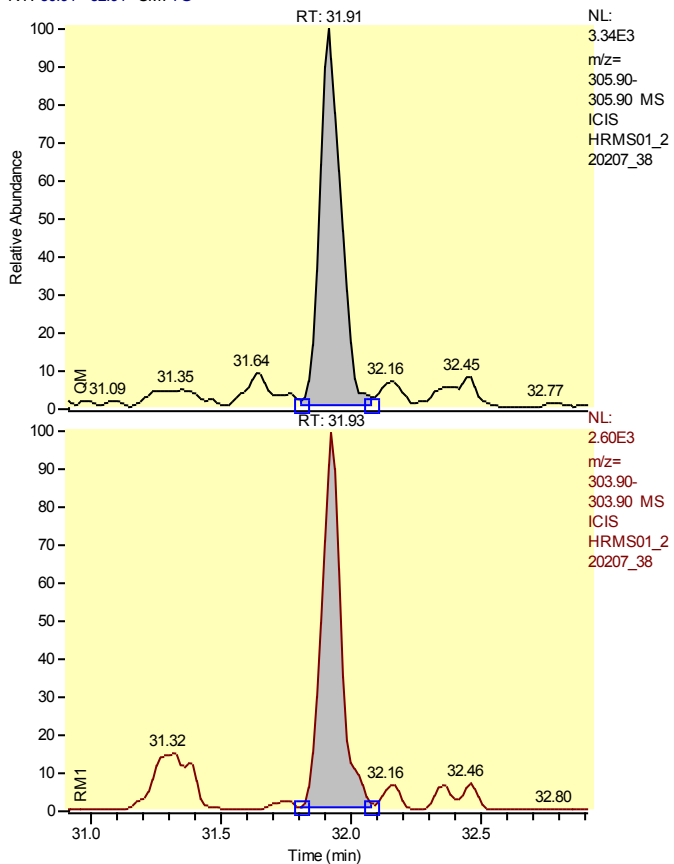
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

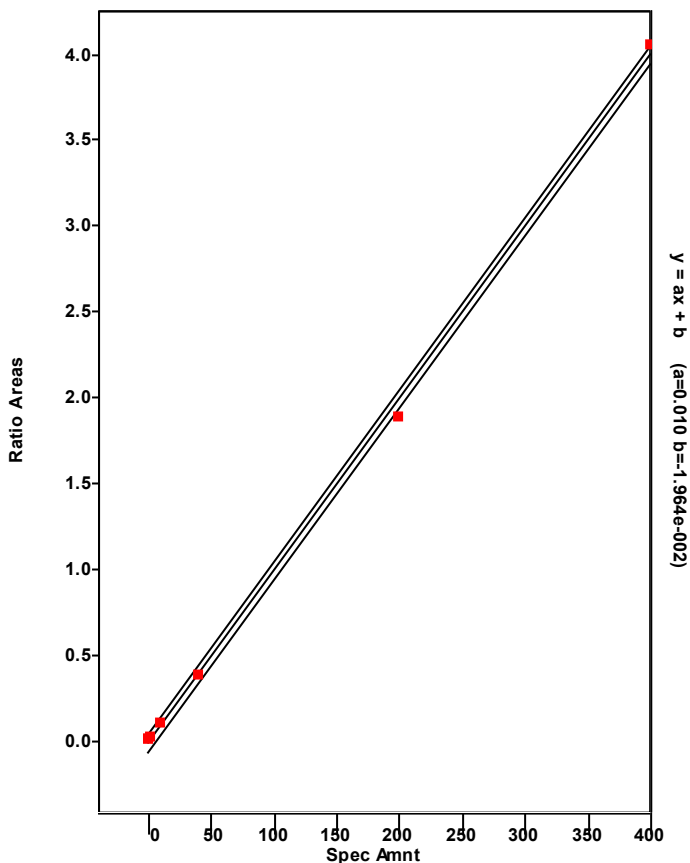
RT: 30.91 - 32.91 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	19816
RM1 Area	14275
RM1 Ratio (A)	0.7204
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.41
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__1

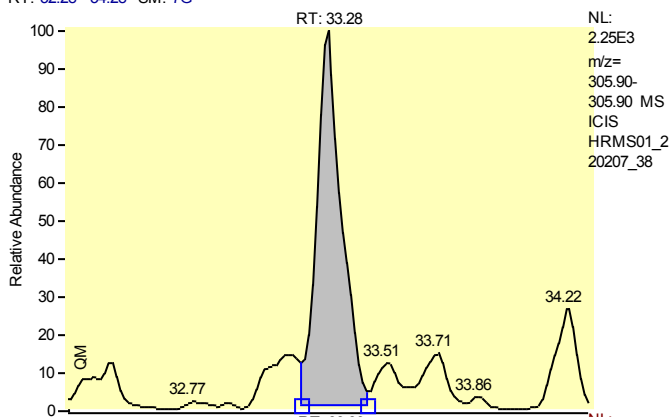
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

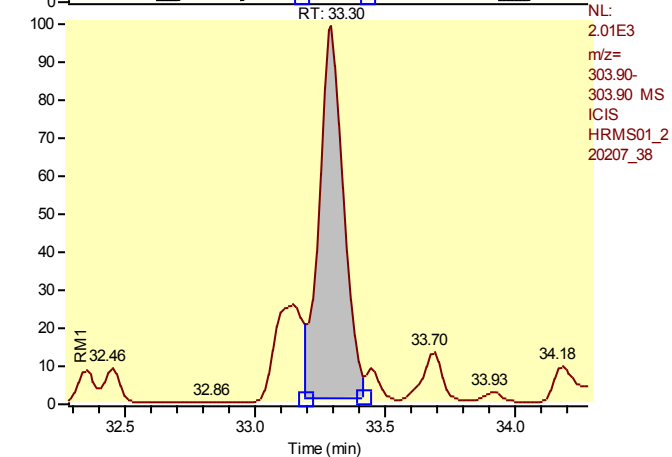
Entry Parameters

RT: 32.28 - 34.28 SM: 7G



NL:
 2.25E3
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 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_38

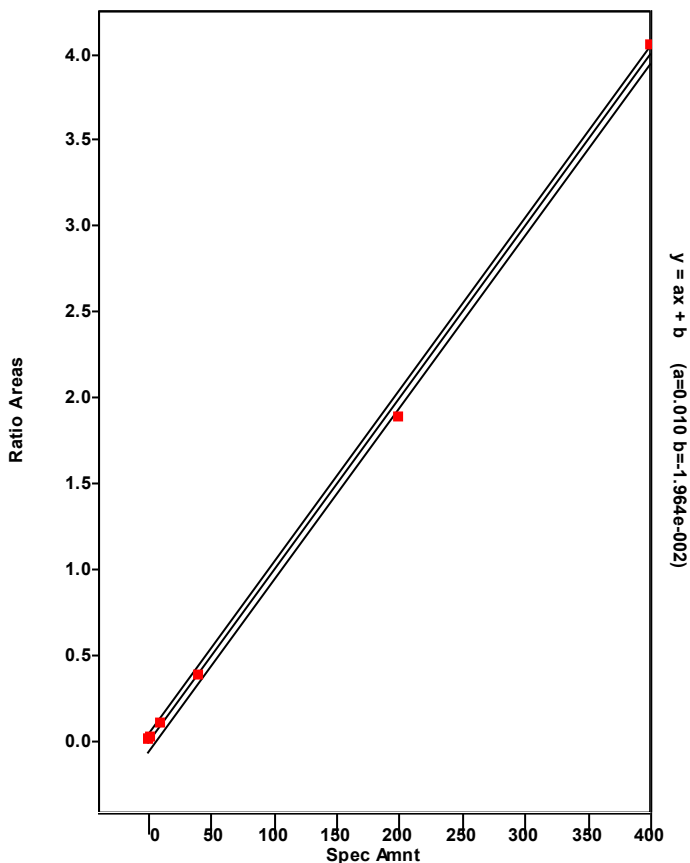
Entry Identifier	Total Tetrachlorodibenzofuran__3
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	15475
RM1 Area	13499
RM1 Ratio (A)	0.8723
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	2.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
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 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of Total Tetrachlorodibenzofuran__3

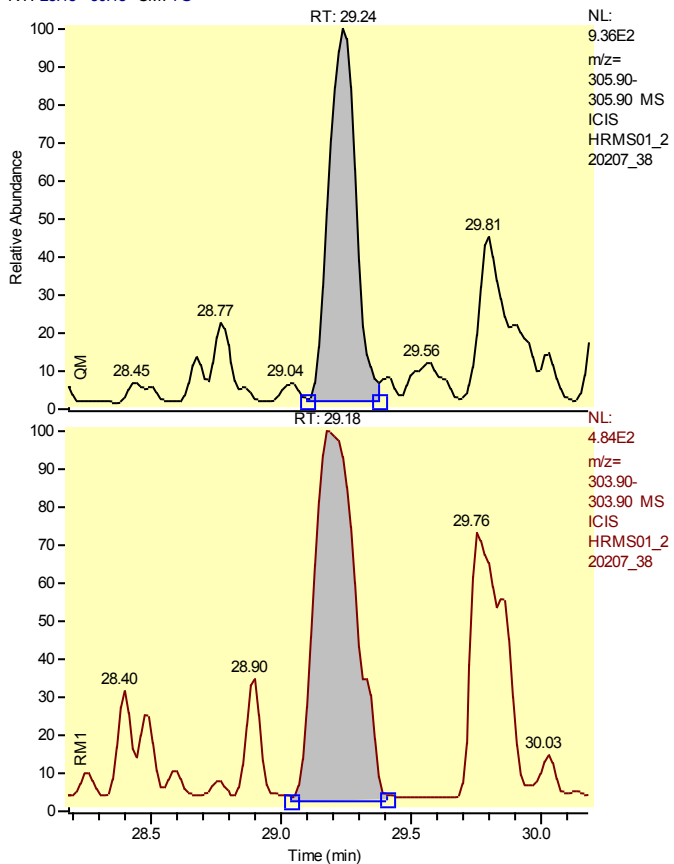
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

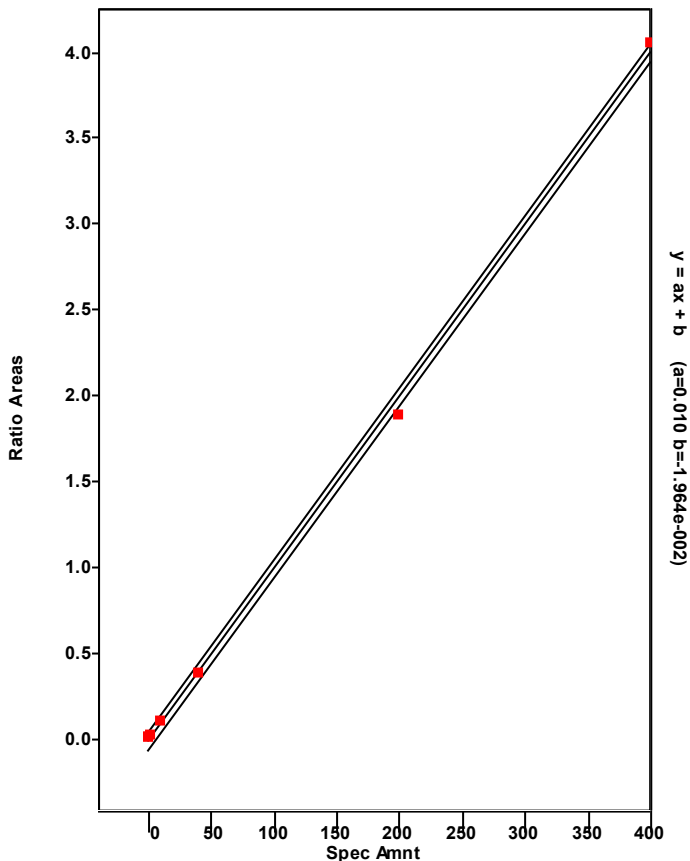
RT: 28.18 - 30.18 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__4
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	6575
RM1 Area	5109
RM1 Ratio (A)	0.7771
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.83
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__4

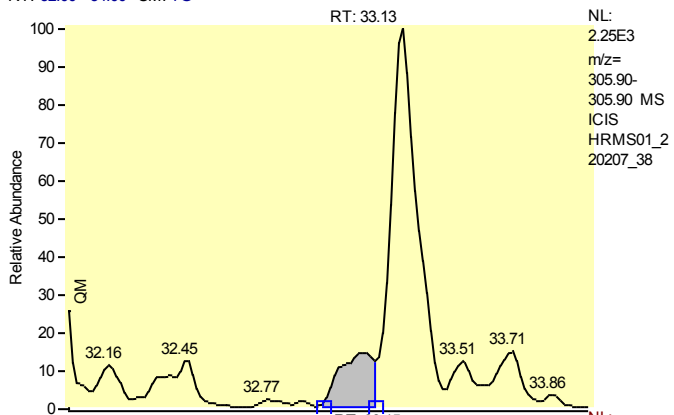
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

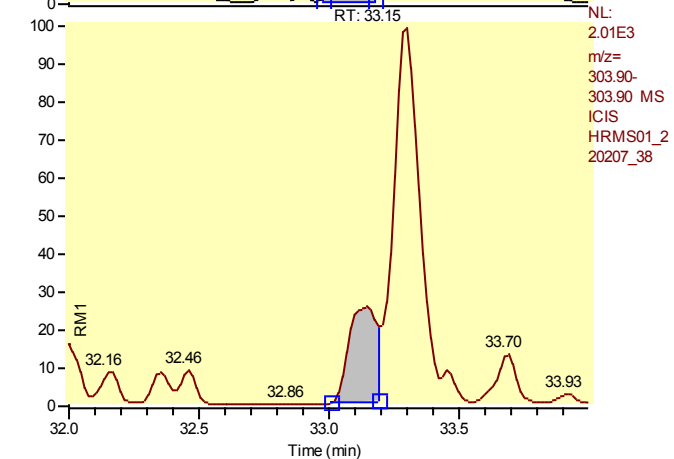
Entry Parameters

RT: 32.00-34.00 SM: 7G



NL:
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305.90-
305.90 MS
ICIS
HRMS01_2
20207_38

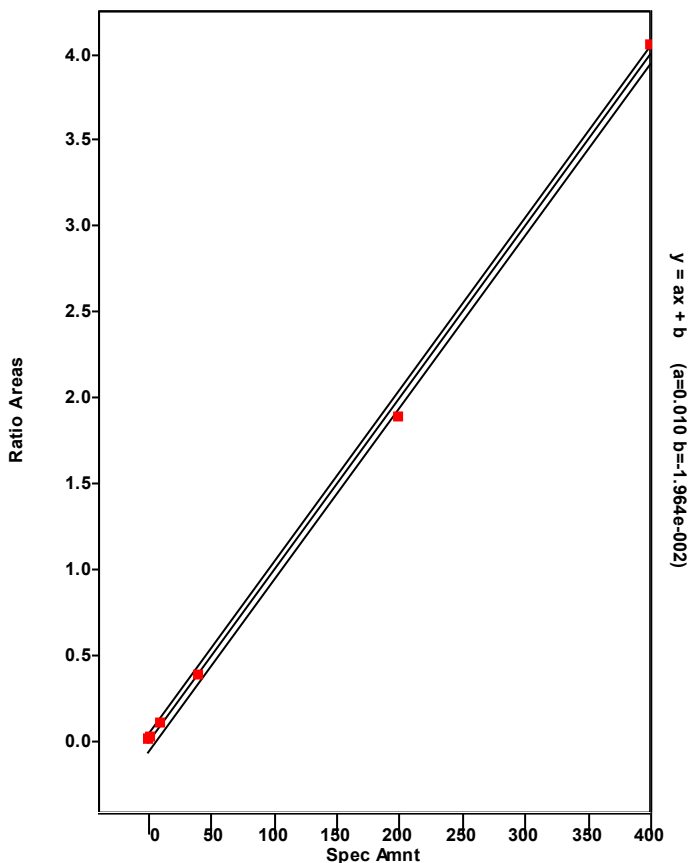
Entry Identifier	Total Tetrachlorodibenzofuran__5
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	2844
RM1 Area	3570
RM1 Ratio (A)	1.2551
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.45
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



NL:
2.01E3
m/z=
303.90-
303.90 MS
ICIS
HRMS01_2
20207_38

Calibration Points of Total Tetrachlorodibenzofuran__5

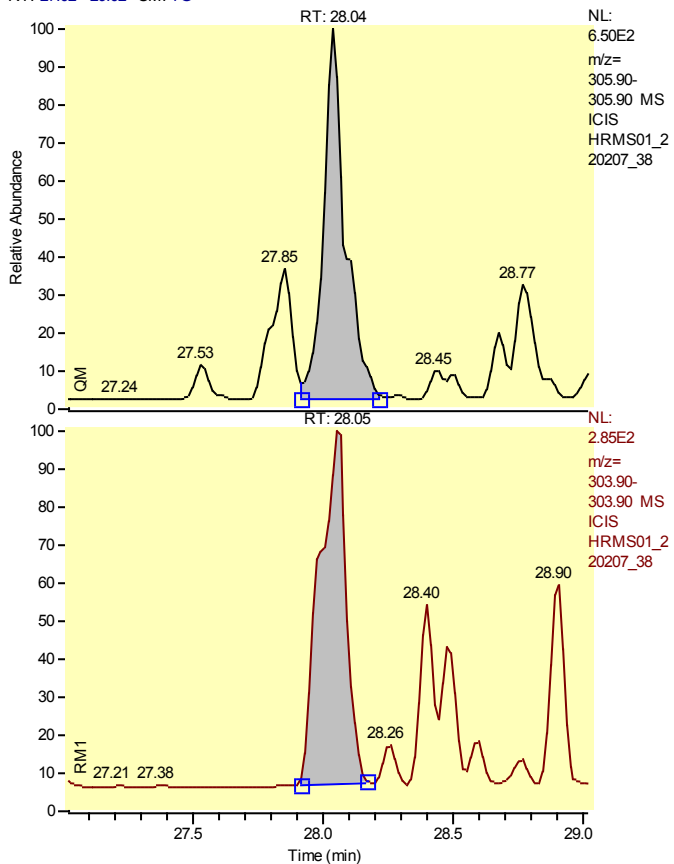
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

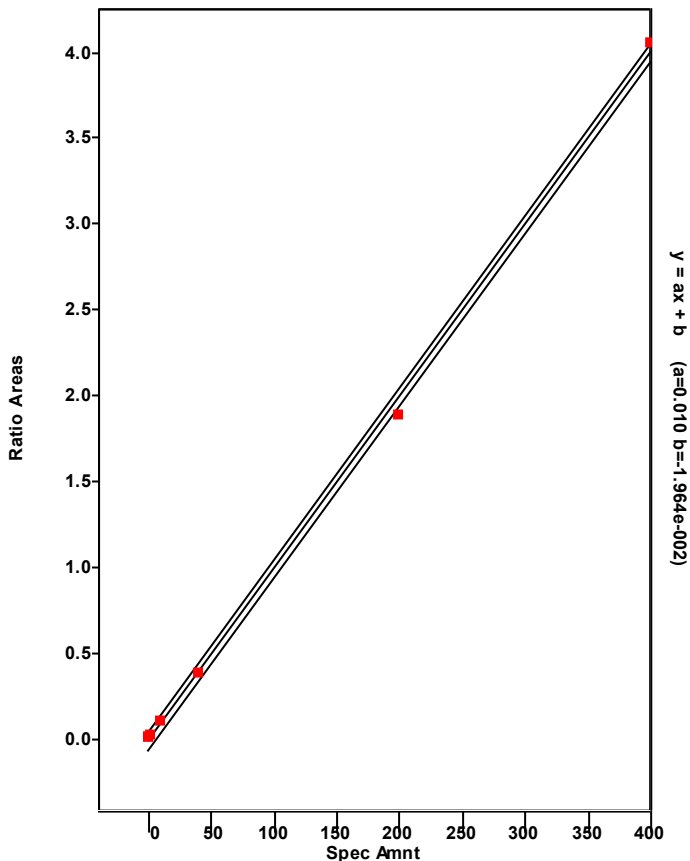
RT: 27.02 - 29.02 SM: 7G



Entry Identifier	Total Tetrachlorodibenzofuran__6
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	3794
RM1 Area	1970
RM1 Ratio (A)	0.5192
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.41
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

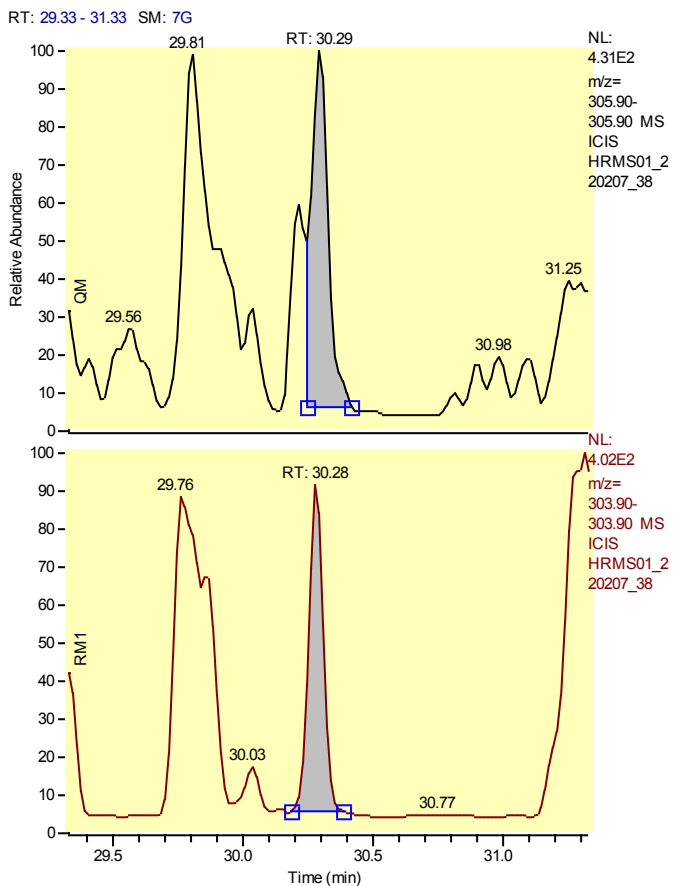
Calibration Points of Total Tetrachlorodibenzofuran__6

Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

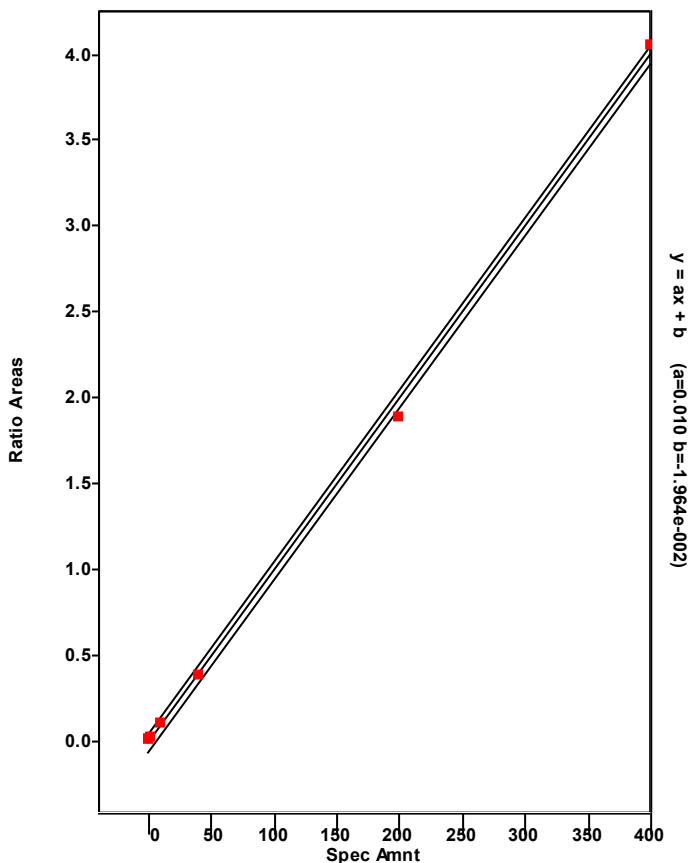
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzofuran__7
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	1792
RM1 Area	1320
RM1 Ratio (A)	0.7364
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.22
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

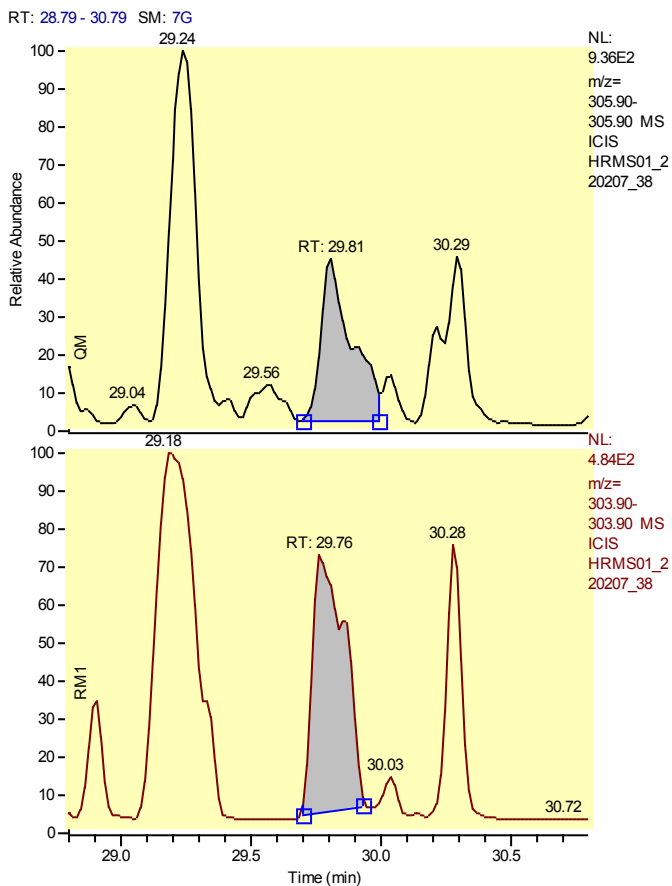
Calibration Points of Total Tetrachlorodibenzofuran__7

Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

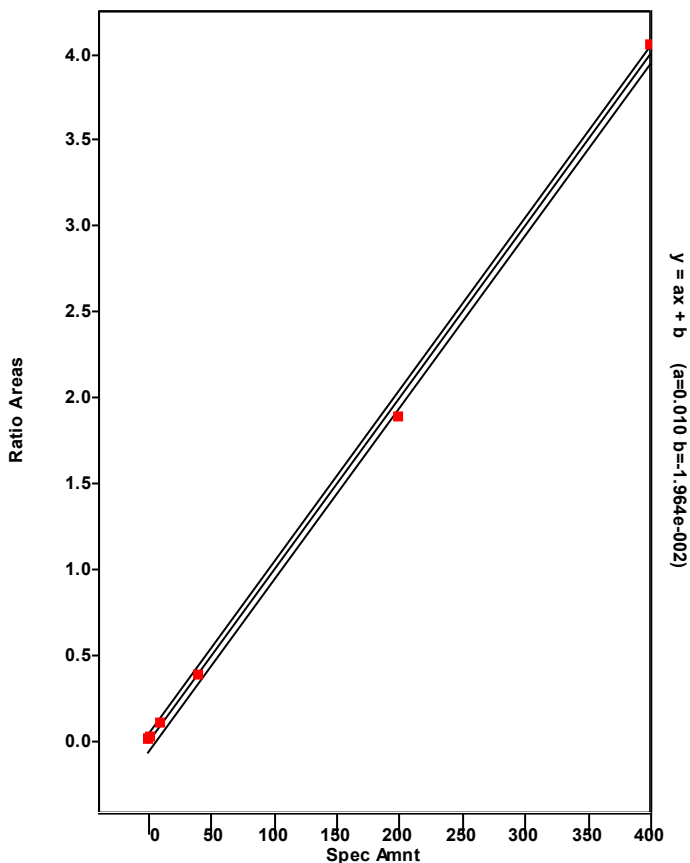
Entry Parameters



Entry Identifier	Total Tetrachlorodibenzofuran__8
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	3244
RM1 Area	2785
RM1 Ratio (A)	0.8583
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.43
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzofuran__8

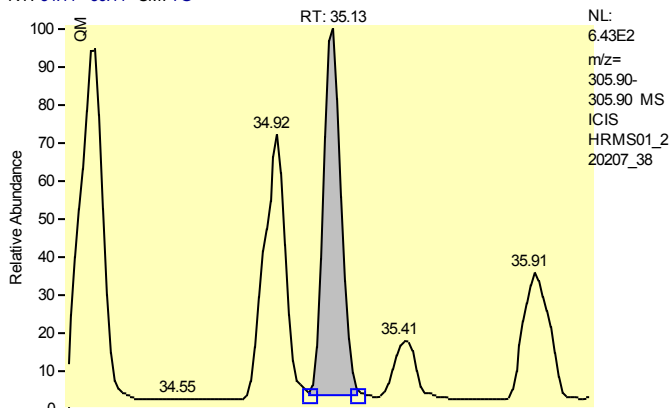
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



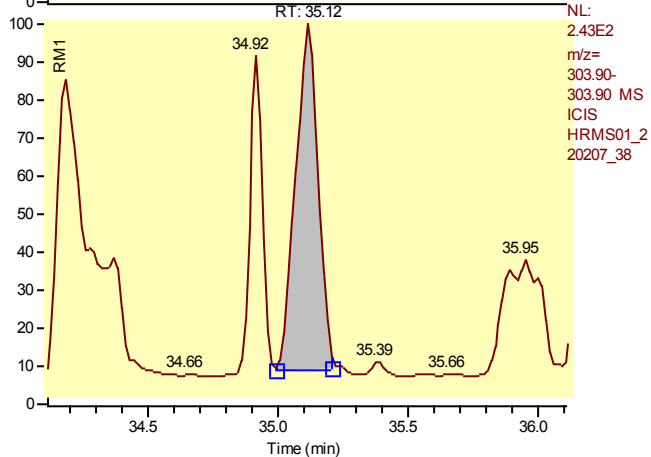
Chromatogram

Entry Parameters

RT: 34.11-36.11 SM: 7G

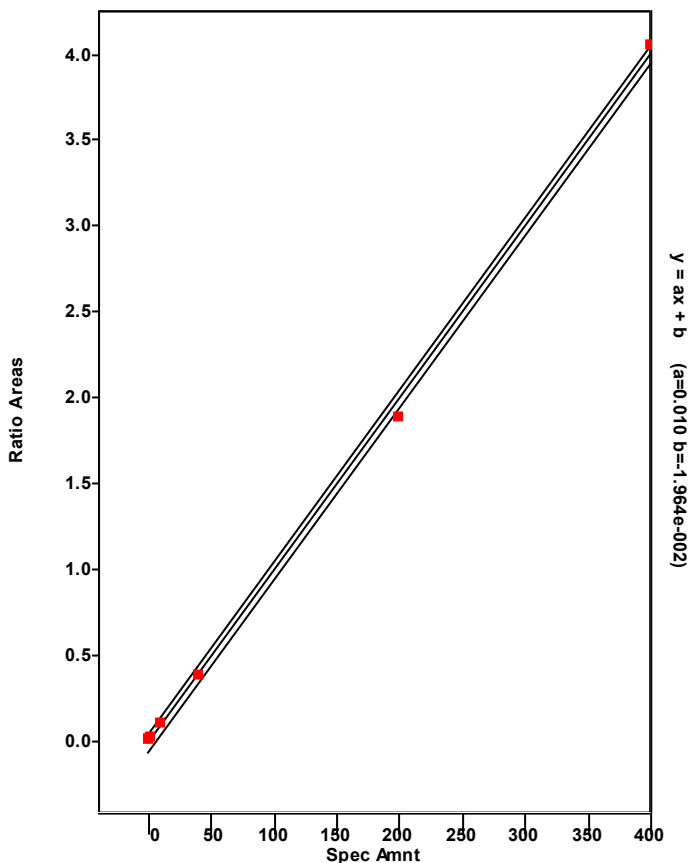


Entry Identifier	Total Tetrachlorodibenzofuran__9
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	2890
RM1 Area	1304
RM1 Ratio (A)	0.4513
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d. < 0.30
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of Total Tetrachlorodibenzofuran__9

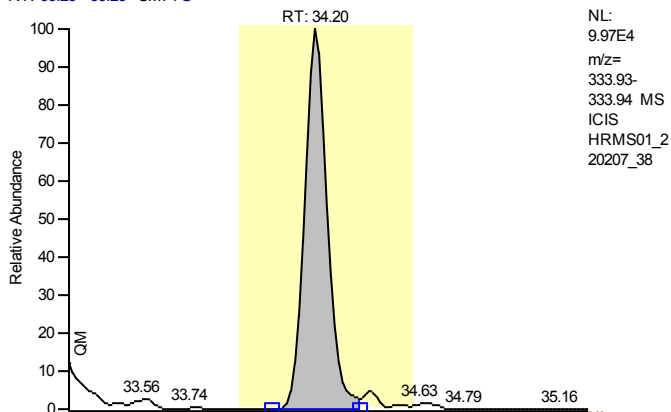
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

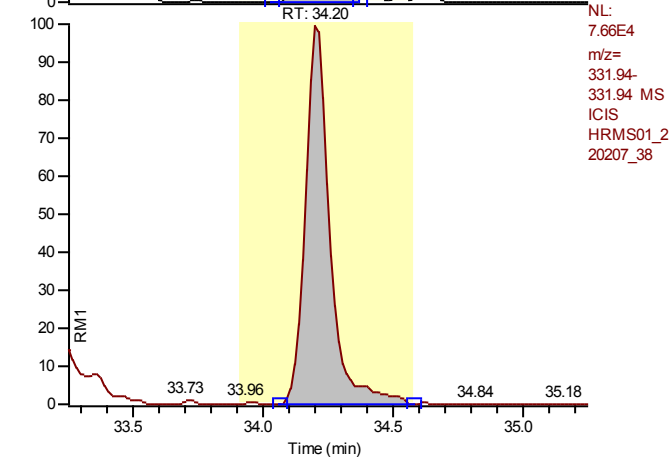
Entry Parameters

RT: 33.25 - 35.25 SM: 7G



NL:
 9.97E4
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_38

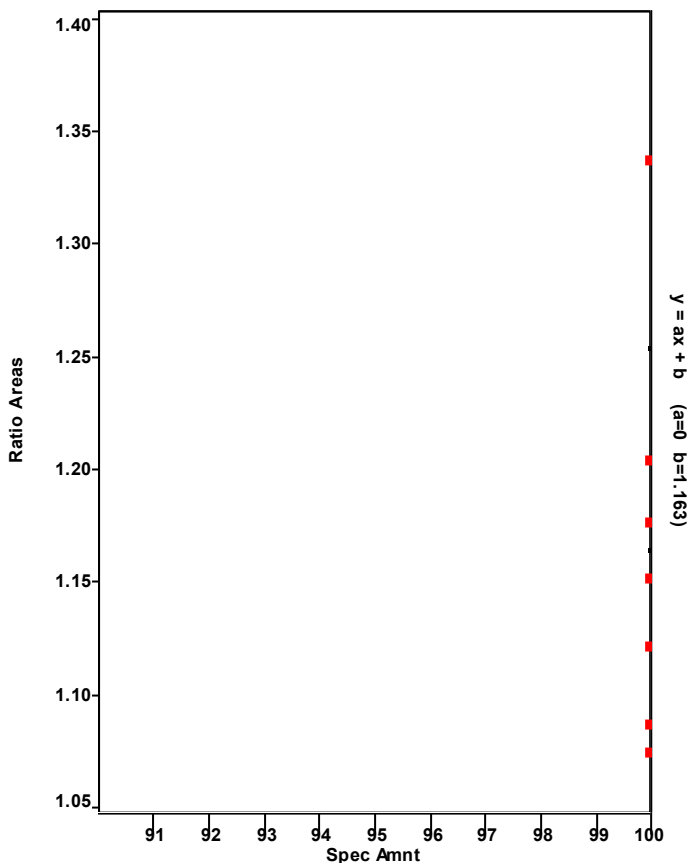
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	599653
RM1 Area	500661
RM1 Ratio (A)	0.8349
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	52.31
Percent Recovery (A)	52
TEQ (A)	0.0000
Label2	



NL:
 7.66E4
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

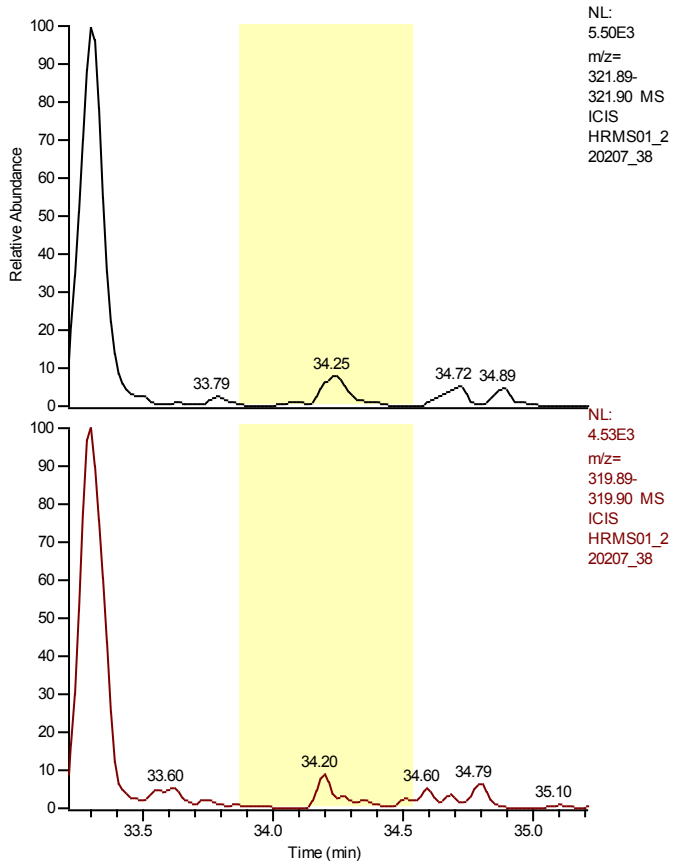
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

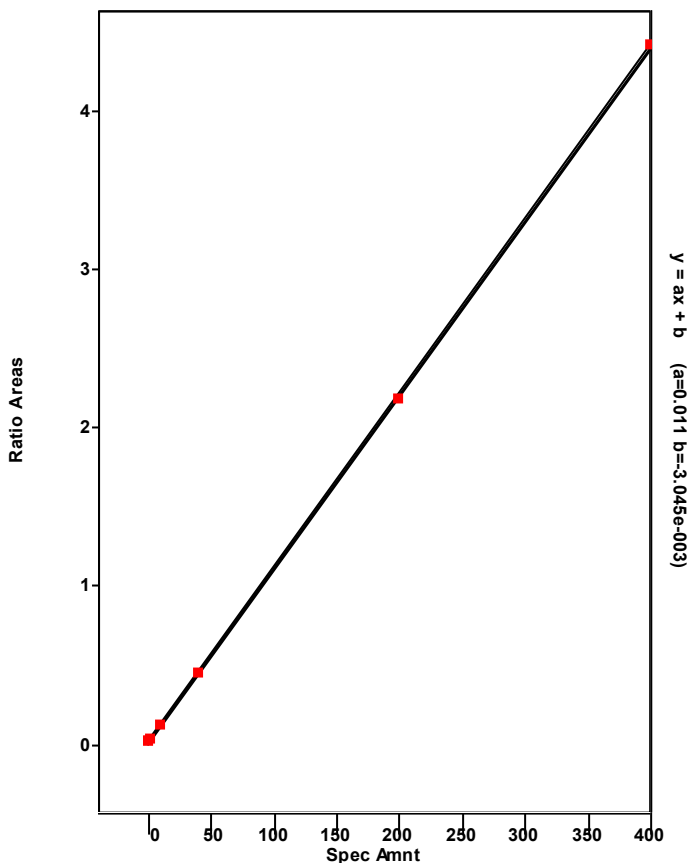
RT: 33.21 - 35.21 SM: 7G



Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

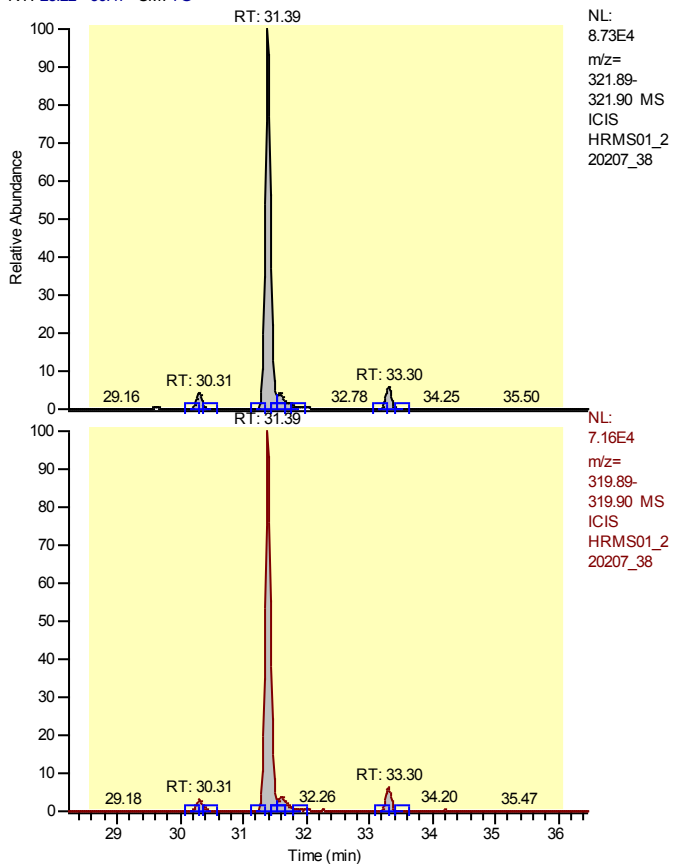
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.22 - 36.47 SM: 7G



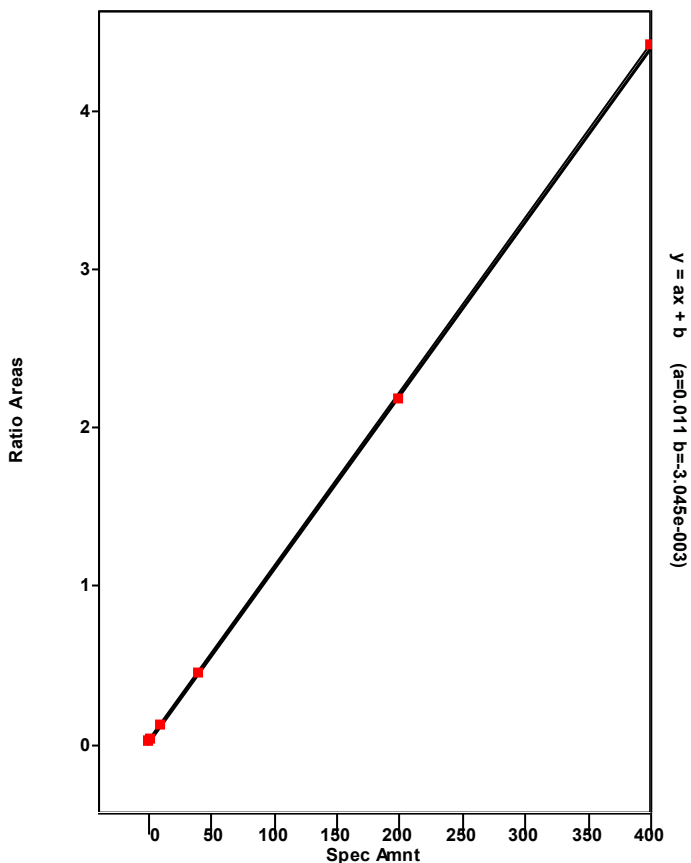
NL:
 8.73E4
 m/z=
 321.89-
 321.90 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 7.16E4
 m/z=
 319.89-
 319.90 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	667209
RM1 Area	539018
RM1 Ratio (A)	0.8079
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	103.58
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

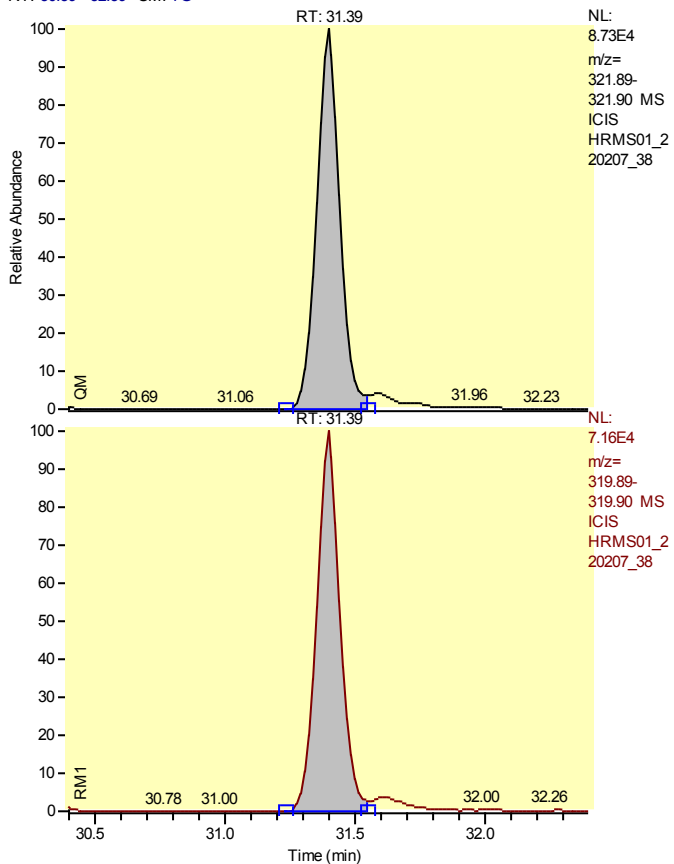
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

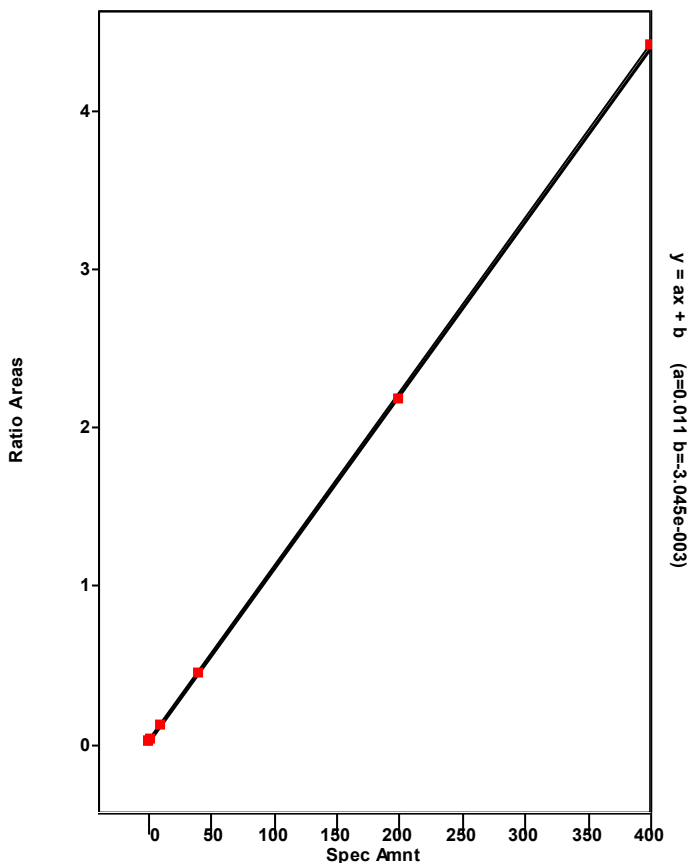
RT: 30.39 - 32.39 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	571096
RM1 Area	468297
RM1 Ratio (A)	0.8200
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	89.26
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

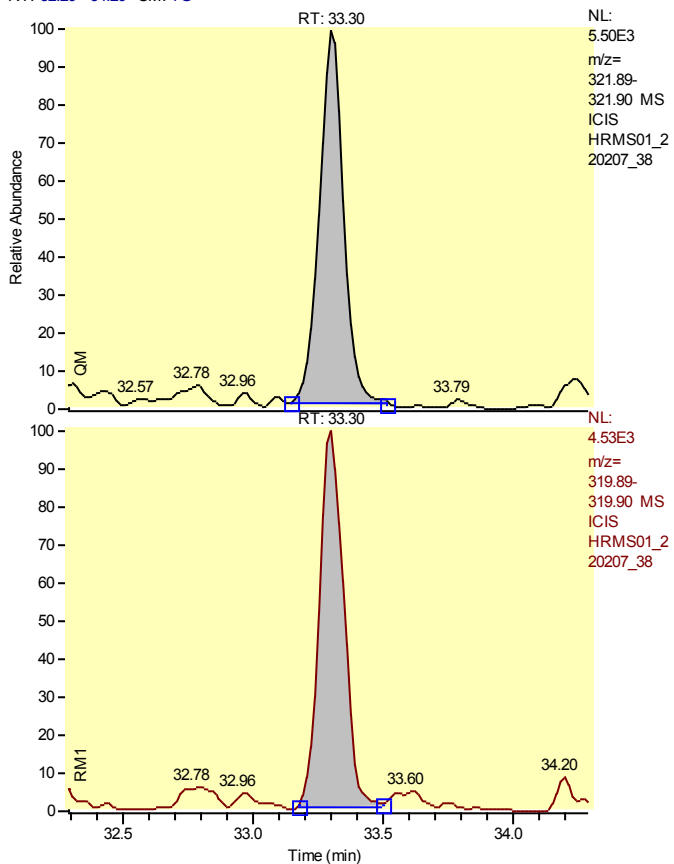
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

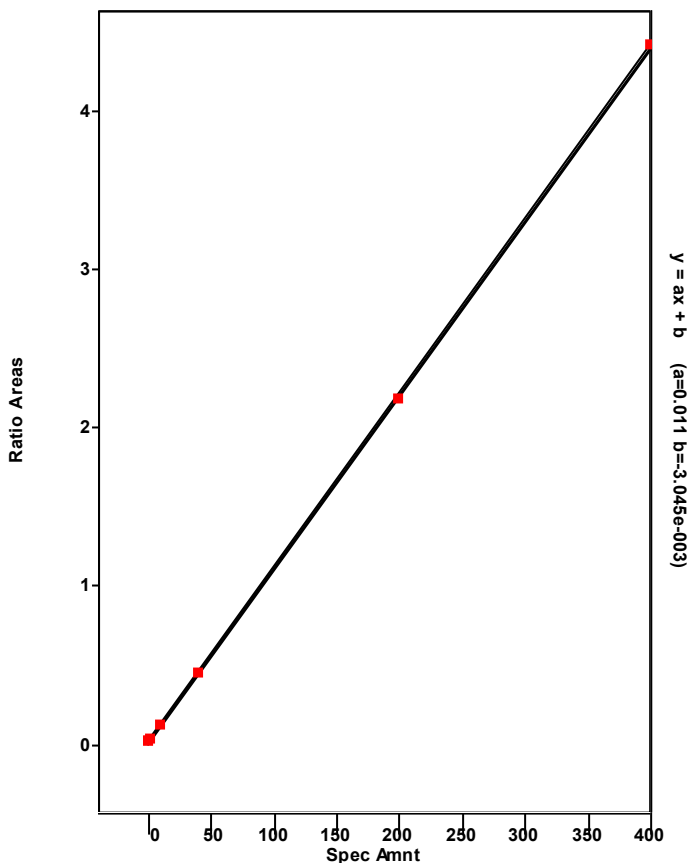
RT: 32.29 - 34.29 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__2
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	34902
RM1 Area	28763
RM1 Ratio (A)	0.8241
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.47
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__2

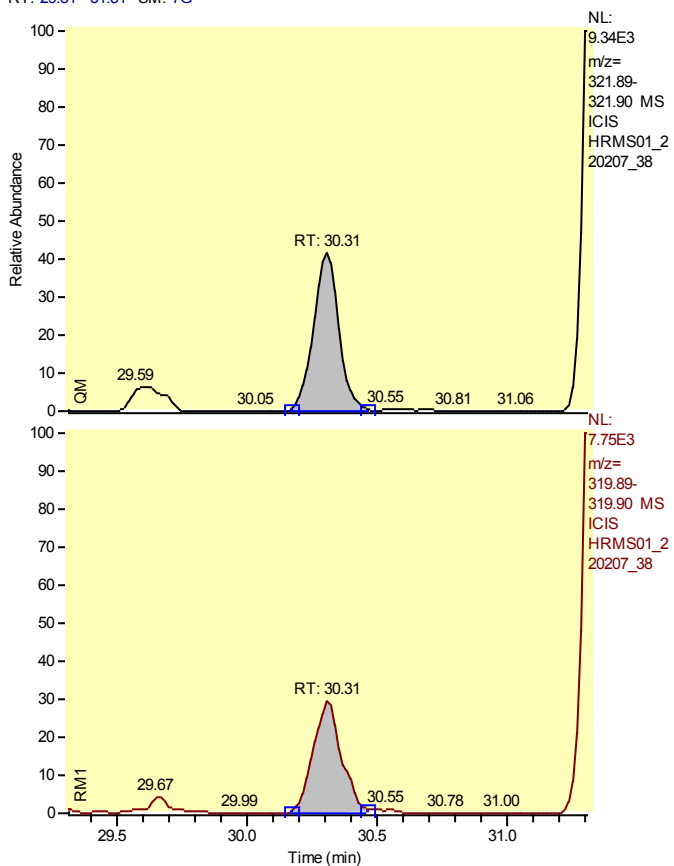
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

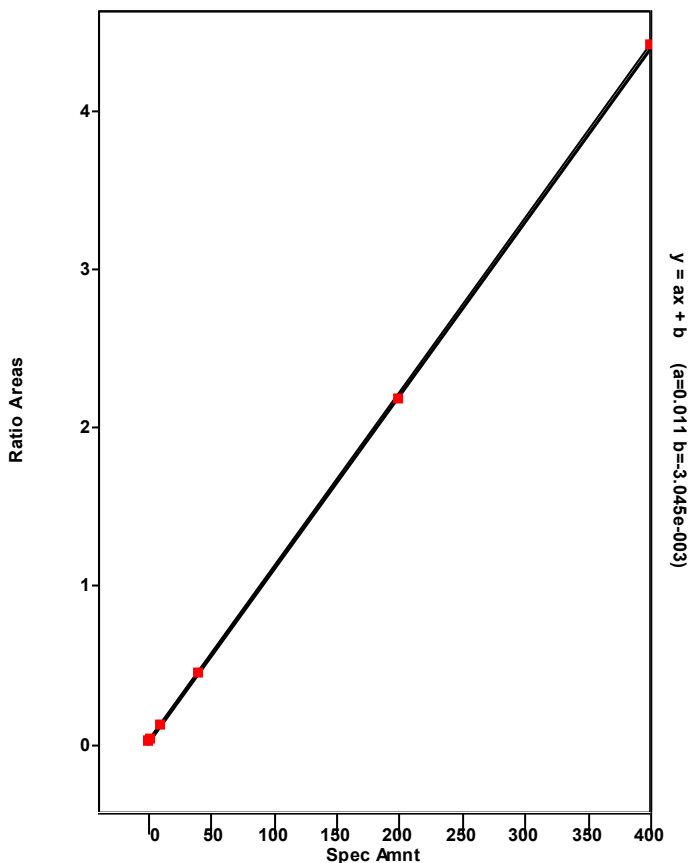
RT: 29.31 - 31.31 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__3
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	25814
RM1 Area	16788
RM1 Ratio (A)	0.6503
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	3.66
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

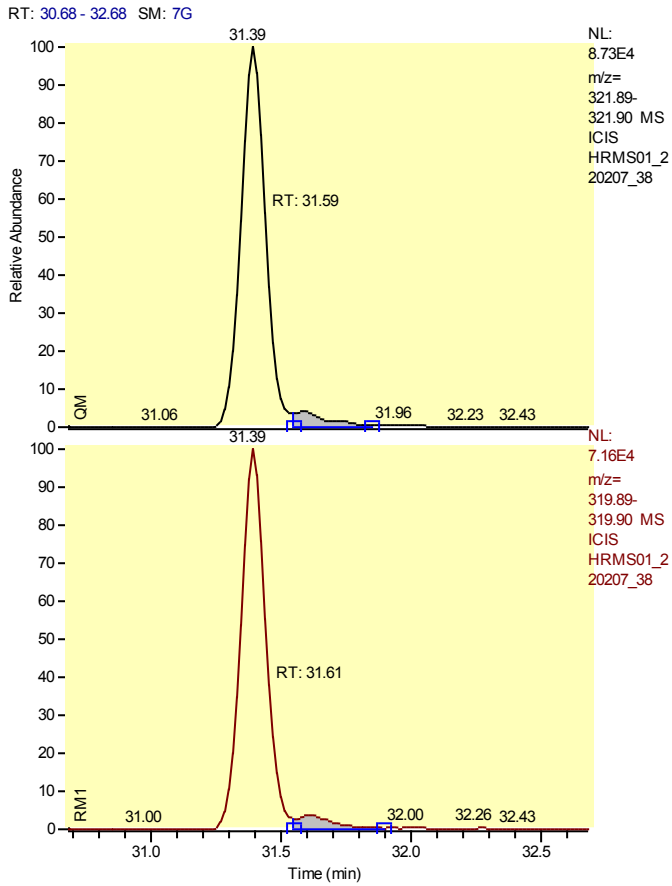
Calibration Points of Total Tetrachlorodibenzo-p-dioxin__3

Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters



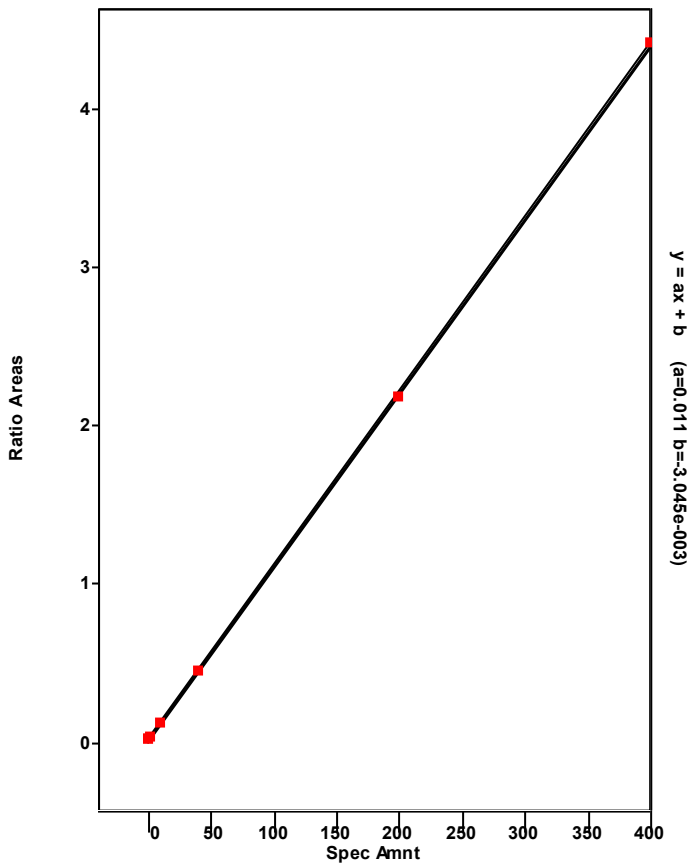
NL:
8.73E4
m/z=
321.89-
321.90 MS
ICIS
HRMS01_2
20207_38

NL:
7.16E4
m/z=
319.89-
319.90 MS
ICIS
HRMS01_2
20207_38

Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__4
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	35398
RM1 Area	25170
RM1 Ratio (A)	0.7111
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	5.20
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__4

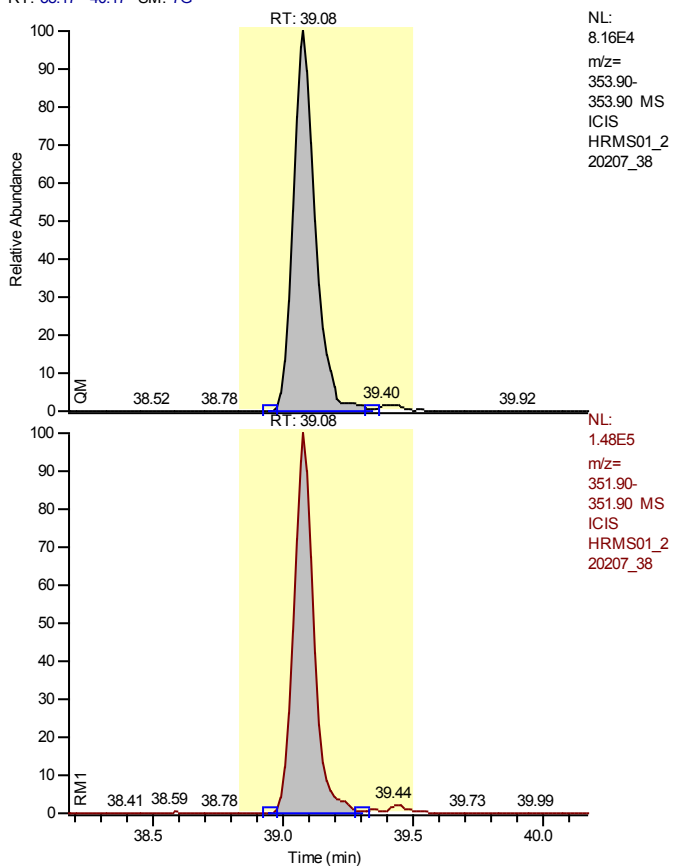
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.17 - 40.17 SM: 7G



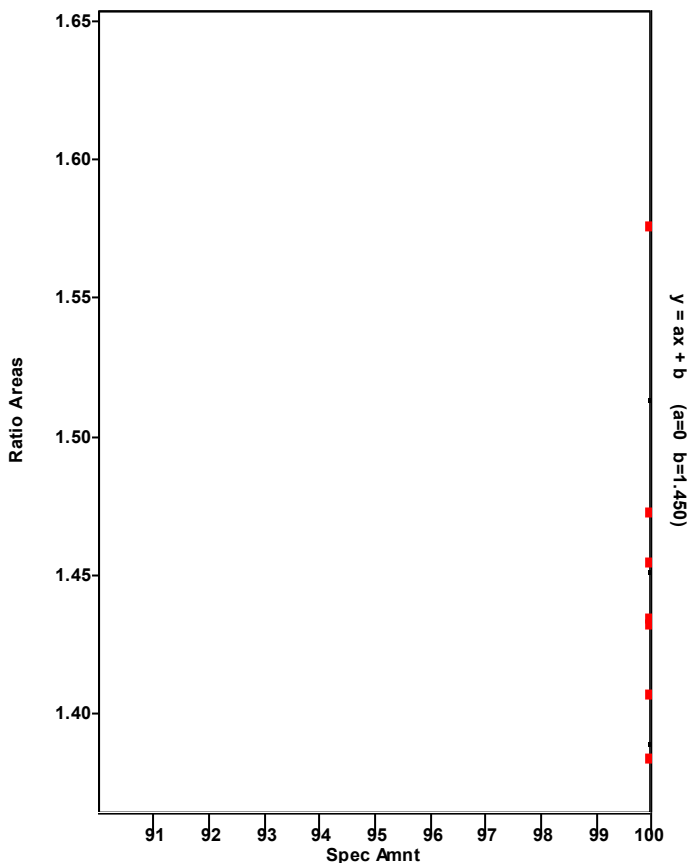
NL:
 8.16E4
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 1.48E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	490287
RM1 Area	810201
RM1 Ratio (A)	1.6525
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	49.60
Percent Recovery (A)	50
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

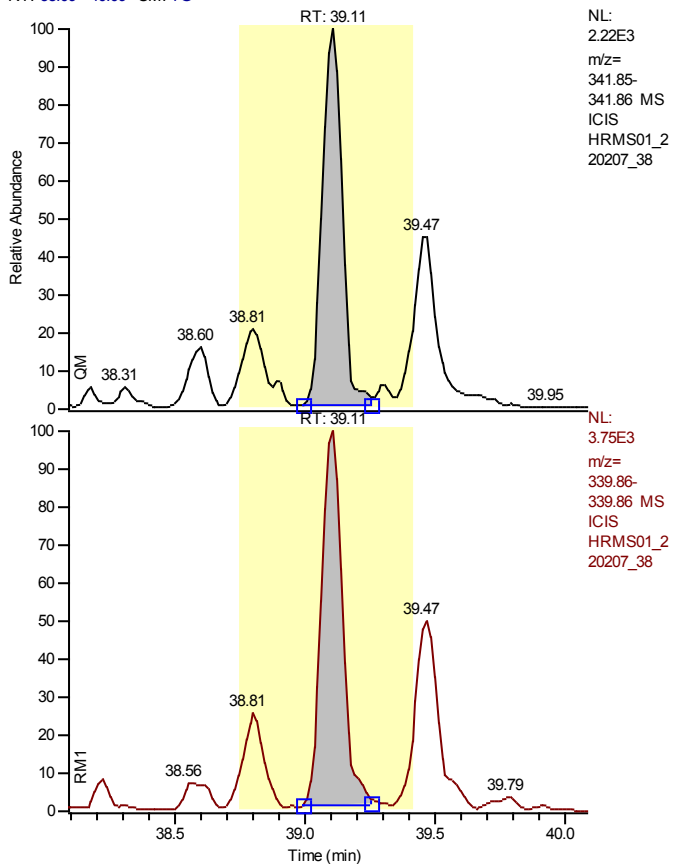
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G



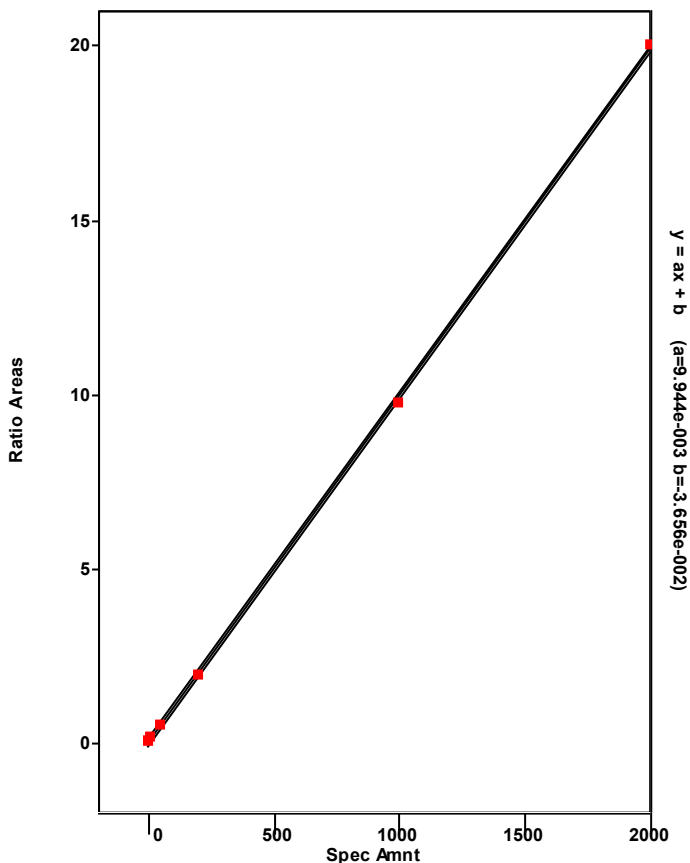
NL:
 2.22E3
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 3.75E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	11227
RM1 Area	19920
RM1 Ratio (A)	1.7743
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

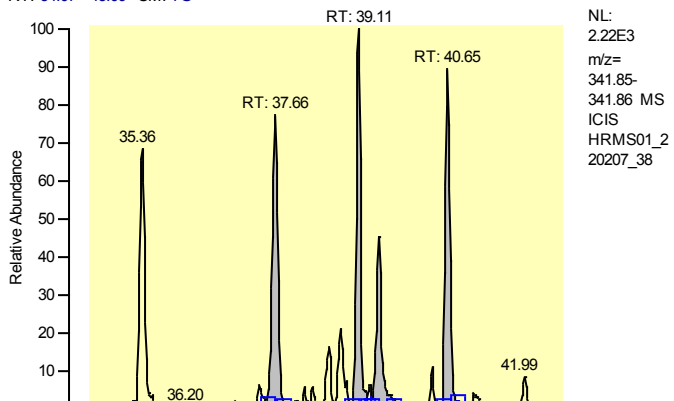
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



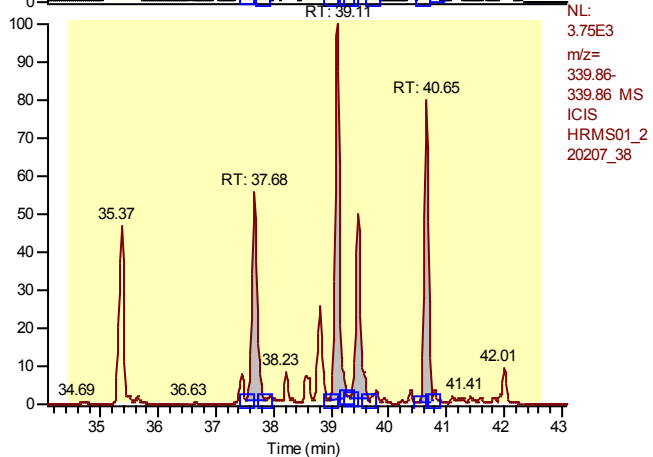
Chromatogram

Entry Parameters

RT: 34.07 - 43.09 SM: 7G

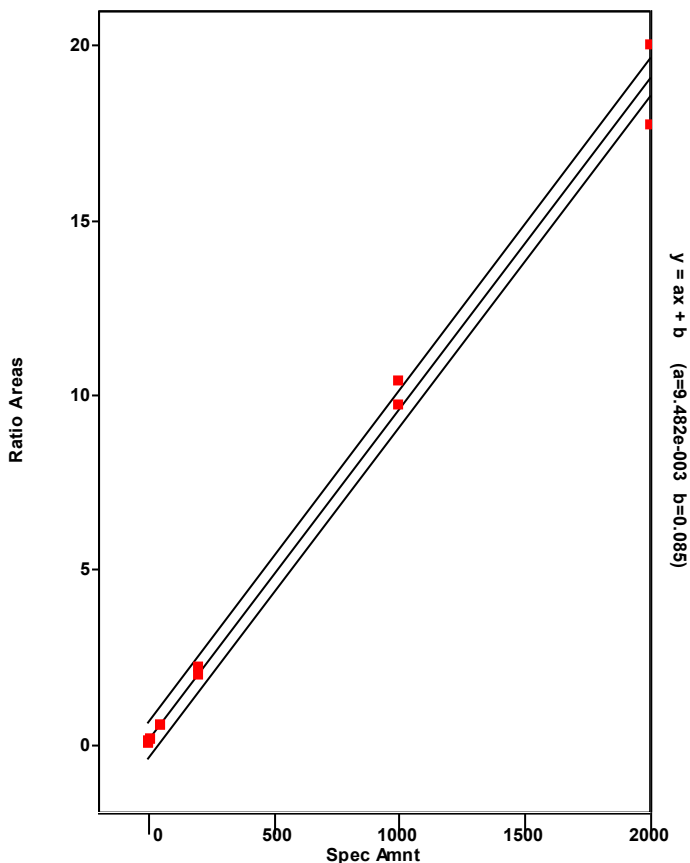


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	39774
RM1 Area	59455
RM1 Ratio (A)	1.6324
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	7.59
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzofuran

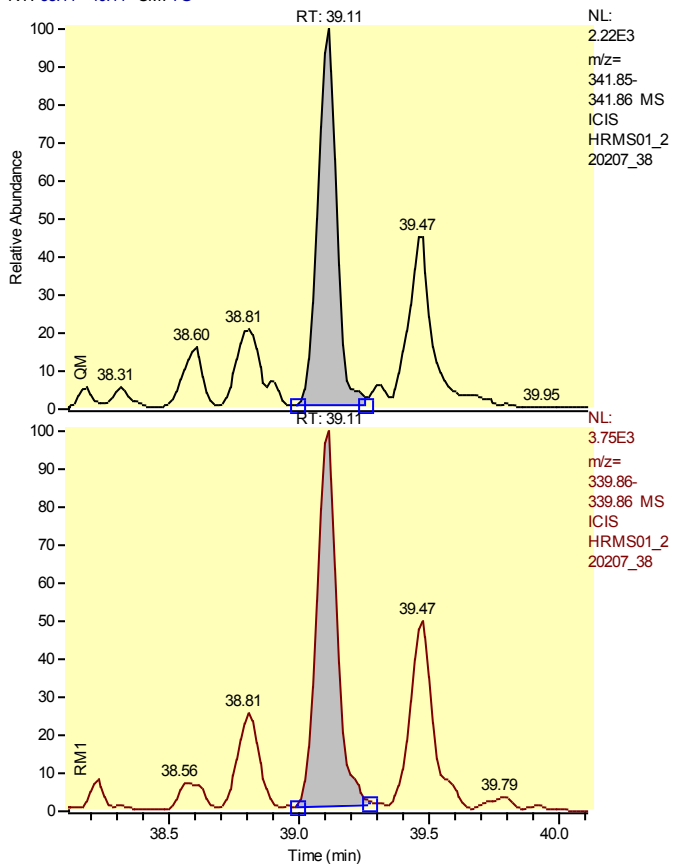
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

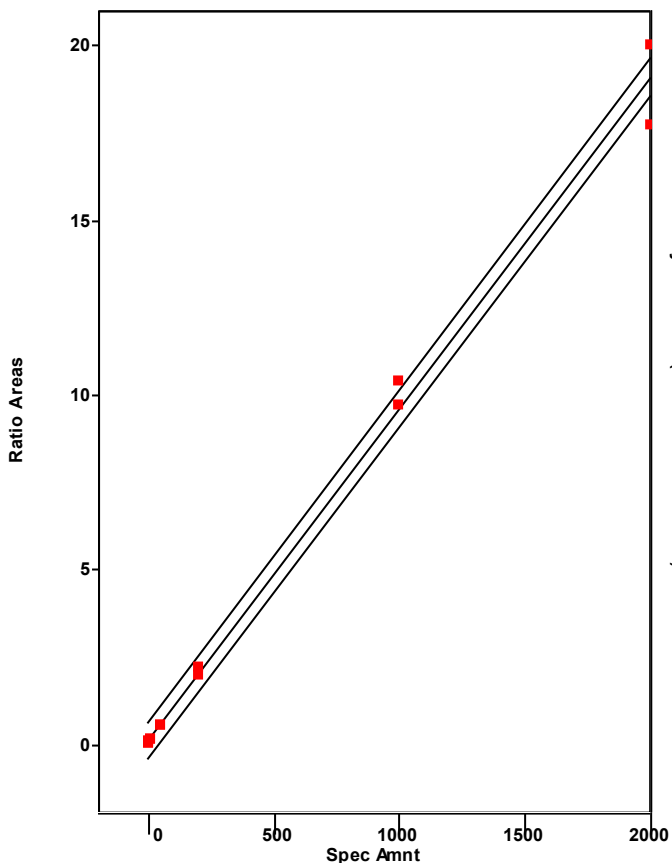
RT: 38.11 - 40.11 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	11343
RM1 Area	20114
RM1 Ratio (A)	1.7732
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.41
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__1

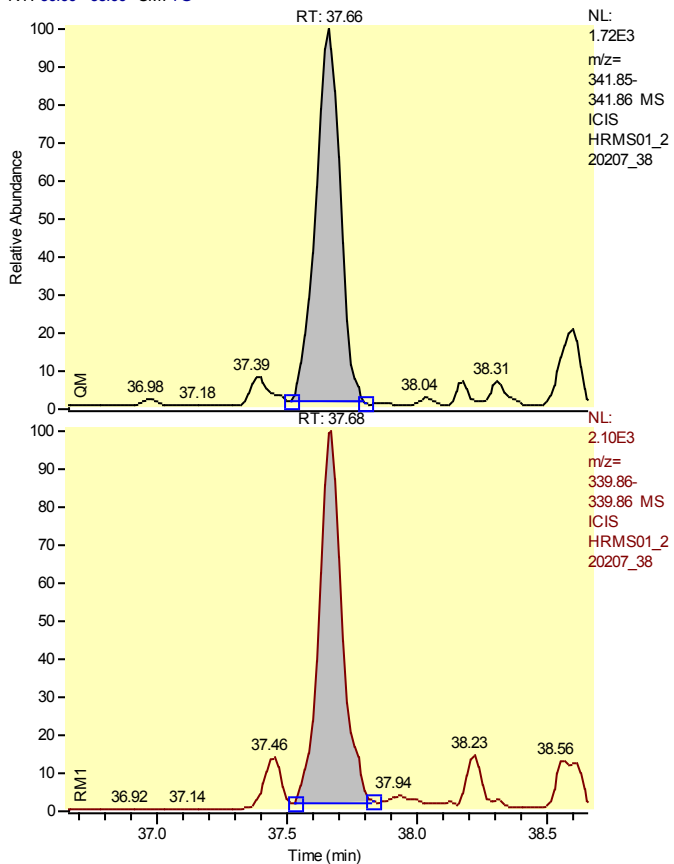
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

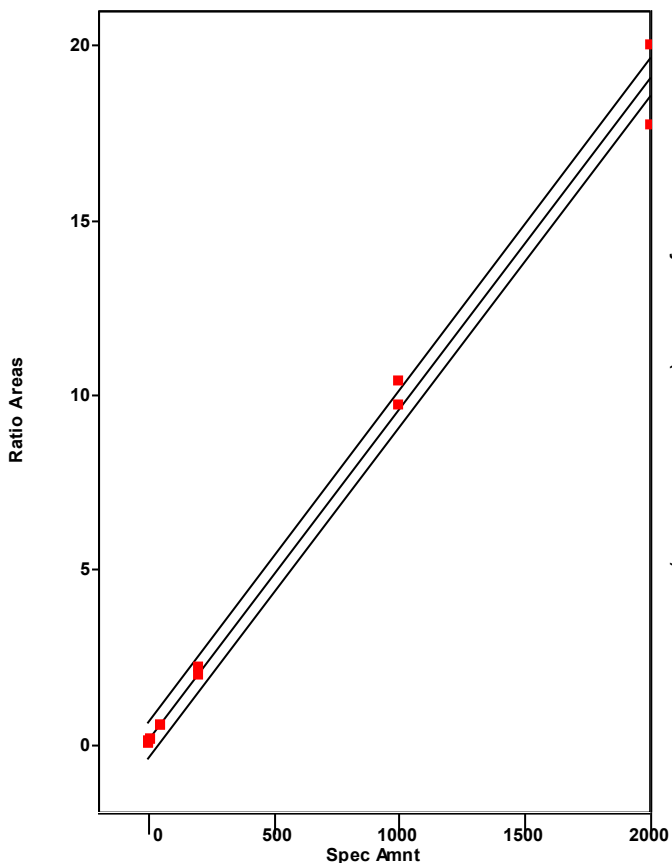
RT: 36.66 - 38.66 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__3
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	11166
RM1 Area	12758
RM1 Ratio (A)	1.1425
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d. < 1.83
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of Total Pentachlorodibenzofuran__3

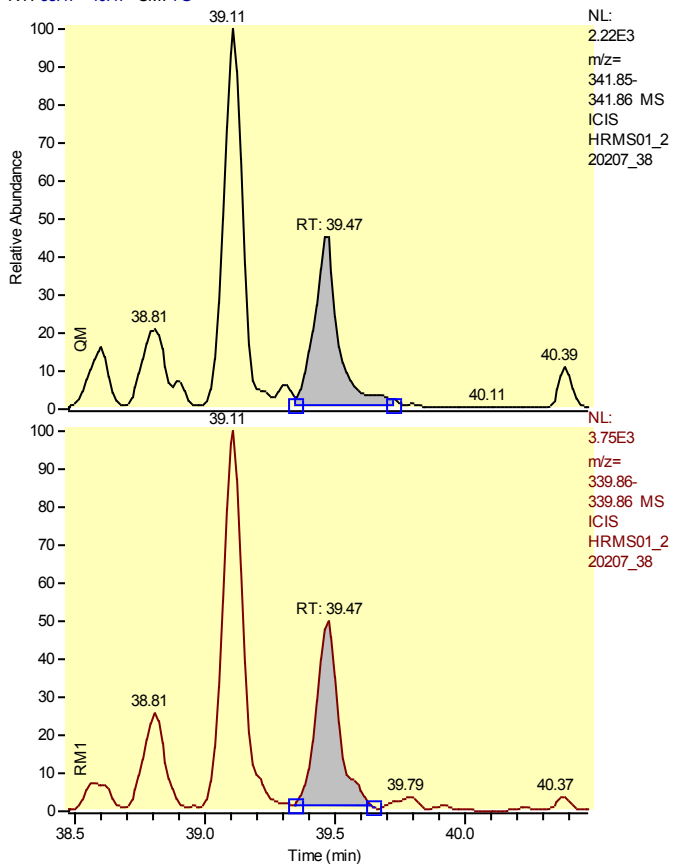
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

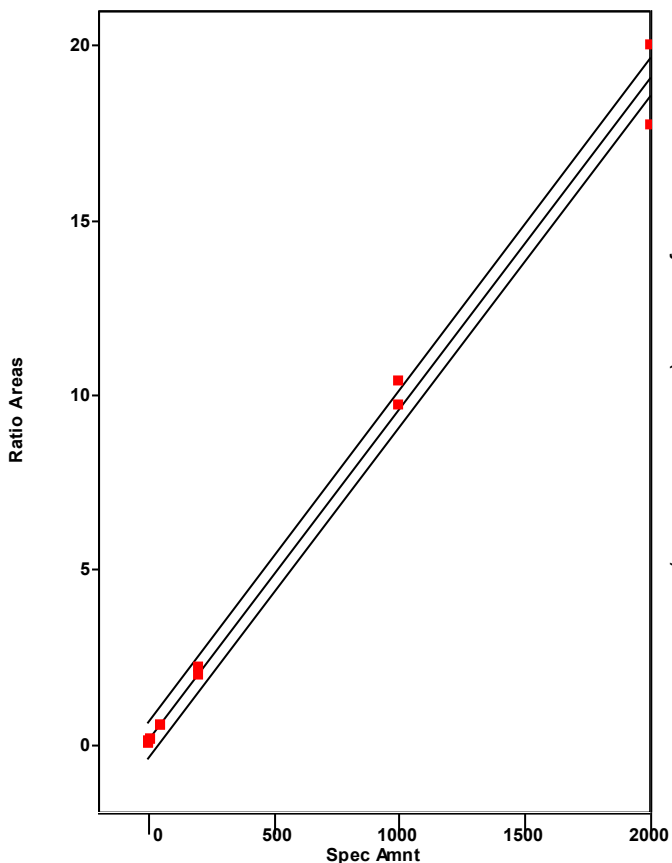
RT: 38.47 - 40.47 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__5
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	6335
RM1 Area	11185
RM1 Ratio (A)	1.7654
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.34
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__5

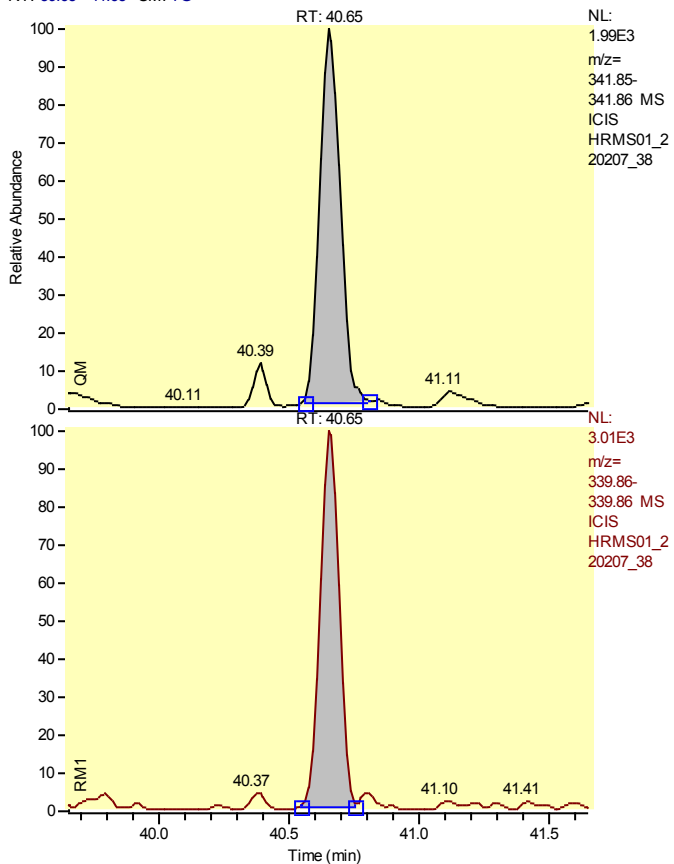
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

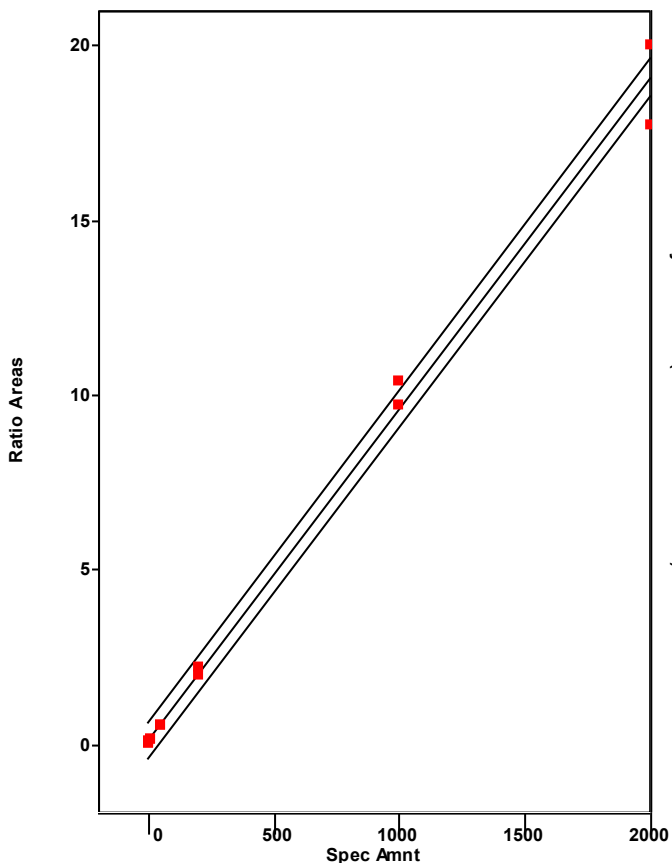
RT: 39.65 - 41.65 SM: 7G



Entry Identifier	Total Pentachlorodibenzofuran__6
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	10929
RM1 Area	15399
RM1 Ratio (A)	1.4090
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	2.01
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzofuran__6

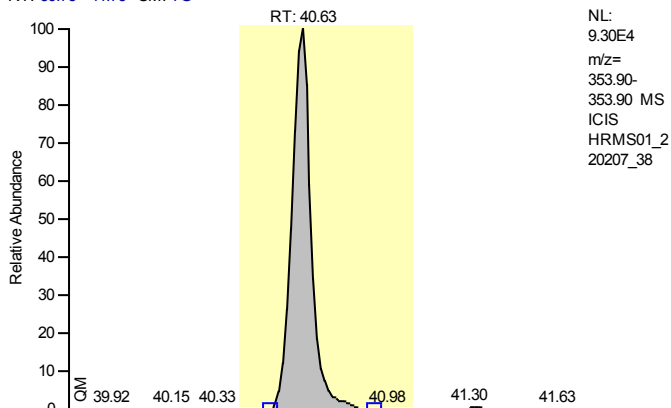
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

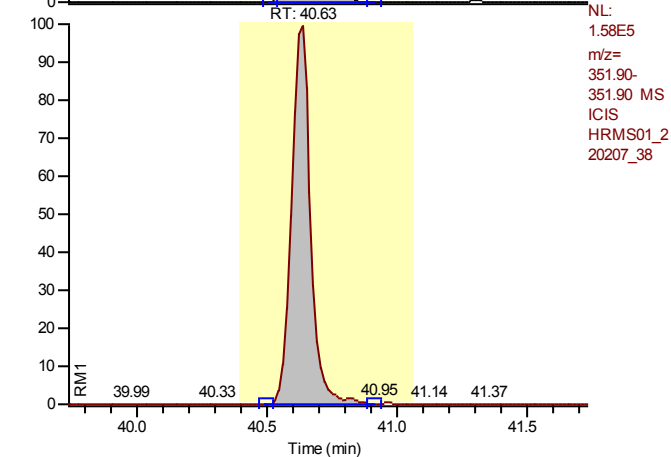
Entry Parameters

RT: 39.73 - 41.73 SM: 7G



NL:
 9.30E4
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_38

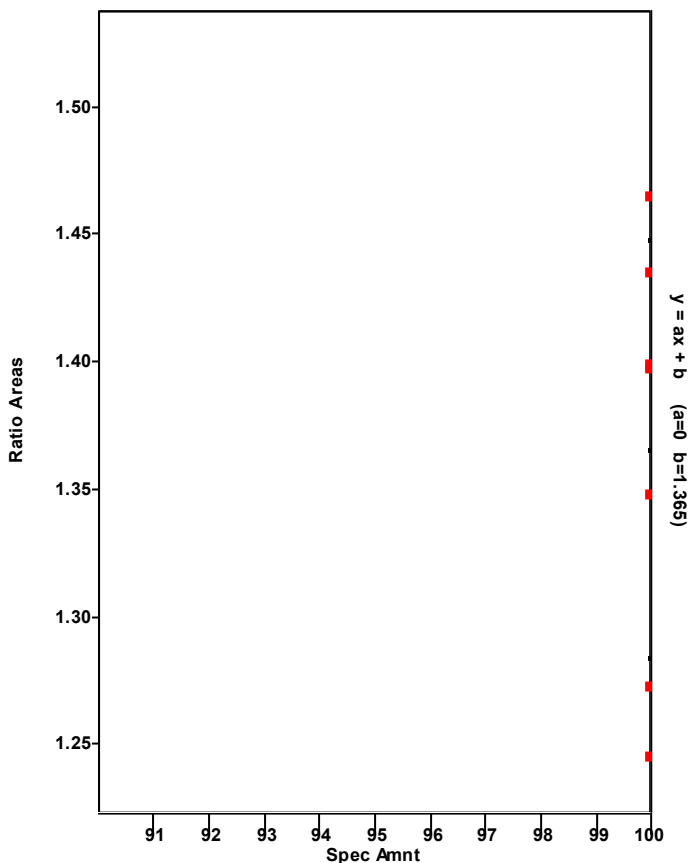
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	483393
RM1 Area	808838
RM1 Ratio (A)	1.6733
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	52.38
Percent Recovery (A)	52
TEQ (A)	0.0000
Label2	



NL:
 1.58E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

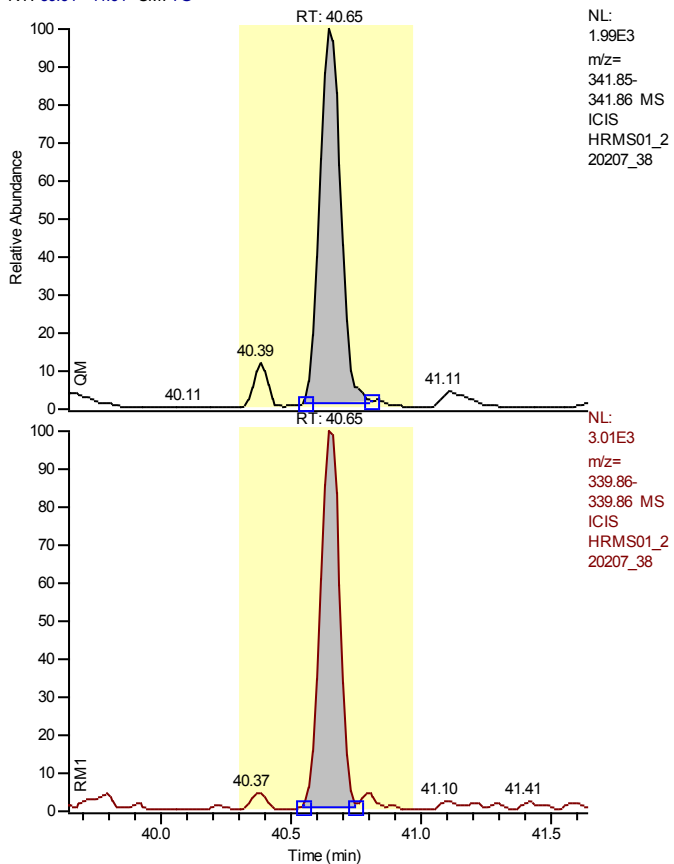
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

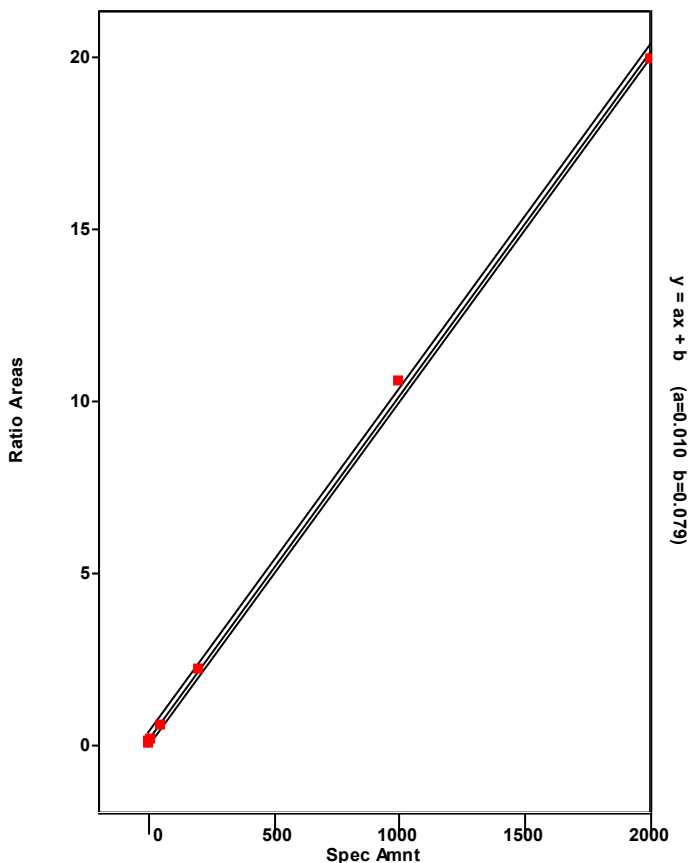
RT: 39.64 - 41.64 SM: 7G



Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	10929
RM1 Area	15399
RM1 Ratio (A)	1.4090
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	1.88
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

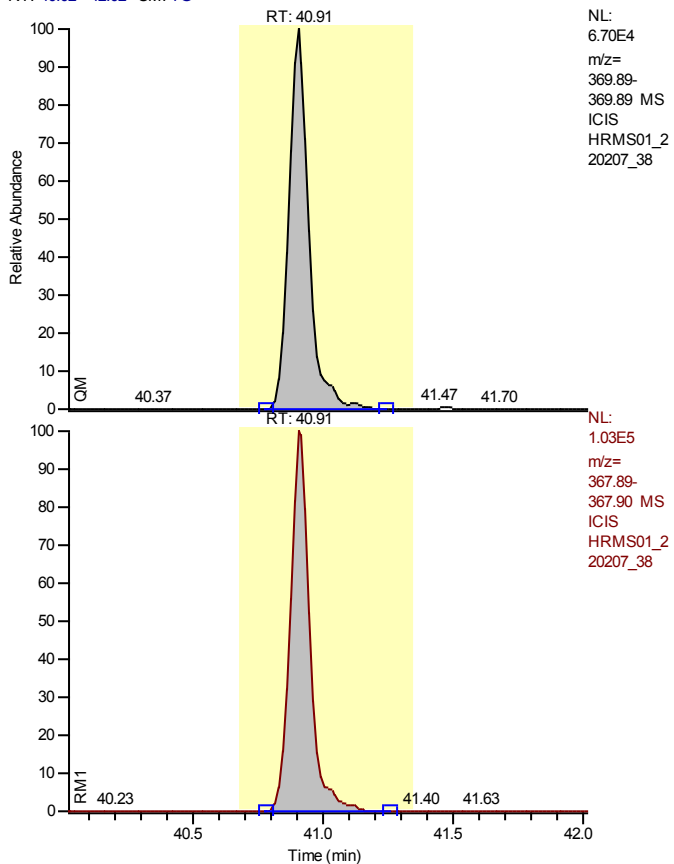
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

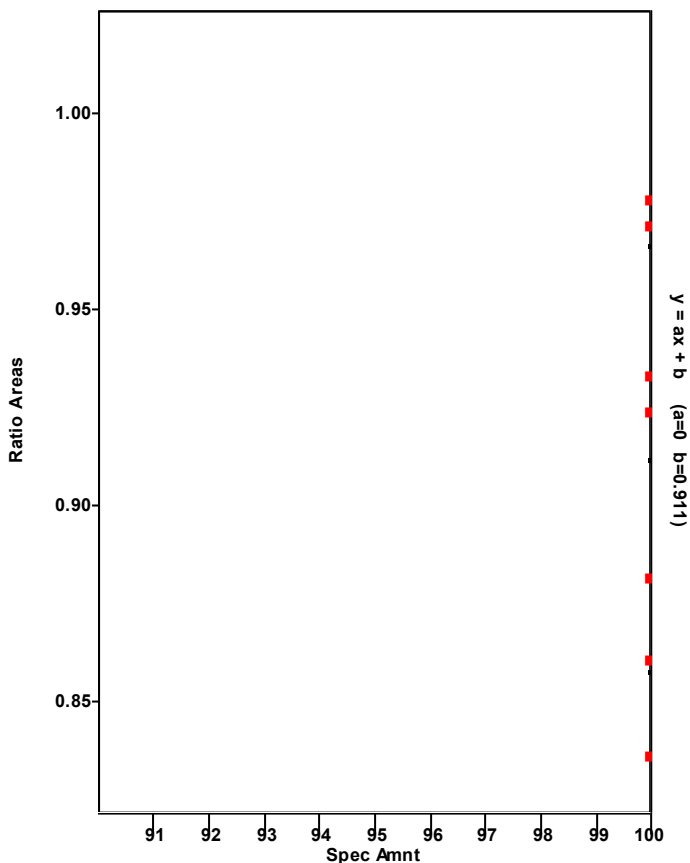
RT: 40.02 - 42.02 SM: 7G



Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	366718
RM1 Area	552128
RM1 Ratio (A)	1.5056
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	55.78
Percent Recovery (A)	56
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

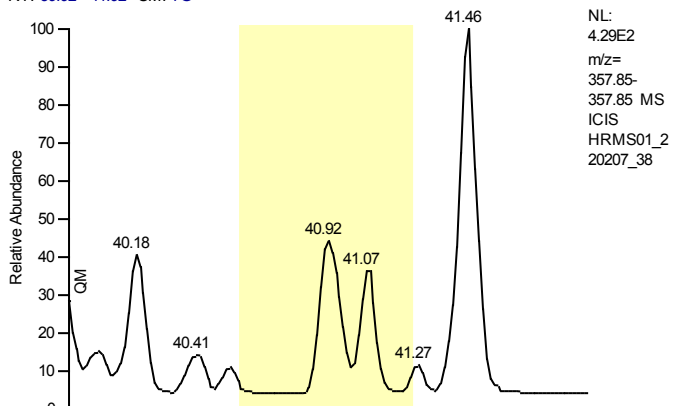
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



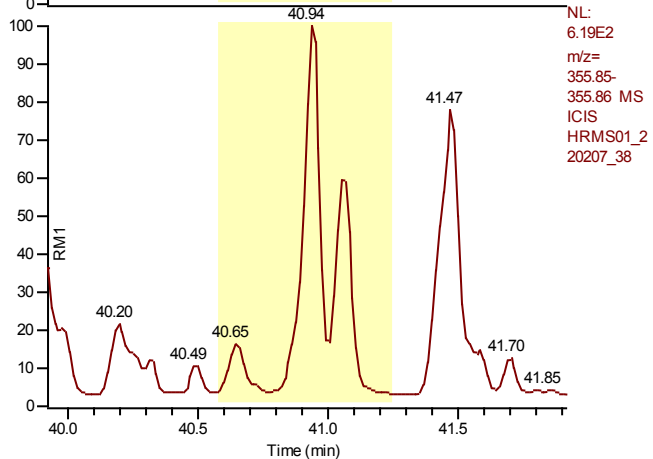
Chromatogram

Entry Parameters

RT: 39.92 - 41.92 SM: 7G

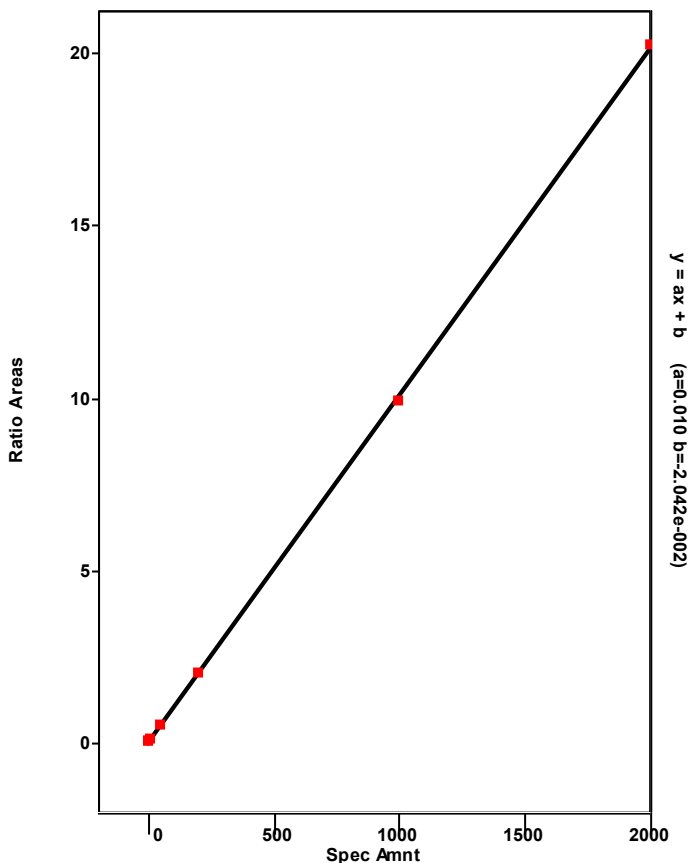


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

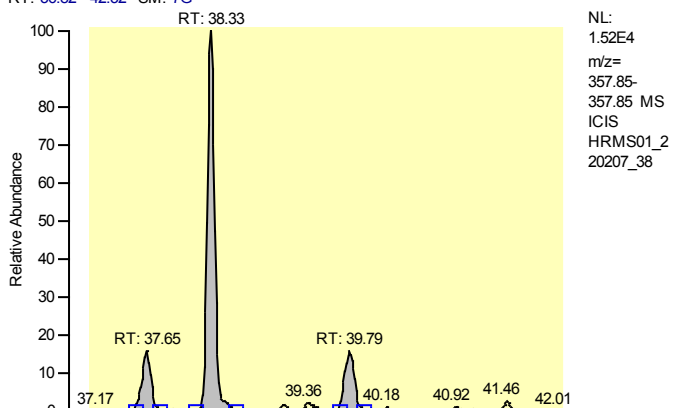
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



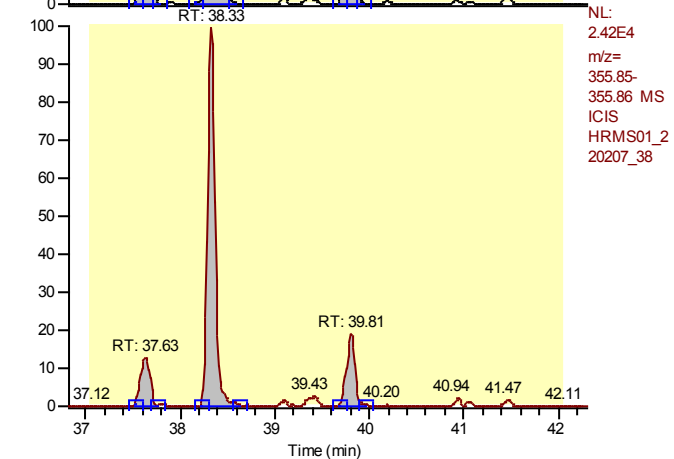
Chromatogram

Entry Parameters

RT: 36.82 - 42.32 SM: 7G

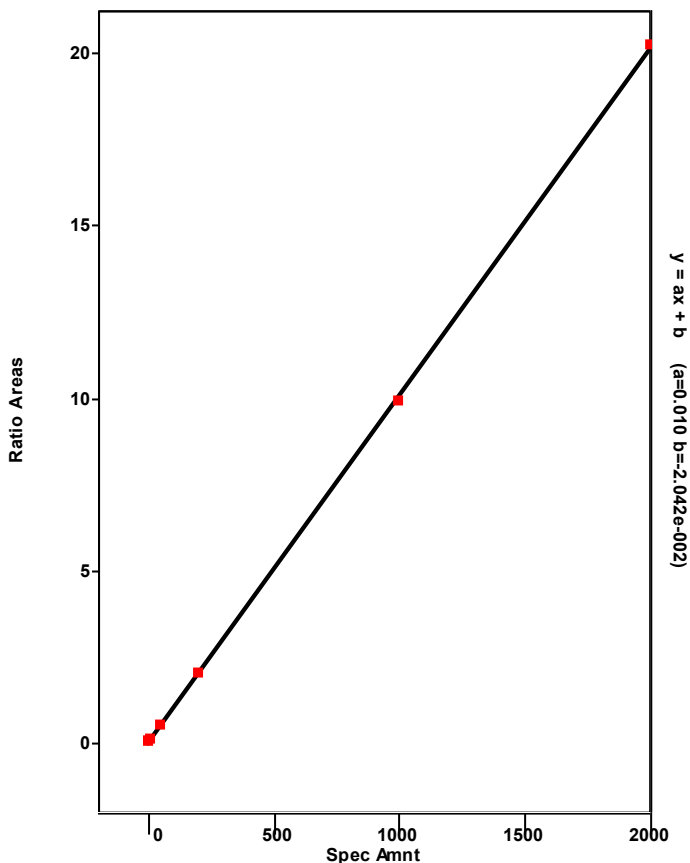


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	117249
RM1 Area	187850
RM1 Ratio (A)	1.6021
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	33.10
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin

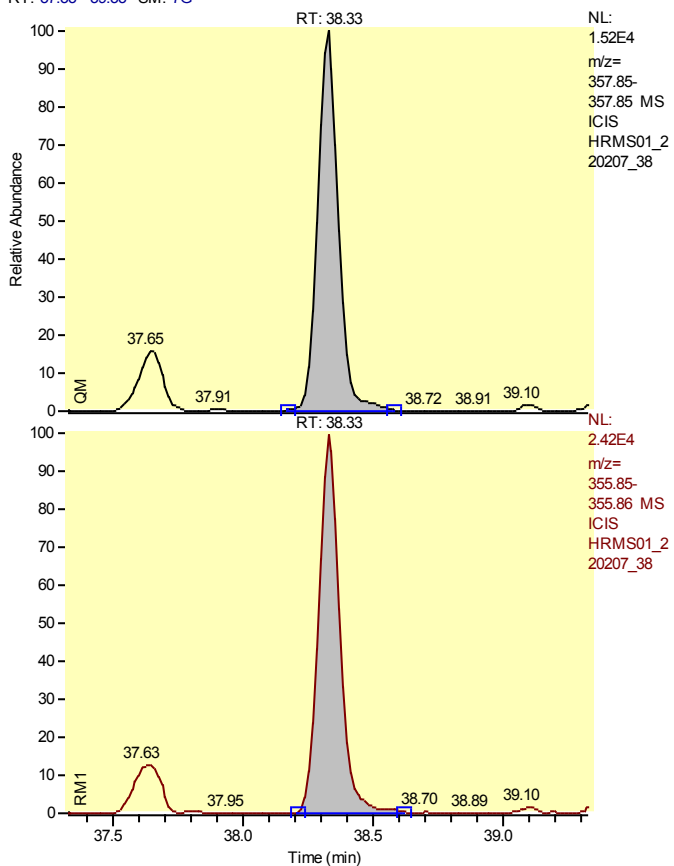
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

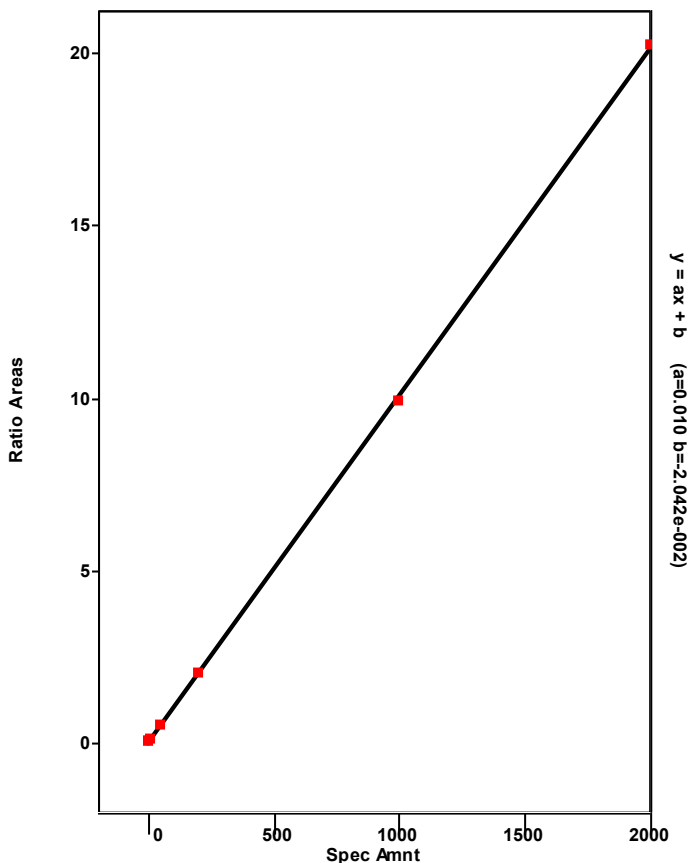
RT: 37.33 - 39.33 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	84598
RM1 Area	137819
RM1 Ratio (A)	1.6291
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	24.13
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

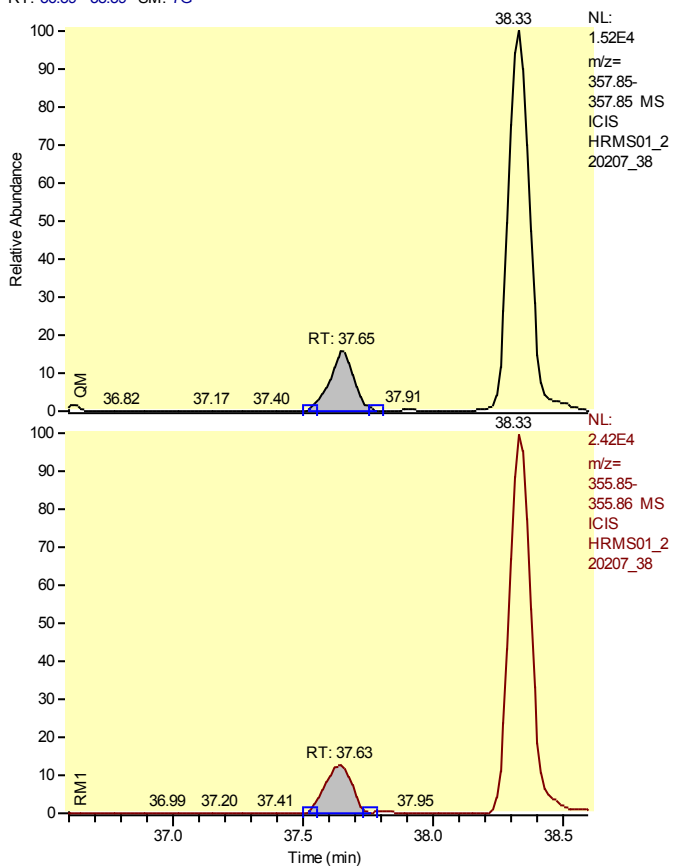
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

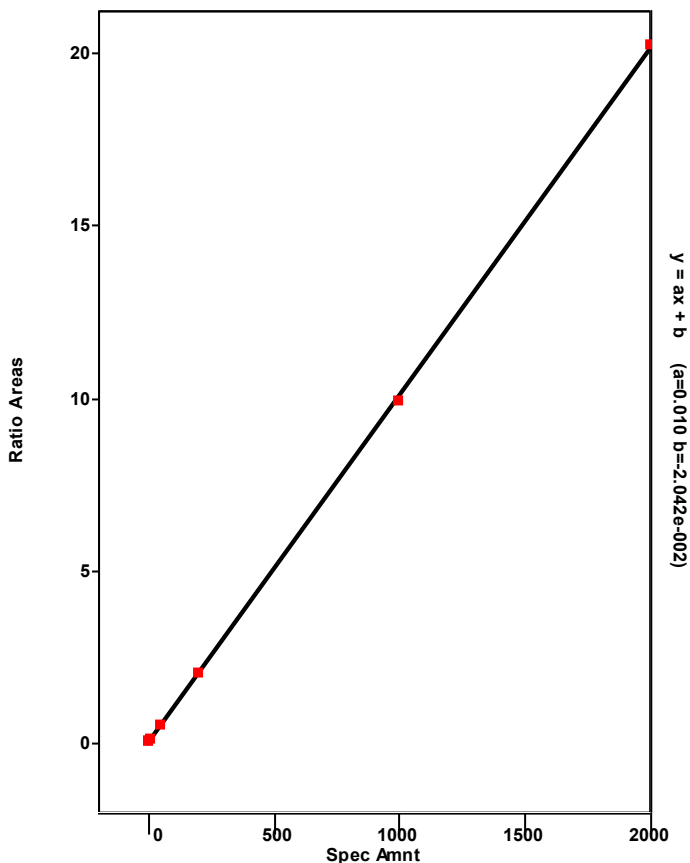
RT: 36.59 - 38.59 SM: 7G



Entry Identifier	Total Pentachlorodibenzo-p-dioxin__2
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	15646
RM1 Area	21842
RM1 Ratio (A)	1.3960
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	4.07
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin__2

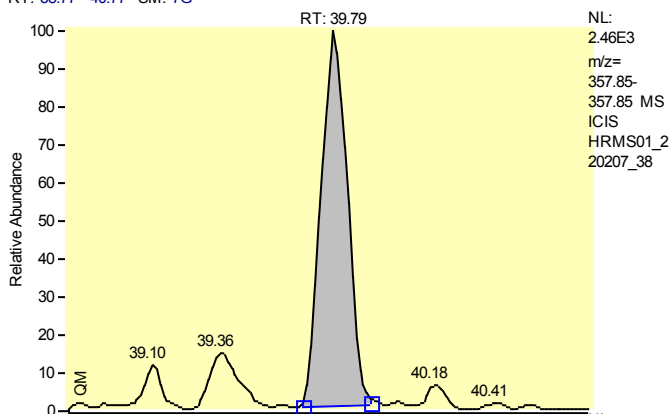
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



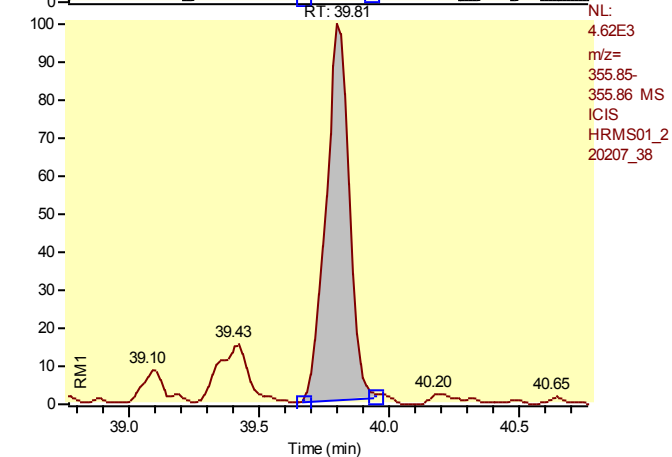
Chromatogram

Entry Parameters

RT: 38.77 - 40.77 SM: 7G

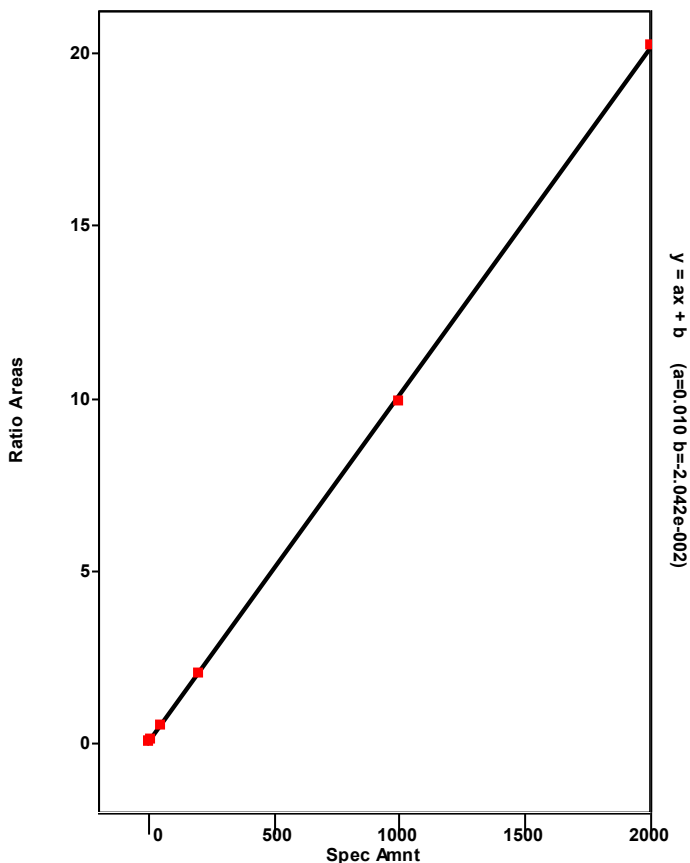


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__3
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	17006
RM1 Area	28190
RM1 Ratio (A)	1.6577
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	4.90
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Pentachlorodibenzo-p-dioxin__3

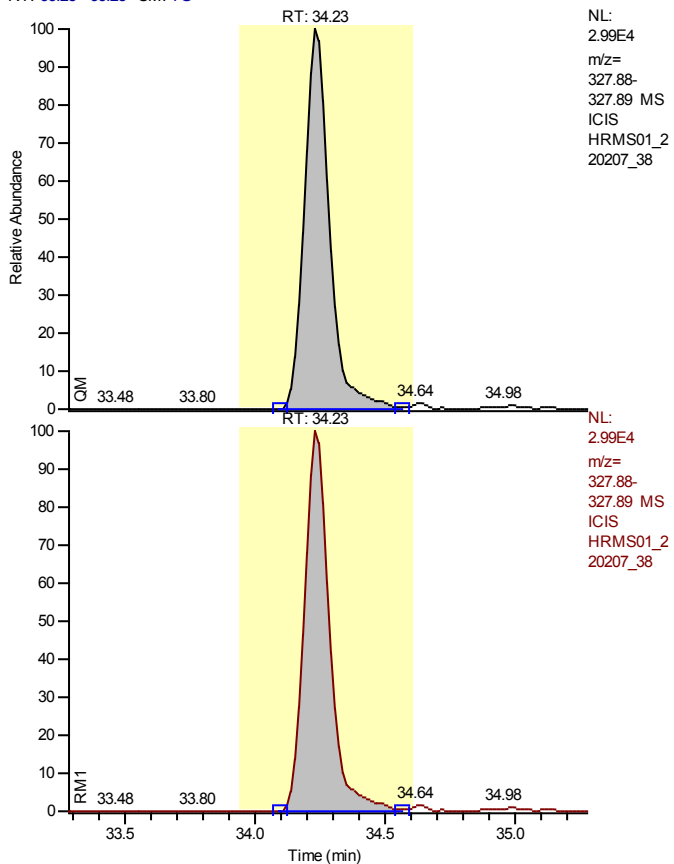
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

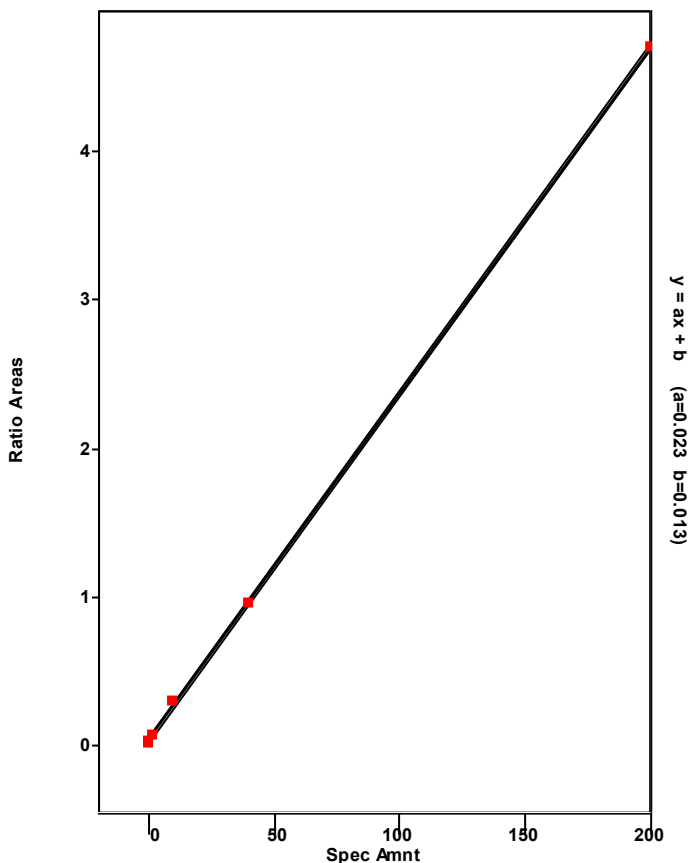
RT: 33.28 - 35.28 SM: 7G



Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	199806
RM1 Area	199806
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.83
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

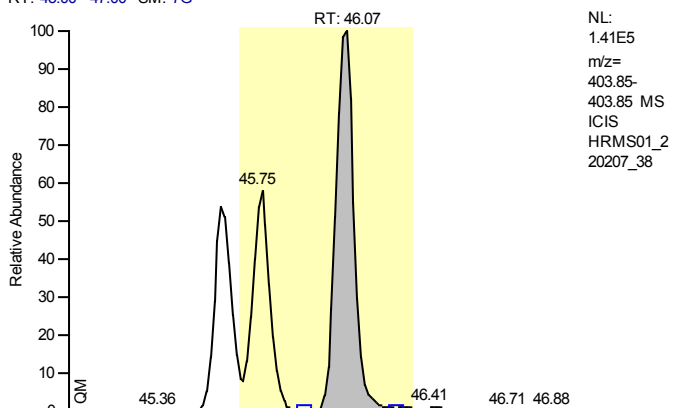
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

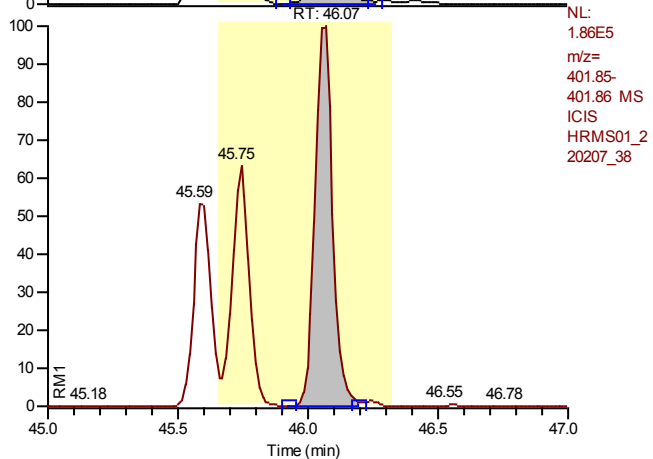
Entry Parameters

RT: 45.00 - 47.00 SM: 7G



NL:
 1.41E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_38

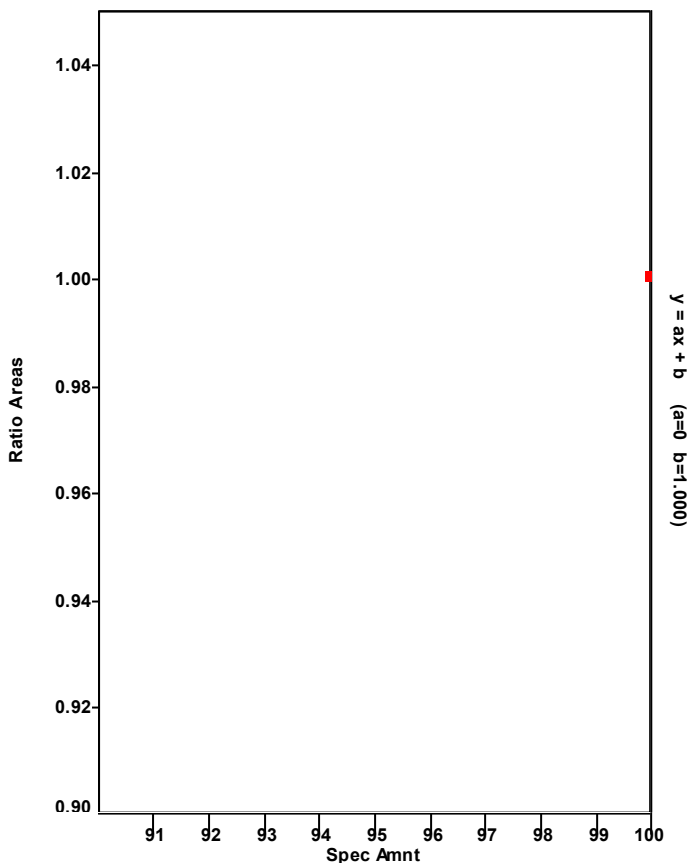
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	
Compound Name	123789-HxCDD 13C12 STD	
Label1		
QM Area	684132	
RM1 Area	880744	
RM1 Ratio (A)	1.2874	
Ratio1 Limit	1.0500 -	1.4300
Specified Amount	100.00	
Calculated Amount (A)	100.00	
Percent Recovery (A)	100	
TEQ (A)	0.0000	
Label2		



NL:
 1.86E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

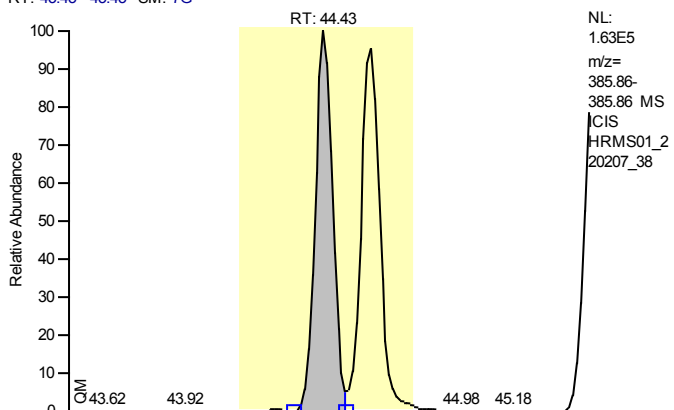
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



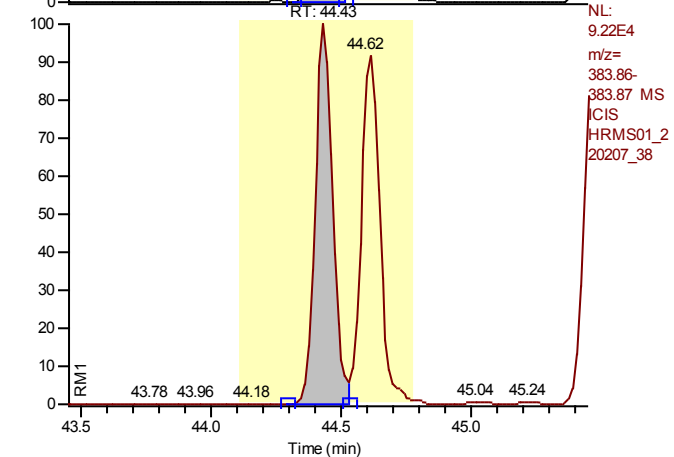
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

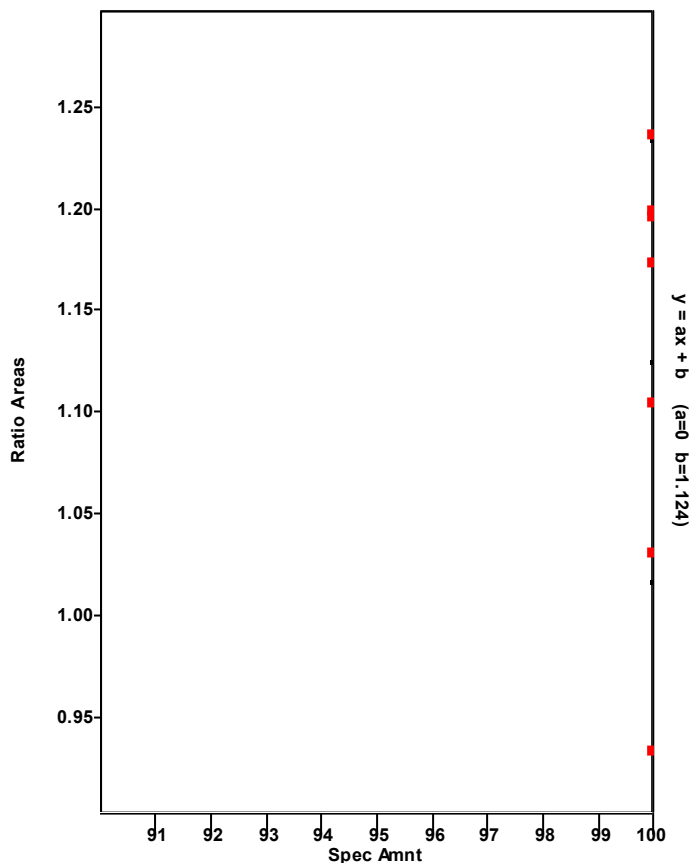


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	759559
RM1 Area	431379
RM1 Ratio (A)	0.5679
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	67.74
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

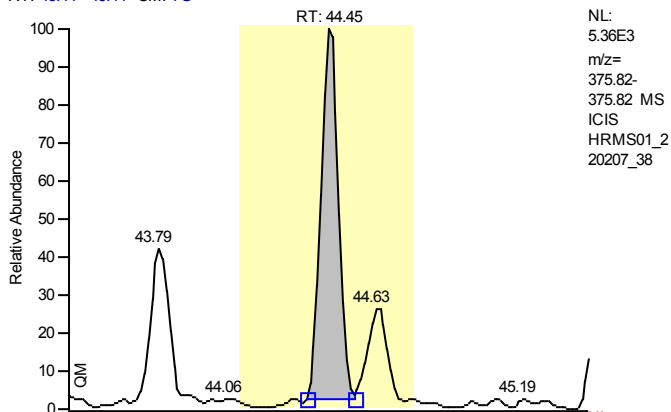
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

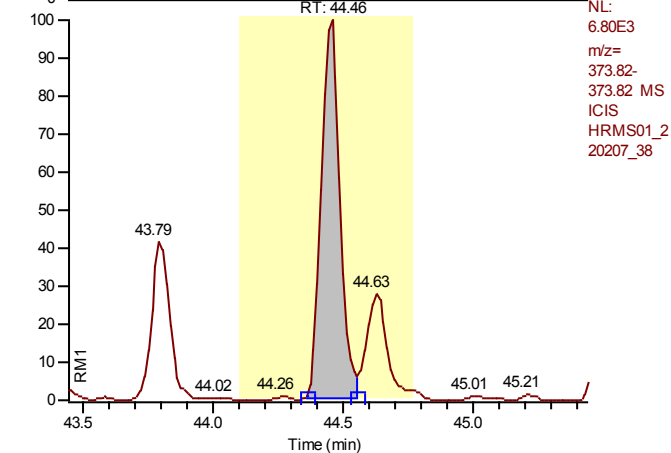
Entry Parameters

RT: 43.44 - 45.44 SM: 7G



NL:
 5.36E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_38

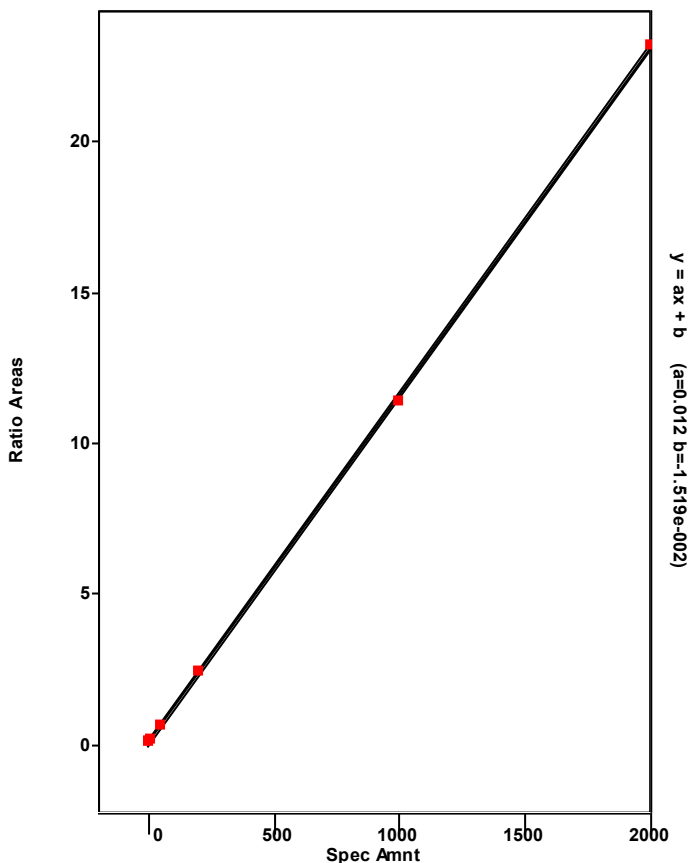
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	24568
RM1 Area	33999
RM1 Ratio (A)	1.3839
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.27
Percent Recovery (A)	---
TEQ (A)	0.4267
Label2	



NL:
 6.80E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

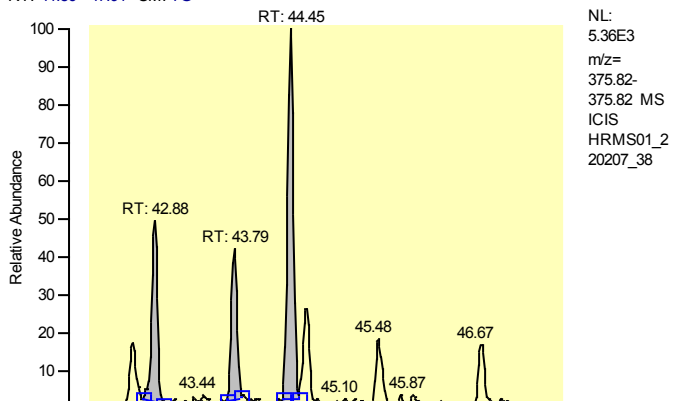
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

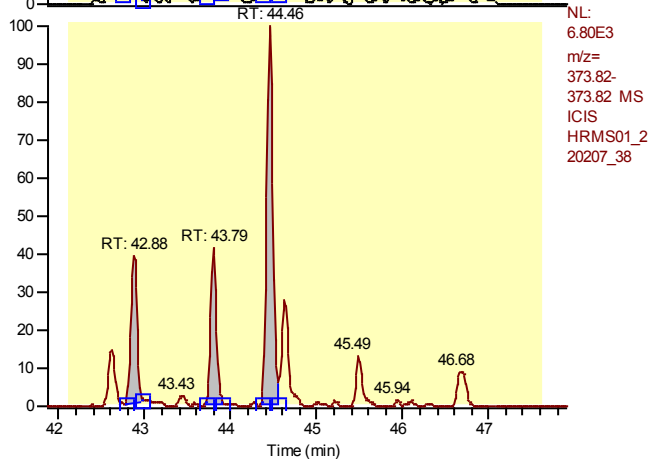
Entry Parameters

RT: 41.86 - 47.91 SM: 7G



NL:
 5.36E3
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_38

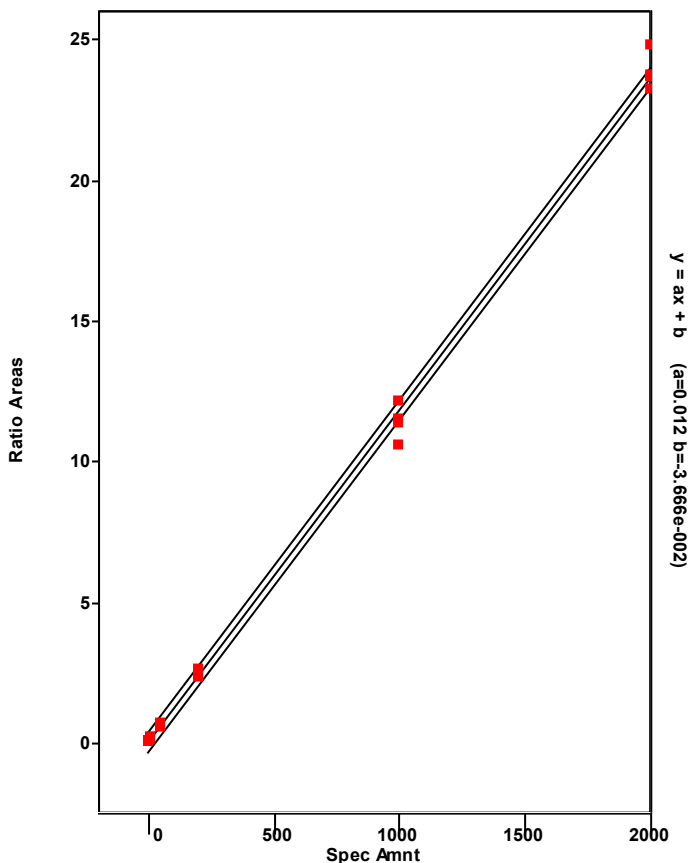
Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	46510
RM1 Area	60407
RM1 Ratio (A)	1.2988
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	7.51
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 6.80E3
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of Total Hexachlorodibenzofuran

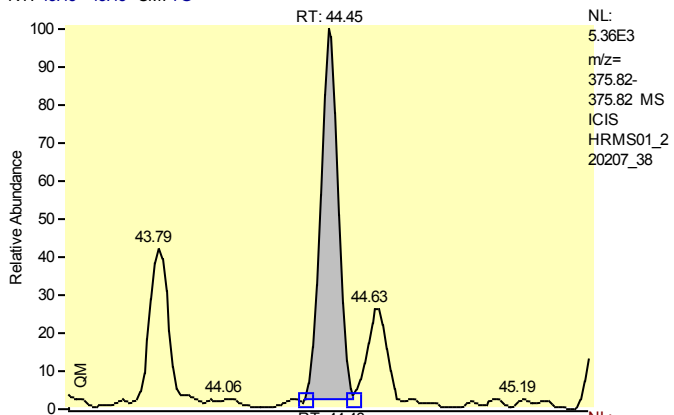
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



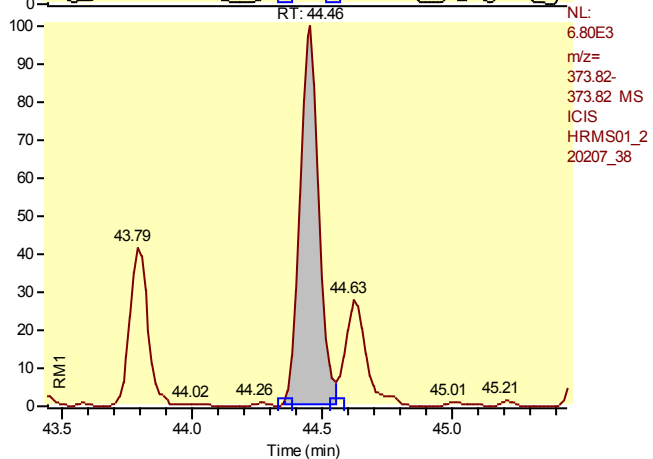
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G

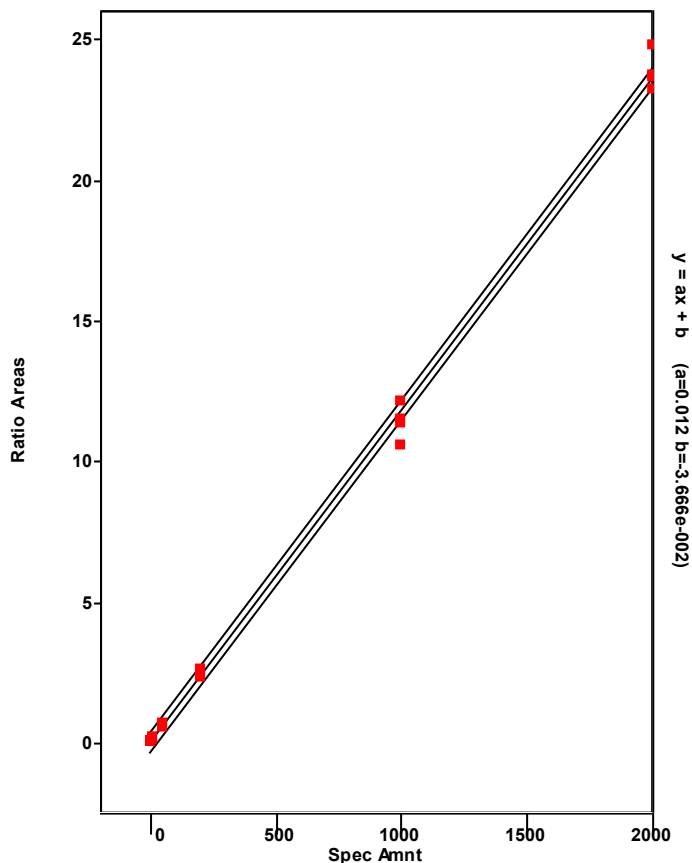


Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	24568
RM1 Area	33999
RM1 Ratio (A)	1.3839
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	4.11
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__1

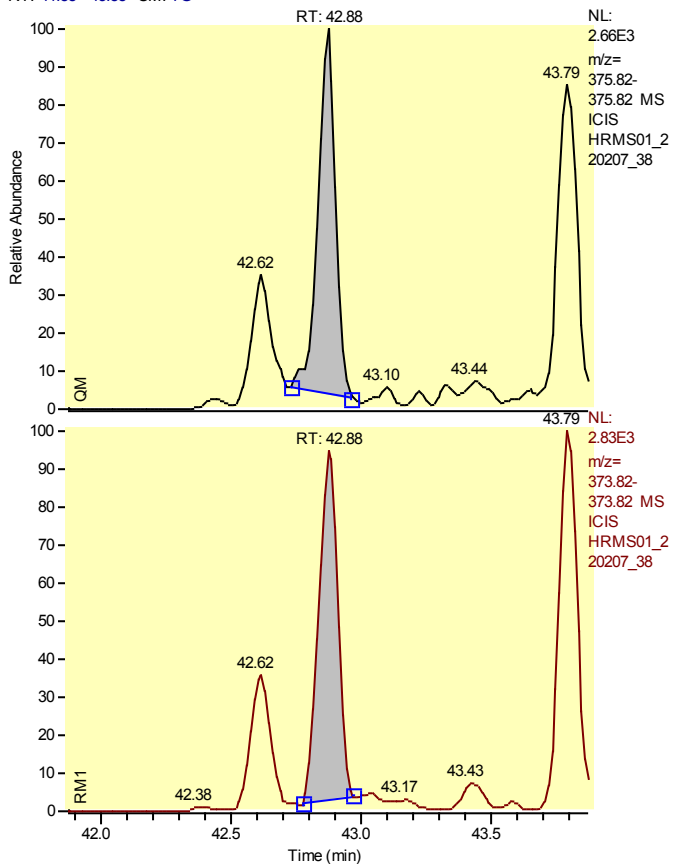
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

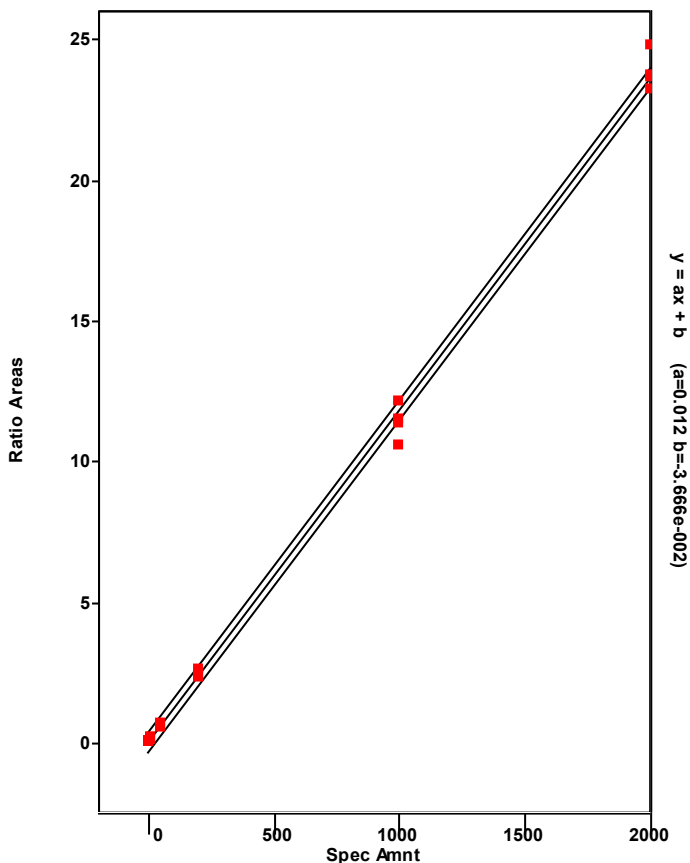
RT: 41.88 - 43.88 SM: 7G



Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	11947
RM1 Area	13225
RM1 Ratio (A)	1.1069
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.77
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzofuran__2

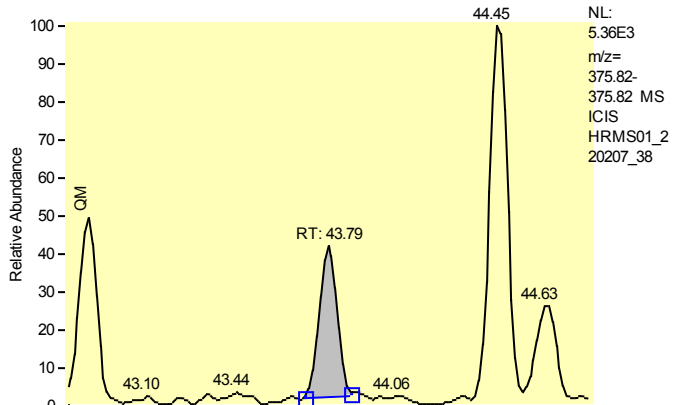
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



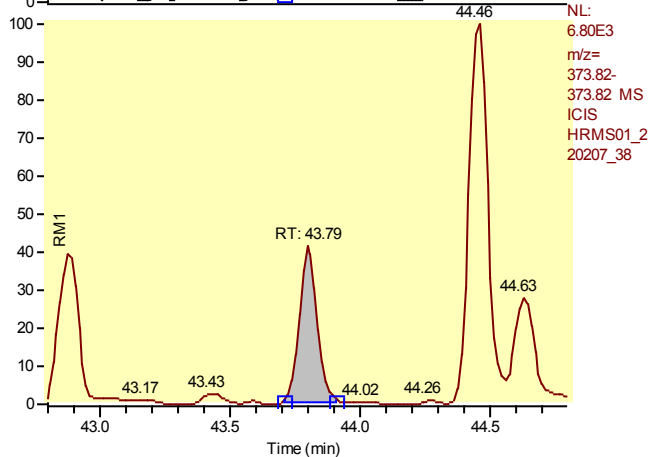
Chromatogram

Entry Parameters

RT: 42.79 - 44.79 SM: 7G

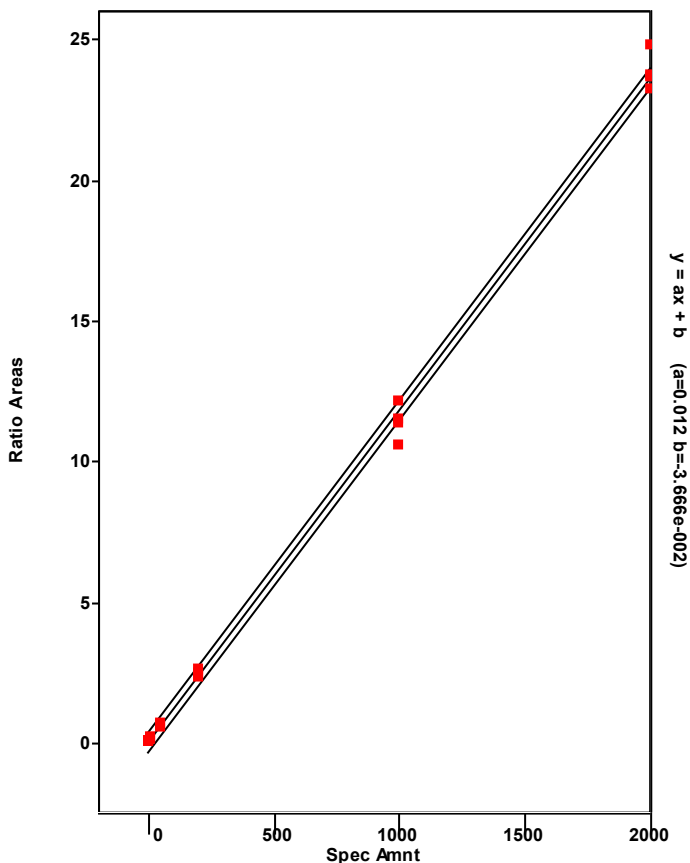


Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	9995
RM1 Area	13183
RM1 Ratio (A)	1.3190
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.63
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Hexachlorodibenzofuran__3

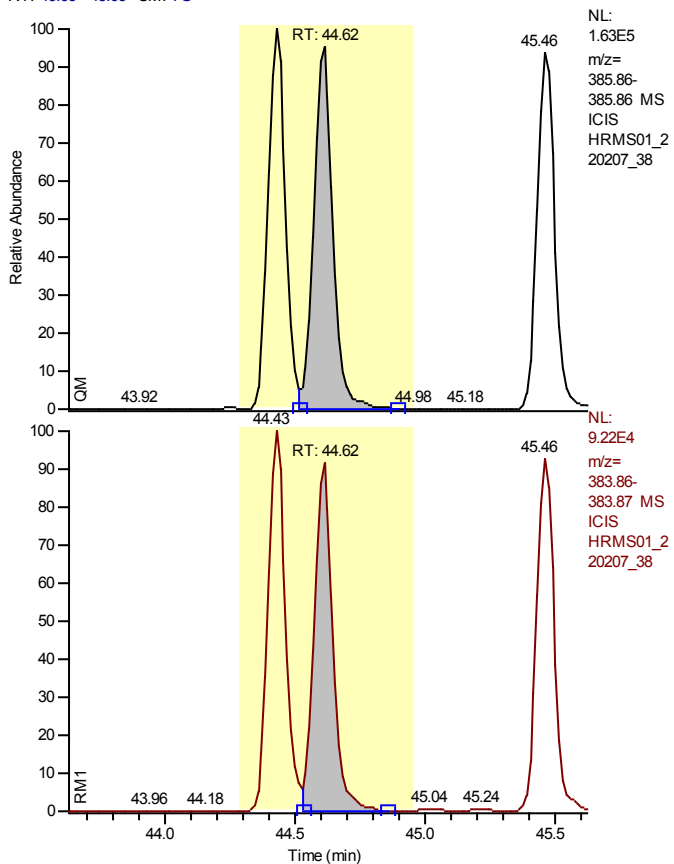
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

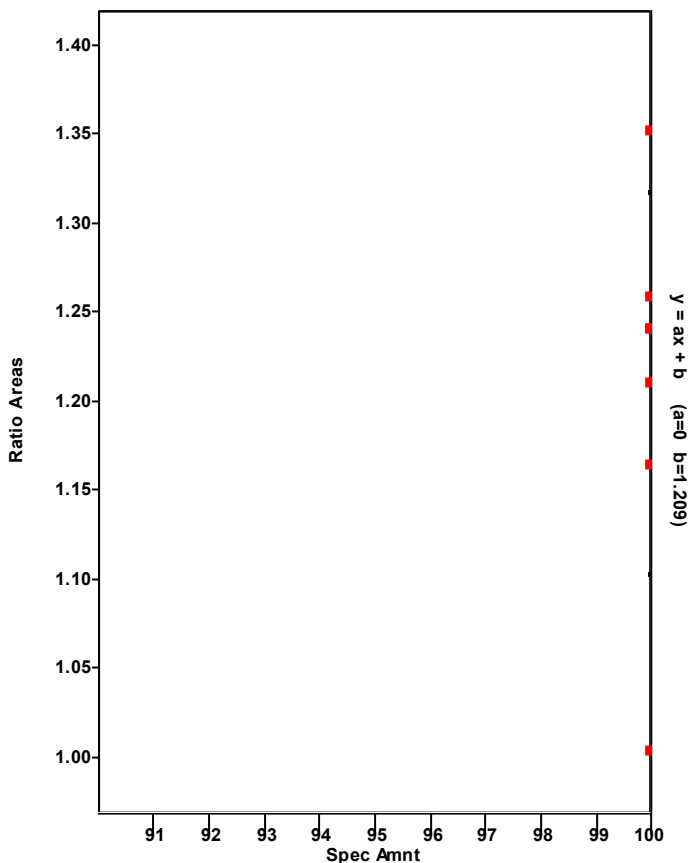
RT: 43.63 - 45.63 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	794660
RM1 Area	422636
RM1 Ratio (A)	0.5318
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	64.37
Percent Recovery (A)	64
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

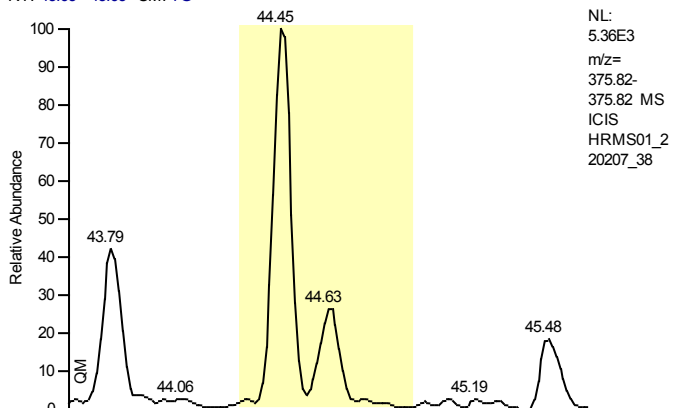
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



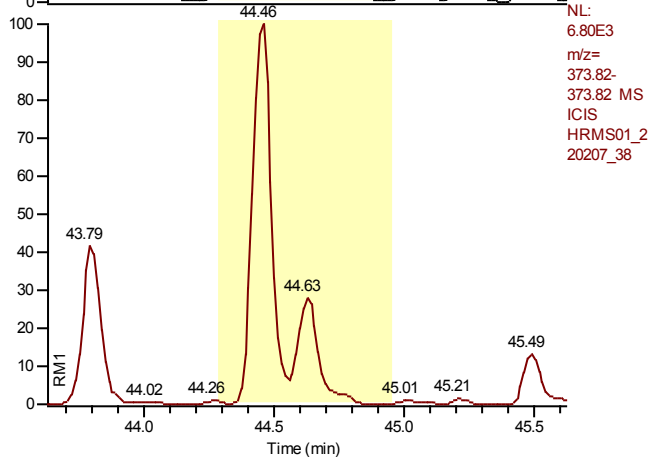
Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

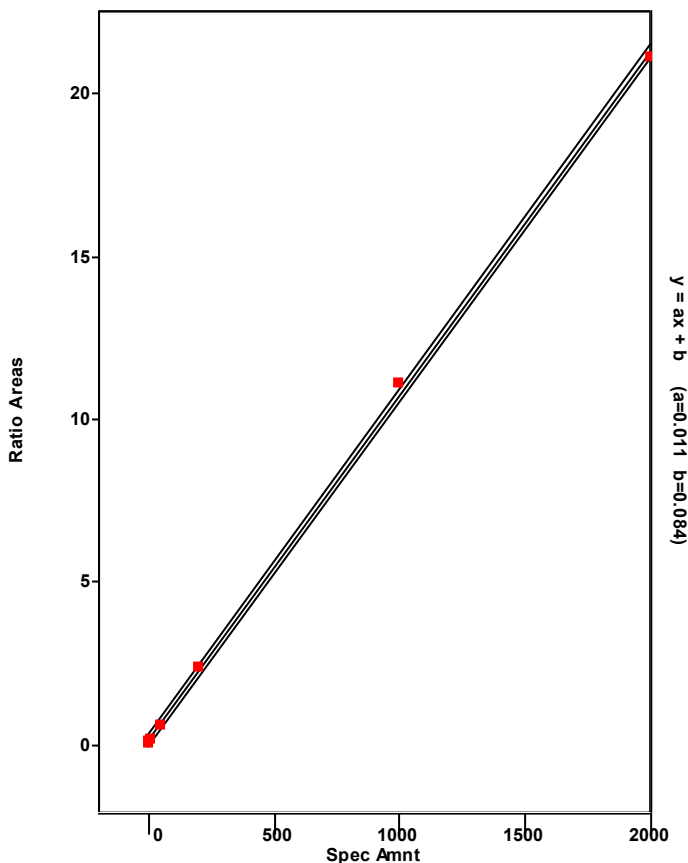


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

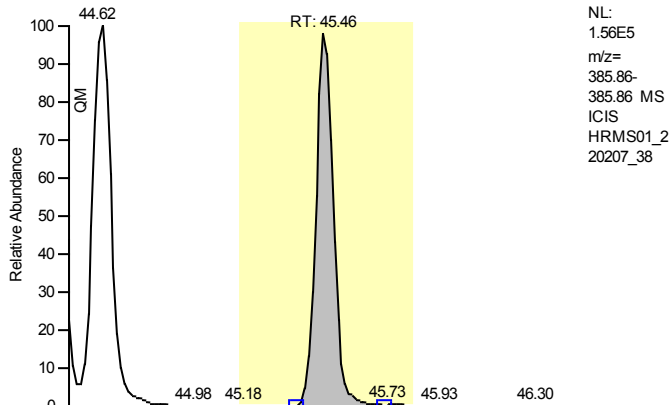
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

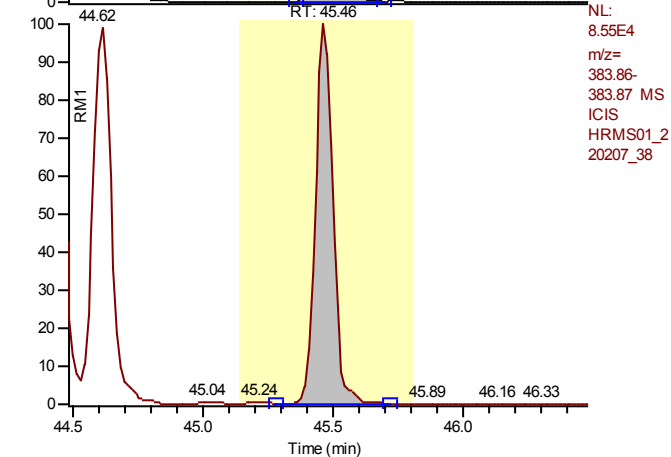
Entry Parameters

RT: 44.48 - 46.48 SM: 7G



NL:
 1.56E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_38

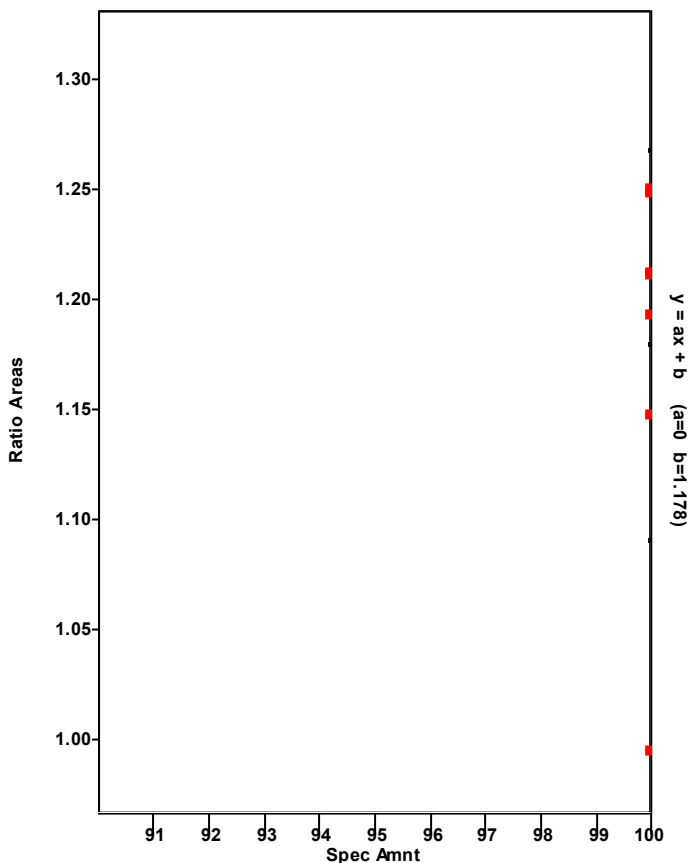
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	723453
RM1 Area	405105
RM1 Ratio (A)	0.5600
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	61.23
Percent Recovery (A)	61
TEQ (A)	0.0000
Label2	



NL:
 8.55E4
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

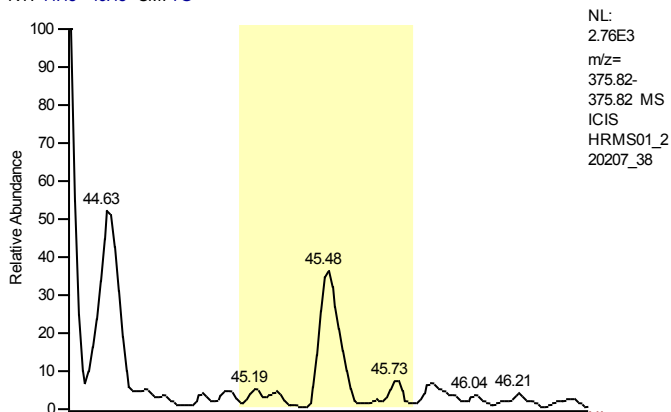
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



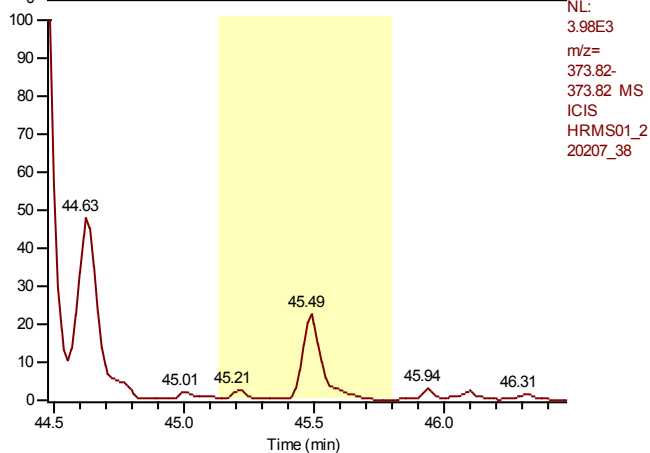
Chromatogram

Entry Parameters

RT: 44.48 - 46.48 SM: 7G

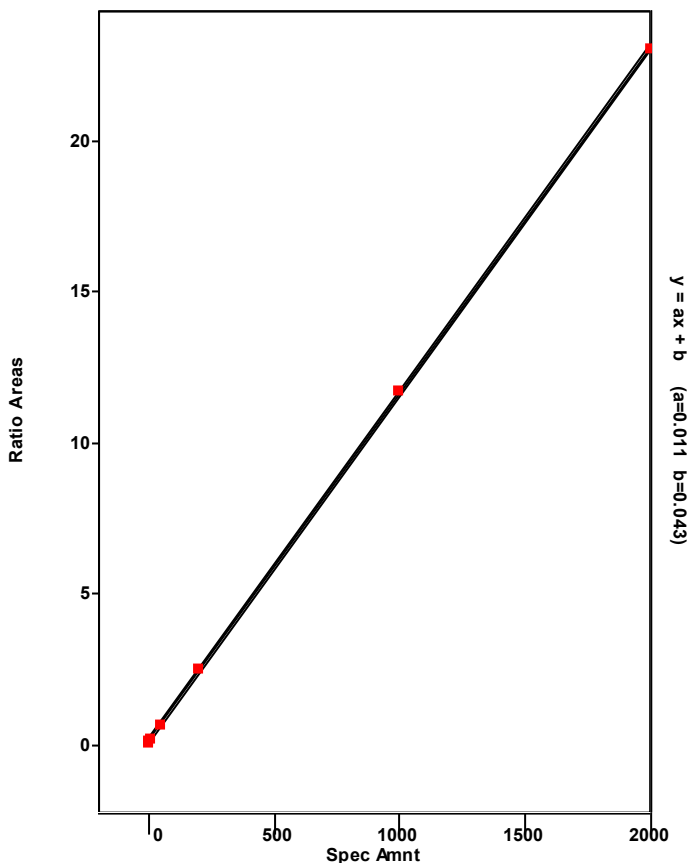


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

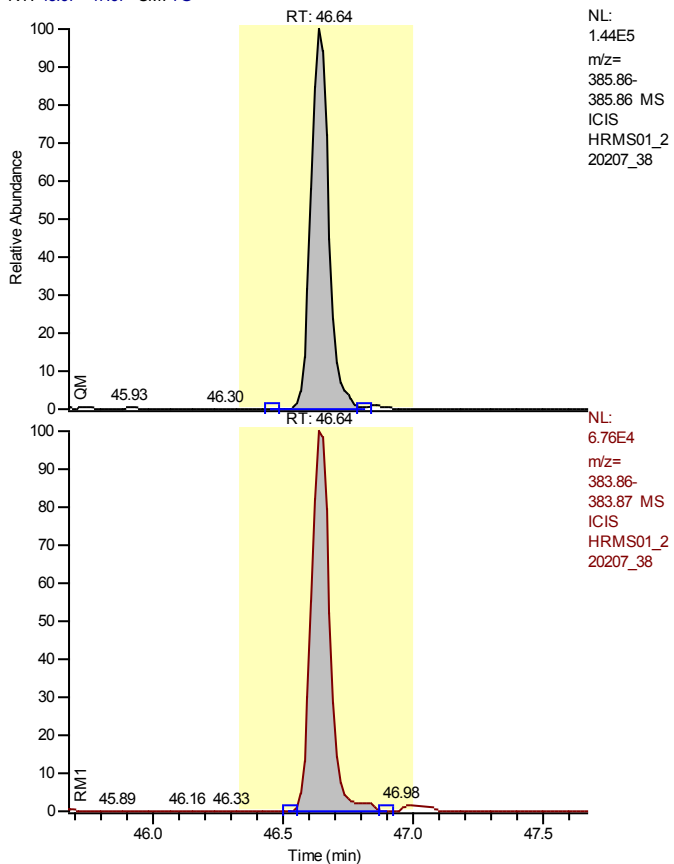
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

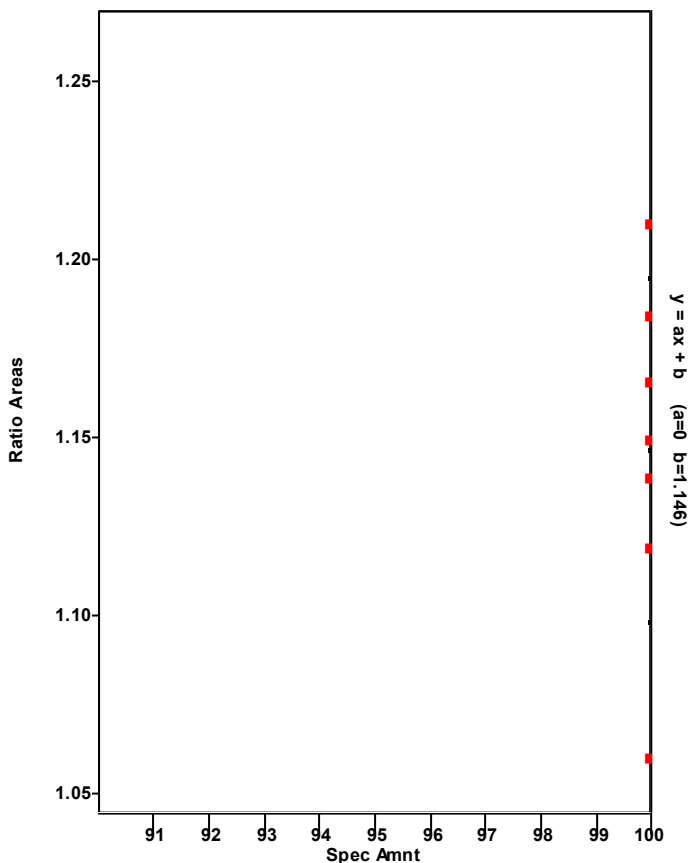
RT: 45.67 - 47.67 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	692940
RM1 Area	339639
RM1 Ratio (A)	0.4901
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	57.59
Percent Recovery (A)	58
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

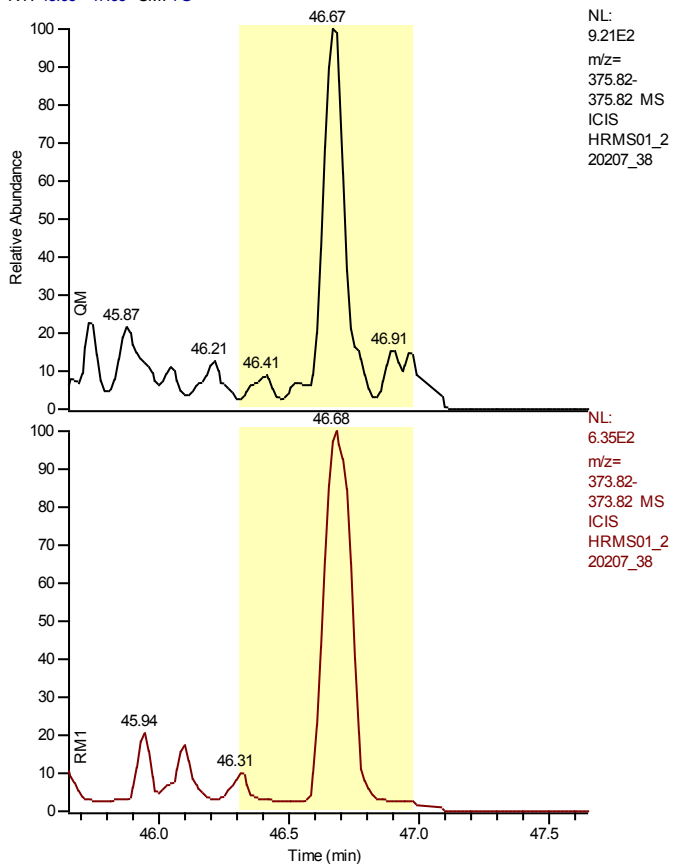
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G



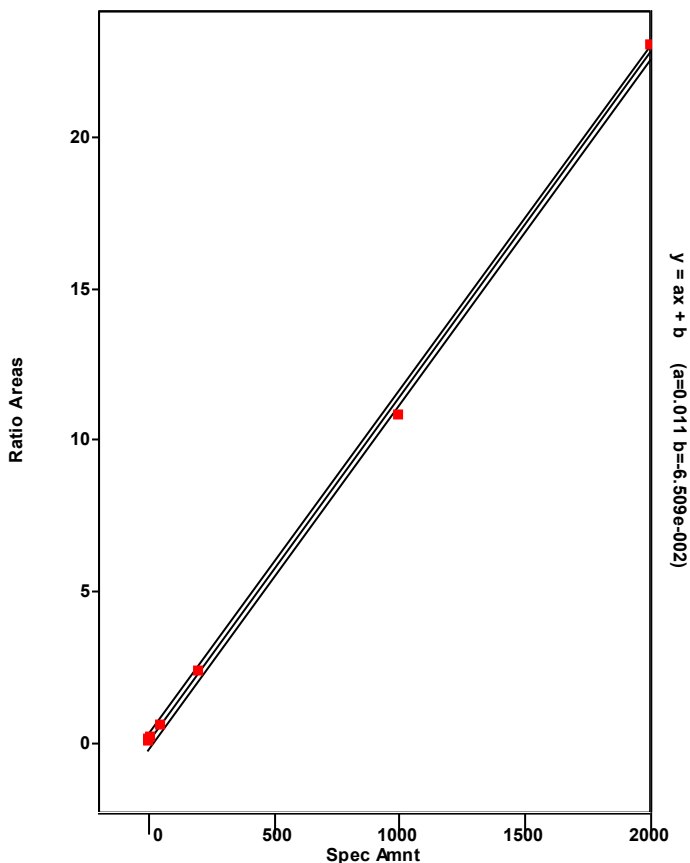
NL:
 9.21E2
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 6.35E2
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

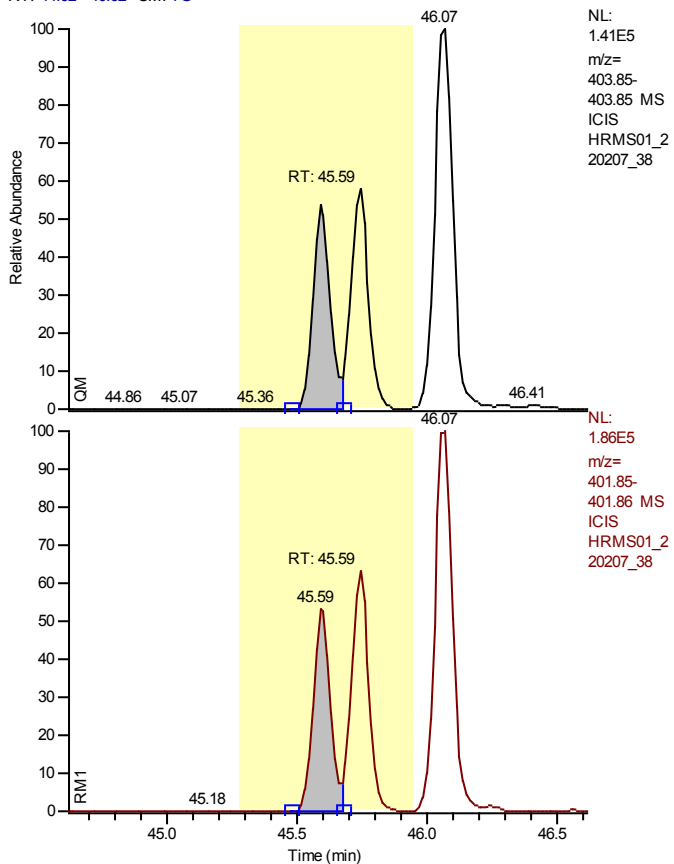
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G



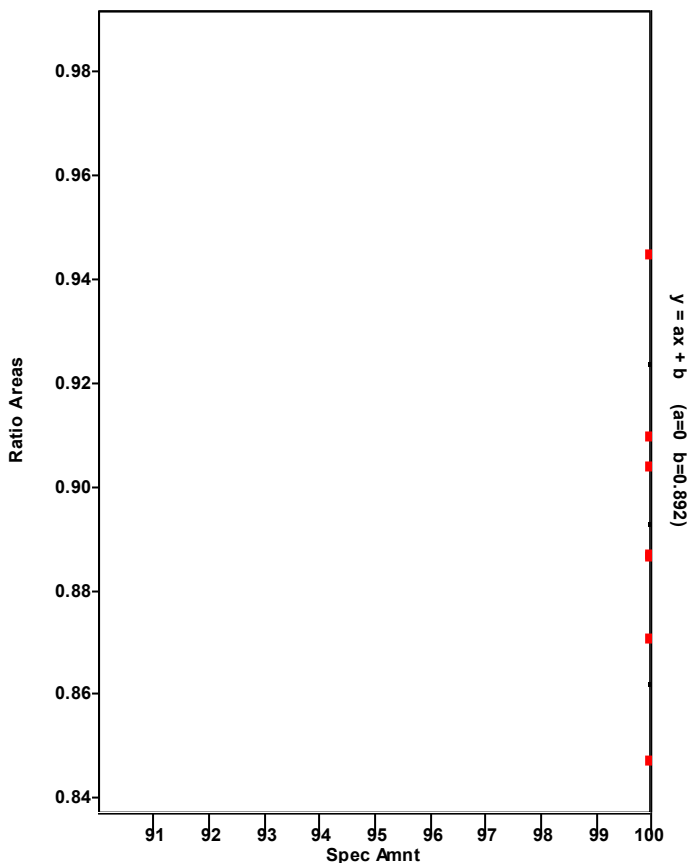
NL:
 1.41E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	348963
RM1 Area	461490
RM1 Ratio (A)	1.3225
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	58.04
Percent Recovery (A)	58
TEQ (A)	0.0000
Label2	

NL:
 1.86E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

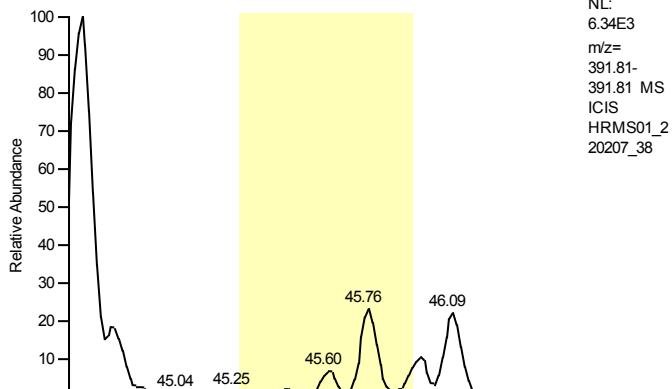
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



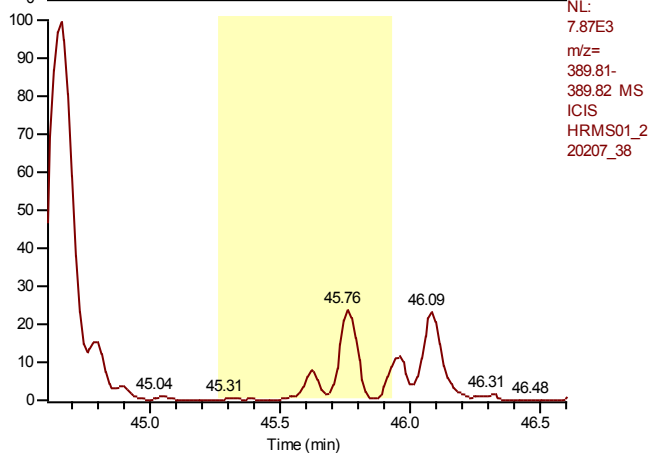
Chromatogram

Entry Parameters

RT: 44.60 - 46.60 SM: 7G

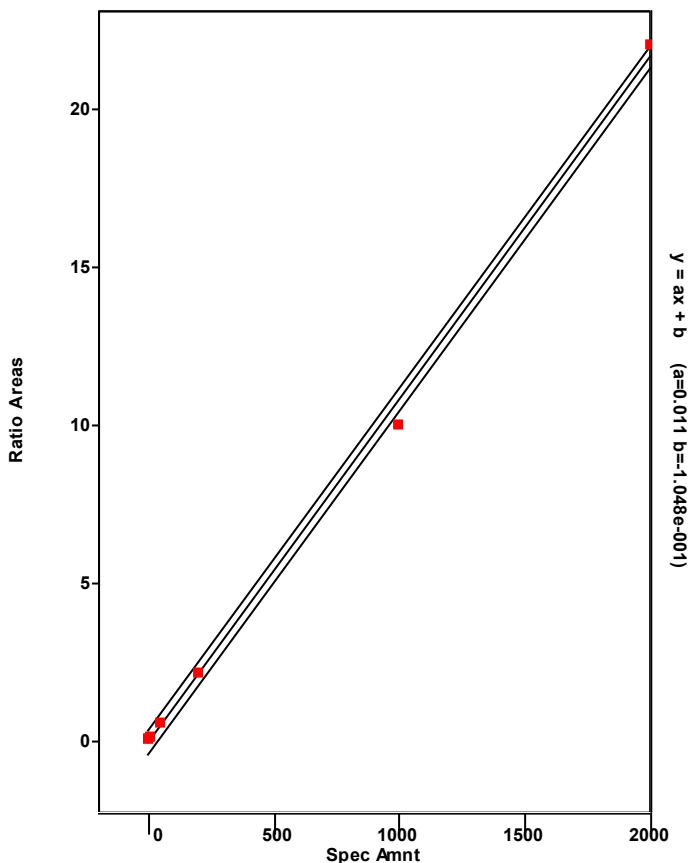


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



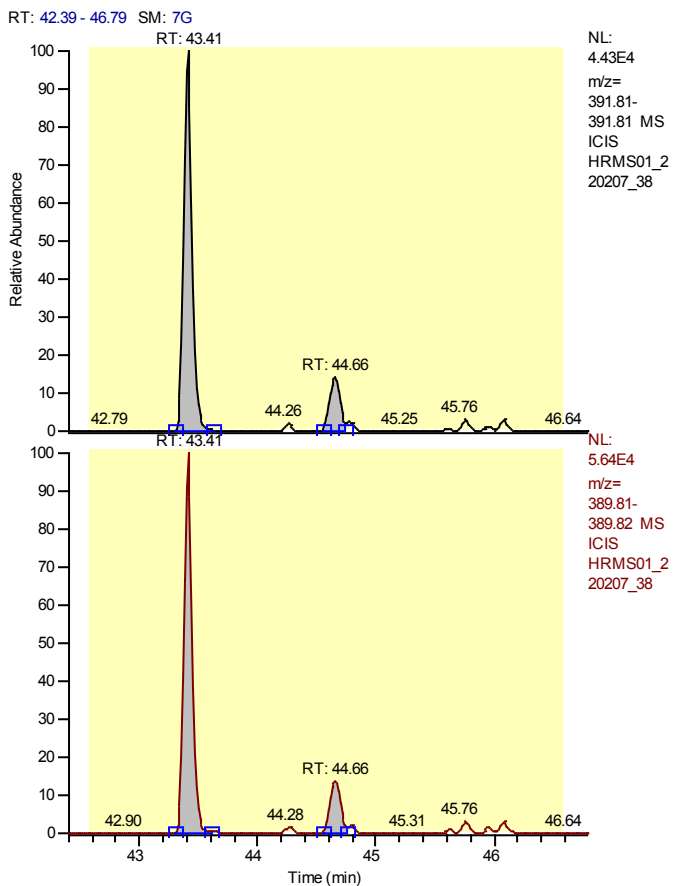
Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

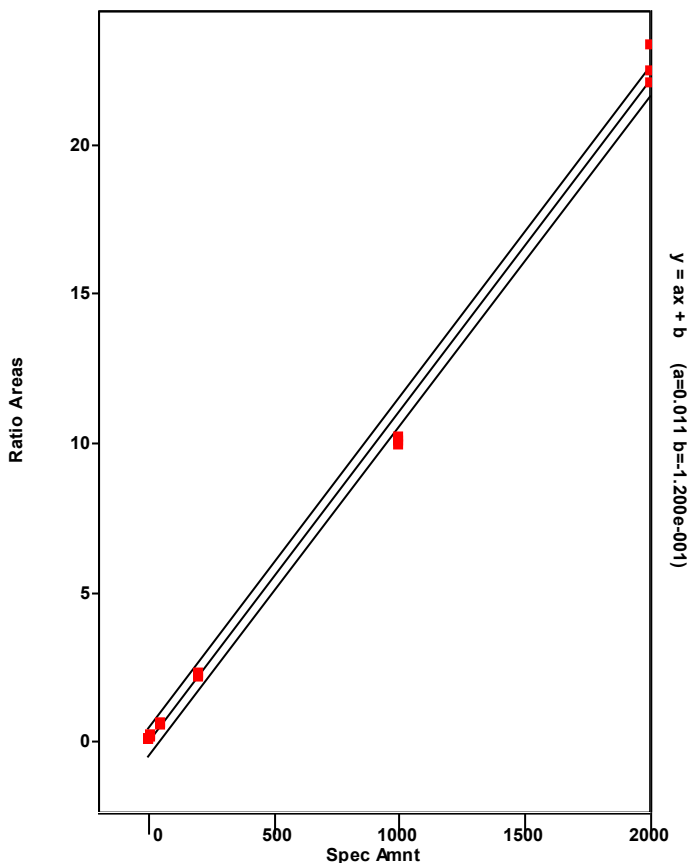
Entry Parameters



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	257453
RM1 Area	321110
RM1 Ratio (A)	1.2473
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	65.57
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin

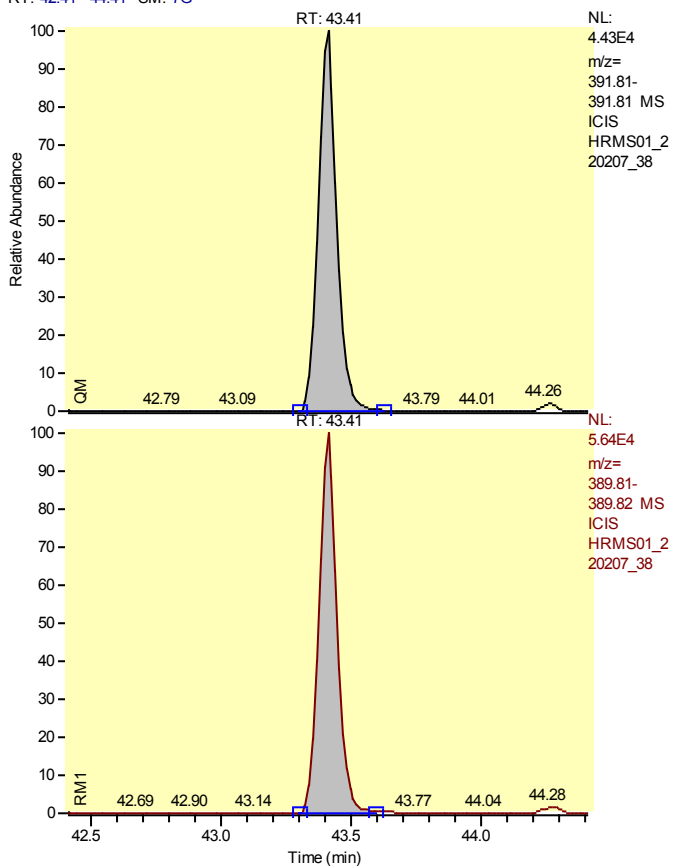
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

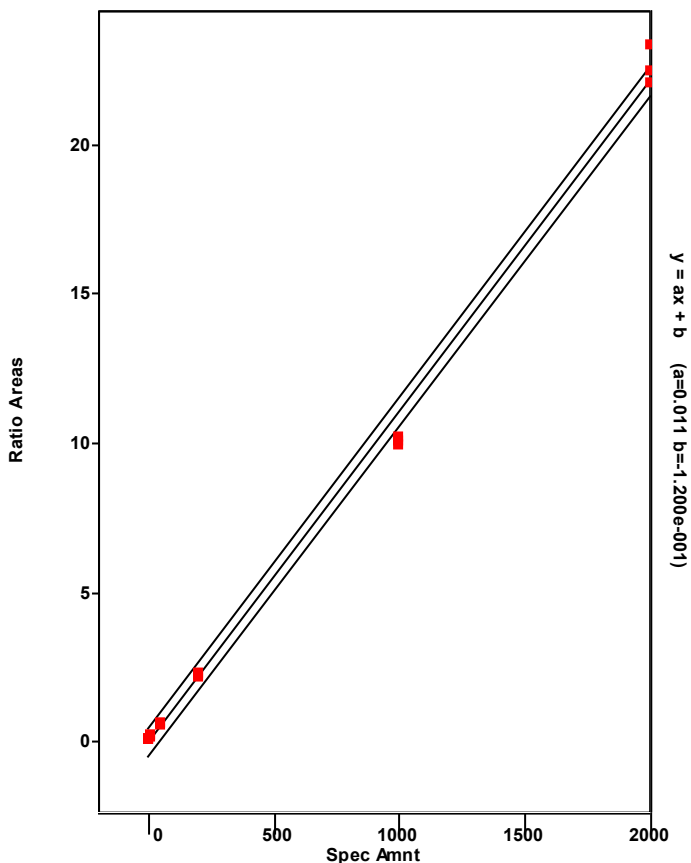
RT: 42.41 - 44.41 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	217678
RM1 Area	271339
RM1 Ratio (A)	1.2465
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	55.42
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

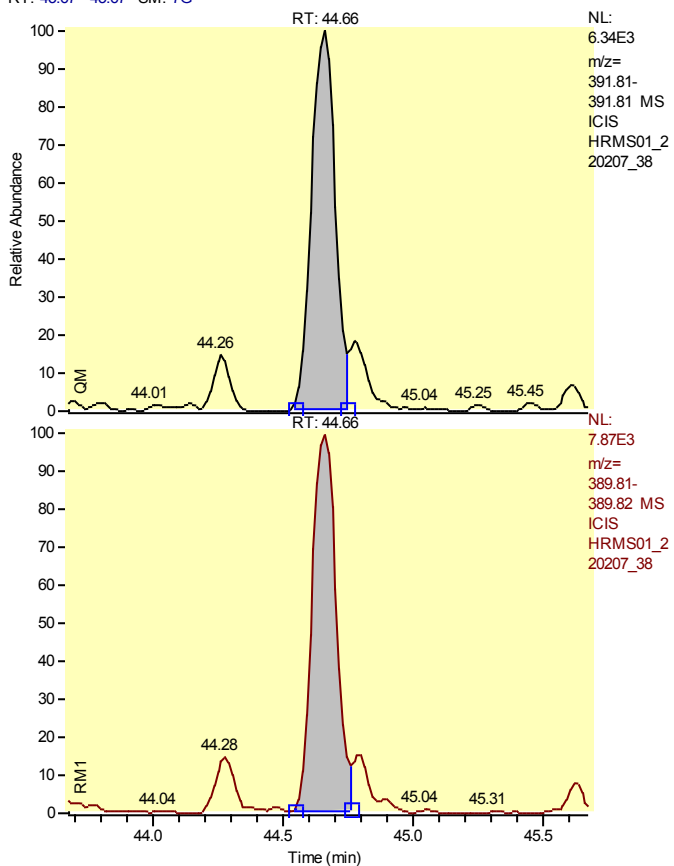
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

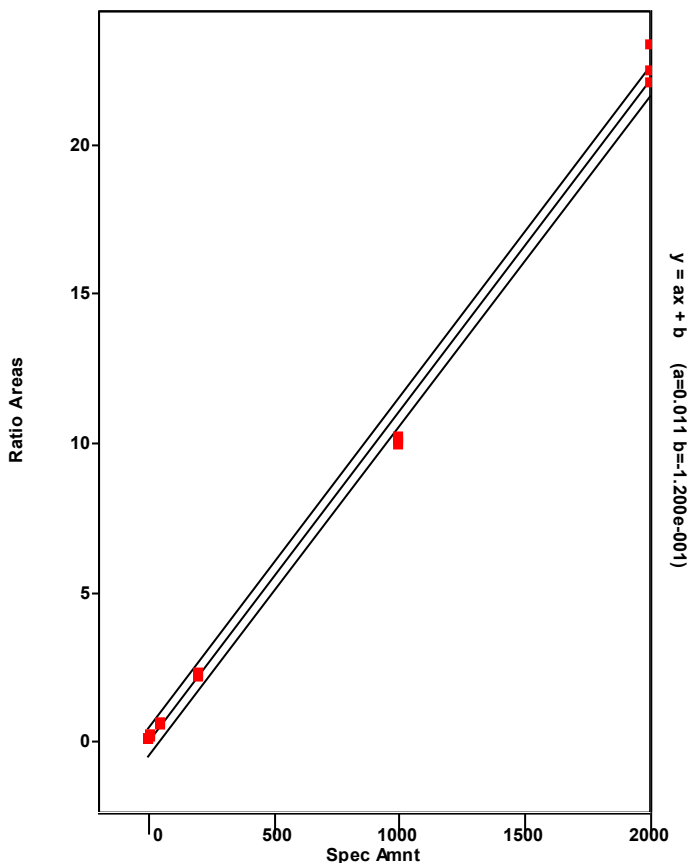
RT: 43.67 - 45.67 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	39775
RM1 Area	49771
RM1 Ratio (A)	1.2513
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	10.15
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

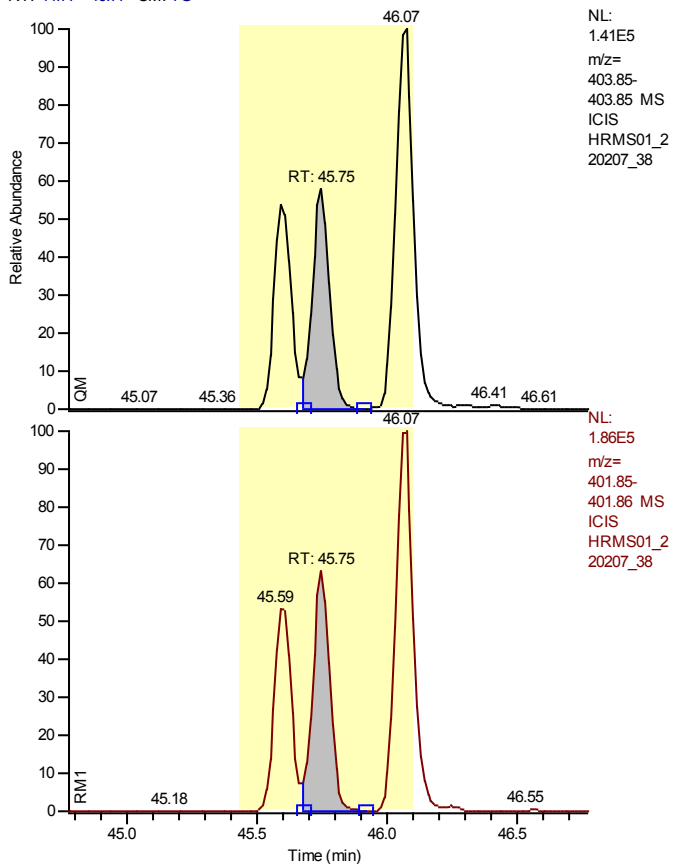
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.77 - 46.77 SM: 7G



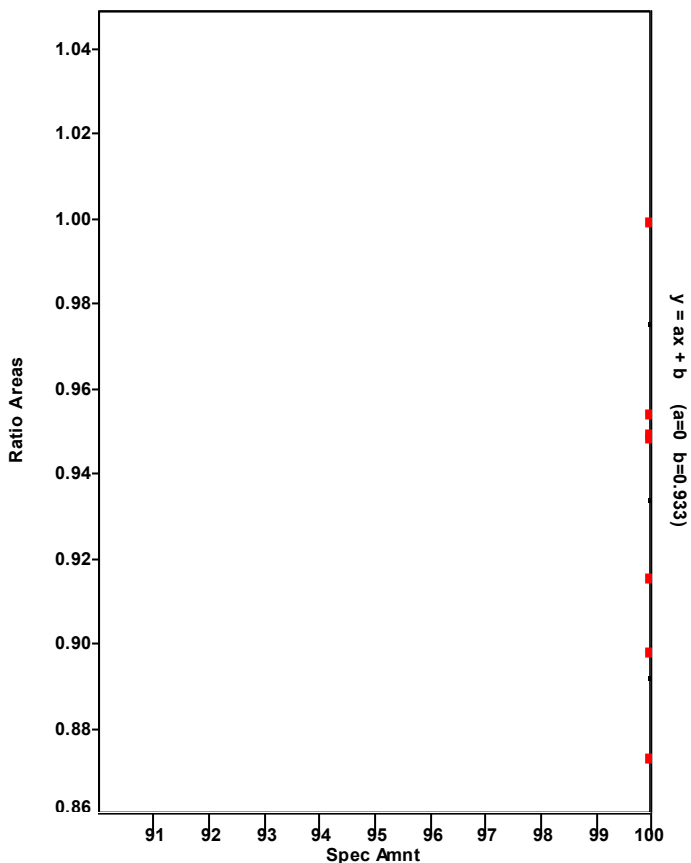
NL:
 1.41E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 1.86E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	377954
RM1 Area	536493
RM1 Ratio (A)	1.4195
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	62.61
Percent Recovery (A)	63
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

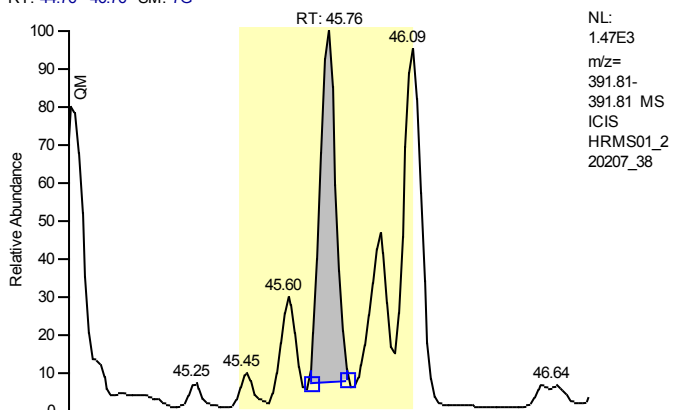
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



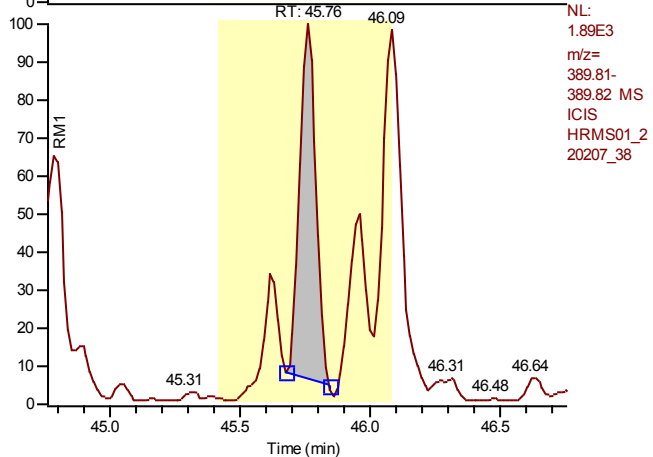
Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G

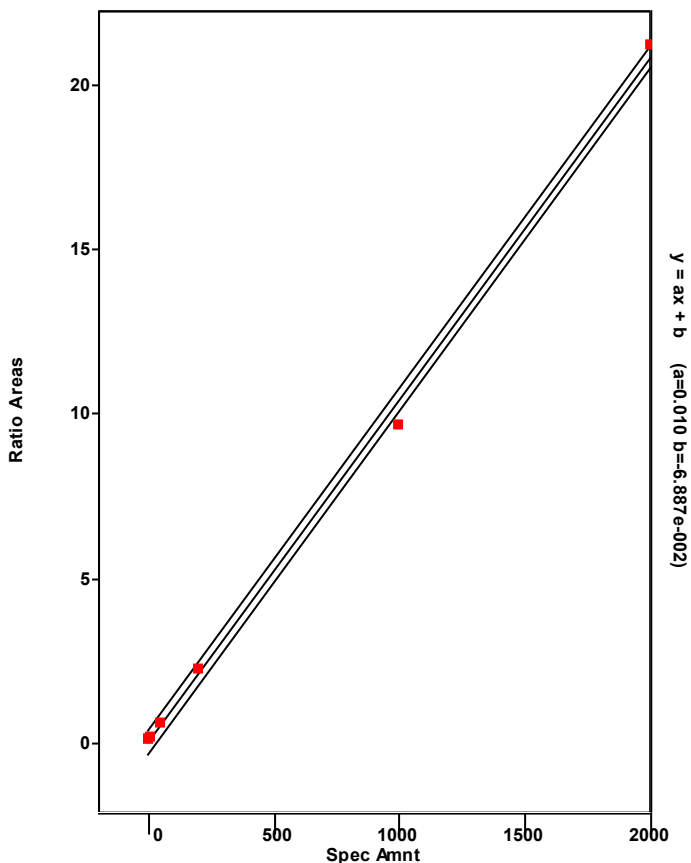


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	5683
RM1 Area	7729
RM1 Ratio (A)	1.3601
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.38
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

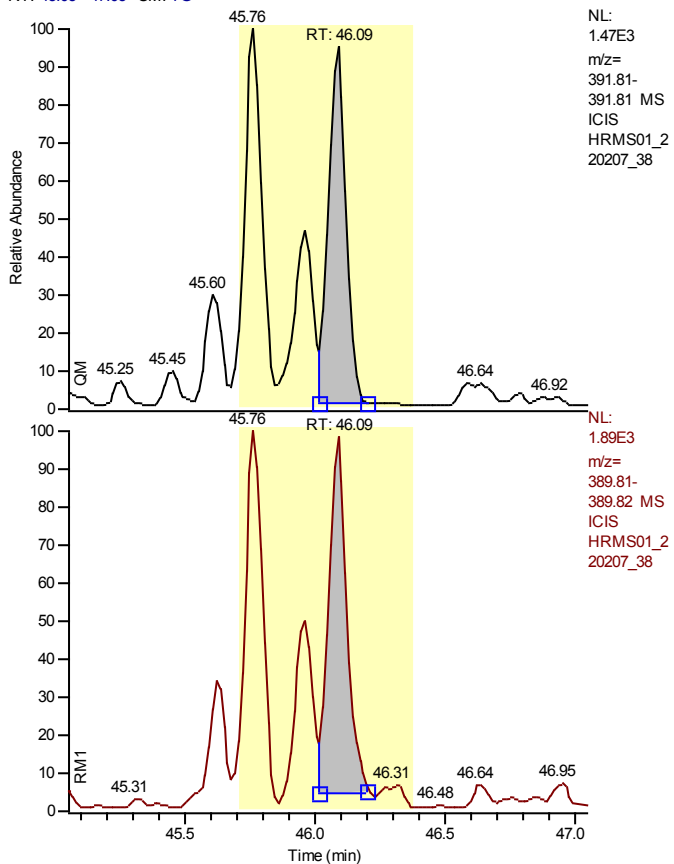
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

RT: 45.05 - 47.05 SM: 7G



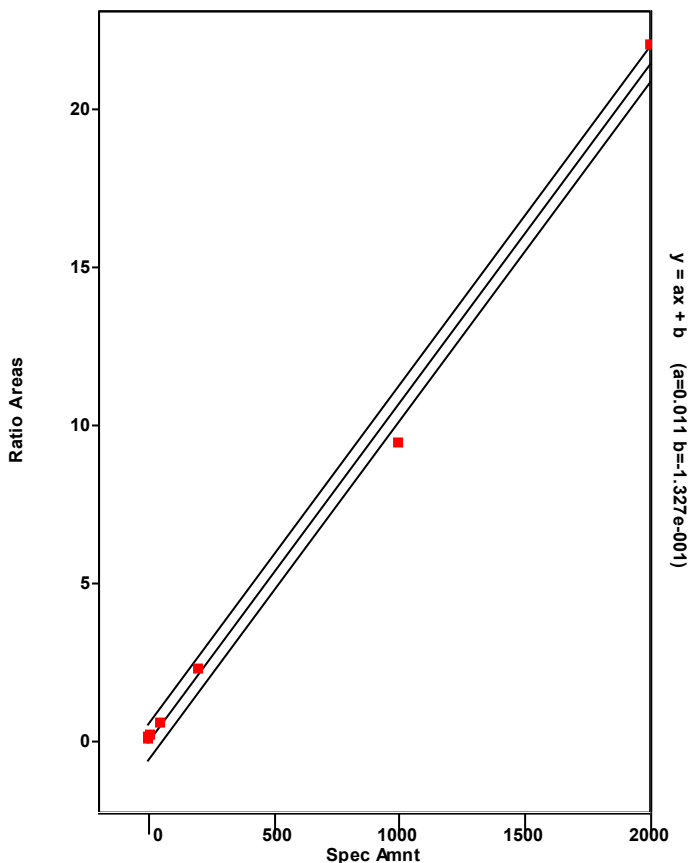
NL:
 1.47E3
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_38

NL:
 1.89E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_38

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	6463
RM1 Area	8597
RM1 Ratio (A)	1.3303
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	1.55
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

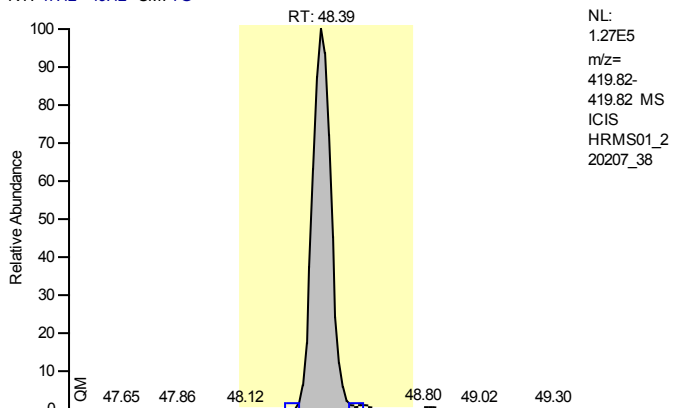
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



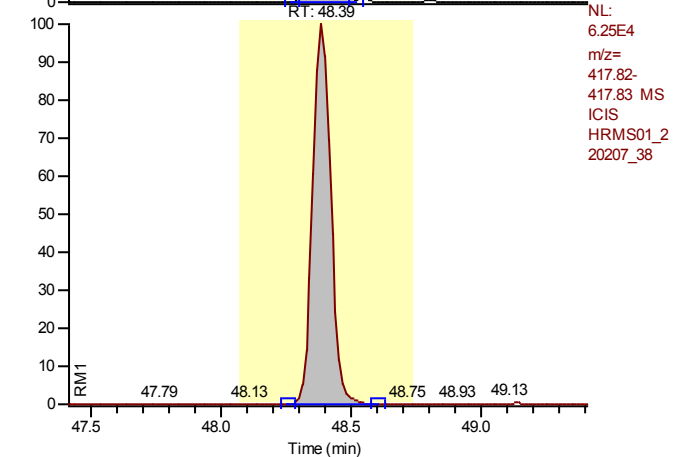
Chromatogram

Entry Parameters

RT: 47.42 - 49.42 SM: 7G

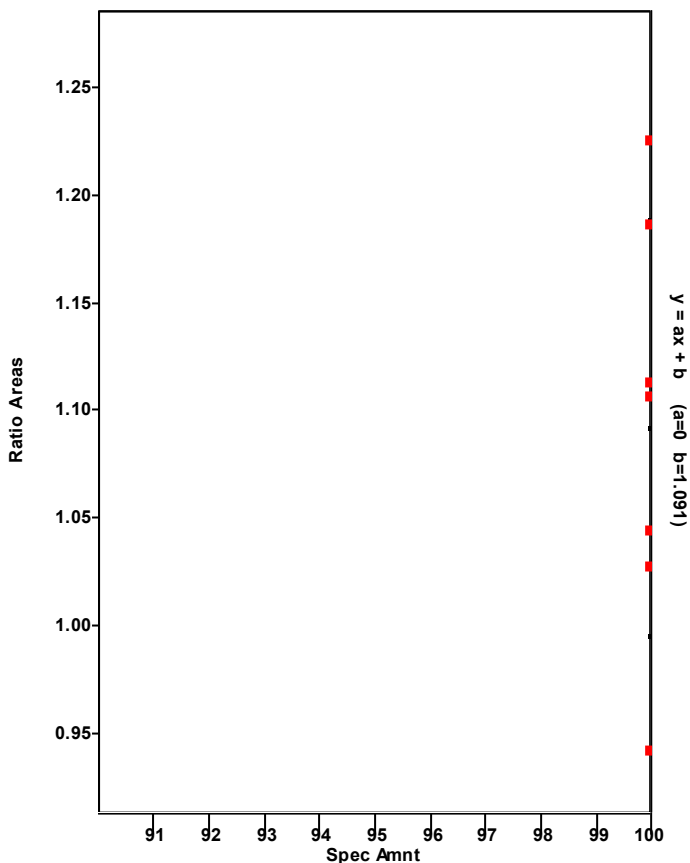


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	625612
RM1 Area	300156
RM1 Ratio (A)	0.4798
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	54.25
Percent Recovery (A)	54
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

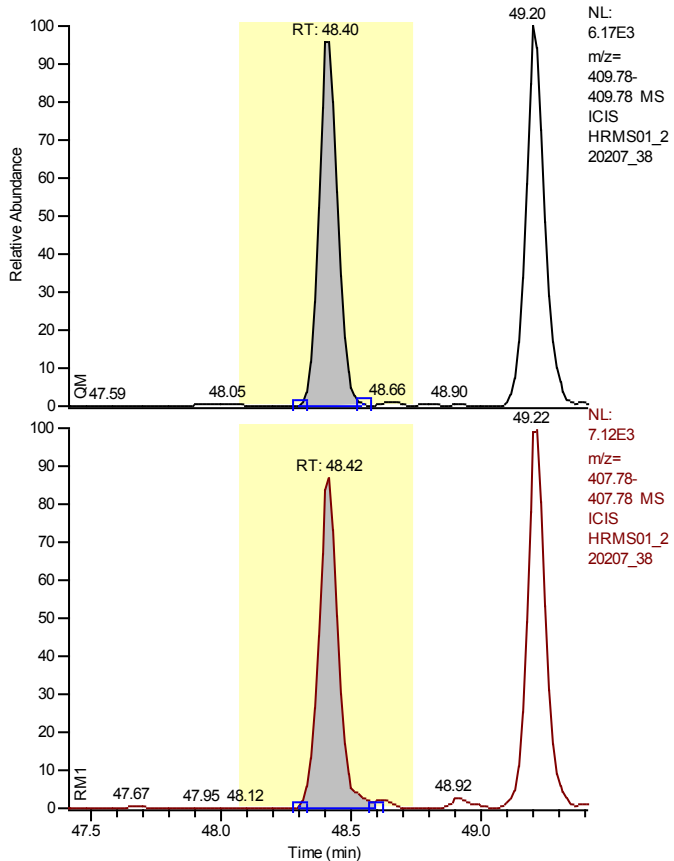
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

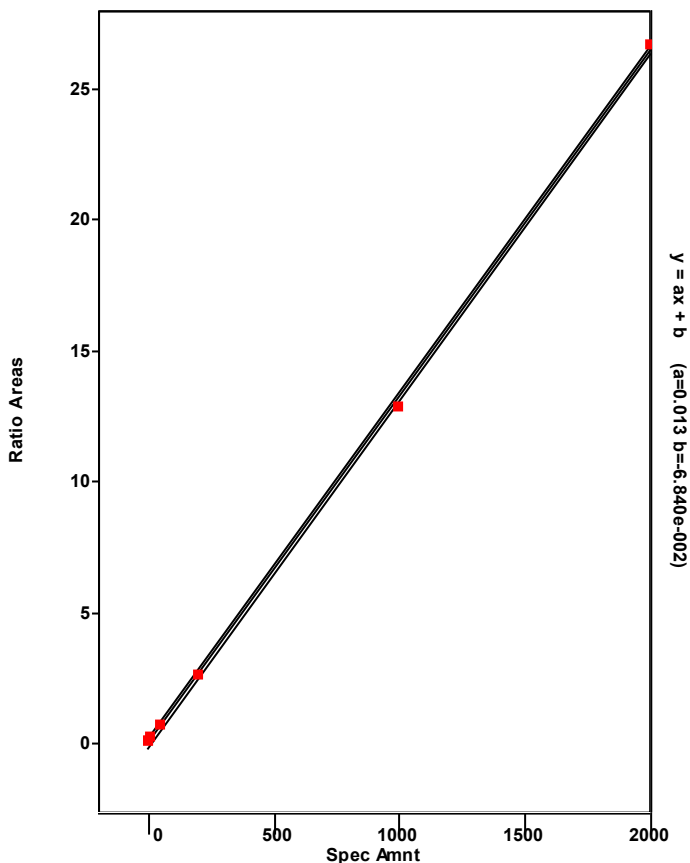
RT: 47.41 - 49.41 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	30023
RM1 Area	32108
RM1 Ratio (A)	1.0694
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	5.22
Percent Recovery (A)	---
TEQ (A)	0.0522
Label2	

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

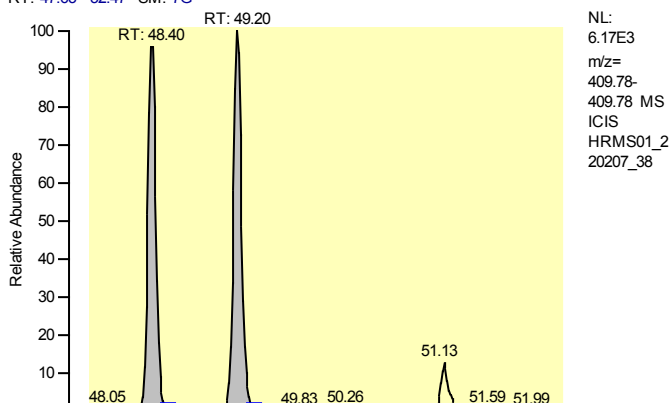
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



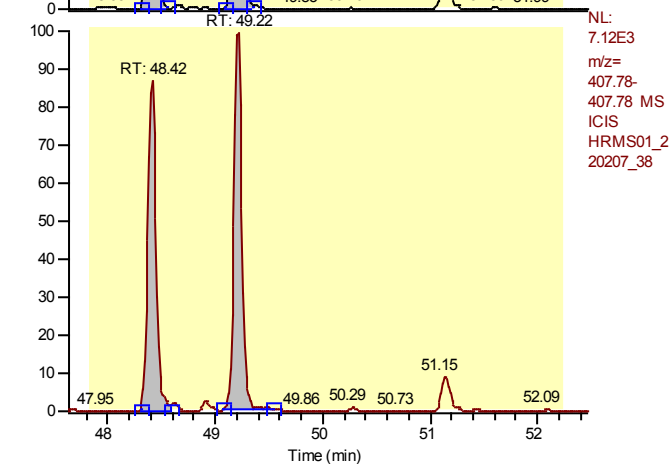
Chromatogram

Entry Parameters

RT: 47.63 - 52.47 SM: 7G

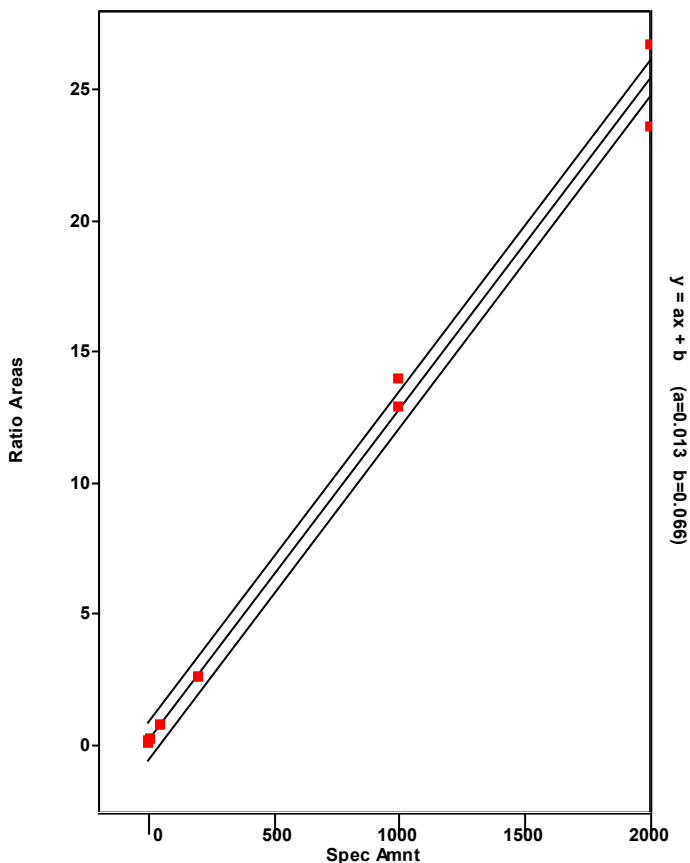


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	60854
RM1 Area	67102
RM1 Ratio (A)	1.1027
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	11.05
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran

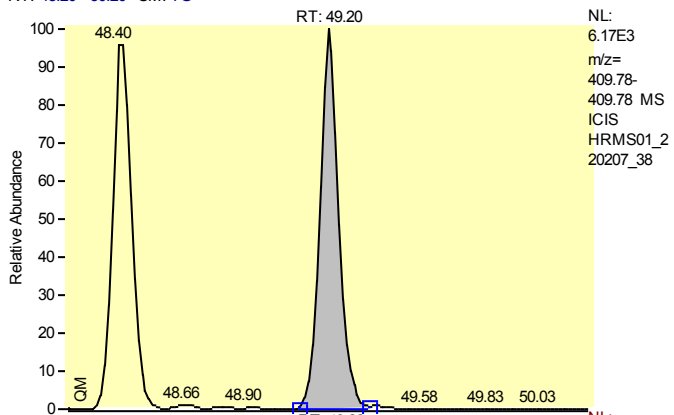
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



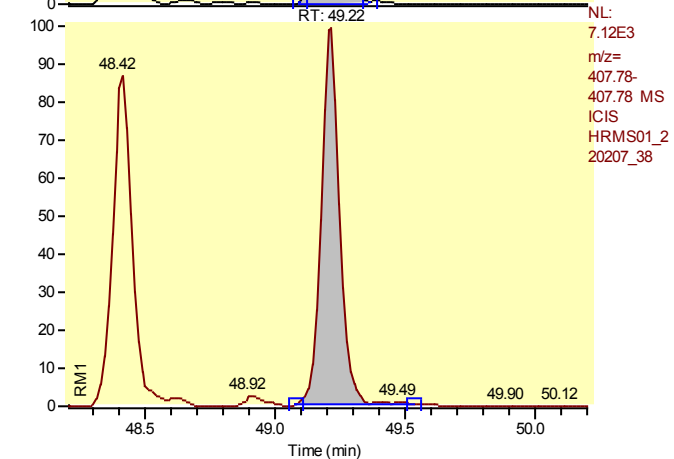
Chromatogram

Entry Parameters

RT: 48.20 - 50.20 SM: 7G

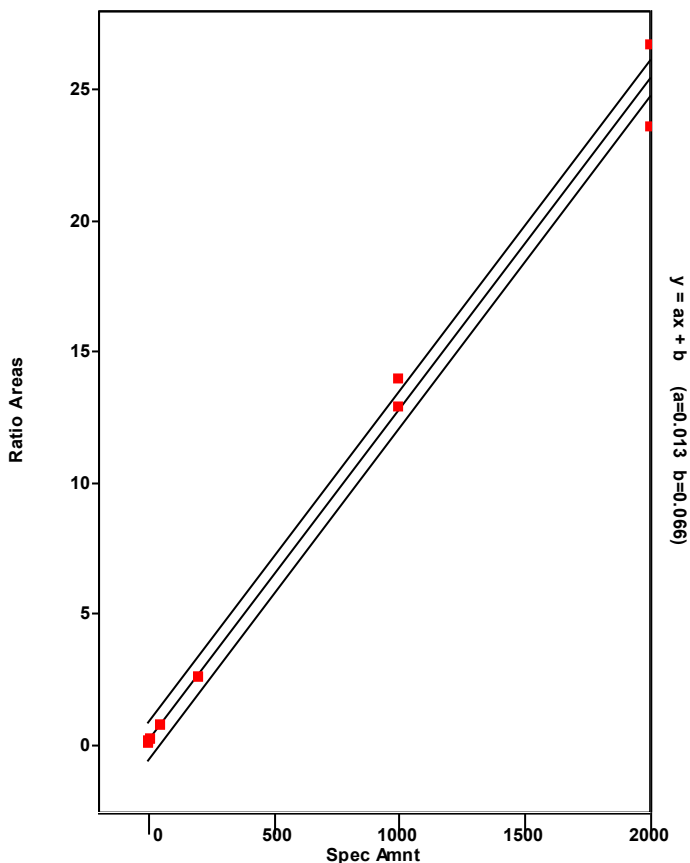


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	30831
RM1 Area	34994
RM1 Ratio (A)	1.1350
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	5.68
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran__1

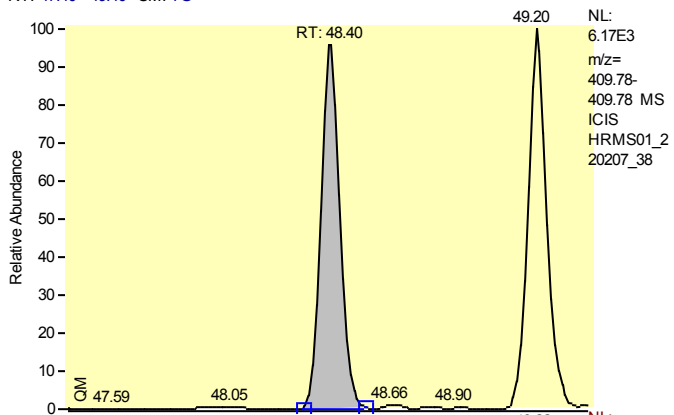
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



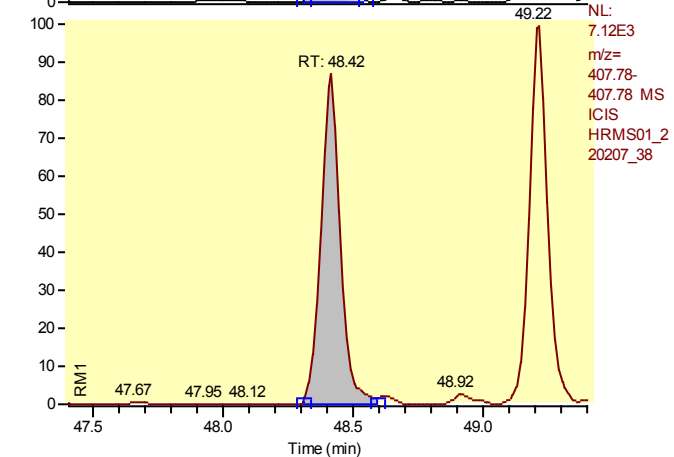
Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

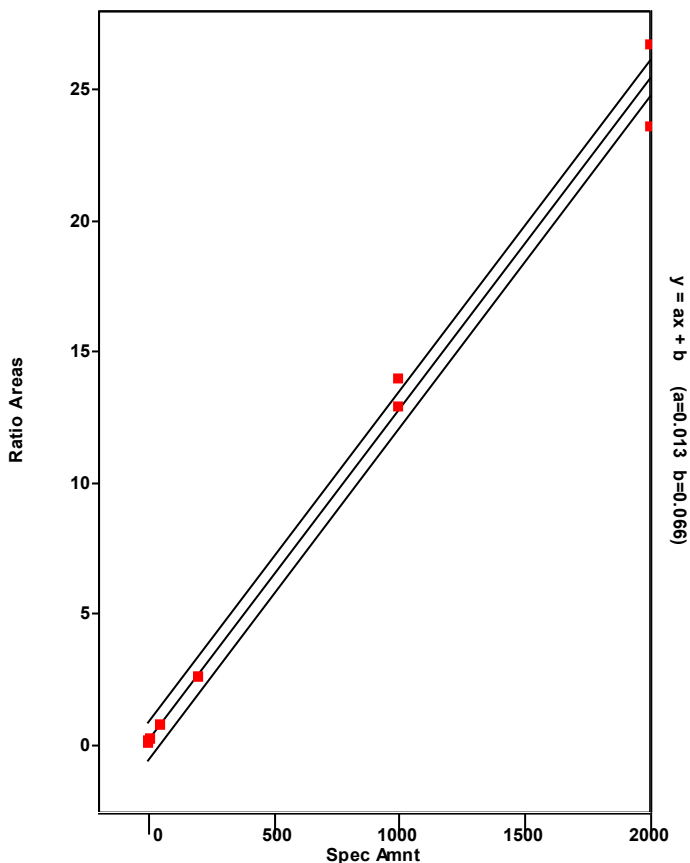


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	30023
RM1 Area	32108
RM1 Ratio (A)	1.0694
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	5.36
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Heptachlorodibenzofuran__2

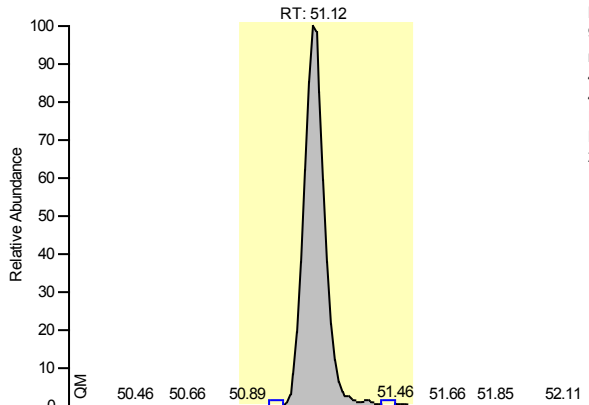
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

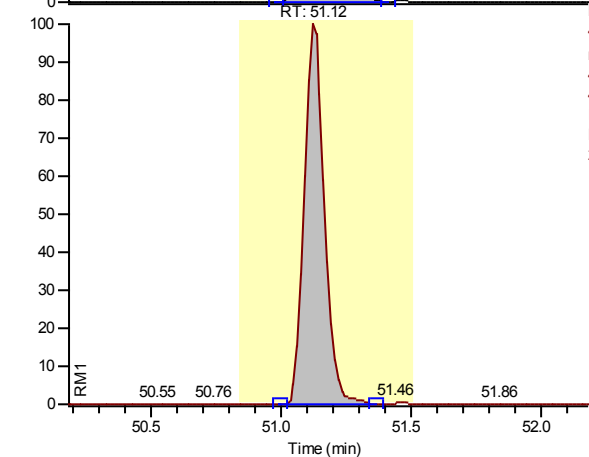
Entry Parameters

RT: 50.18 - 52.18 SM: 7G



NL:
 9.61E4
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_38

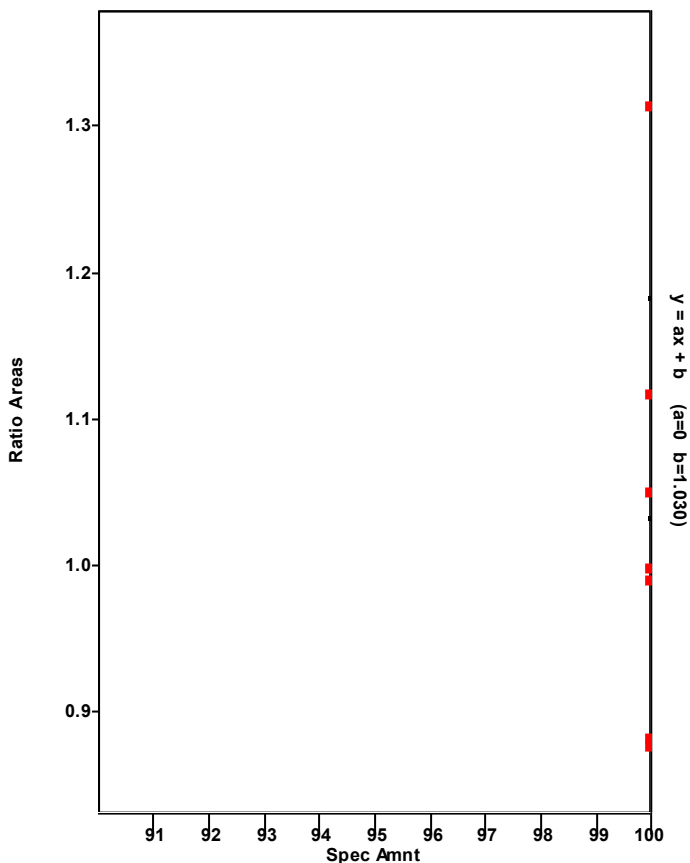
Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	545086
RM1 Area	242340
RM1 Ratio (A)	0.4446
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	48.85
Percent Recovery (A)	49
TEQ (A)	0.0000
Label2	



NL:
 4.48E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

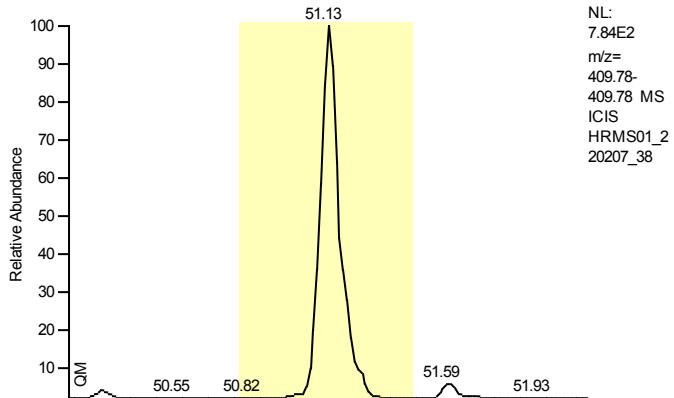
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



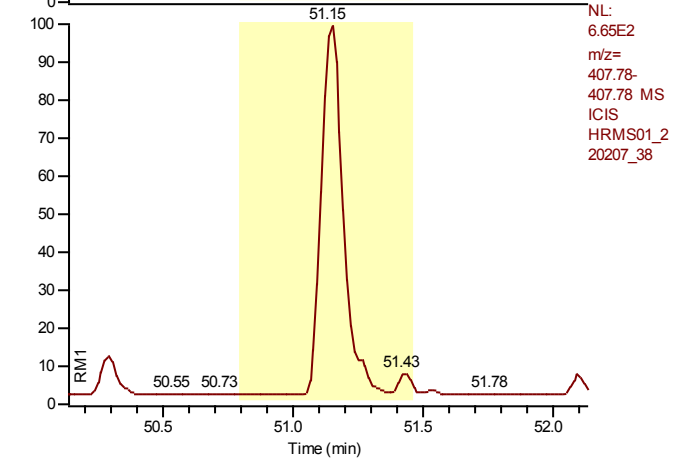
Chromatogram

Entry Parameters

RT: 50.13 - 52.13 SM: 7G

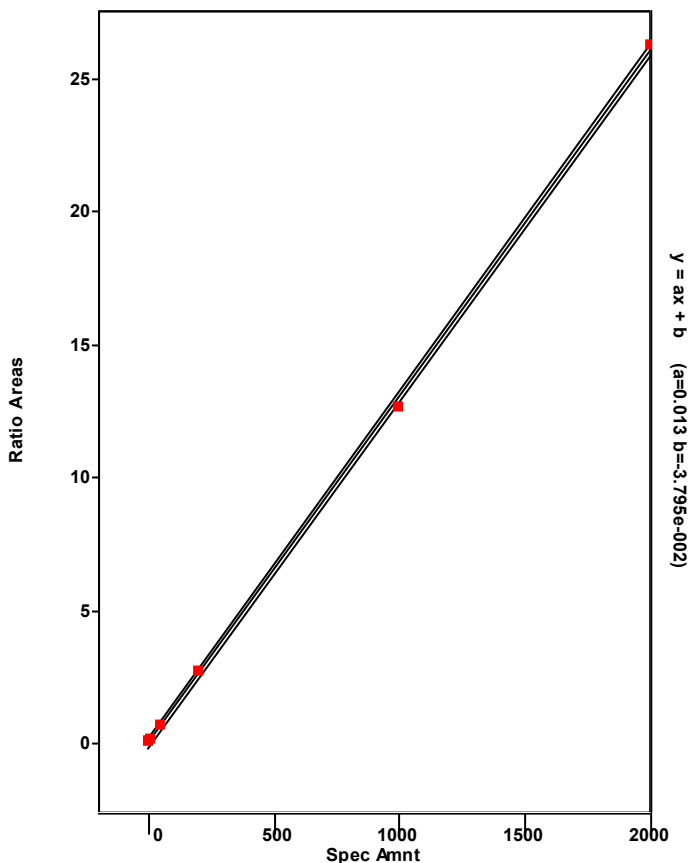


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

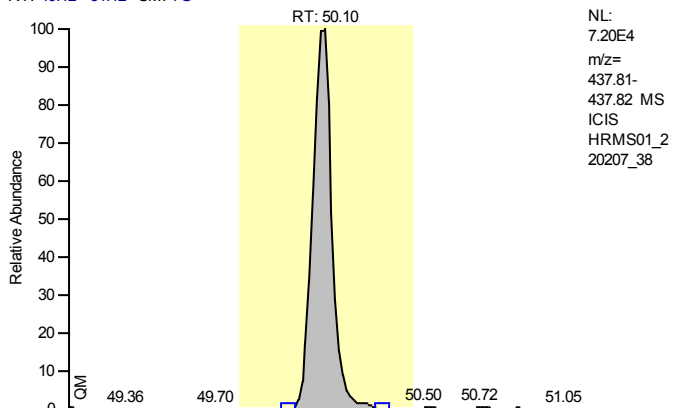
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



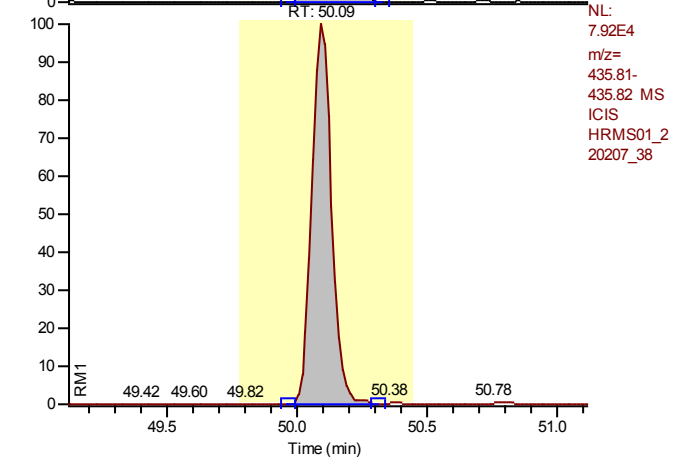
Chromatogram

Entry Parameters

RT: 49.12- 51.12 SM: 7G

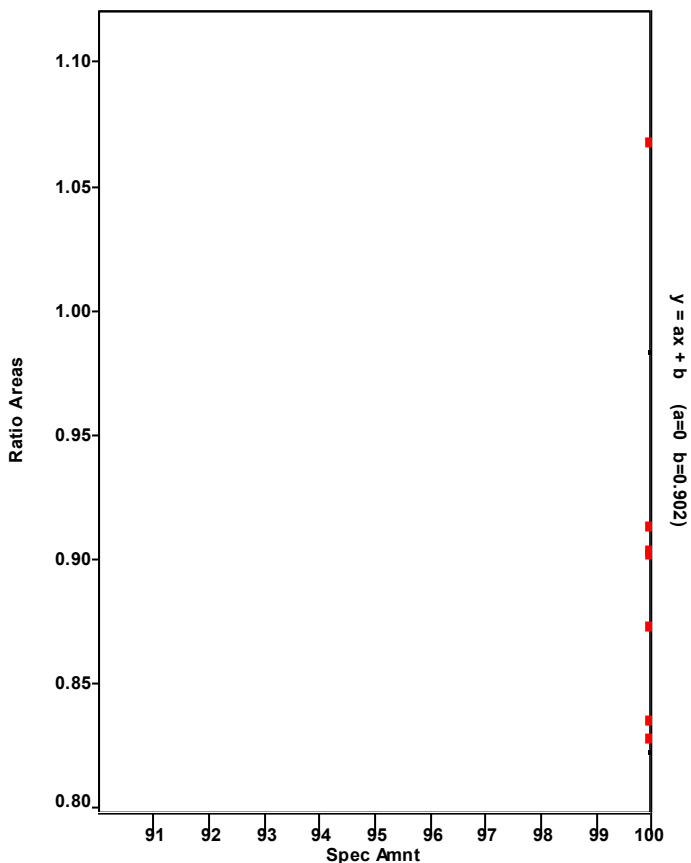


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	
Compound Name	1234678-HpCDD 13C12 STD	
Label1		
QM Area	374701	
RM1 Area	420052	
RM1 Ratio (A)	1.1210	
Ratio1 Limit	0.8800 - 1.2000	
Specified Amount	100.00	
Calculated Amount (A)	56.32	
Percent Recovery (A)	56	
TEQ (A)	0.0000	
Label2		



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

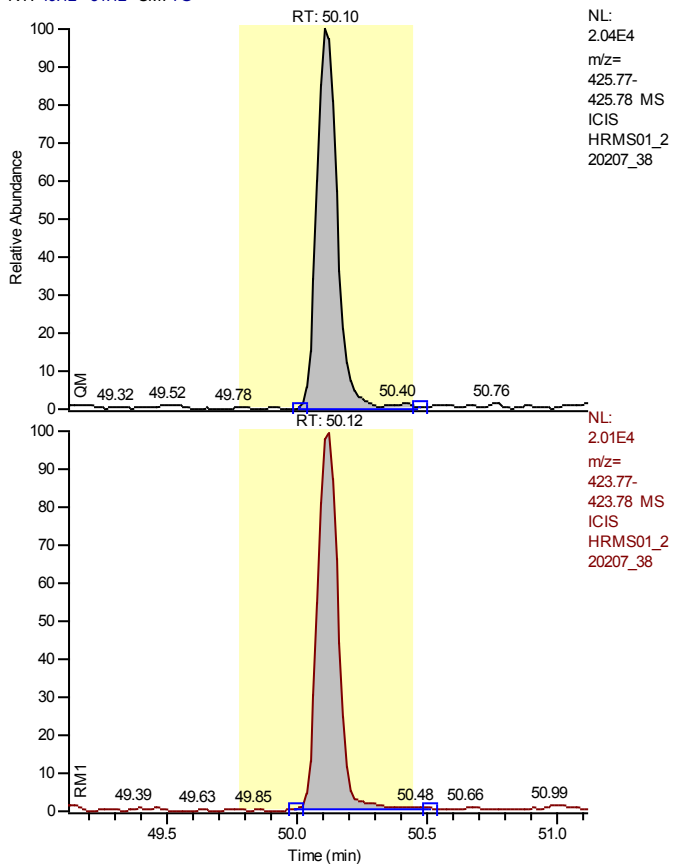
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

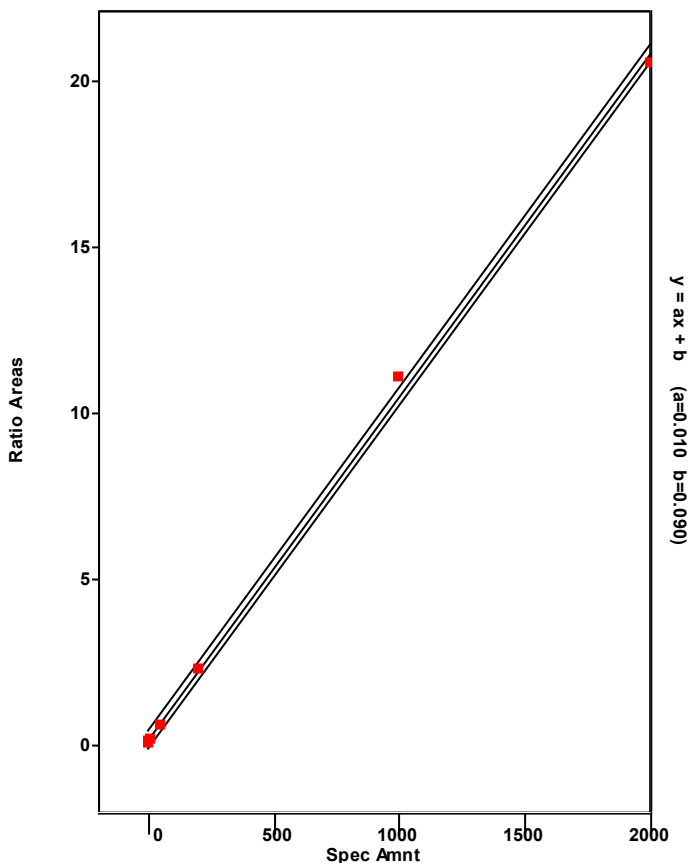
RT: 49.12 - 51.12 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	109794
RM1 Area	110364
RM1 Ratio (A)	1.0052
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	25.67
Percent Recovery (A)	---
TEQ (A)	0.2567
Label2	

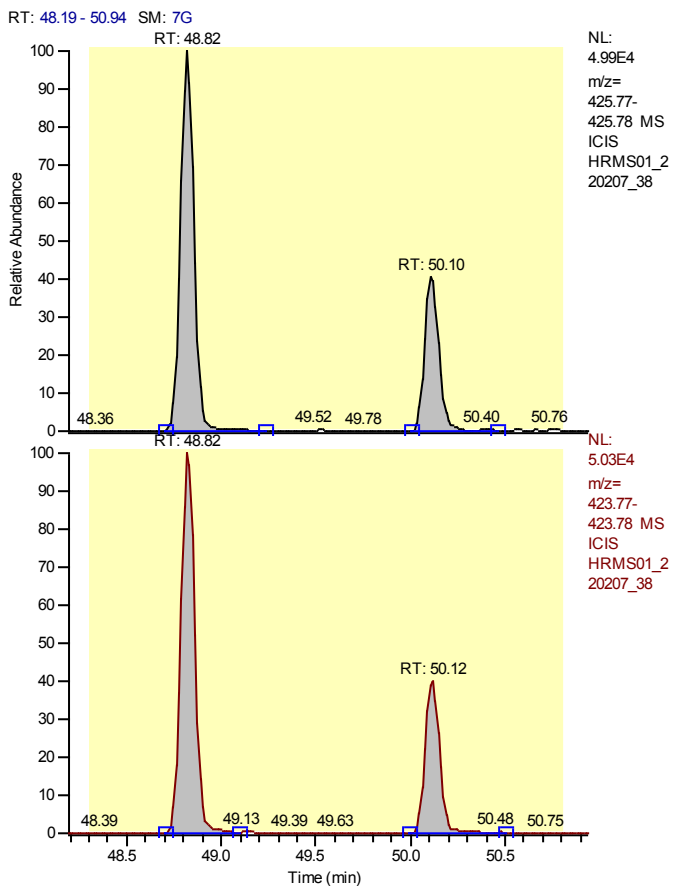
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

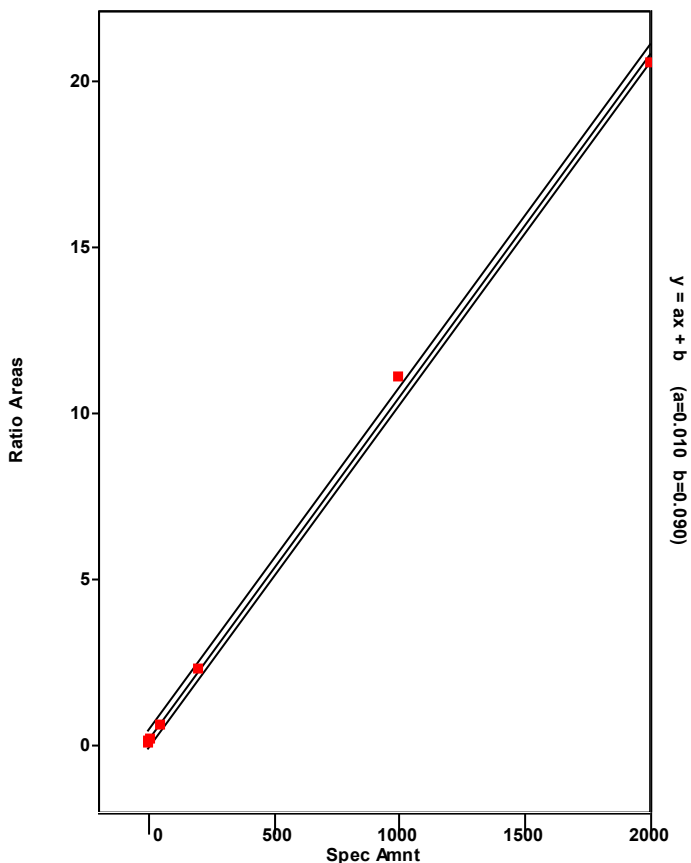
Entry Parameters



Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	361141
RM1 Area	370160
RM1 Ratio (A)	1.0250
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	85.26
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin

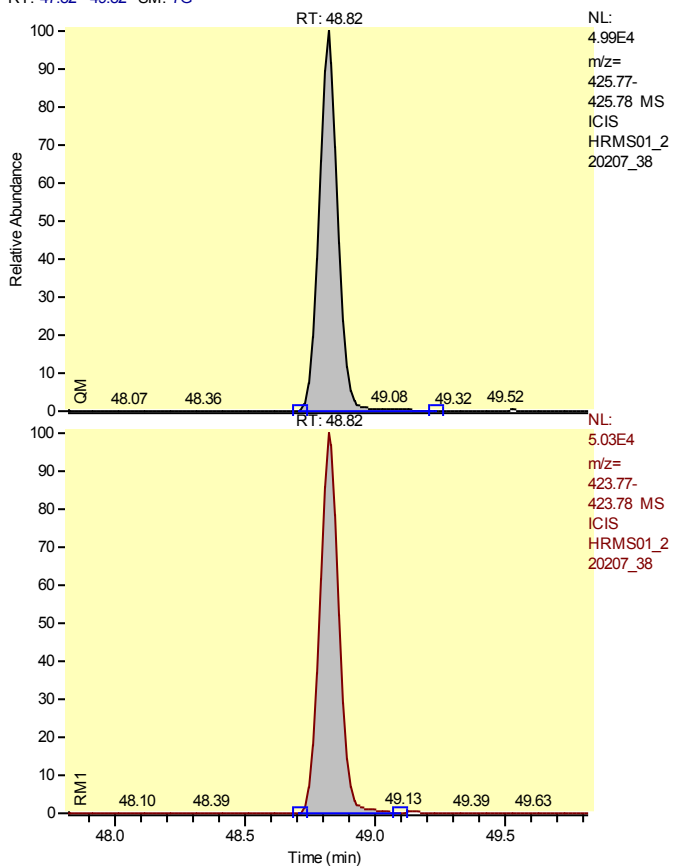
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

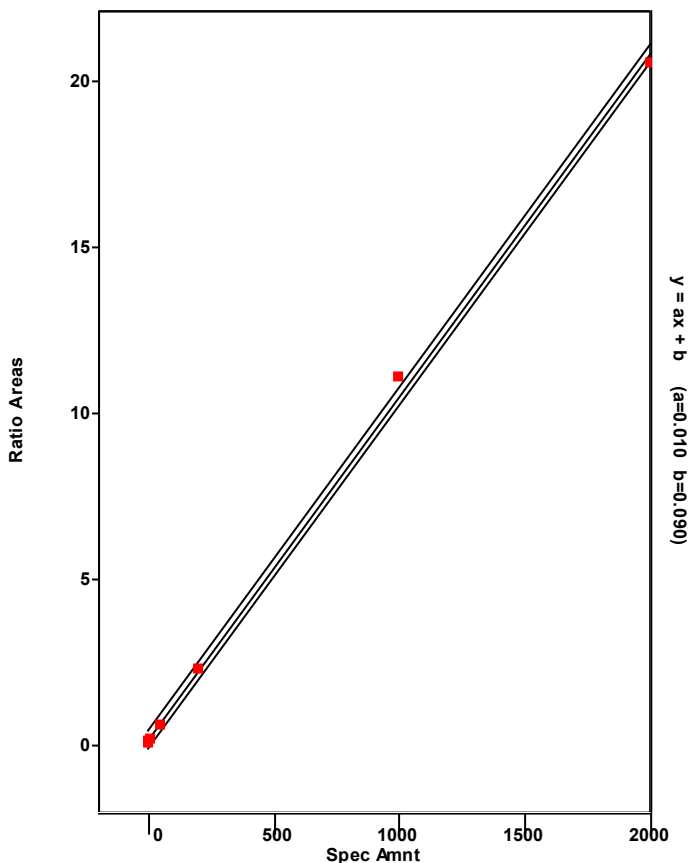
RT: 47.82 - 49.82 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	251346
RM1 Area	259796
RM1 Ratio (A)	1.0336
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	59.59
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

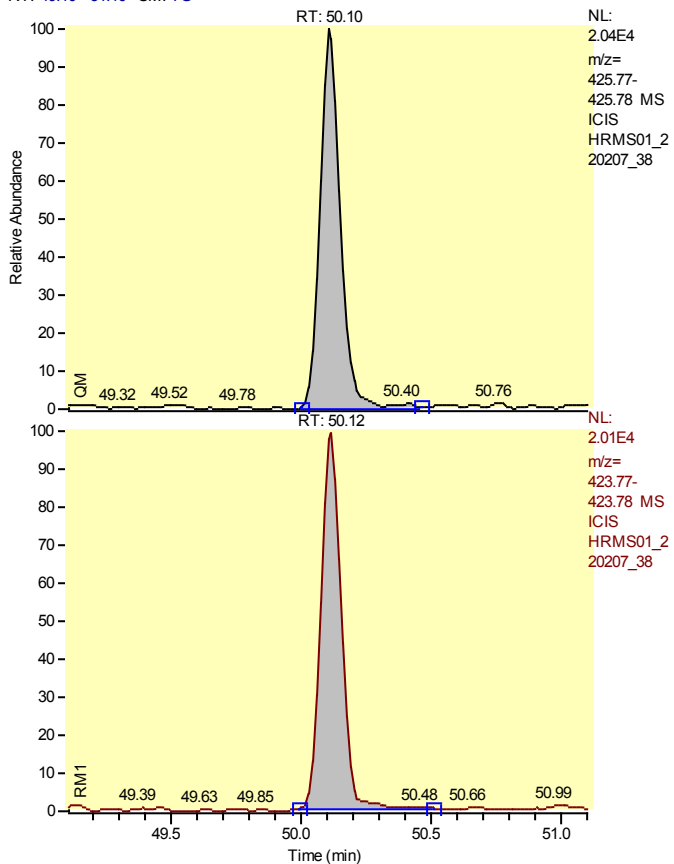
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

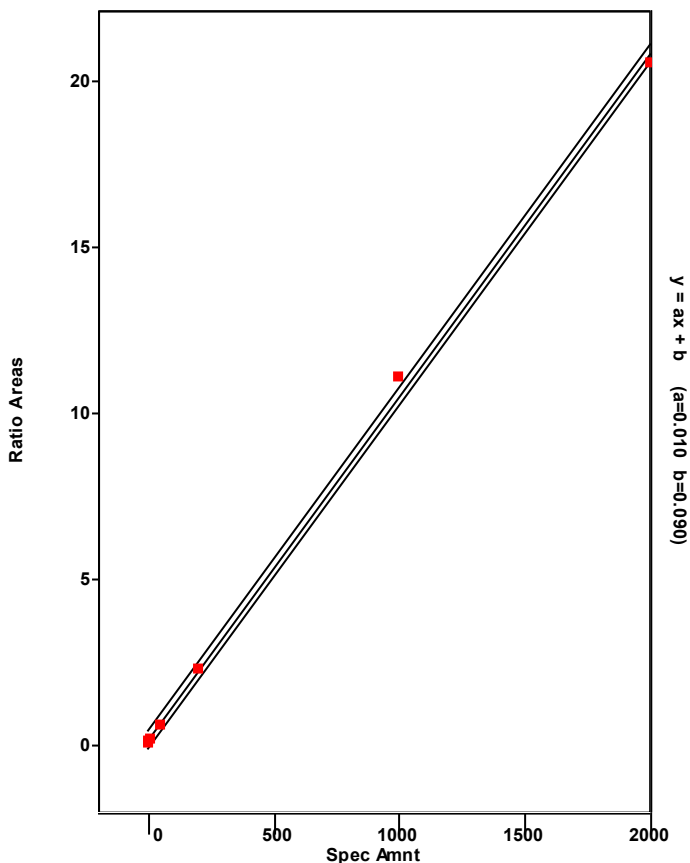
RT: 49.10 - 51.10 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	109794
RM1 Area	110364
RM1 Ratio (A)	1.0052
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	25.67
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

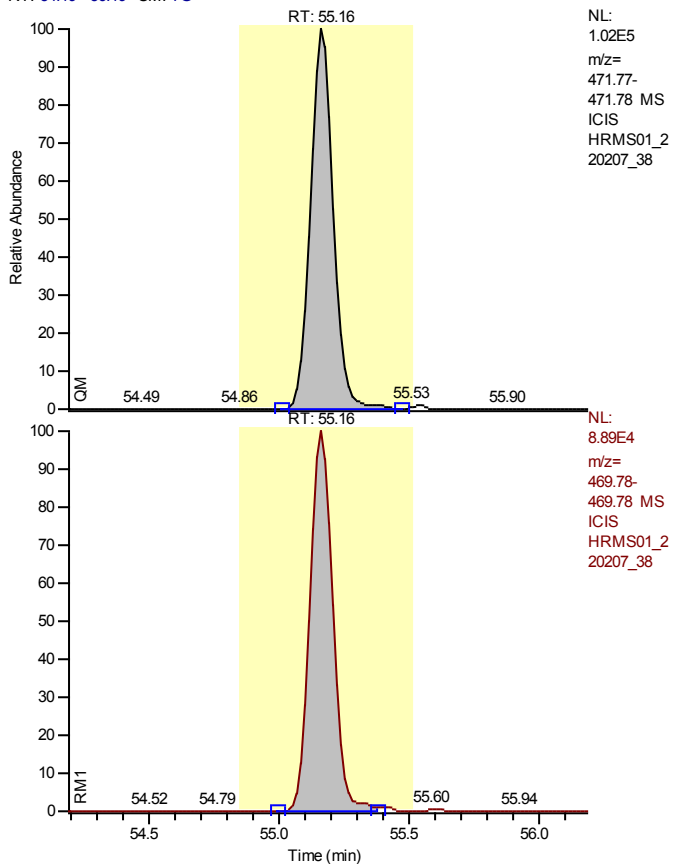
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

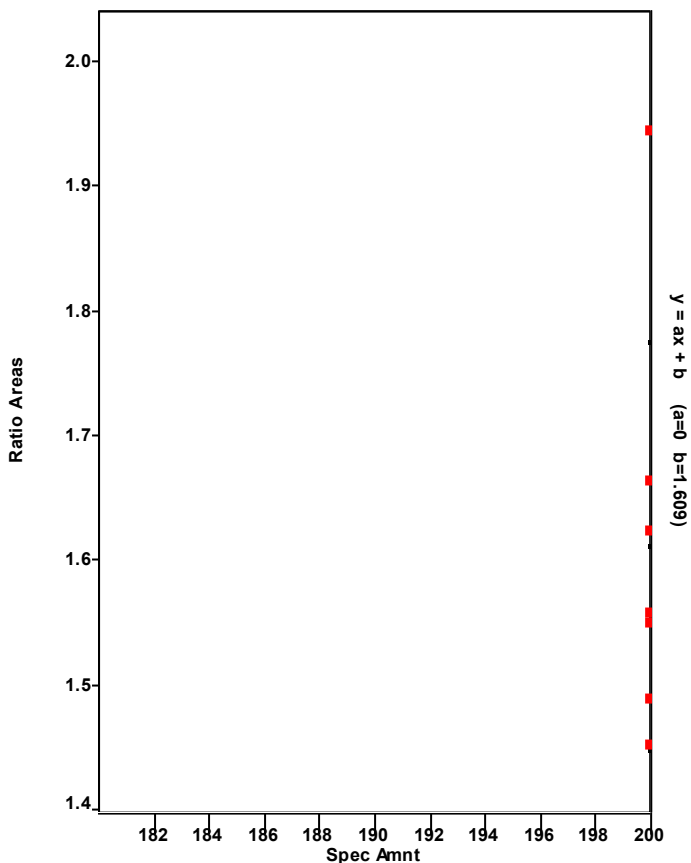
RT: 54.19 - 56.19 SM: 7G



Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	622983
RM1 Area	549528
RM1 Ratio (A)	0.8821
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	93.12
Percent Recovery (A)	47
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

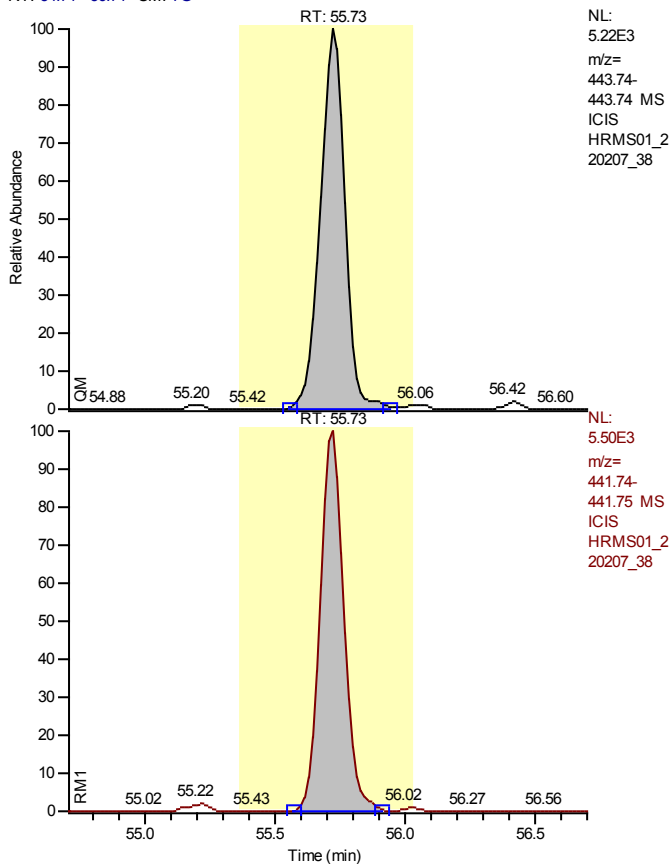
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

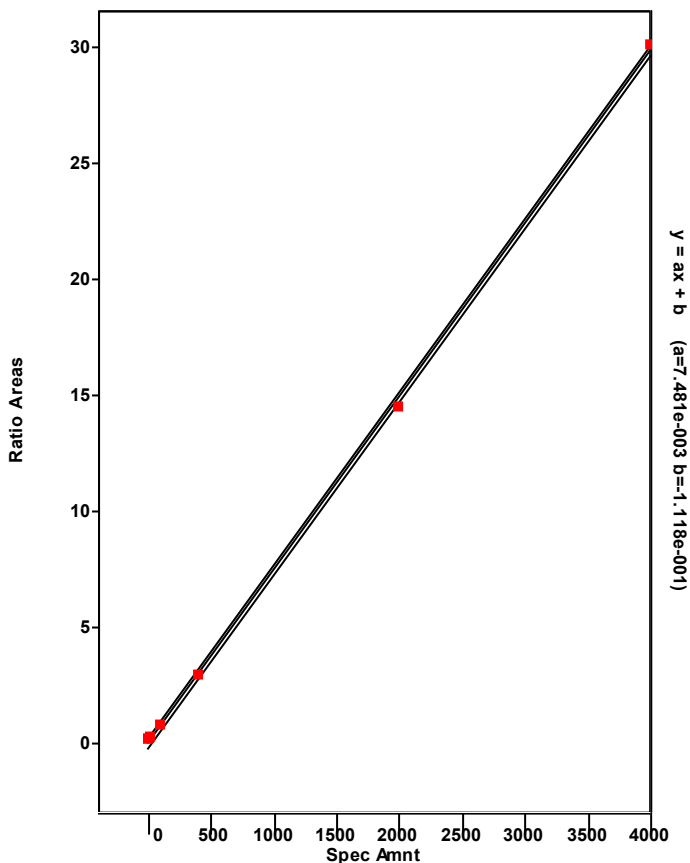
RT: 54.71 - 56.71 SM: 7G



Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 3268-87-9
QM Area	33991
RM1 Area	34502
RM1 Ratio (A)	1.0150
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	8.37
Percent Recovery (A)	---
TEQ (A)	0.0025
Label2	

Calibration Points of Octachlorodibenzofuran

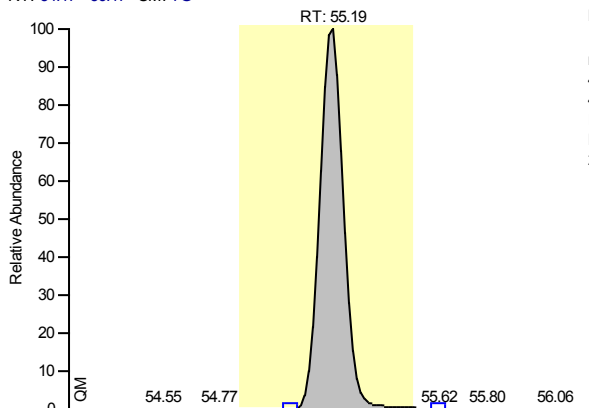
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

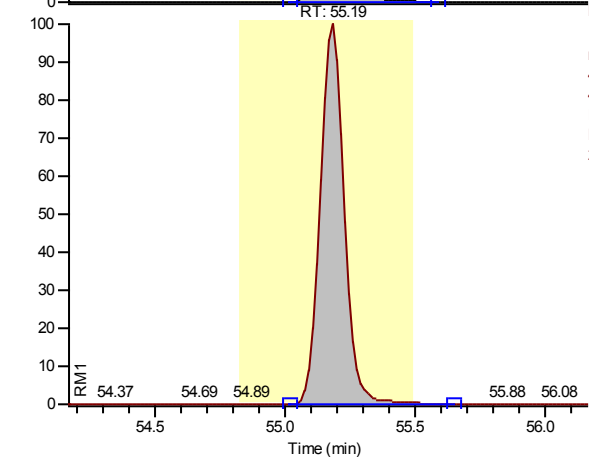
Entry Parameters

RT: 54.17 - 56.17 SM: 7G



NL:
 1.36E5
 m/z=
 459.73-
 459.74 MS
 ICIS
 HRMS01_2
 20207_38

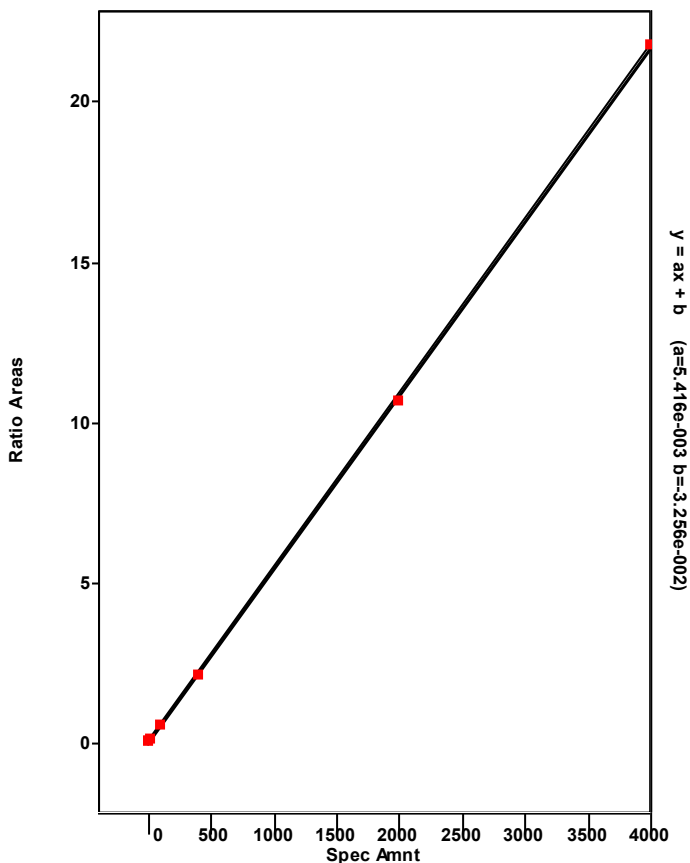
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	877261
RM1 Area	792082
RM1 Ratio (A)	0.9029
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	263.21
Percent Recovery (A)	---
TEQ (A)	0.0790
Label2	



NL:
 1.23E5
 m/z=
 457.74-
 457.74 MS
 ICIS
 HRMS01_2
 20207_38

Calibration Points of Octachlorodibenzo-p-dioxin

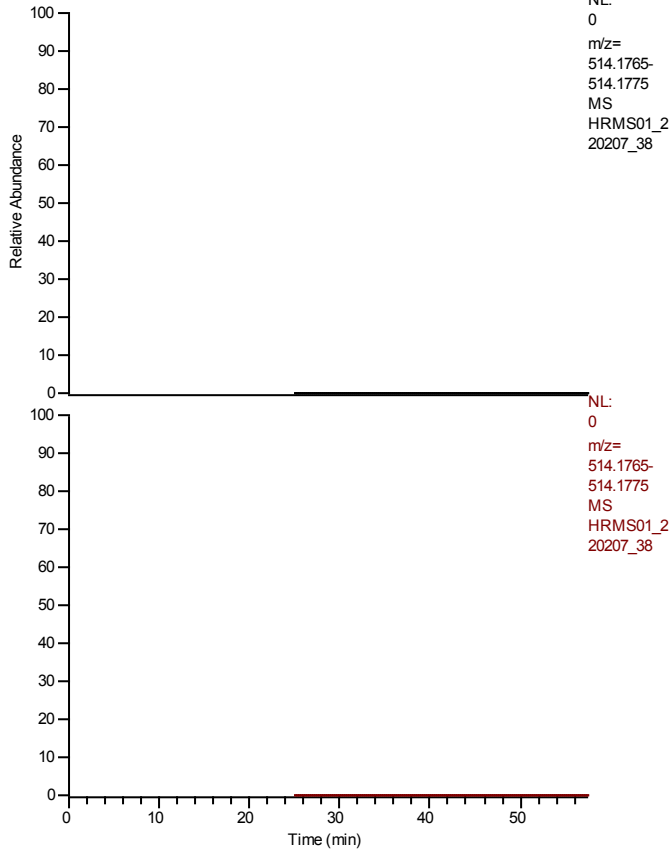
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

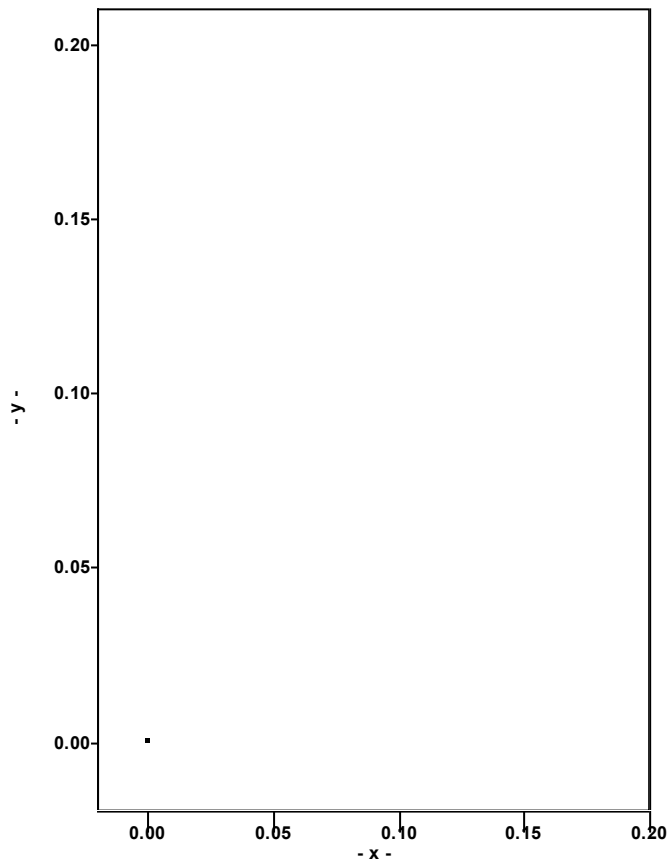
Entry Parameters

RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	1125435
RM1 Area	1068335
RM1 Ratio (A)	0.9493
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	316.02
Percent Recovery (A)	---
TEQ (A)	1.0227
Label2	

Calibration Points of overall TEQ



Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/09 09:05
Number of Entries	47
Comment	
Vial	120
Sample Name	L2202953-12
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_40_seq
Data	hrms01_220207_40
Response	220204_1613b_gcb
Quan Method File	epa1613b_samples_gc2
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

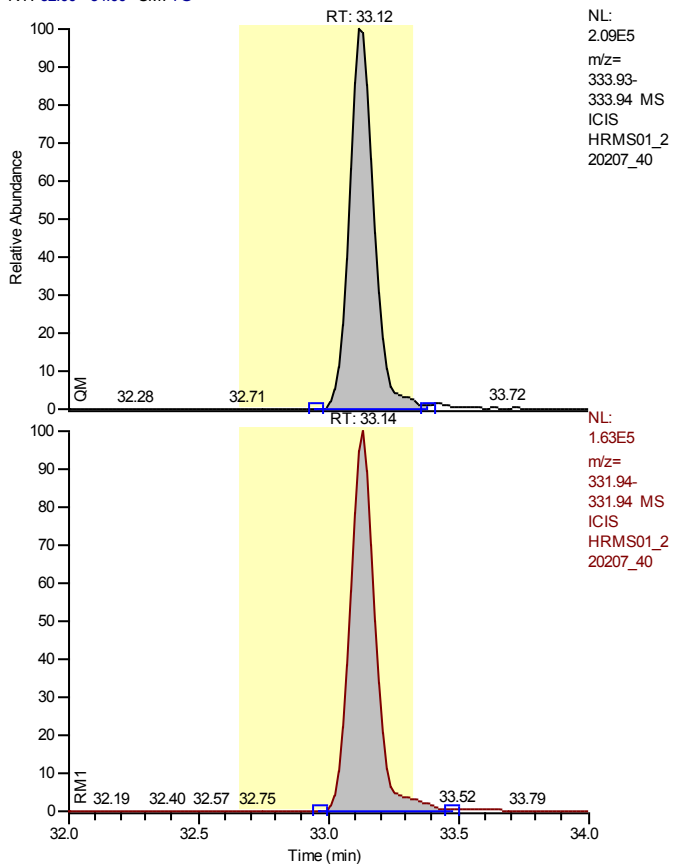
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1370088	1086393	0.7929	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1527892	1139181	0.7456	0.6500 - 0.8900	100.00	66.82	67	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	6632	5646	0.8514	0.6500 - 0.8900	0.00	0.50	---	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	6632	5646	0.8514	0.6500 - 0.8900	0.00	0.50	---	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		992467	713463	0.7189	0.6500 - 0.8900	100.00	59.69	60	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
9	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		781589	1199037	1.5341	1.3200 - 1.7800	100.00	55.60	56	0.0000
10	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
11	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
12	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		770382	1229094	1.5954	1.3200 - 1.7800	100.00	59.65	60	0.0000
13	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
14	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		512523	858458	1.6750	1.3200 - 1.7800	100.00	61.25	61	0.0000
15	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
16	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
17	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		301518	301518	1.0000	0.8500 - 1.1500	10.00	9.80	98	0.0000
18	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		1018108	1289674	1.2667	1.0500 - 1.4300	100.00	100.00	100	0.0000
19	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1290737	677567	0.5249	0.4300 - 0.5900	100.00	75.91	76	0.0000
20	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
21	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
22	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1297699	705109	0.5434	0.4300 - 0.5900	100.00	71.81	72	0.0000
23	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
24	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1316406	693778	0.5270	0.4300 - 0.5900	100.00	73.95	74	0.0000
25	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
26	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1124168	616766	0.5486	0.4300 - 0.5900	100.00	65.84	66	0.0000
27	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
28	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		595851	693776	1.1643	1.0500 - 1.4300	100.00	62.62	63	0.0000
29	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
30	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
31	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		624757	798248	1.2777	1.0500 - 1.4300	100.00	66.07	66	0.0000
32	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
33	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
34	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1007792	465762	0.4622	0.3700 - 0.5100	100.00	58.55	59	0.0000
35	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	0	0	0.0000	0.8800 - 1.2000	0.00	n.d.	---	n.d.
36	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
37	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		888700	389431	0.4382	0.3700 - 0.5100	100.00	53.76	54	0.0000
38	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		626485	639655	1.0210	0.8800 - 1.2000	100.00	60.84	61	0.0000
40	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	11670	13417	1.1497	0.8800 - 1.2000	0.00	1.84	---	0.0000
41	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	28650	31442	1.0975	0.8800 - 1.2000	0.00	4.40	---	0.0000
42	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	16980	18025	1.0616	0.8800 - 1.2000	0.00	2.56	---	0.0000
43	Total Heptachlorodibenzo-p-dioxin__2	Single native HpCDD	CAS# 37871-00-4	11670	13417	1.1497	0.8800 - 1.2000	0.00	1.84	---	0.0000
44	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		847910	803635	0.9478	0.7600 - 1.0200	200.00	88.94	44	0.0000
45	Octachlorodibenzofuran	OCDF	CAS# 3268-87-9	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
46	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	82405	77507	0.9406	0.7600 - 1.0200	0.00	17.90	---	0.0054
47	overall TEQ	overall TEQ test		94075	90924	0.9665	0.0000 - 0.0000	0.00	19.74	---	0.0054

Chromatogram

Entry Parameters

RT: 32.00 - 34.00 SM: 7G



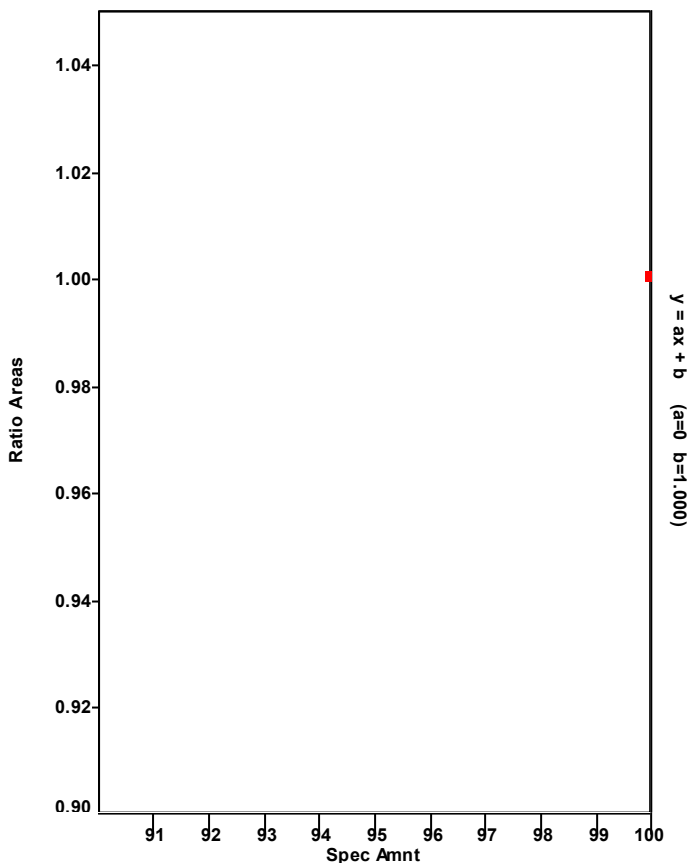
NL:
 2.09E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_40

NL:
 1.63E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_40

Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1370088
RM1 Area	1086393
RM1 Ratio (A)	0.7929
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

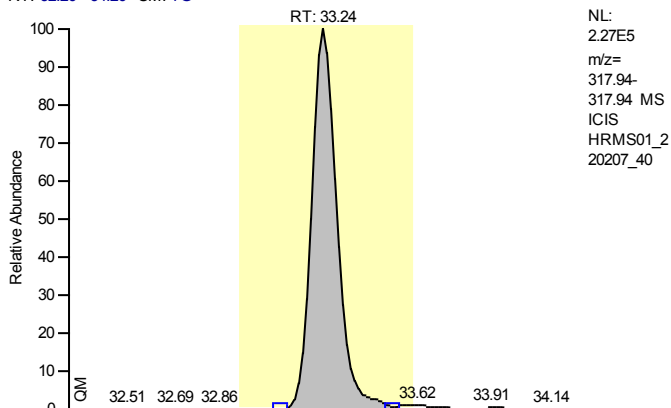
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

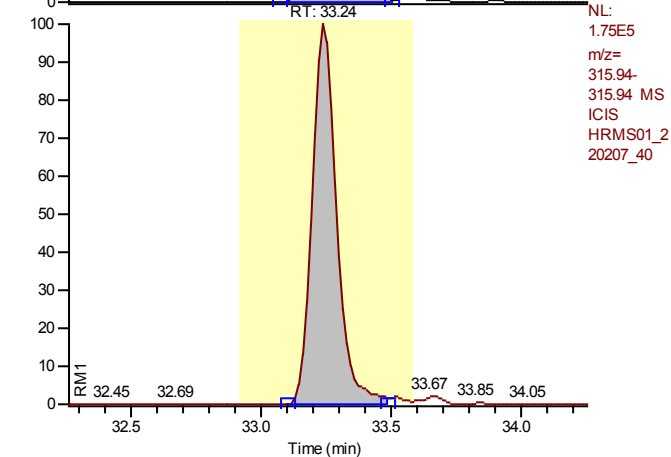
Entry Parameters

RT: 32.26 - 34.26 SM: 7G



NL:
 2.27E5
 m/z=
 317.94
 MS
 ICIS
 HRMS01_2
 20207_40

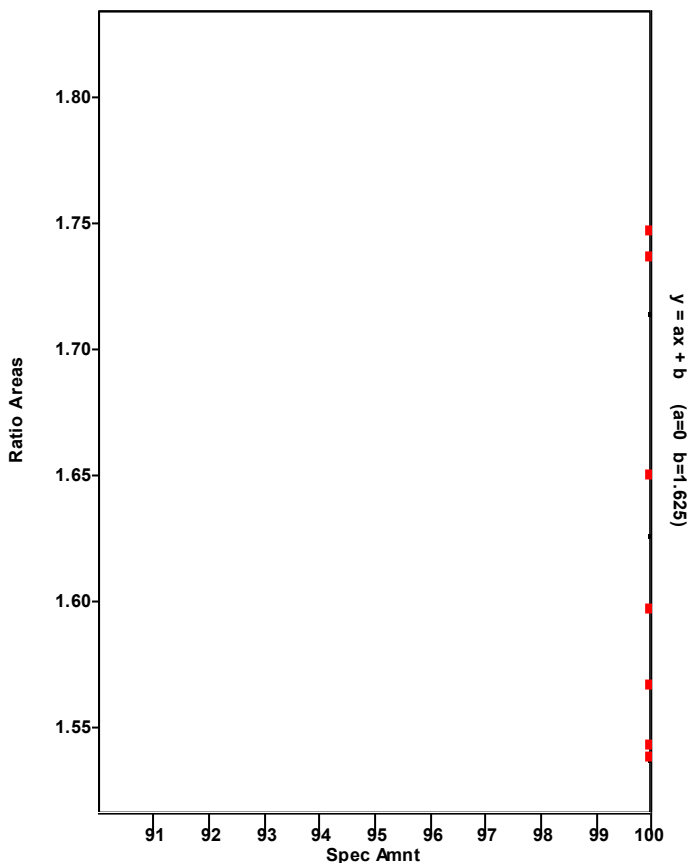
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1527892
RM1 Area	1139181
RM1 Ratio (A)	0.7456
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	66.82
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	



NL:
 1.75E5
 m/z=
 315.94
 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

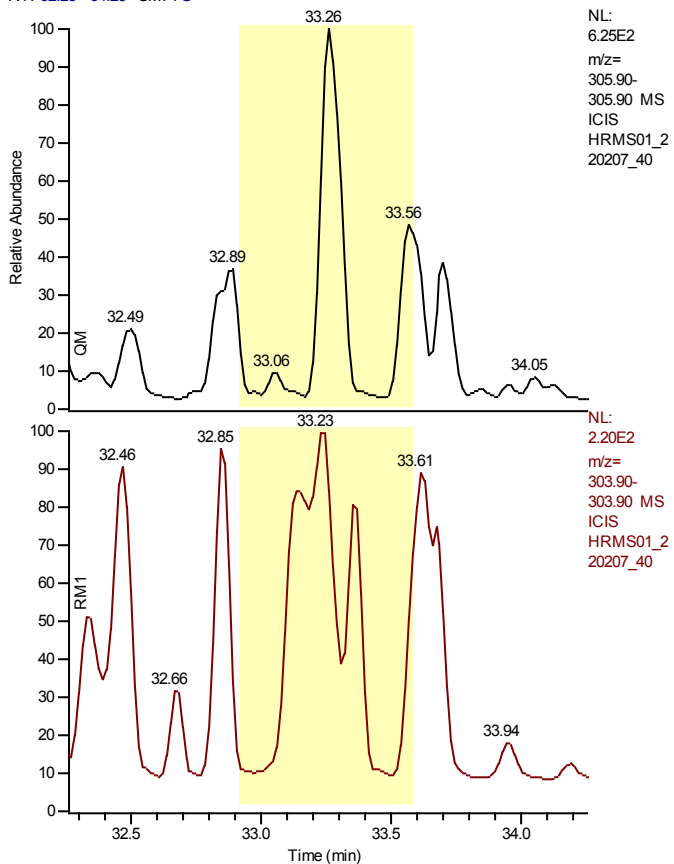
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

Entry Parameters

RT: 32.25 - 34.25 SM: 7G



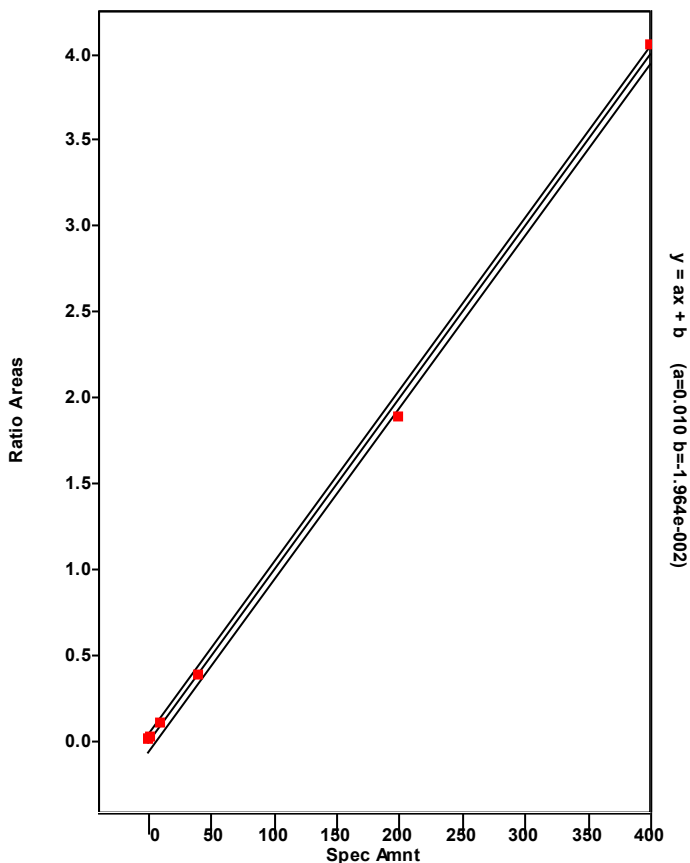
NL: 6.25E2
 m/z= 305.90-305.90 MS
 ICIS
 HRMS01_2
 20207_40

NL: 2.20E2
 m/z= 303.90-303.90 MS
 ICIS
 HRMS01_2
 20207_40

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

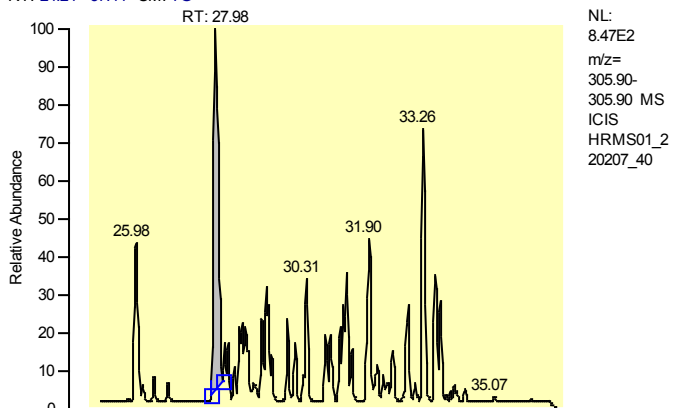
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



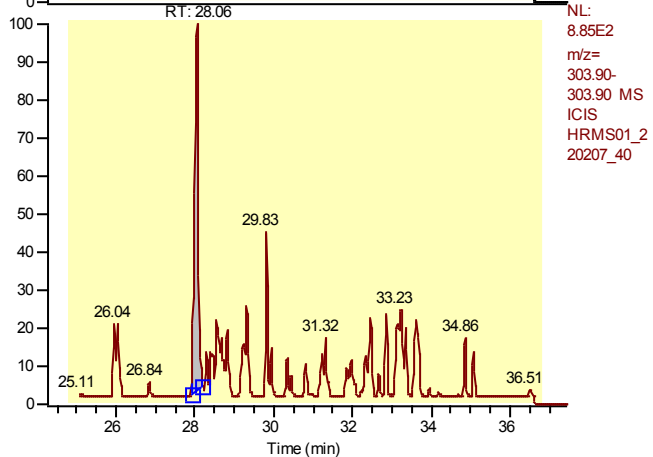
Chromatogram

Entry Parameters

RT: 24.24 - 37.44 SM: 7G

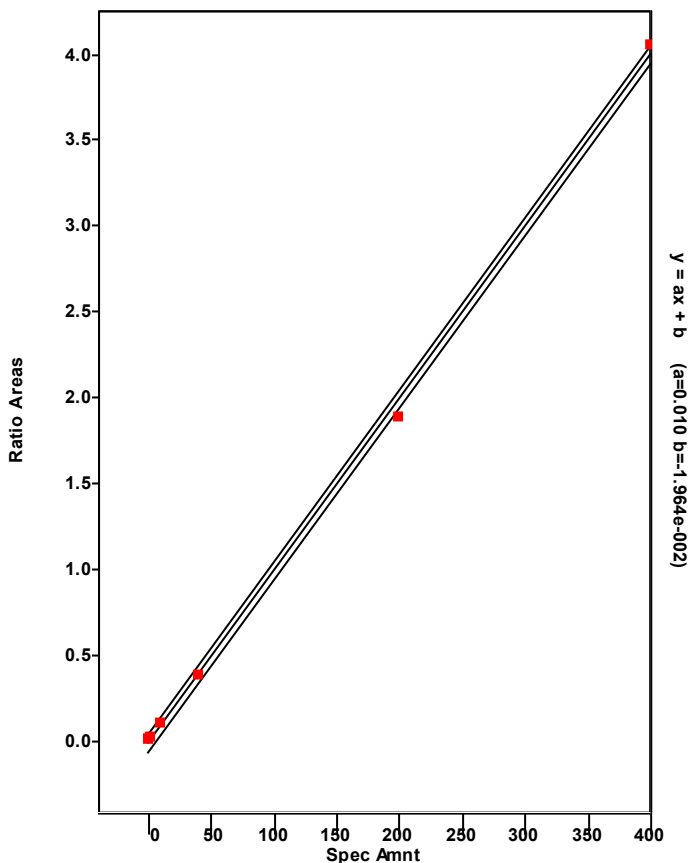


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	6632
RM1 Area	5646
RM1 Ratio (A)	0.8514
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.50
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



Calibration Points of Total Tetrachlorodibenzofuran

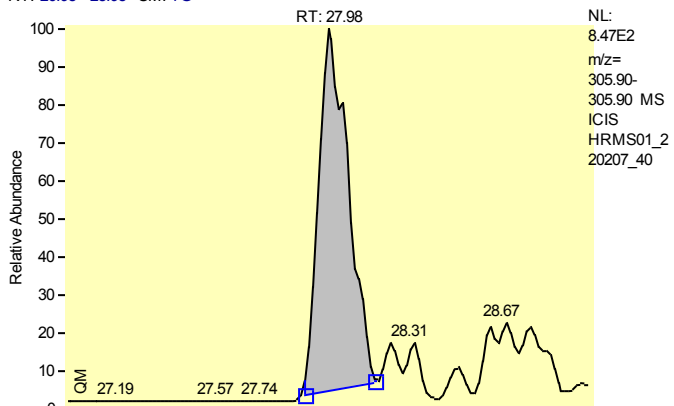
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

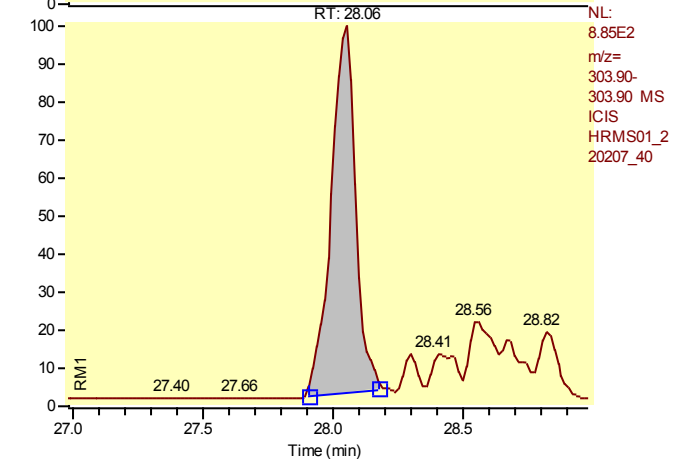
Entry Parameters

RT: 26.98 - 28.98 SM: 7G



NL:
 8.47E2
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_40

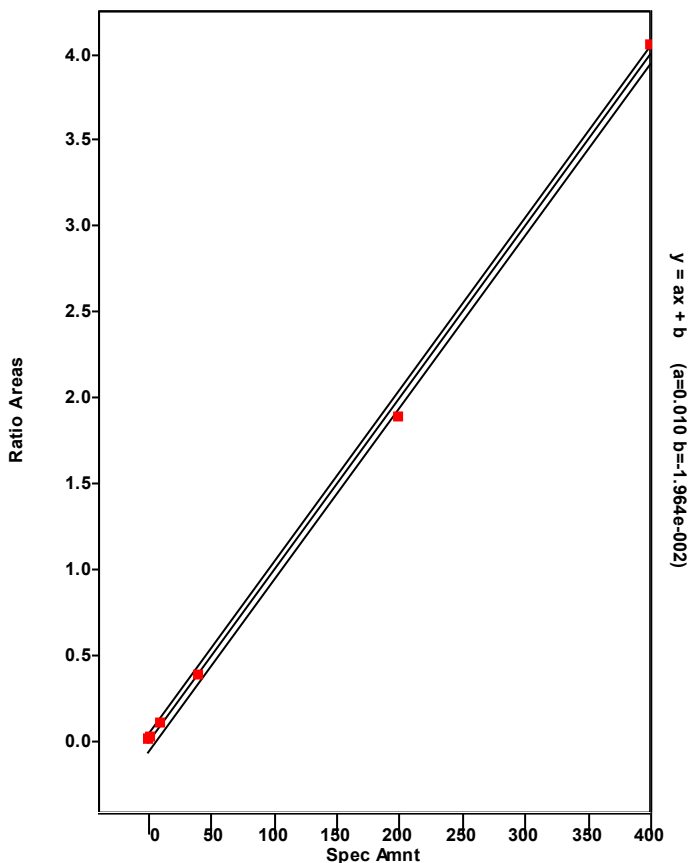
Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	6632
RM1 Area	5646
RM1 Ratio (A)	0.8514
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	0.50
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



NL:
 8.85E2
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of Total Tetrachlorodibenzofuran__1

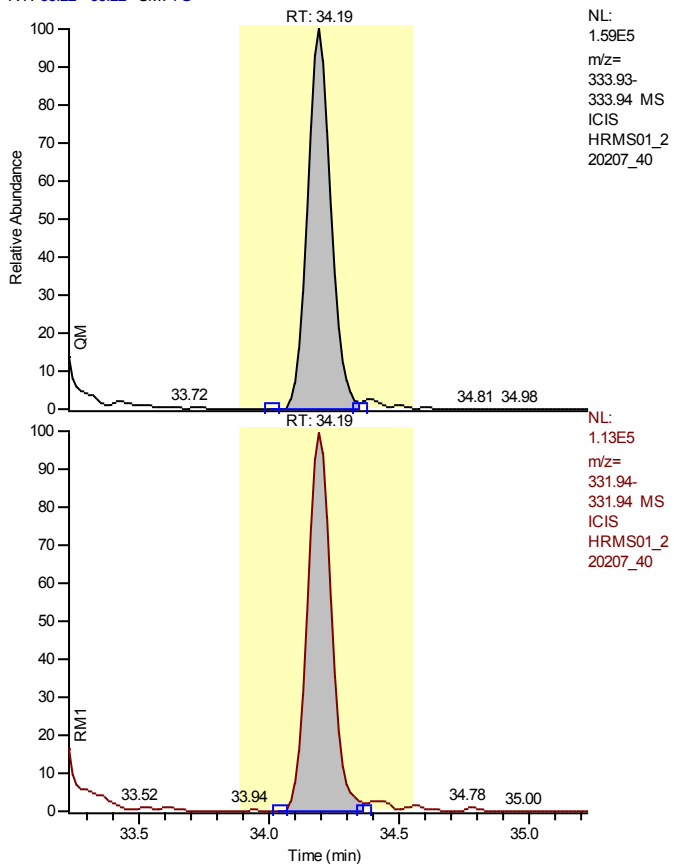
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

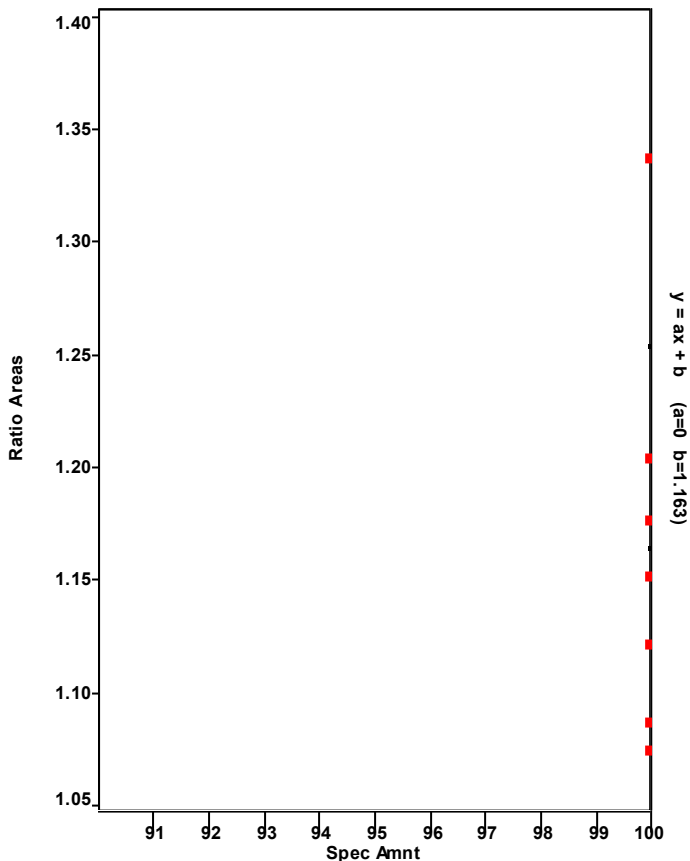
RT: 33.22 - 35.22 SM: 7G



Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	992467
RM1 Area	713463
RM1 Ratio (A)	0.7189
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	59.69
Percent Recovery (A)	60
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

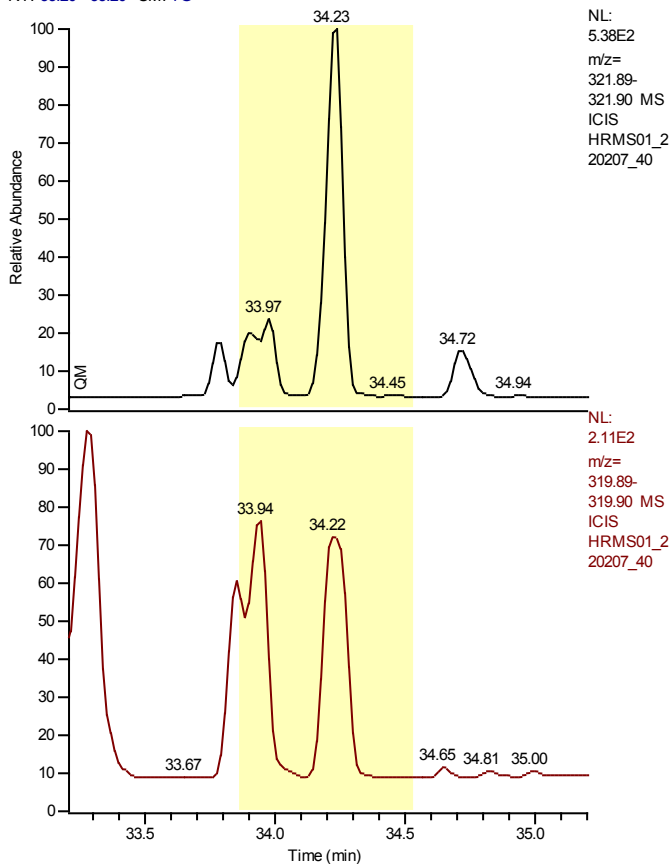
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

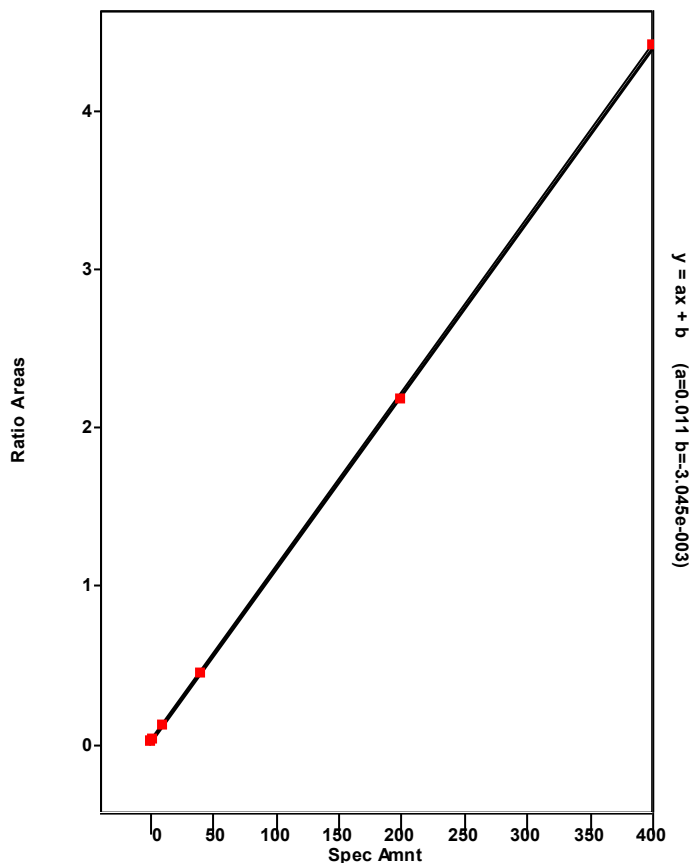
RT: 33.20 - 35.20 SM: 7G



Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

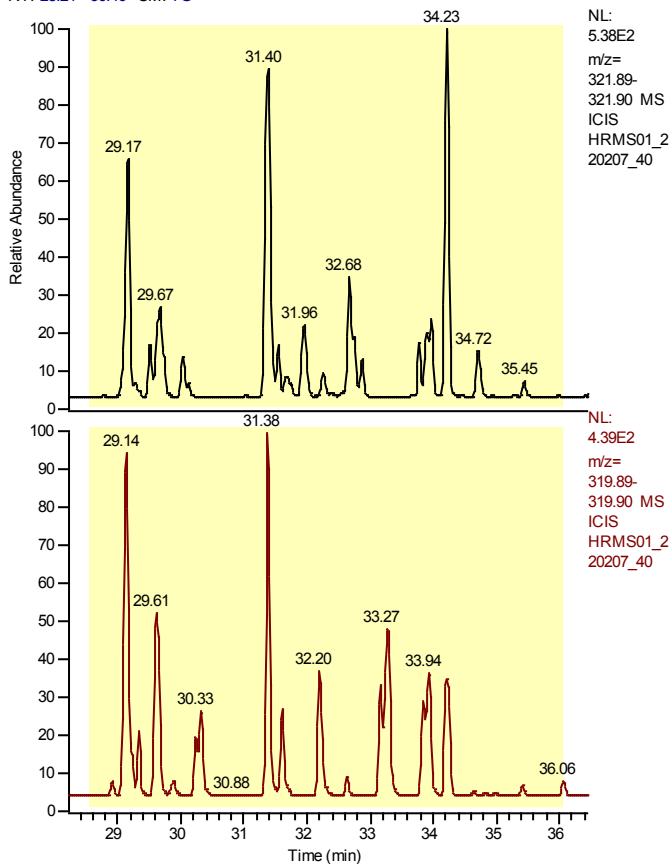
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

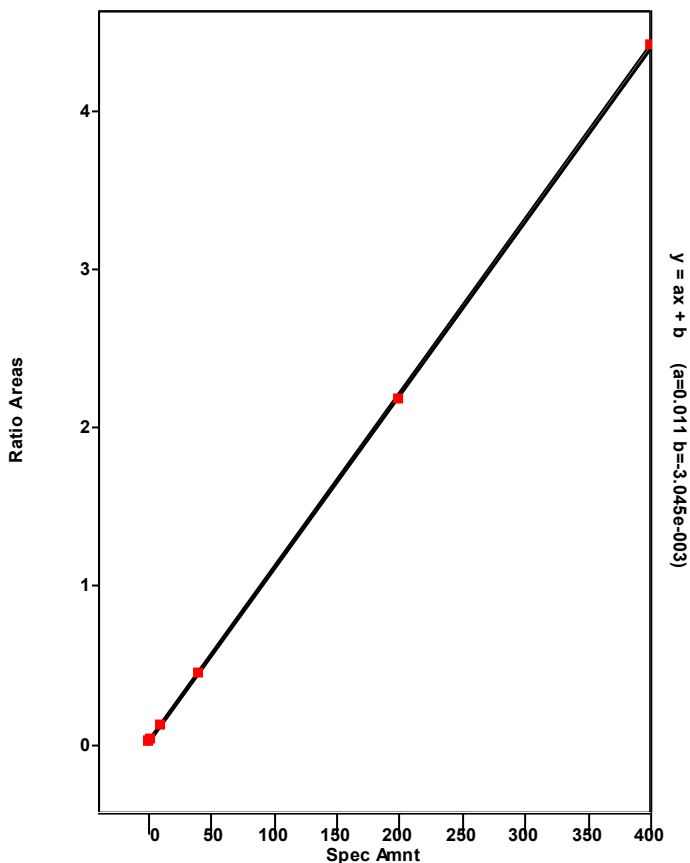
RT: 28.21 - 36.46 SM: 7G



Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

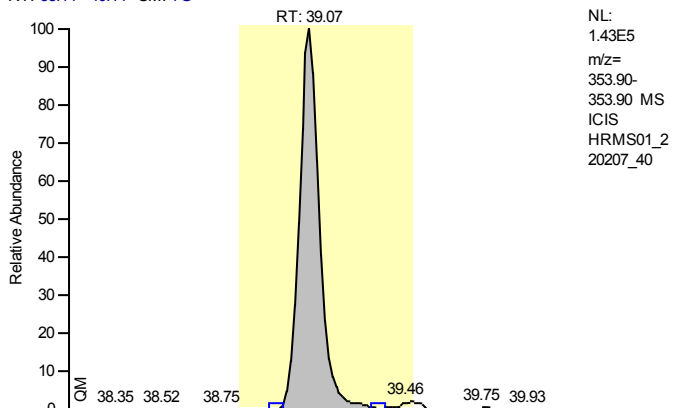
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

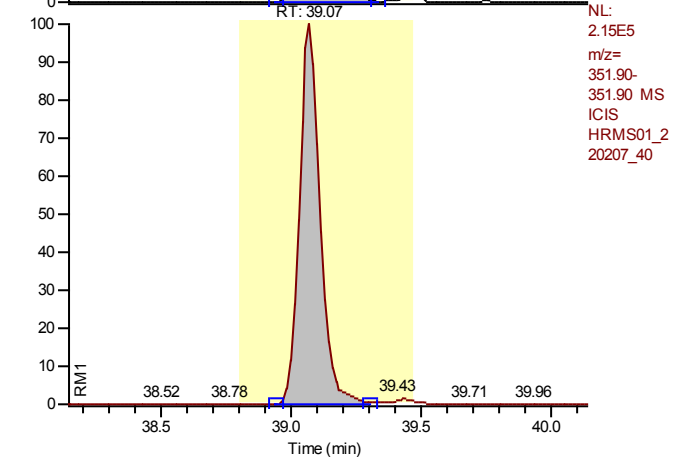
Entry Parameters

RT: 38.14 - 40.14 SM: 7G



NL:
 1.43E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_40

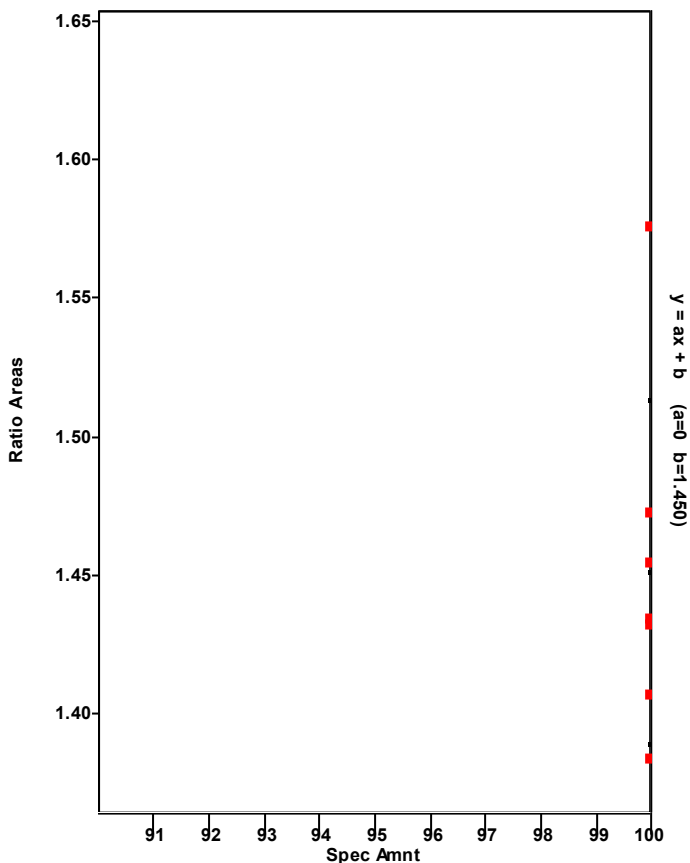
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	781589
RM1 Area	1199037
RM1 Ratio (A)	1.5341
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	55.60
Percent Recovery (A)	56
TEQ (A)	0.0000
Label2	



NL:
 2.15E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

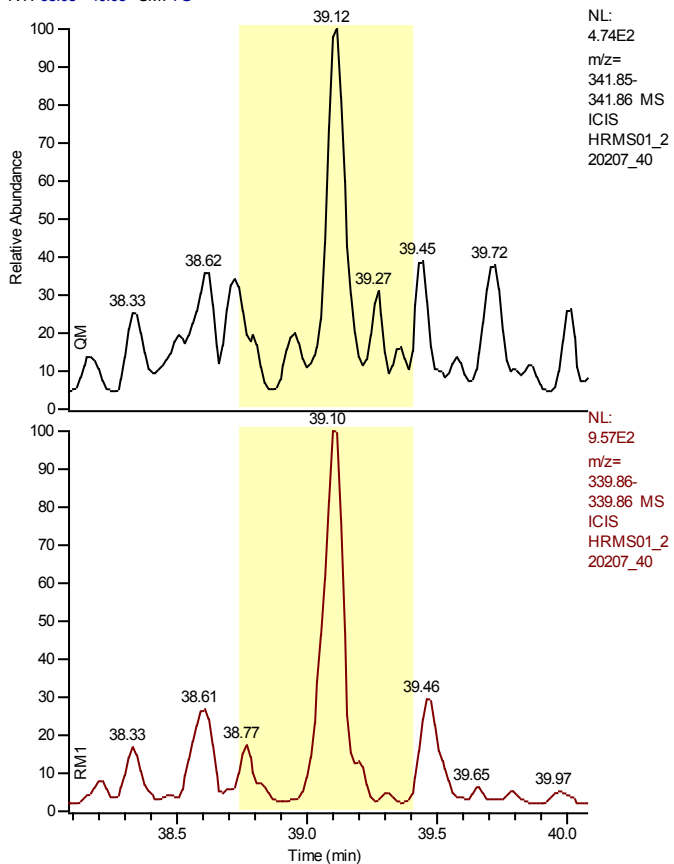
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

Entry Parameters

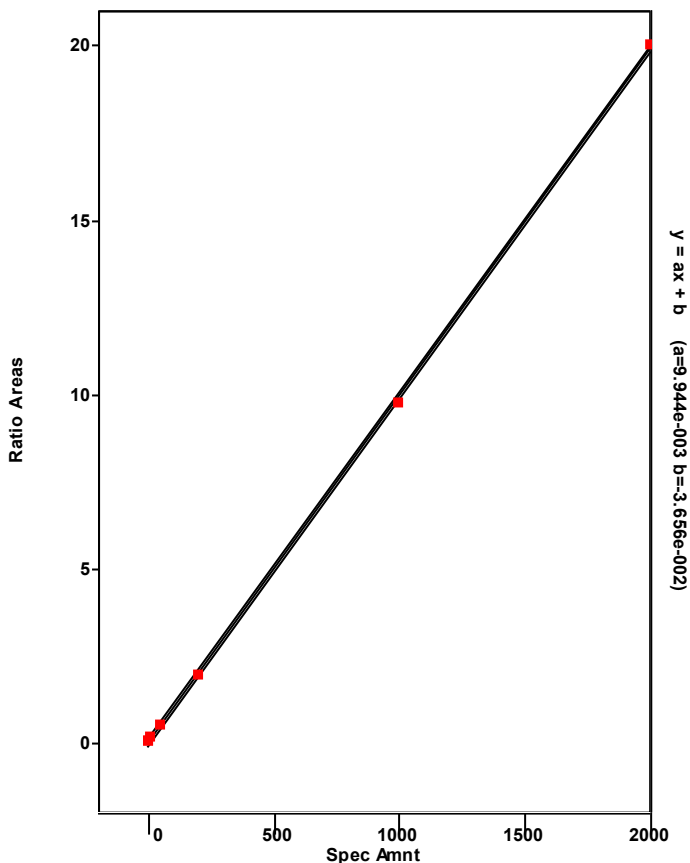
RT: 38.08 - 40.08 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

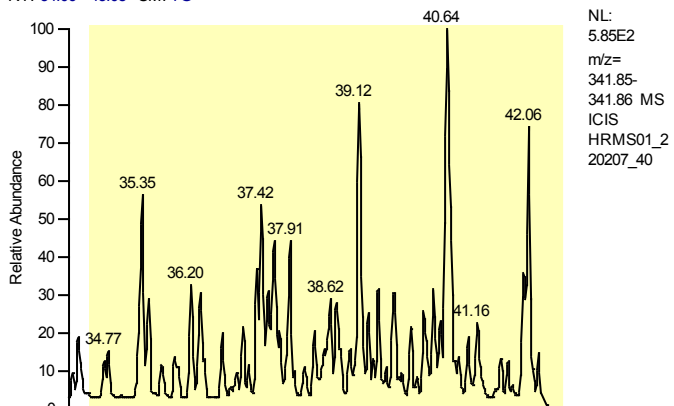
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



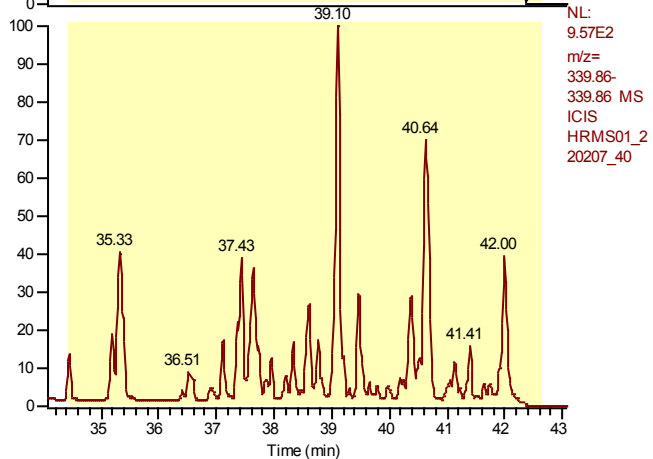
Chromatogram

Entry Parameters

RT: 34.06 - 43.08 SM: 7G

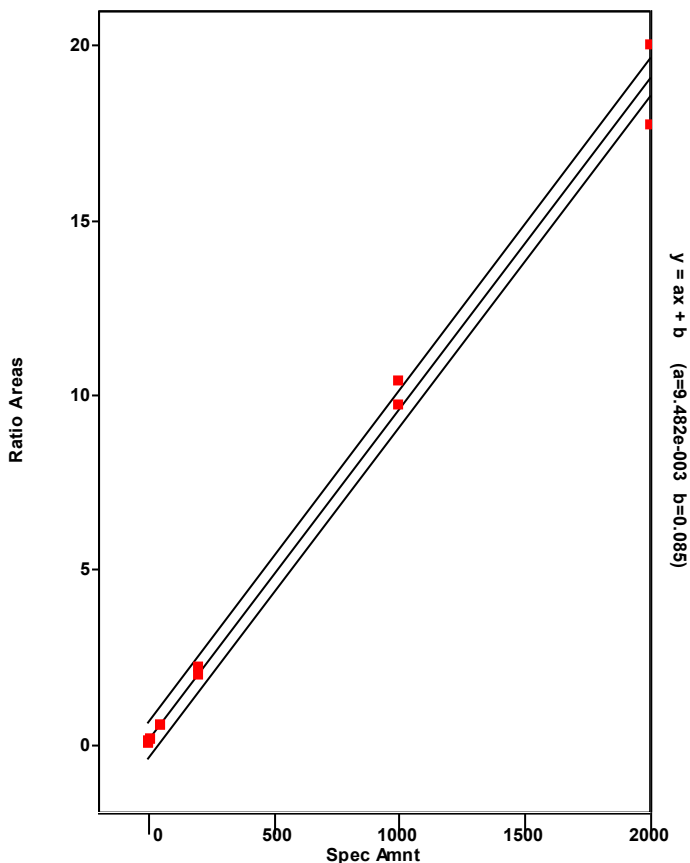


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Calibration Points of Total Pentachlorodibenzofuran

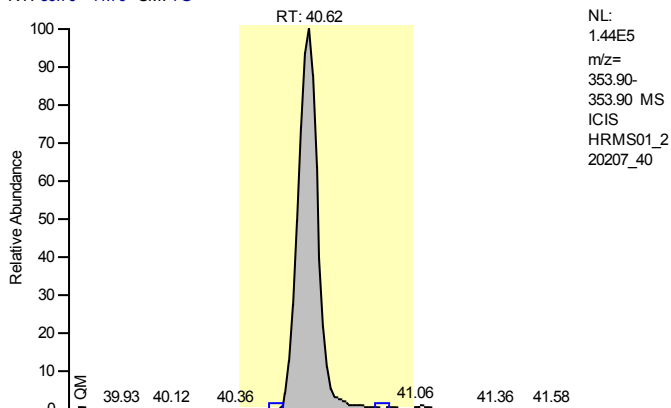
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

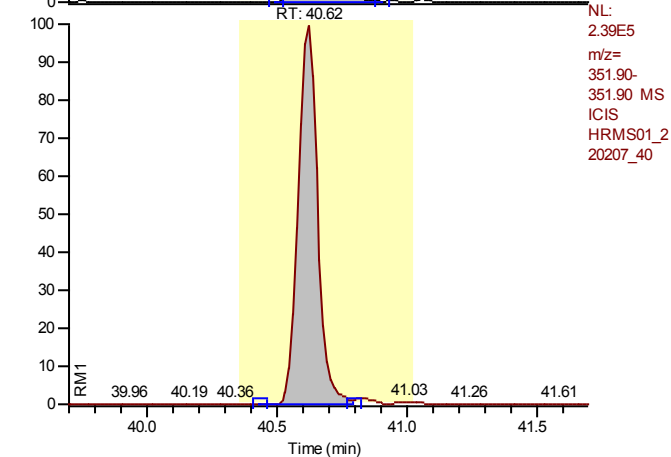
Entry Parameters

RT: 39.70 - 41.70 SM: 7G



NL:
1.44E5
m/z=
353.90-
353.90 MS
ICIS
HRMS01_2
20207_40

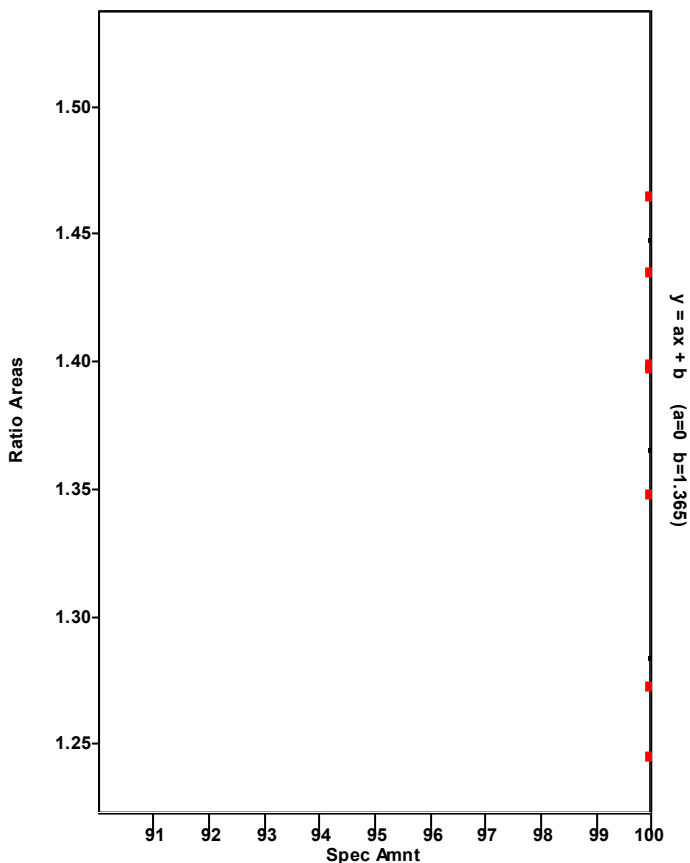
Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	770382
RM1 Area	1229094
RM1 Ratio (A)	1.5954
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	59.65
Percent Recovery (A)	60
TEQ (A)	0.0000
Label2	



NL:
2.39E5
m/z=
351.90-
351.90 MS
ICIS
HRMS01_2
20207_40

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

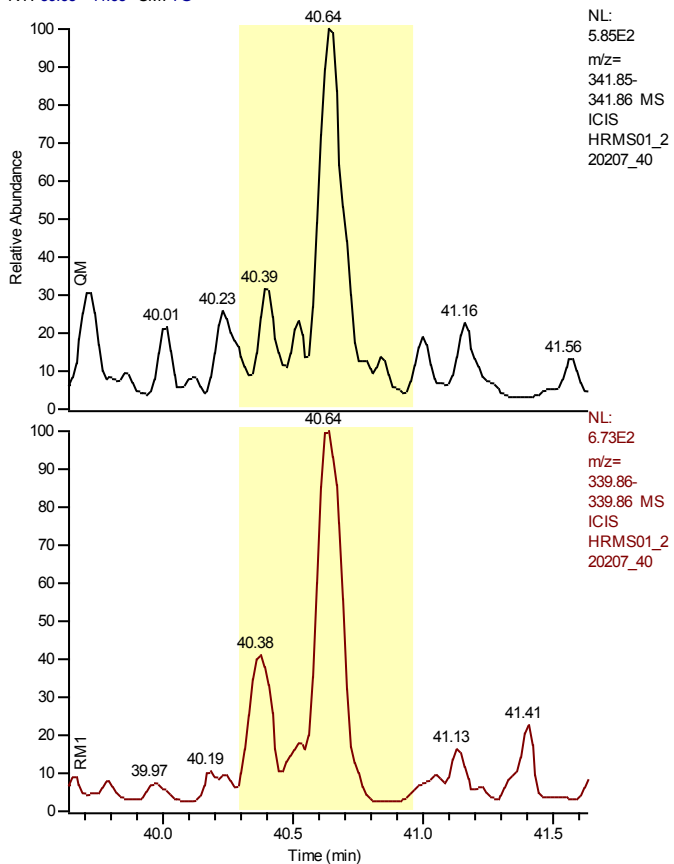
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

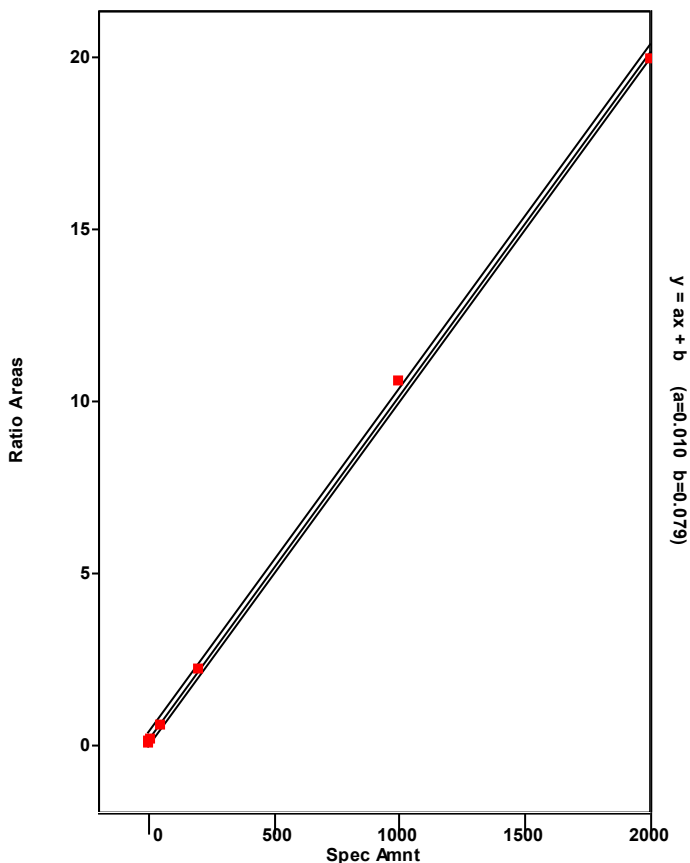
RT: 39.63 - 41.63 SM: 7G



Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

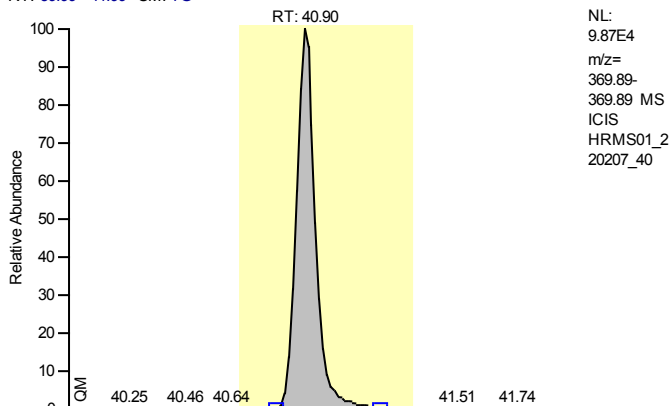
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



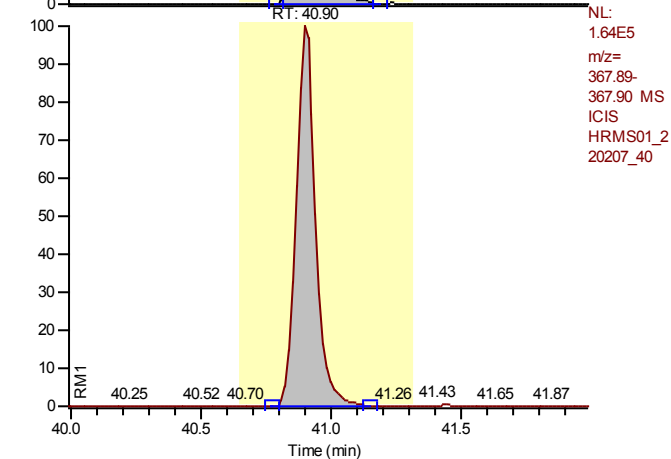
Chromatogram

Entry Parameters

RT: 39.99 - 41.99 SM: 7G

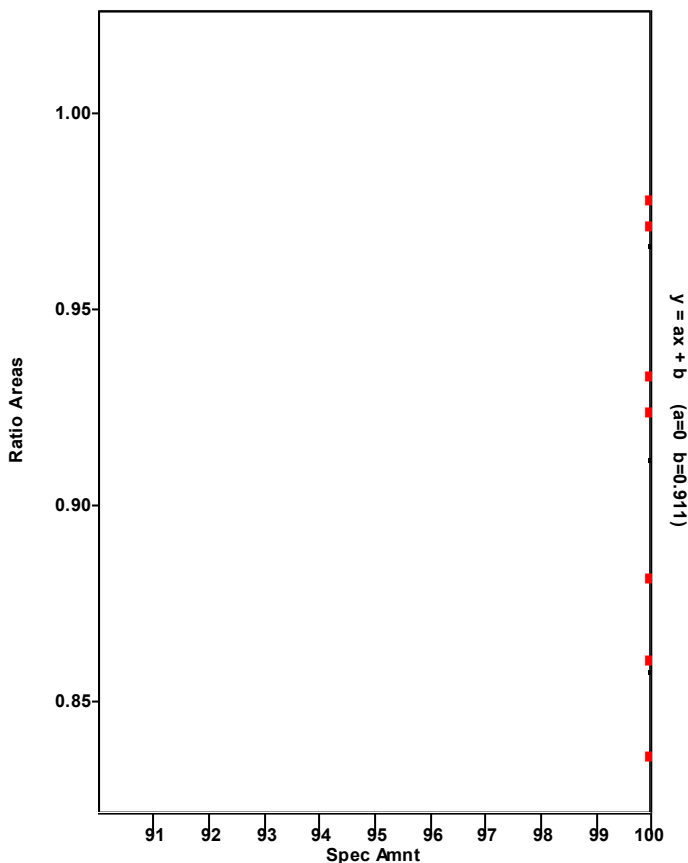


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	512523
RM1 Area	858458
RM1 Ratio (A)	1.6750
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	61.25
Percent Recovery (A)	61
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

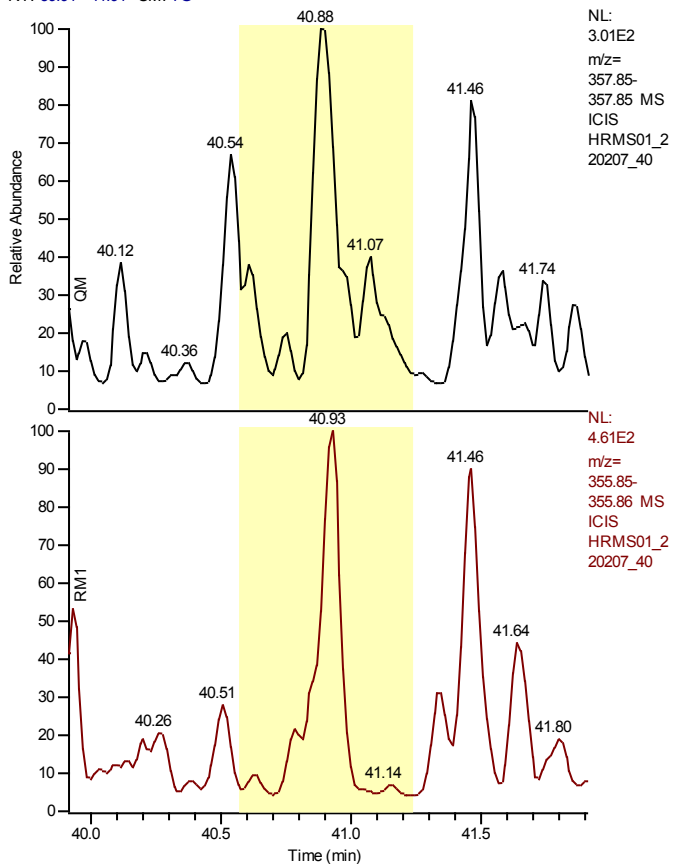
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

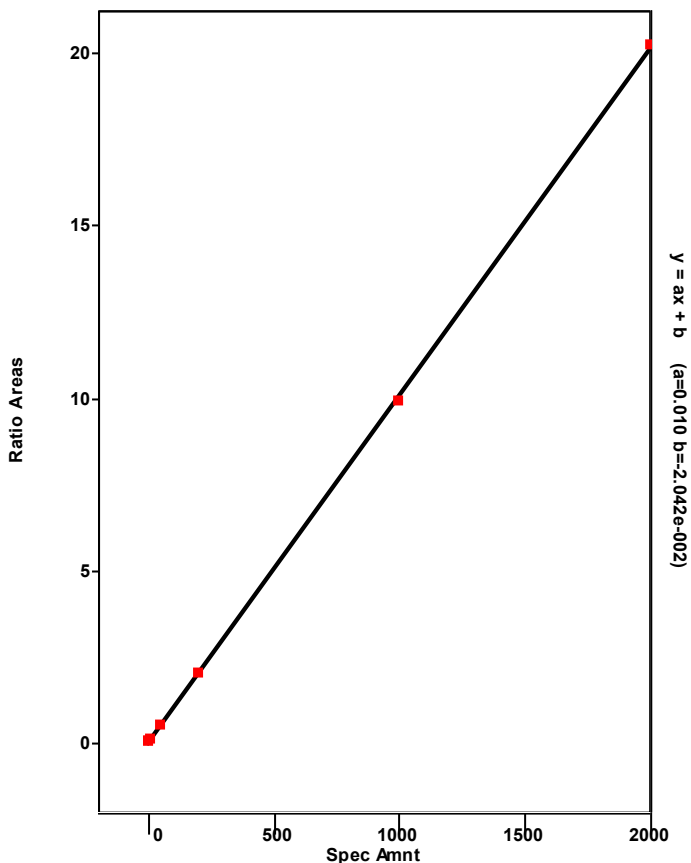
RT: 39.91 - 41.91 SM: 7G



Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

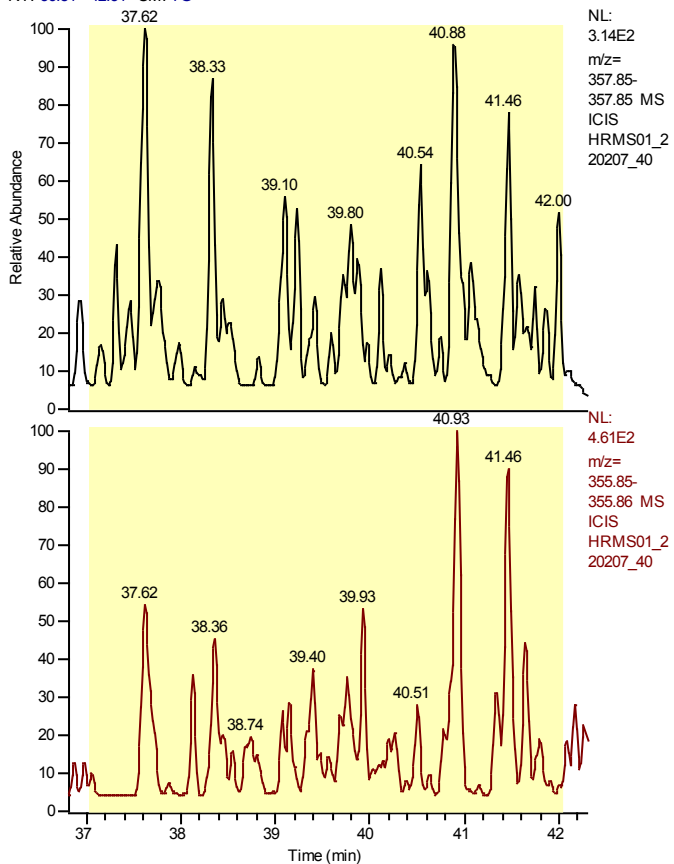
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.81 - 42.31 SM: 7G



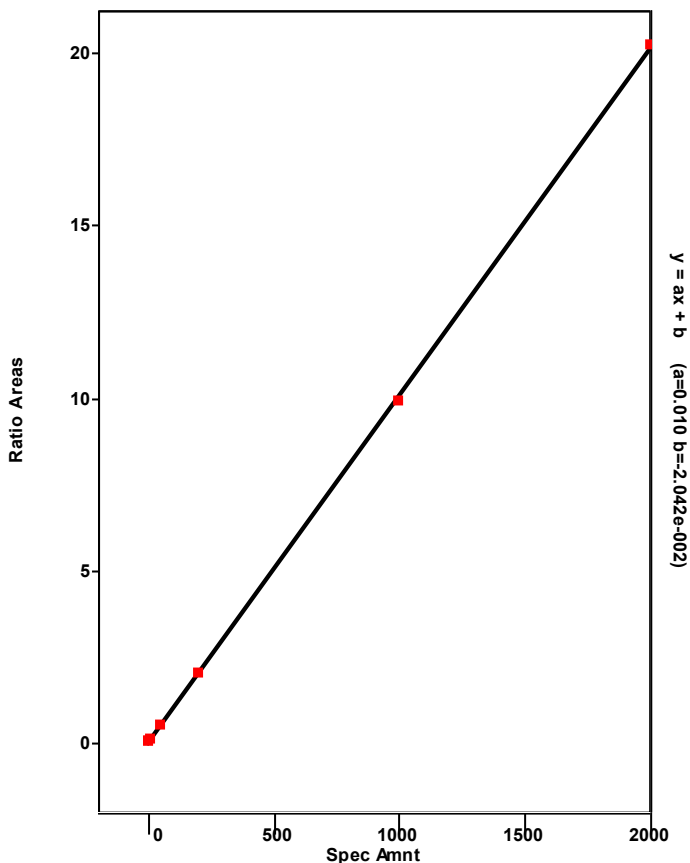
NL:
 3.14E2
 m/z=
 357.85-
 357.85 MS
 ICIS
 HRMS01_2
 20207_40

NL:
 4.61E2
 m/z=
 355.85-
 355.86 MS
 ICIS
 HRMS01_2
 20207_40

Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Pentachlorodibenzo-p-dioxin

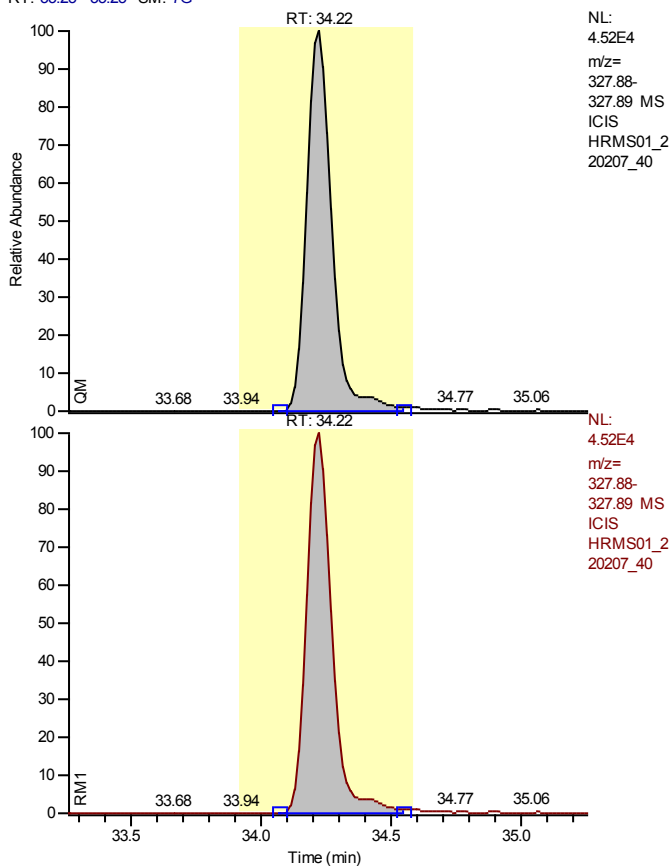
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.25 - 35.25 SM: 7G



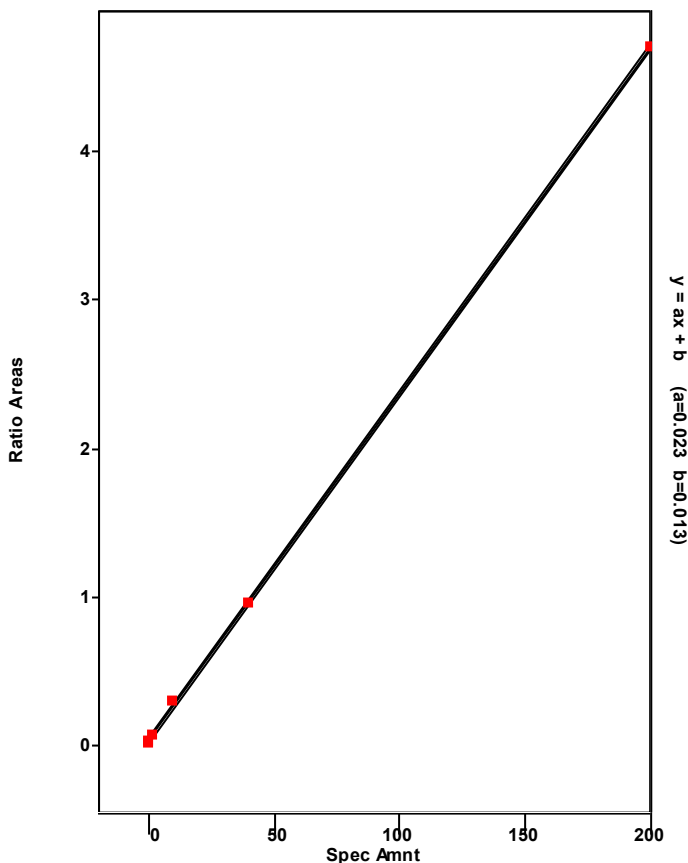
NL:
 4.52E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_40

NL:
 4.52E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_40

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	301518
RM1 Area	301518
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	9.80
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

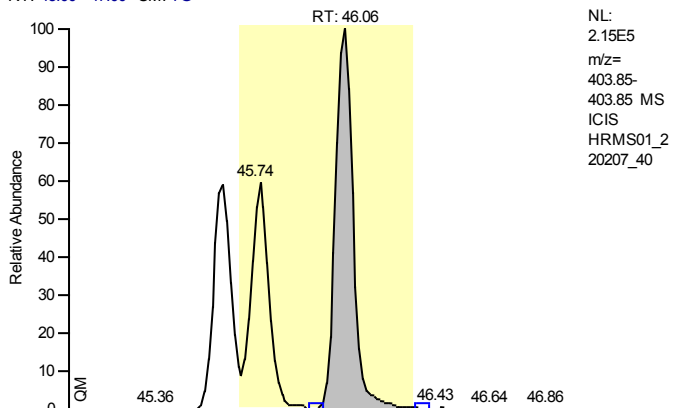
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

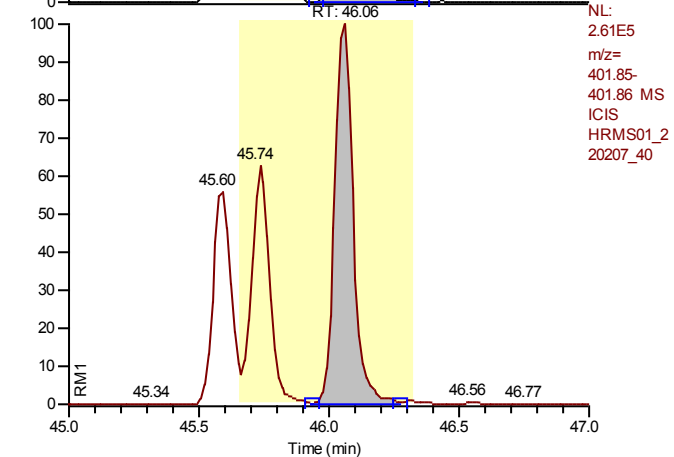
Entry Parameters

RT: 45.00 - 47.00 SM: 7G



NL:
 2.15E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_40

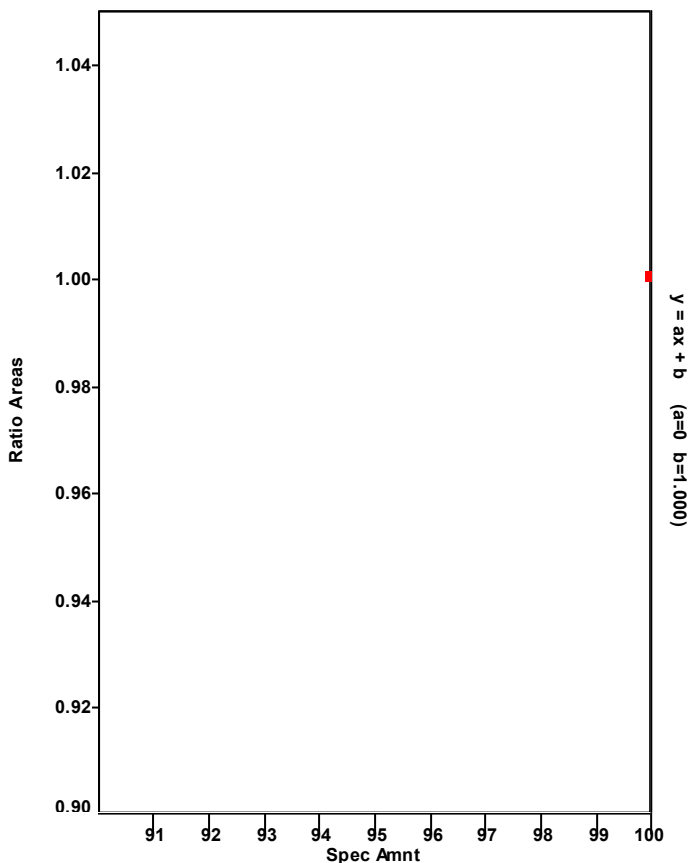
Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	1018108
RM1 Area	1289674
RM1 Ratio (A)	1.2667
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	



NL:
 2.61E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

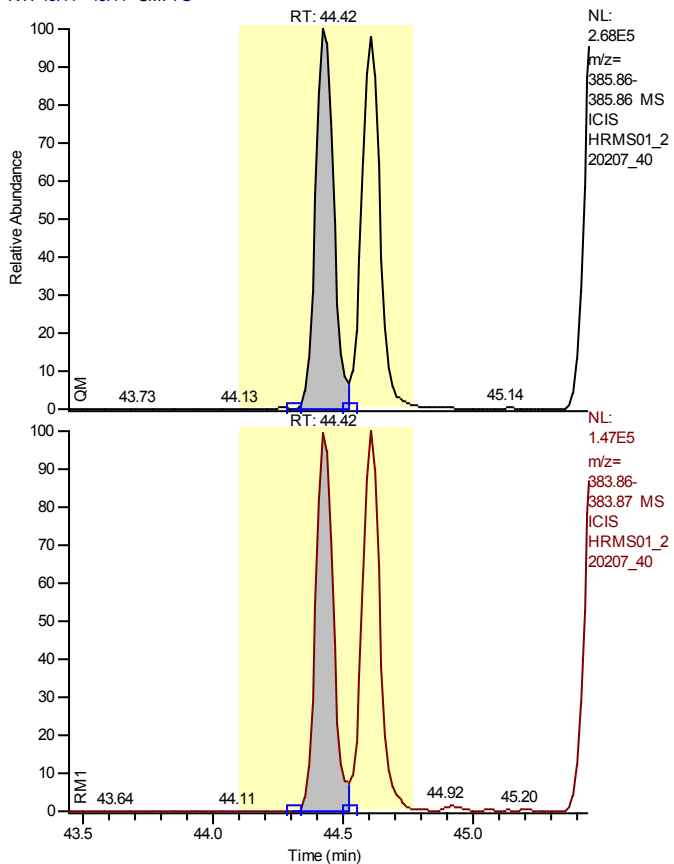
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

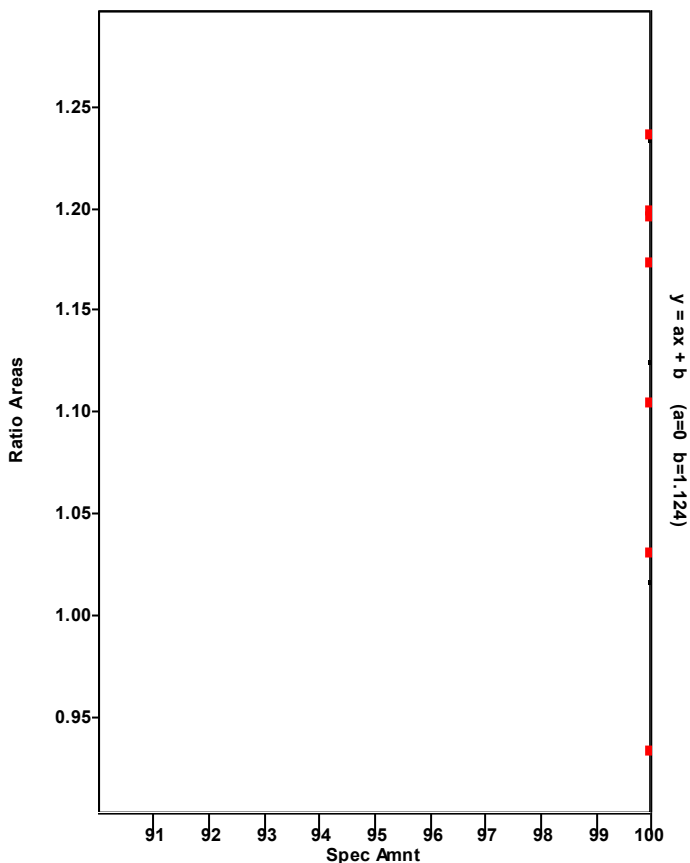
RT: 43.44 - 45.44 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1290737
RM1 Area	677567
RM1 Ratio (A)	0.5249
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	75.91
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

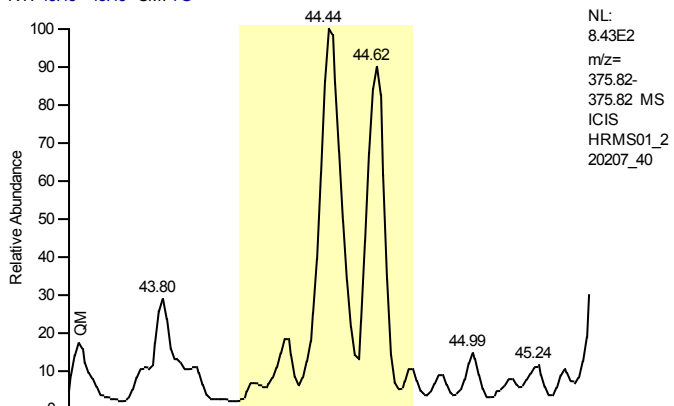
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



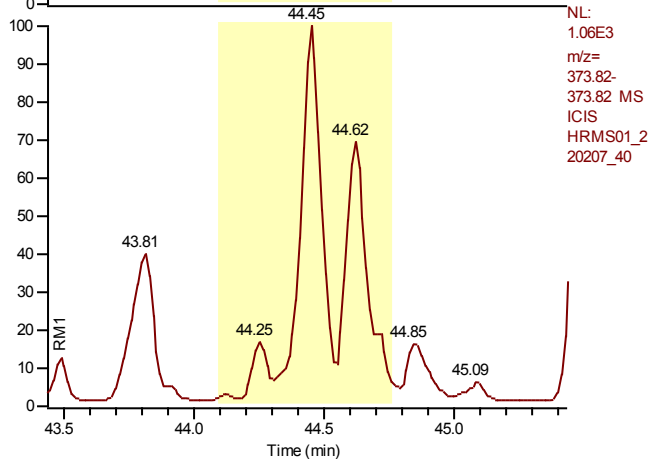
Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G

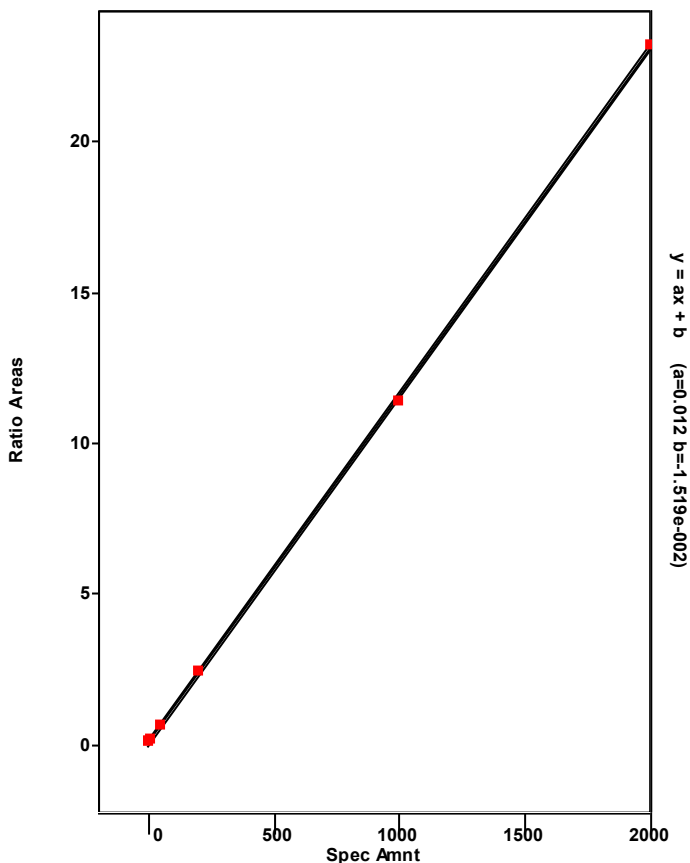


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

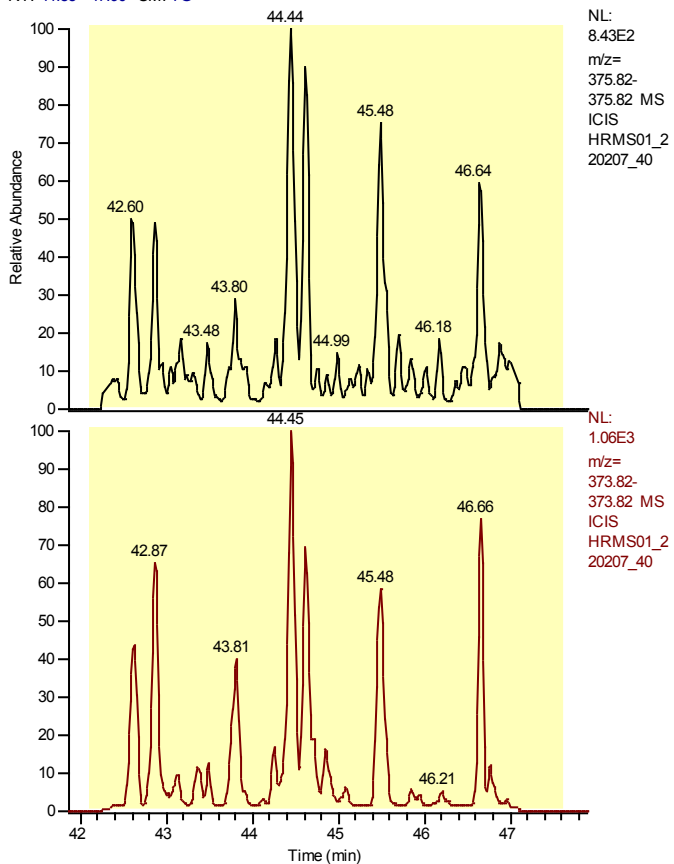
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.85 - 47.90 SM: 7G



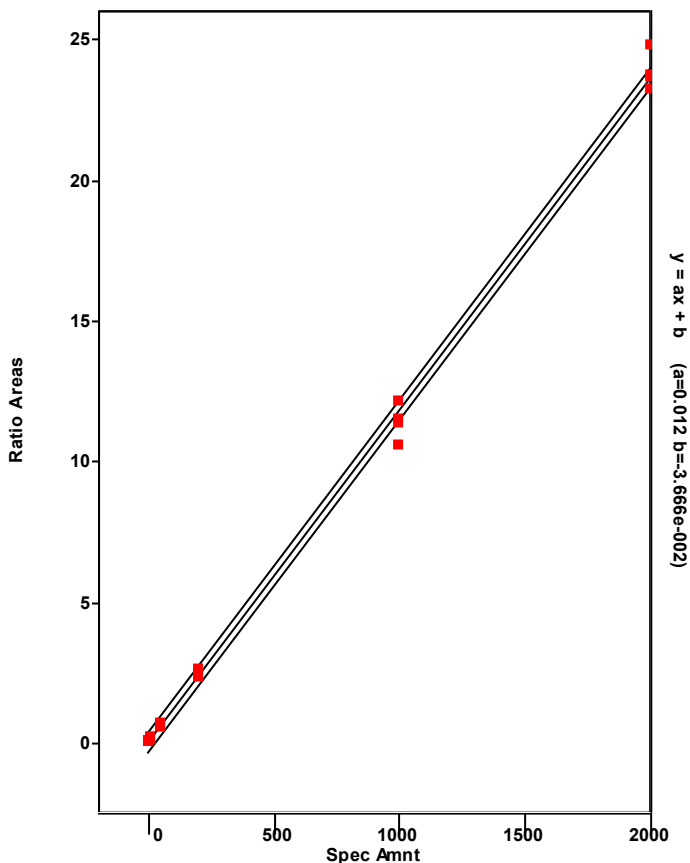
NL:
8.43E2
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20207_40

NL:
1.06E3
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20207_40

Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Hexachlorodibenzofuran

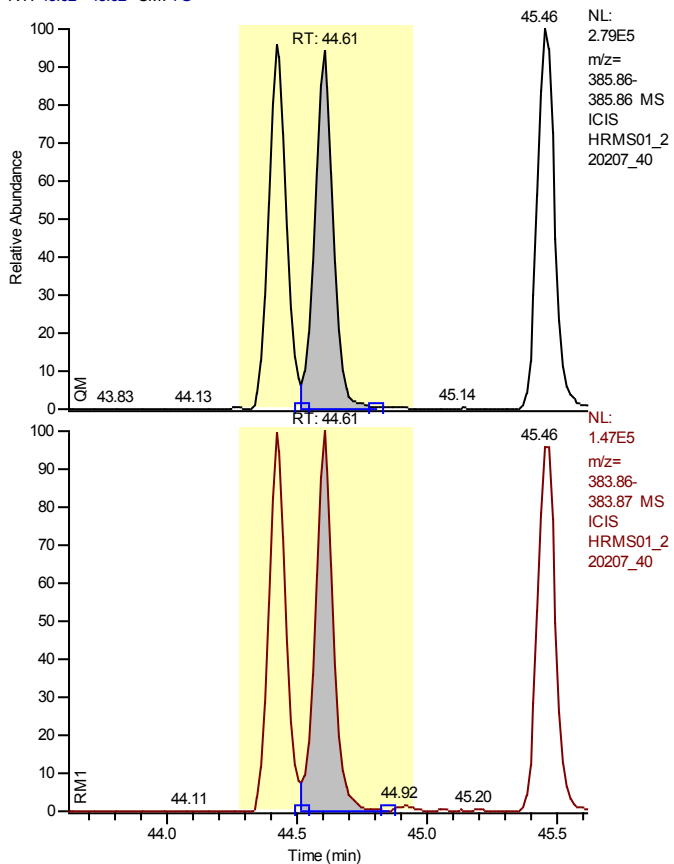
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

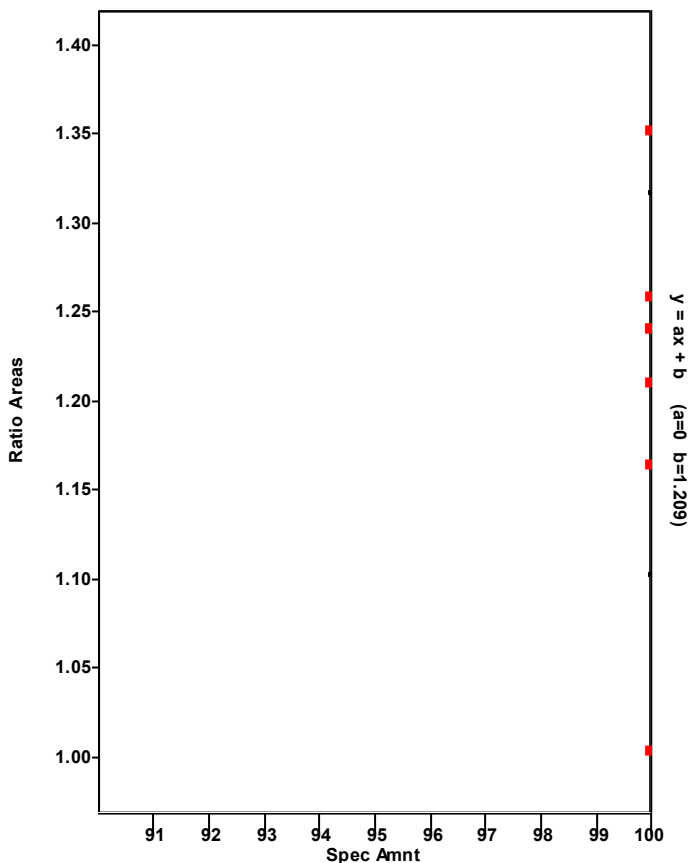
RT: 43.62 - 45.62 SM: 7G



Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1297699
RM1 Area	705109
RM1 Ratio (A)	0.5434
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	71.81
Percent Recovery (A)	72
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

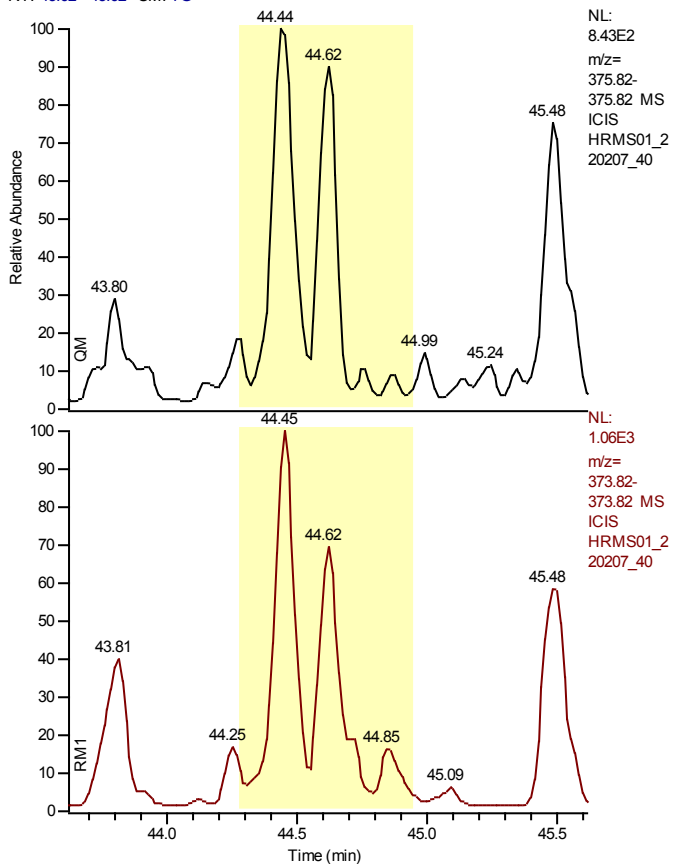
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

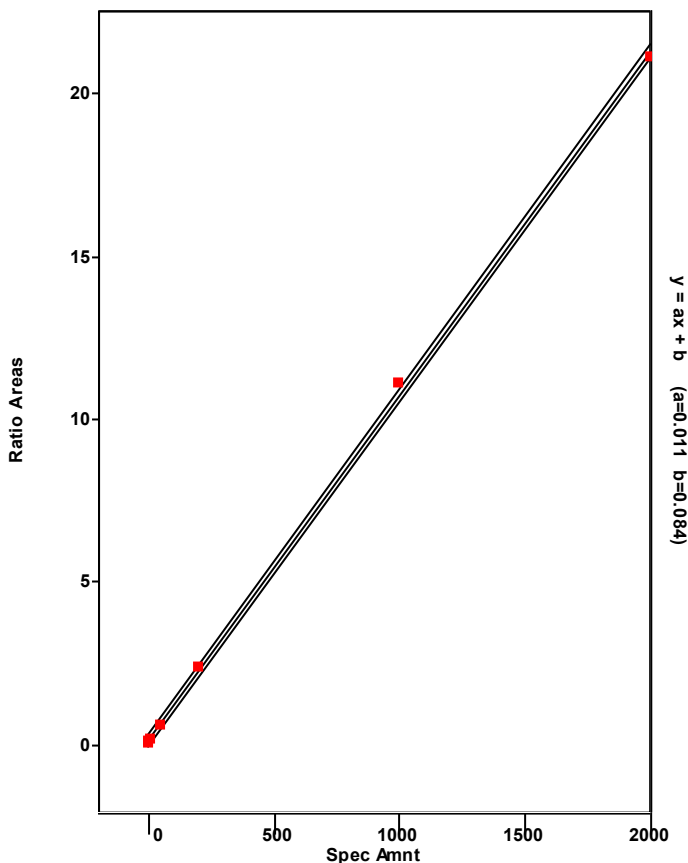
RT: 43.62 - 45.62 SM: 7G



Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

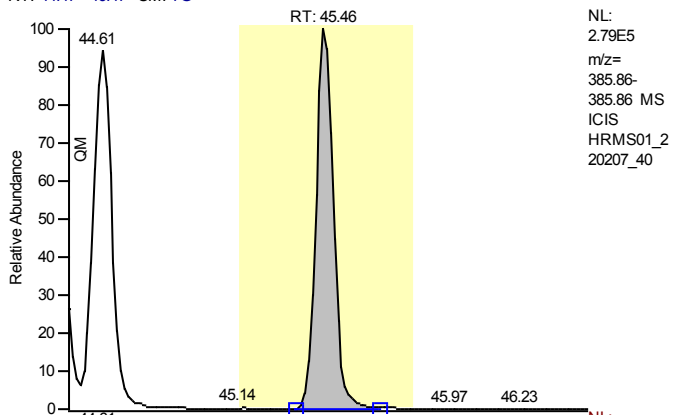
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

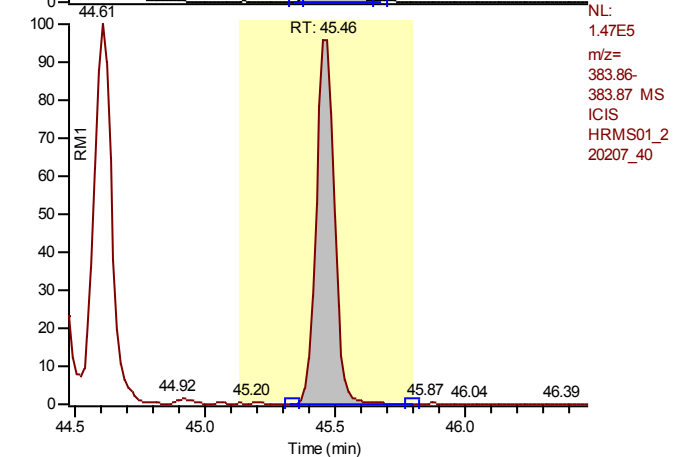
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
 2.79E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_40

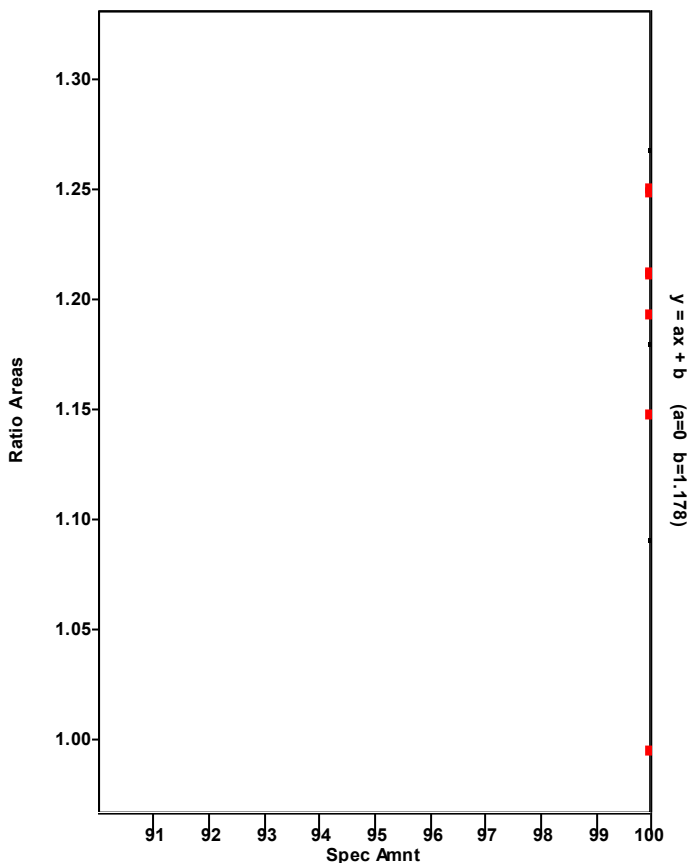
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1316406
RM1 Area	693778
RM1 Ratio (A)	0.5270
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	73.95
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	



NL:
 1.47E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

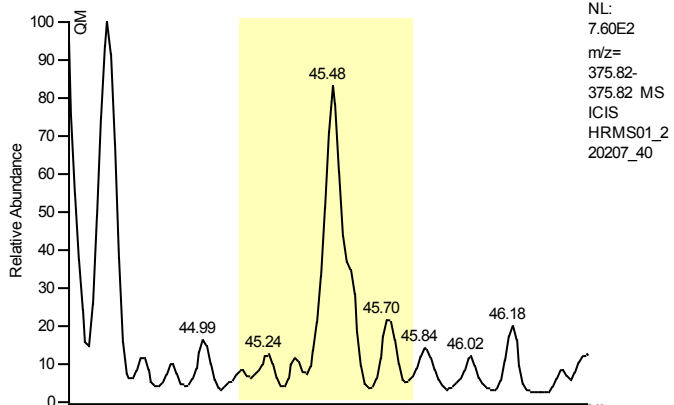
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



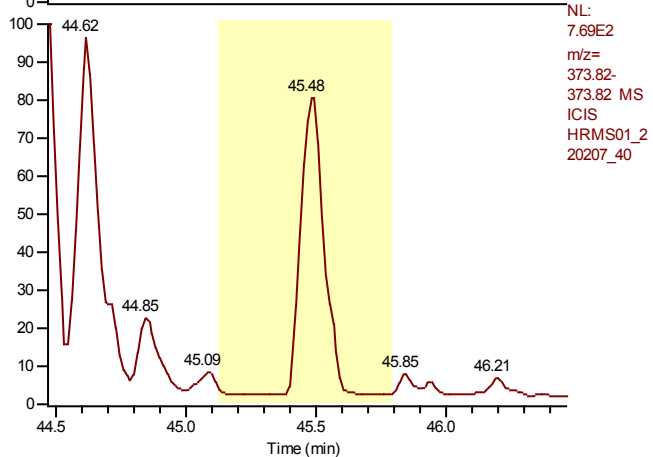
Chromatogram

Entry Parameters

RT: 44.47 - 46.47 SM: 7G

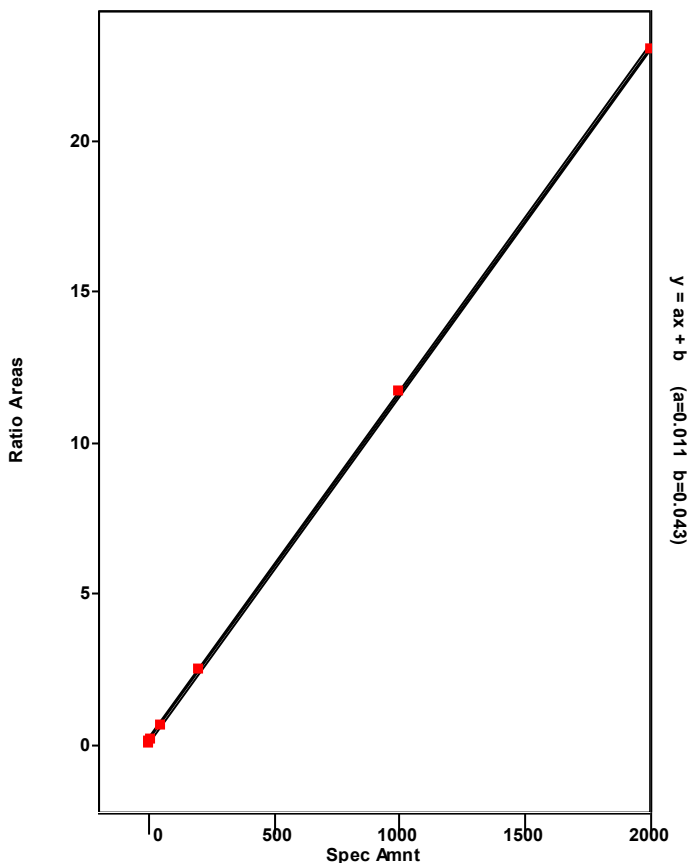


Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

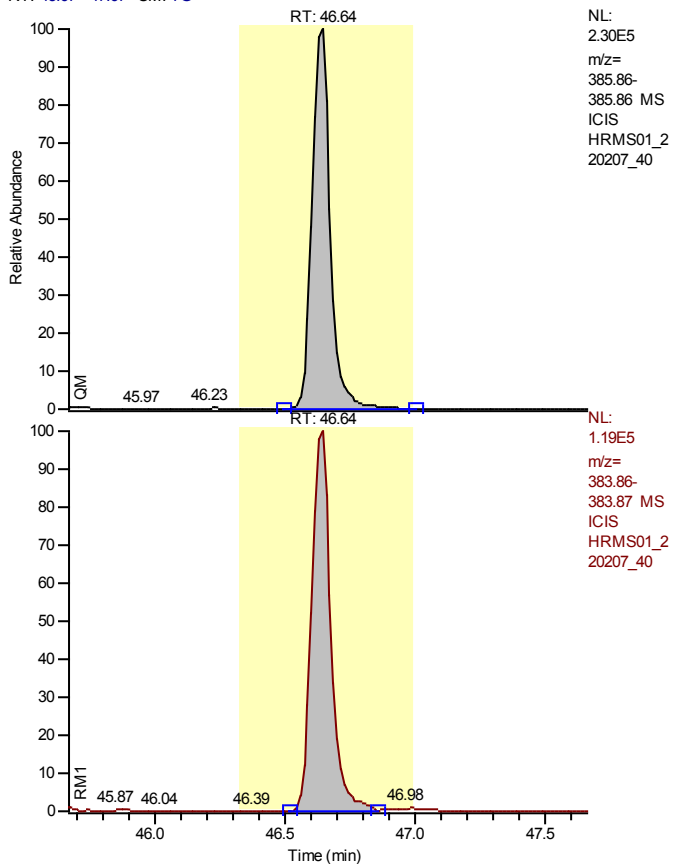
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

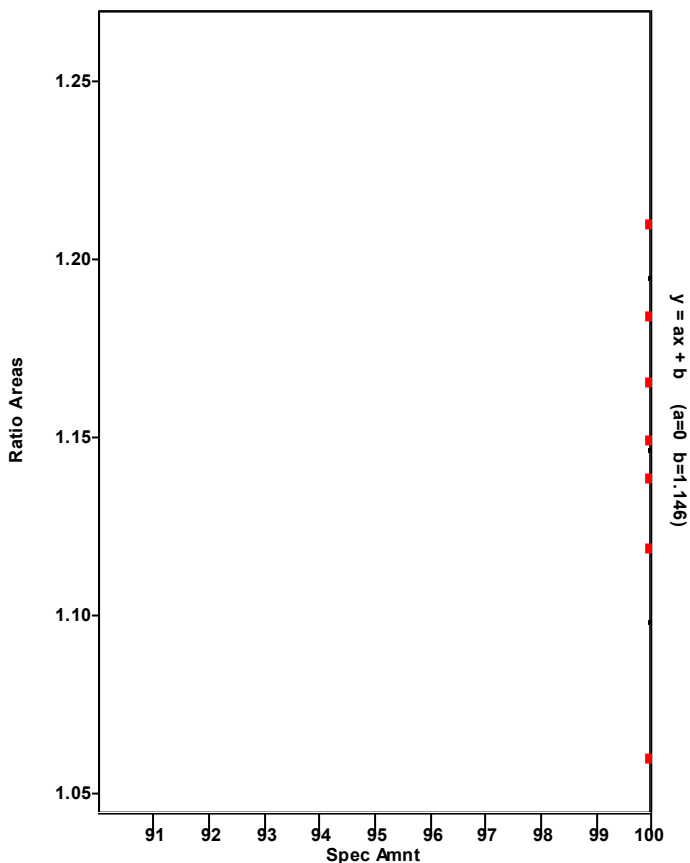
RT: 45.67 - 47.67 SM: 7G



Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1124168
RM1 Area	616766
RM1 Ratio (A)	0.5486
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	65.84
Percent Recovery (A)	66
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

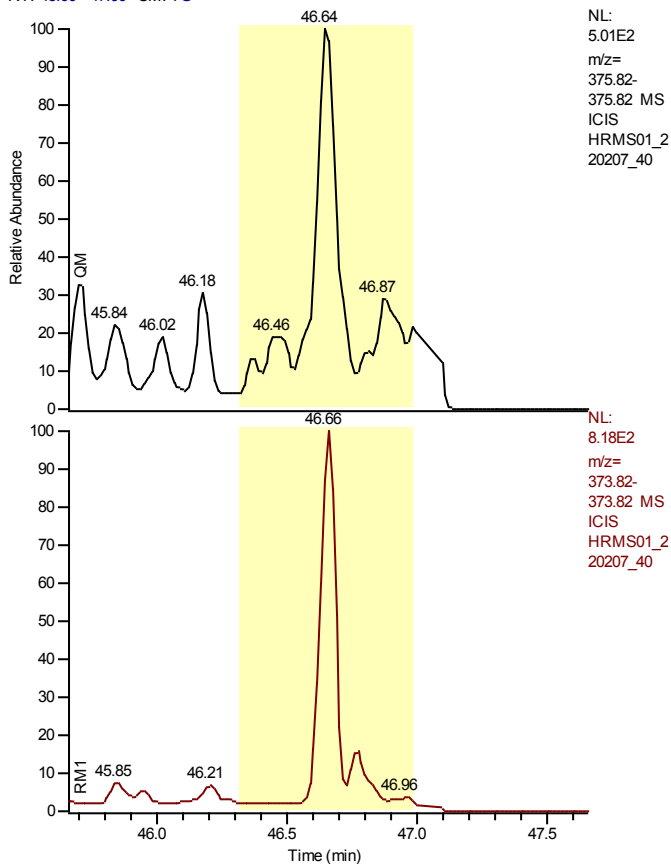
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



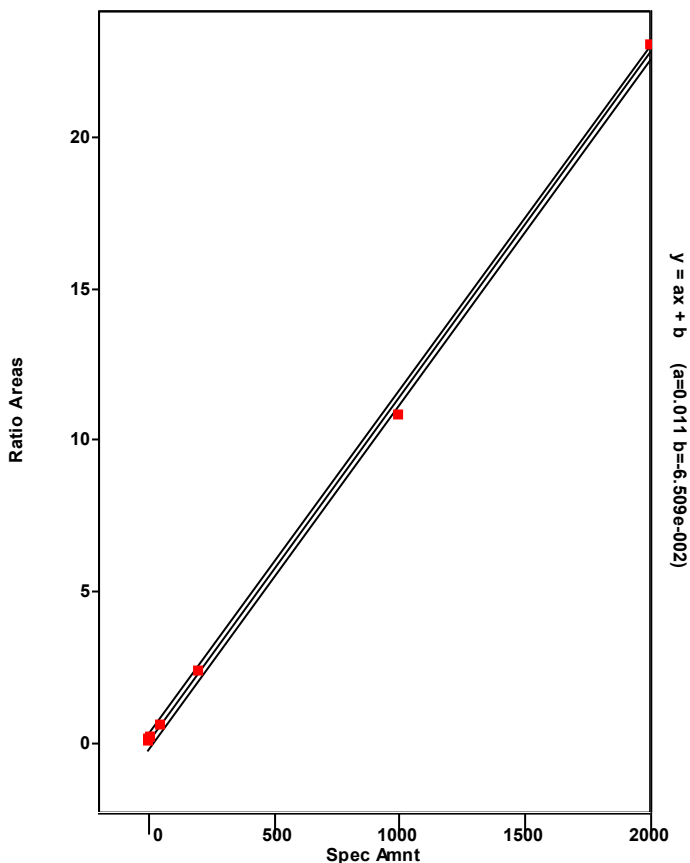
NL:
5.01E2
m/z=
375.82-
375.82 MS
ICIS
HRMS01_2
20207_40

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

NL:
8.18E2
m/z=
373.82-
373.82 MS
ICIS
HRMS01_2
20207_40

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

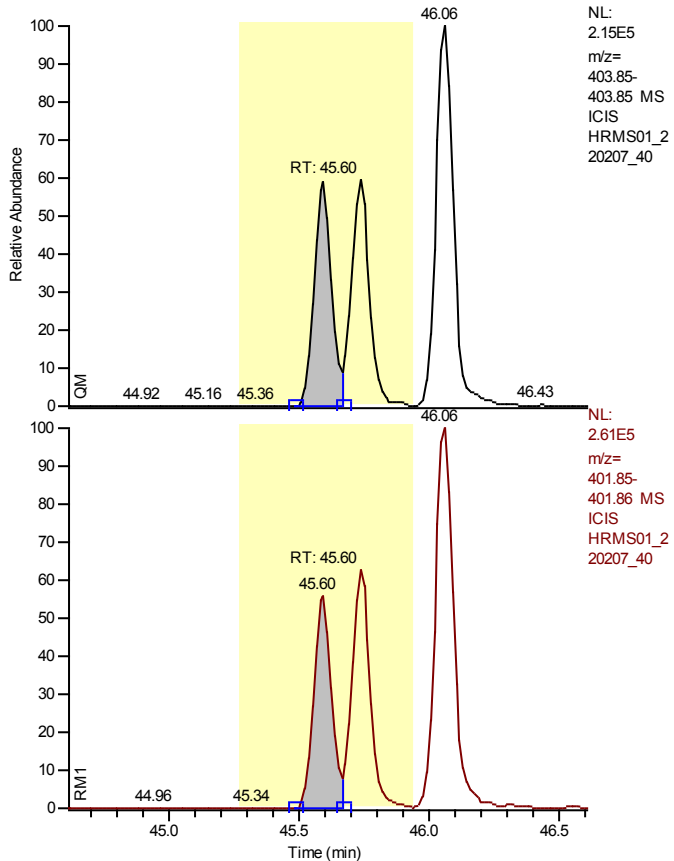
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.61 - 46.61 SM: 7G



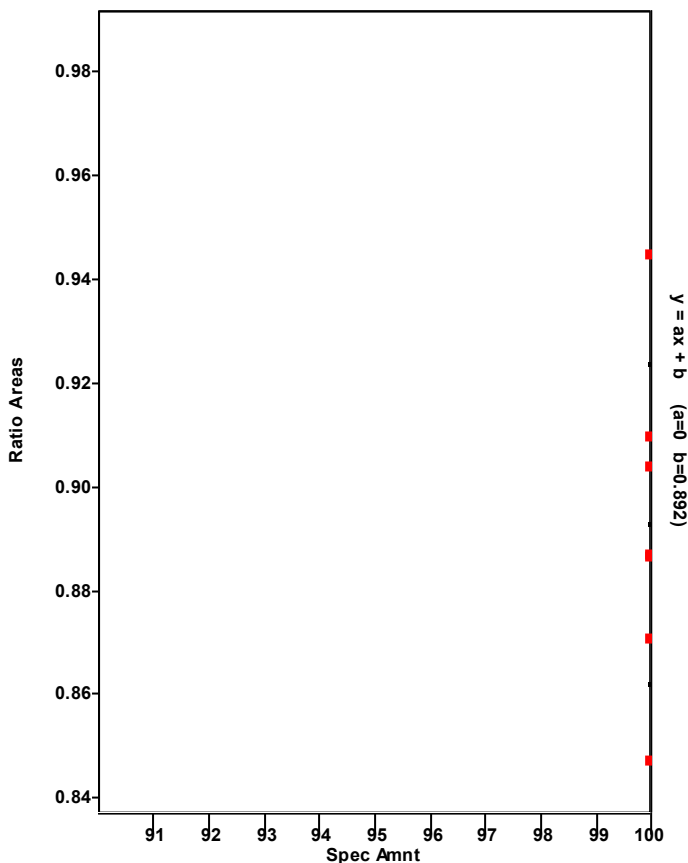
NL:
 2.15E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_40

NL:
 2.61E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_40

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	595851
RM1 Area	693776
RM1 Ratio (A)	1.1643
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	62.62
Percent Recovery (A)	63
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

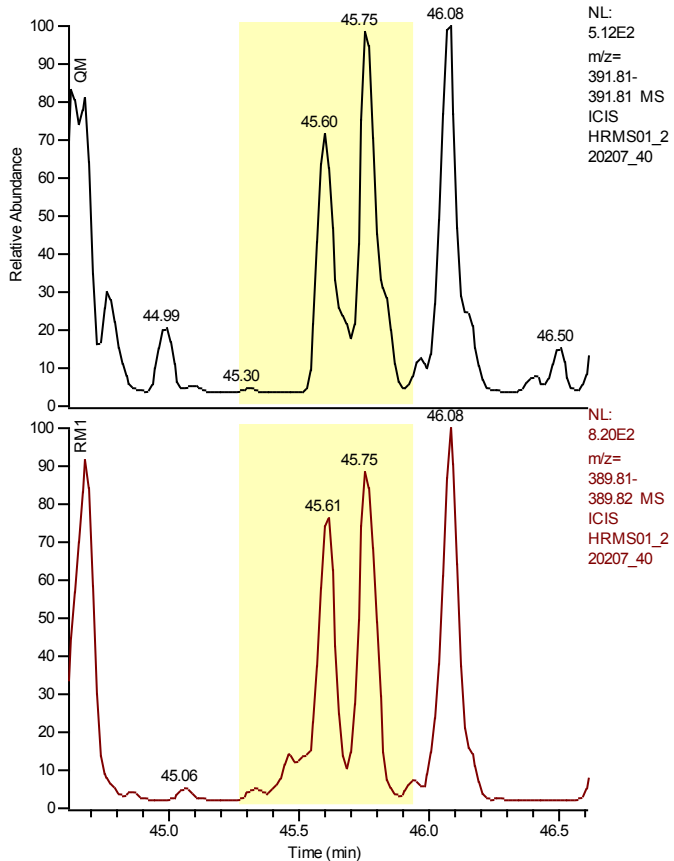
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

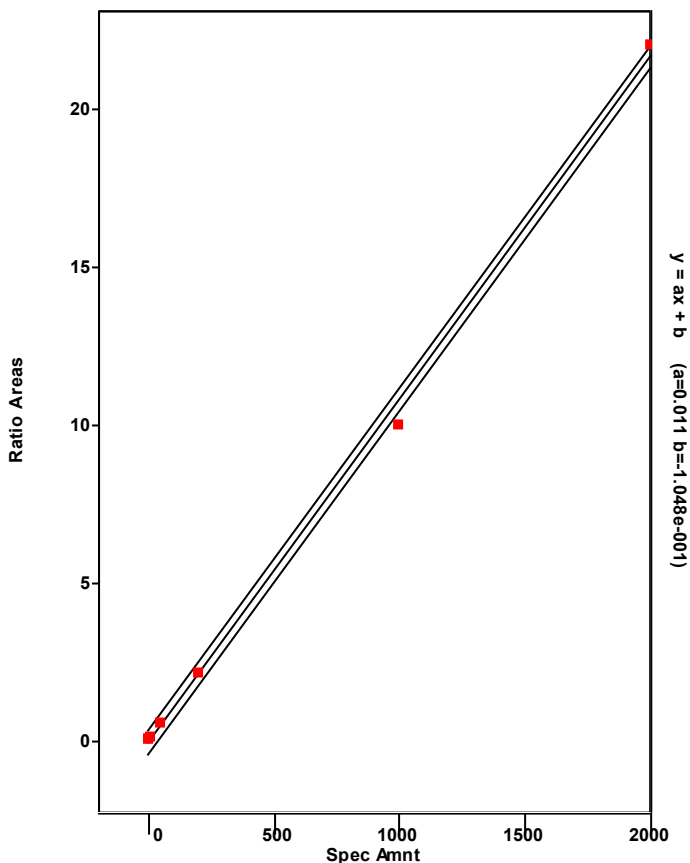
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

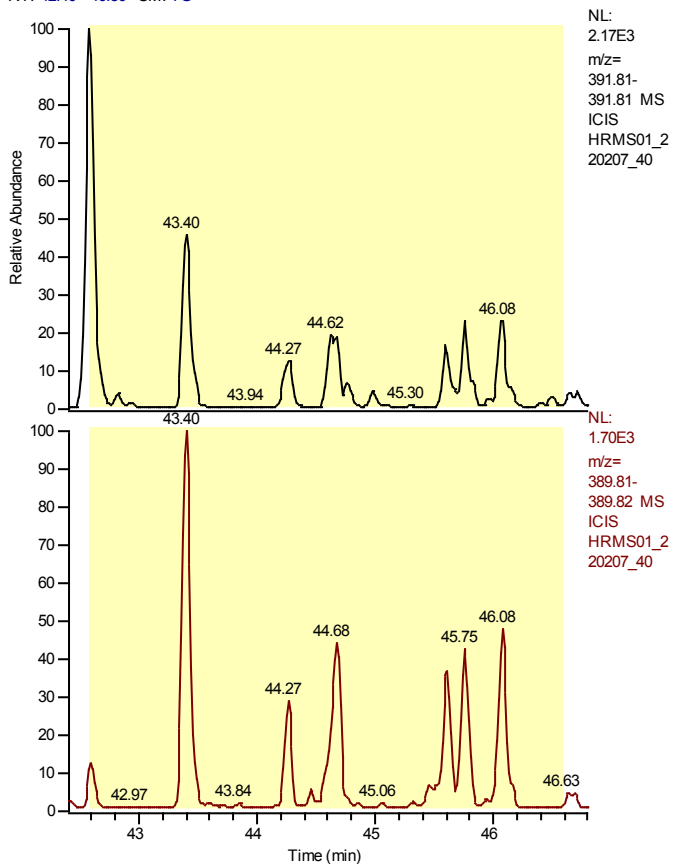
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

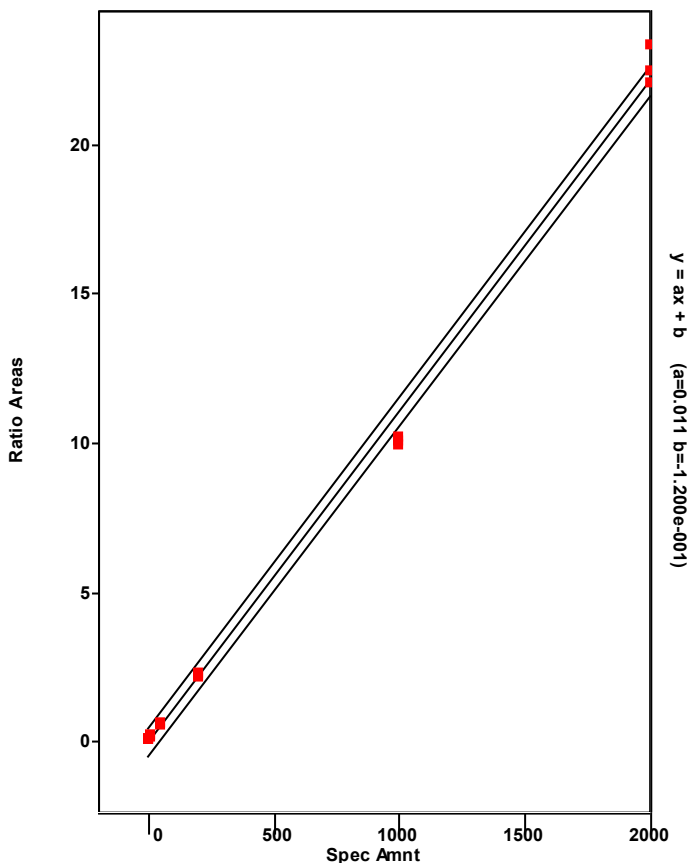
RT: 42.40 - 46.80 SM: 7G



Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Calibration Points of Total Hexachlorodibenzo-p-dioxin

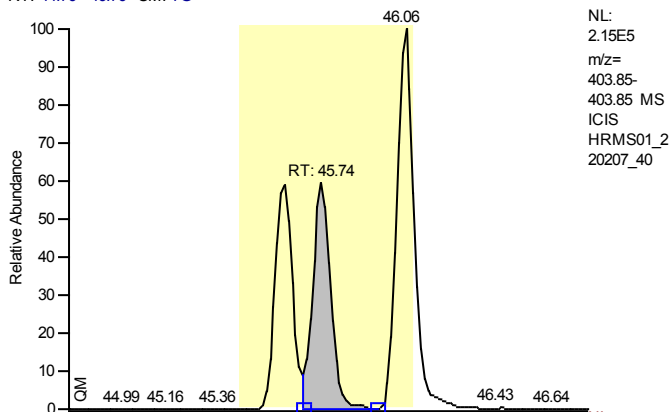
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

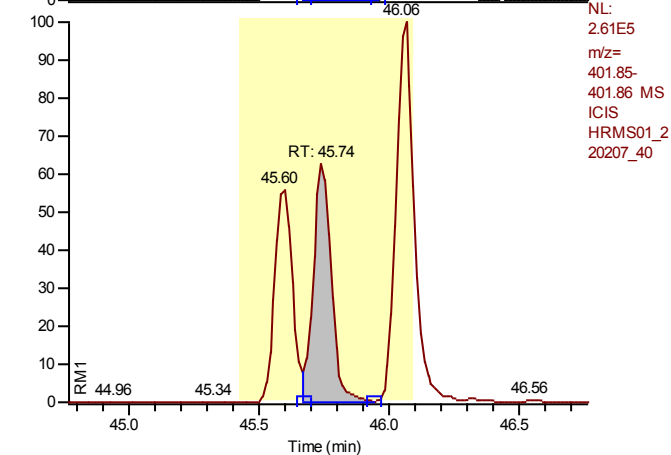
Entry Parameters

RT: 44.76 - 46.76 SM: 7G



NL:
 2.15E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_40

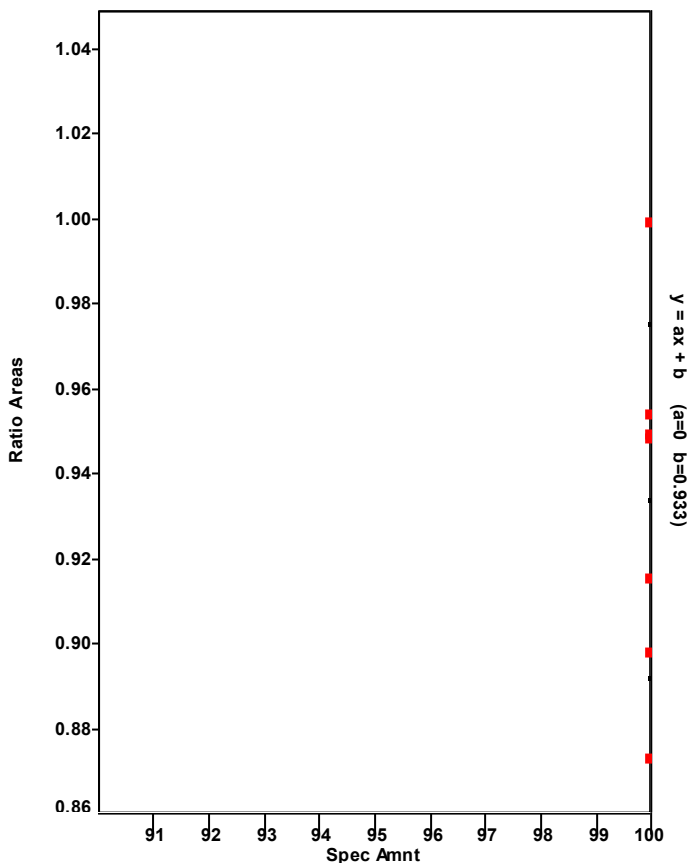
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	624757
RM1 Area	798248
RM1 Ratio (A)	1.2777
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	66.07
Percent Recovery (A)	66
TEQ (A)	0.0000
Label2	



NL:
 2.61E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_40

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

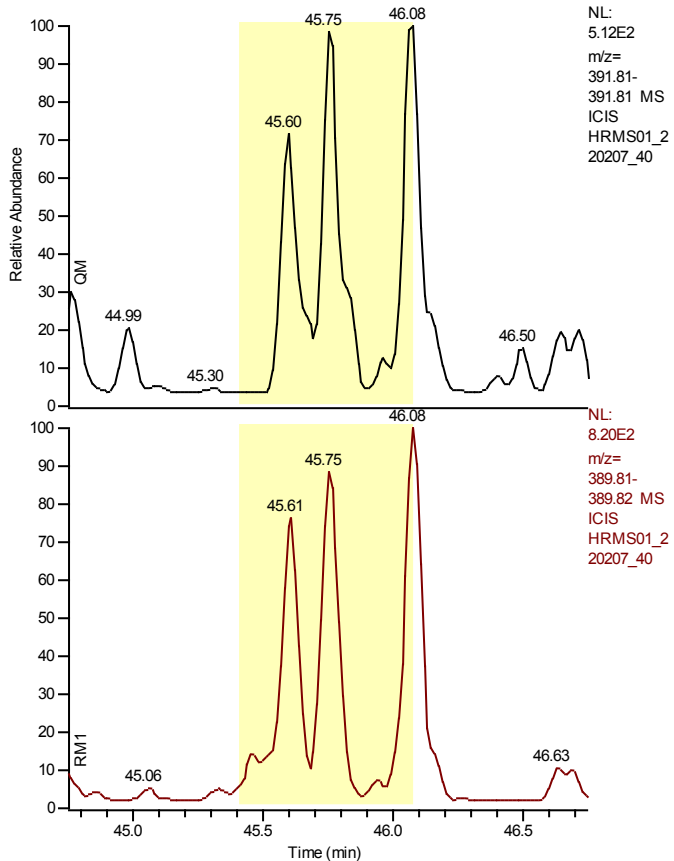
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



Chromatogram

Entry Parameters

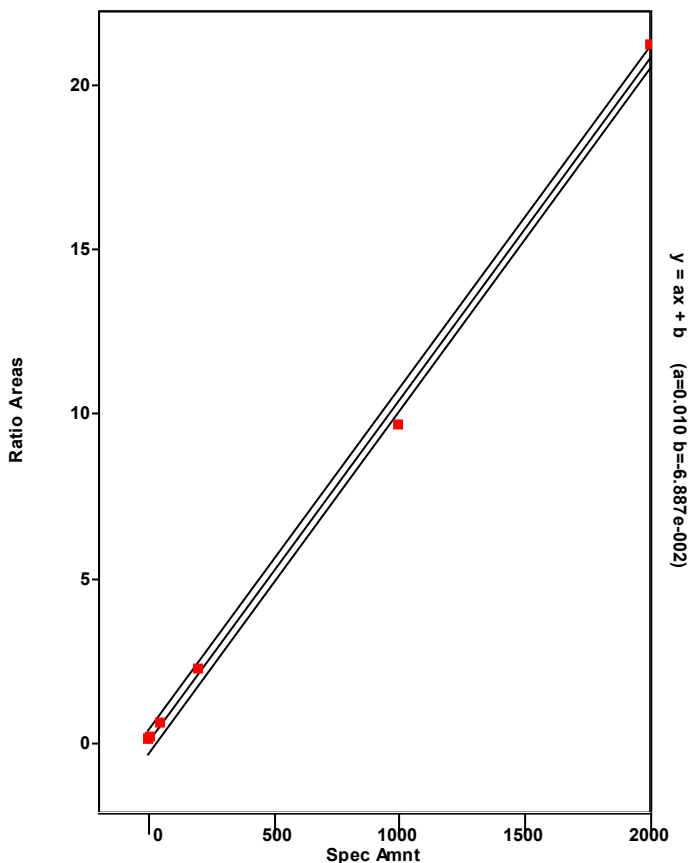
RT: 44.75 - 46.75 SM: 7G



Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

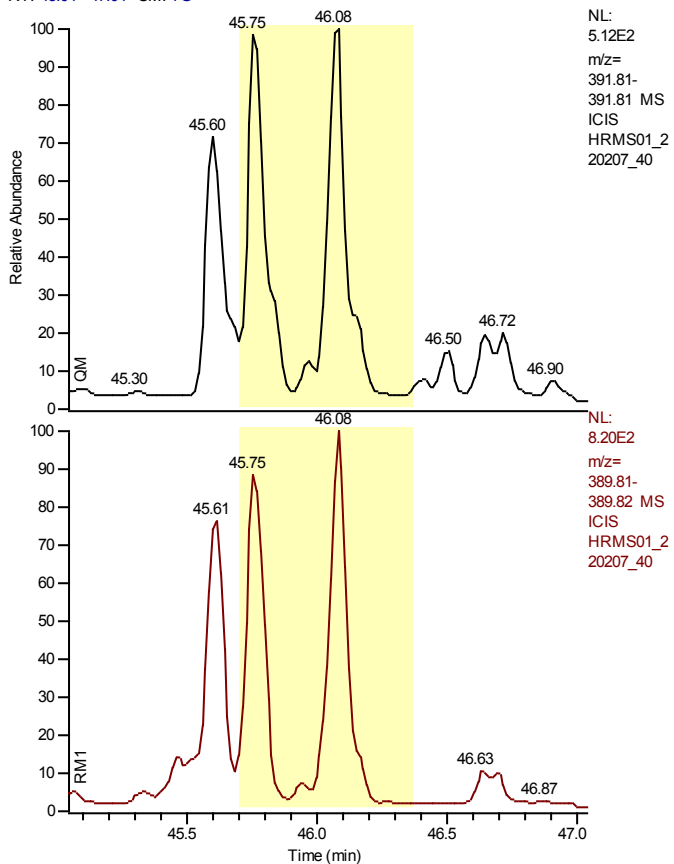
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

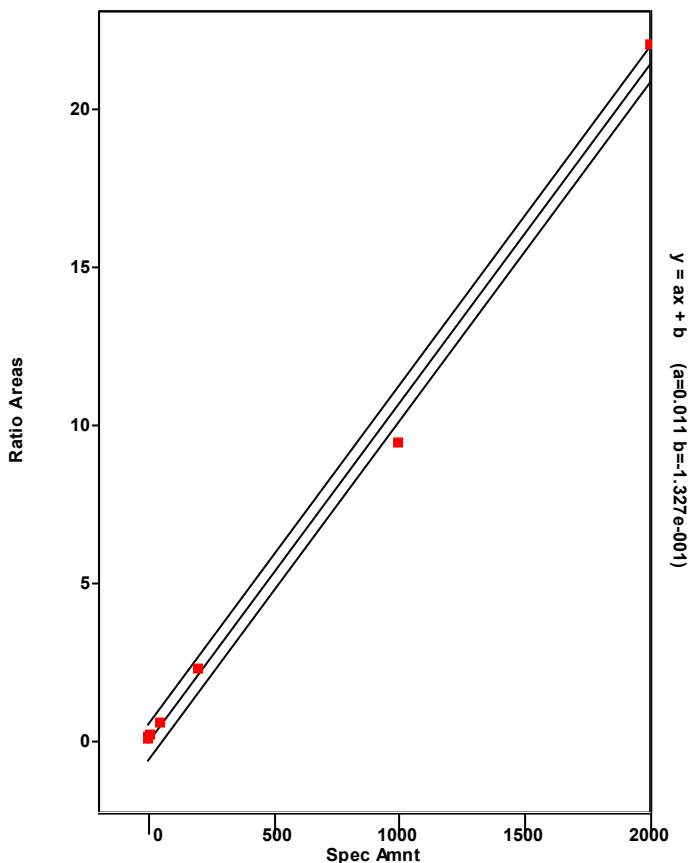
RT: 45.04 - 47.04 SM: 7G



Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

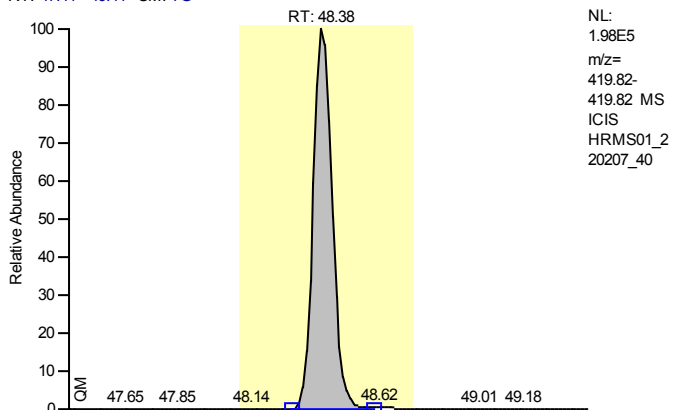
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



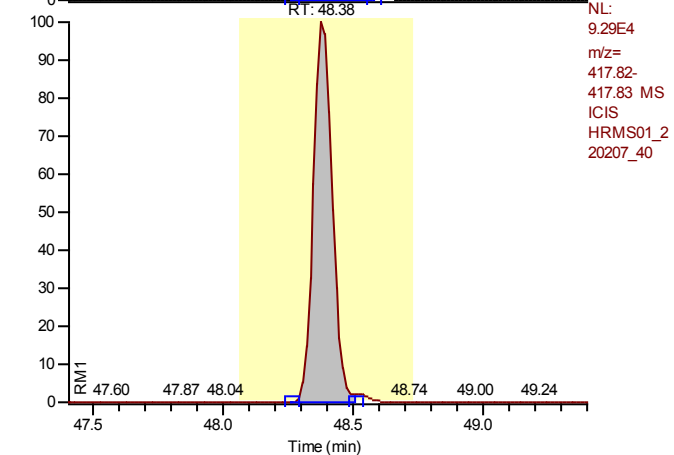
Chromatogram

Entry Parameters

RT: 47.41 - 49.41 SM: 7G

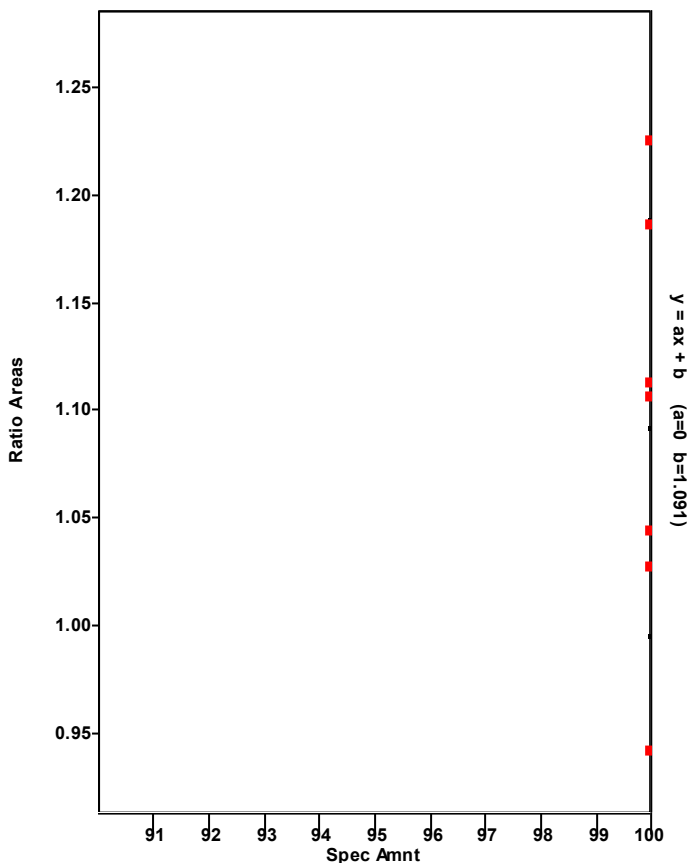


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1007792
RM1 Area	465762
RM1 Ratio (A)	0.4622
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	58.55
Percent Recovery (A)	59
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

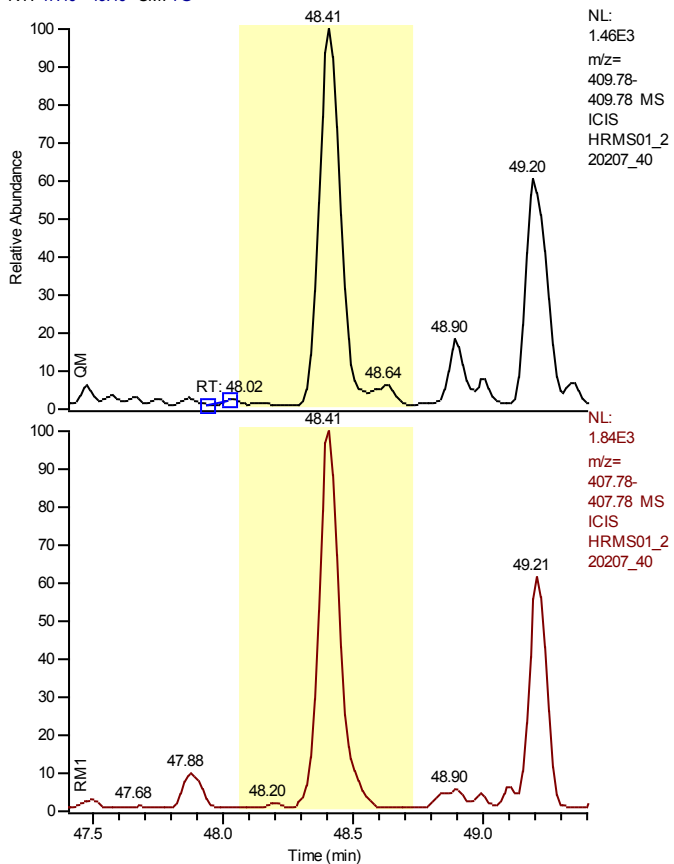
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

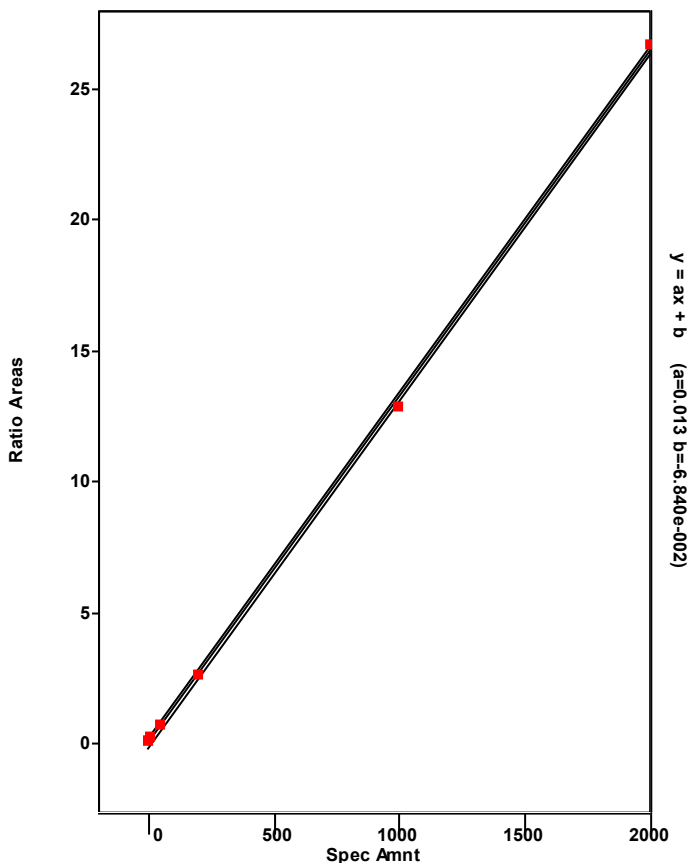
RT: 47.40 - 49.40 SM: 7G



Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	0.0000
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

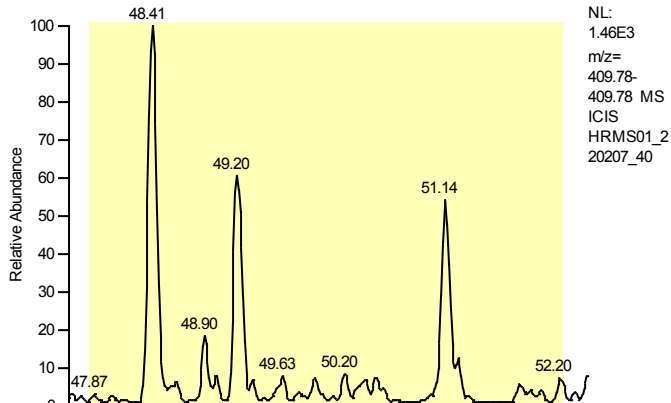
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



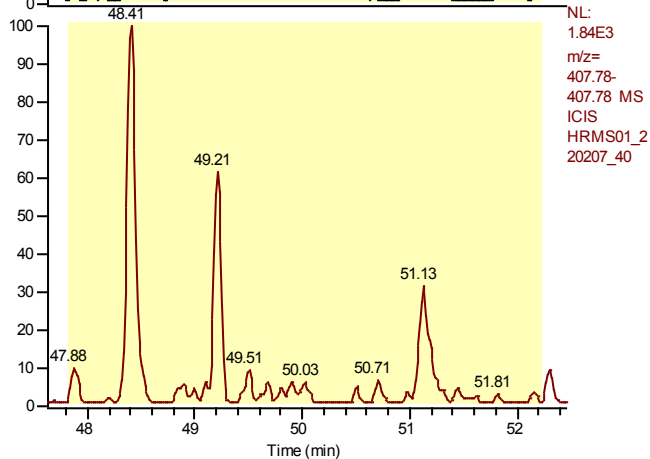
Chromatogram

Entry Parameters

RT: 47.62 - 52.46 SM: 7G

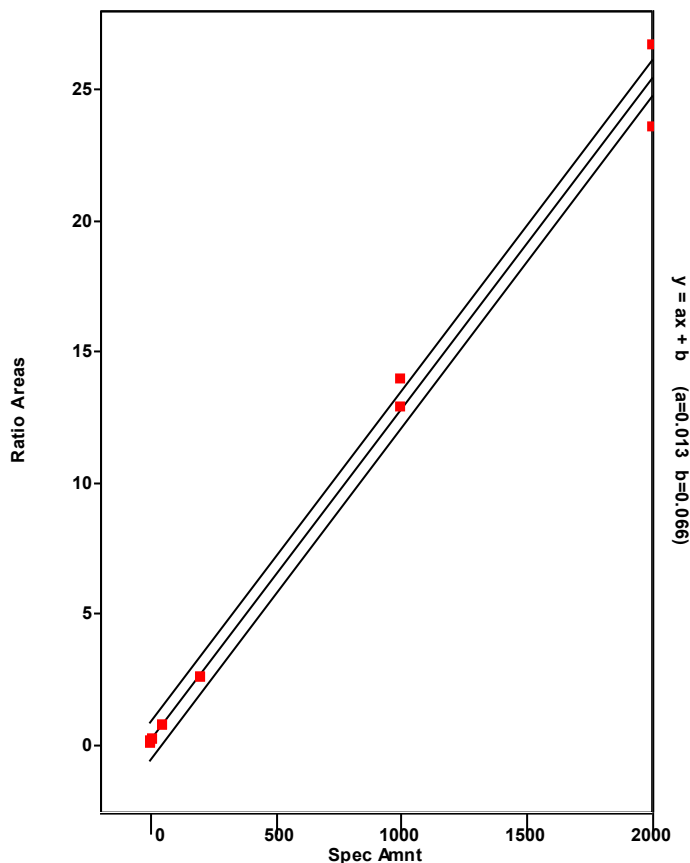


Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Calibration Points of Total Heptachlorodibenzofuran

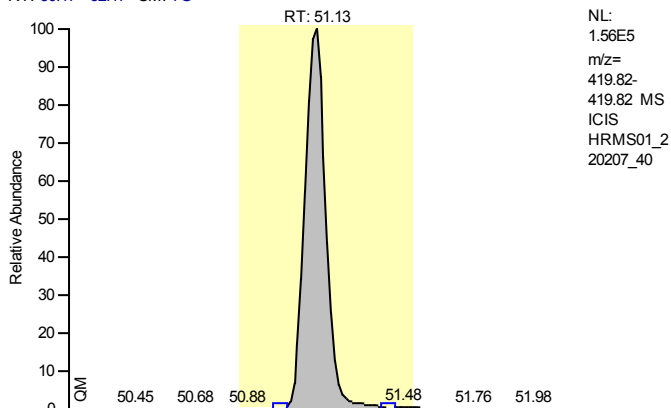
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



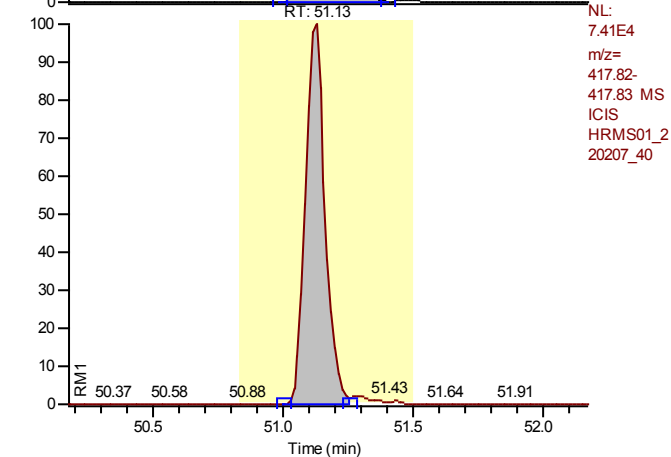
Chromatogram

Entry Parameters

RT: 50.17 - 52.17 SM: 7G

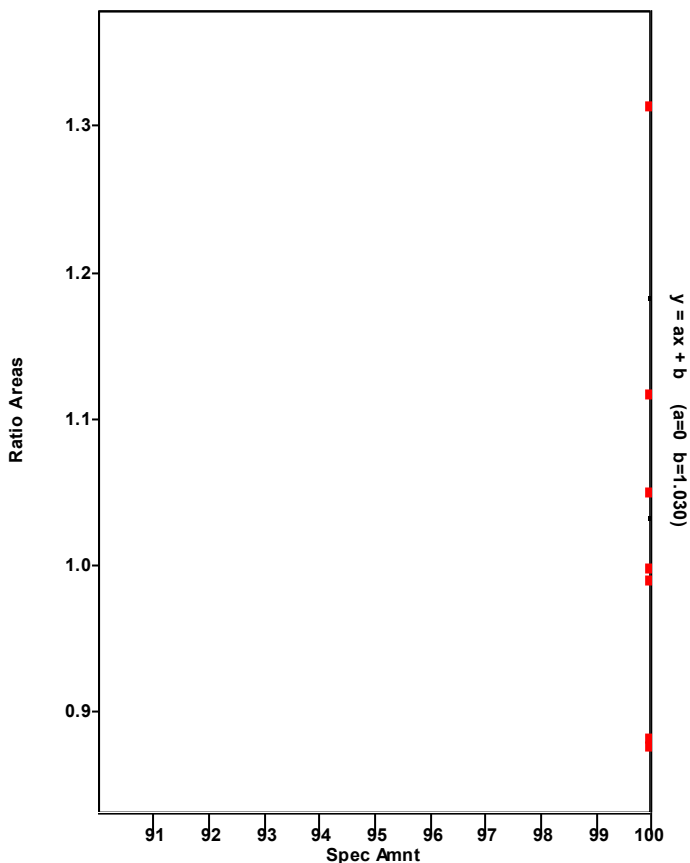


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	888700
RM1 Area	389431
RM1 Ratio (A)	0.4382
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	53.76
Percent Recovery (A)	54
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

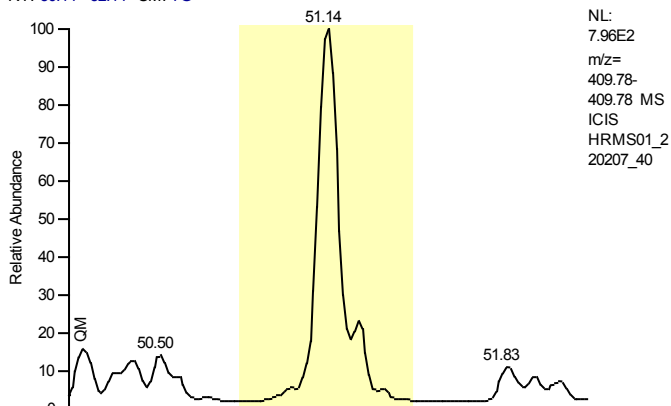
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



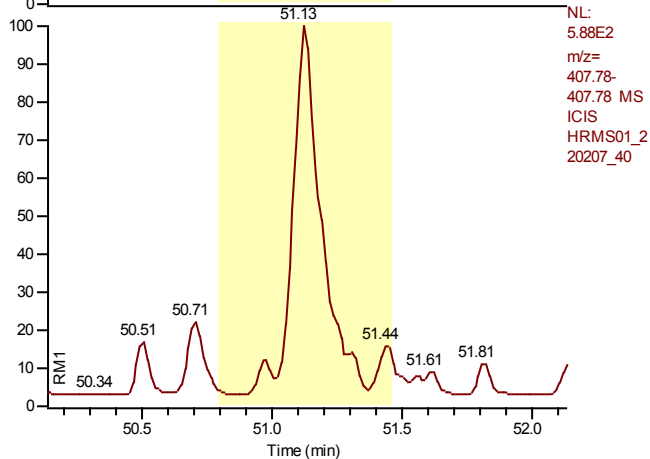
Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

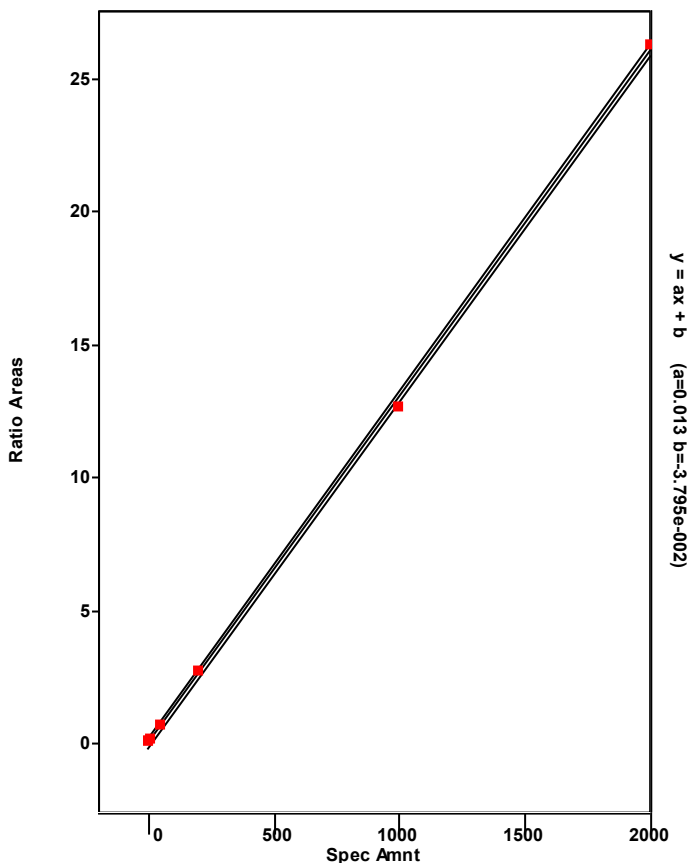


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

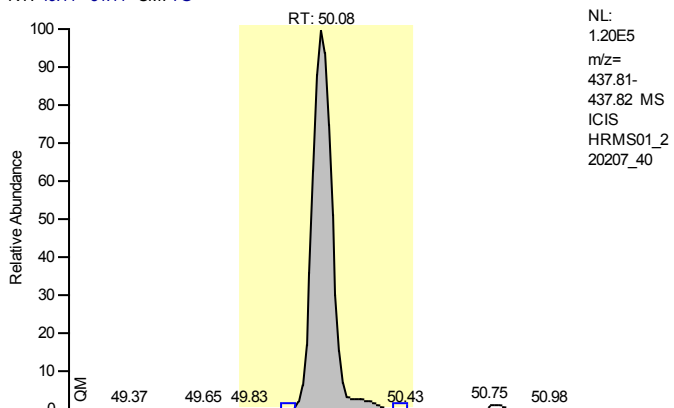
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



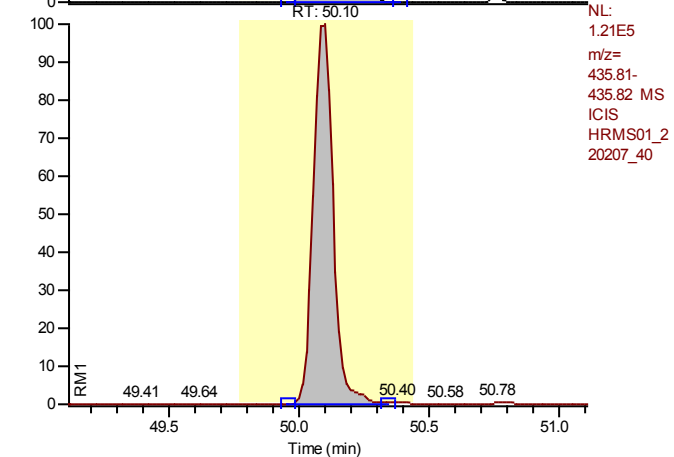
Chromatogram

Entry Parameters

RT: 49.11 - 51.11 SM: 7G

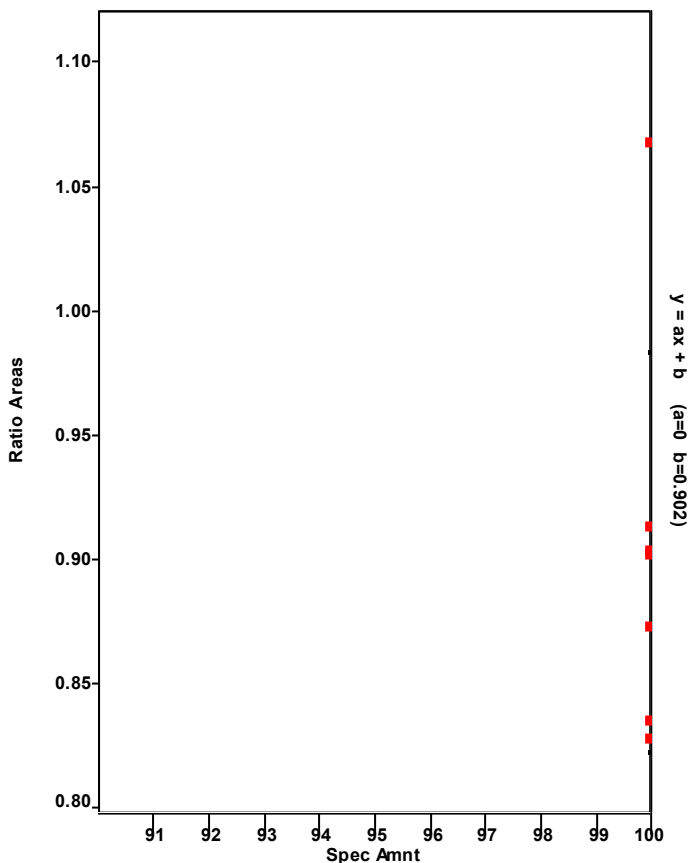


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	626485
RM1 Area	639655
RM1 Ratio (A)	1.0210
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	60.84
Percent Recovery (A)	61
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

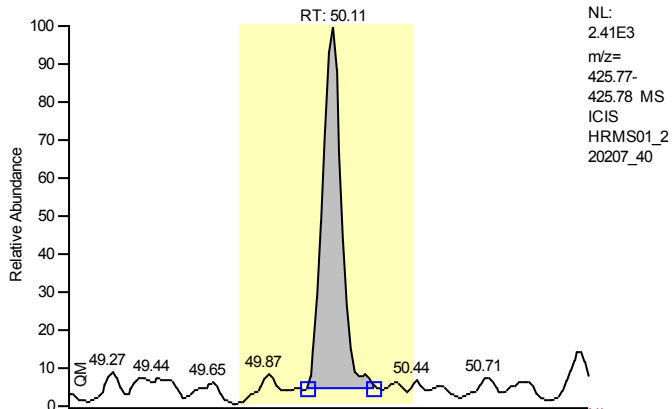
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



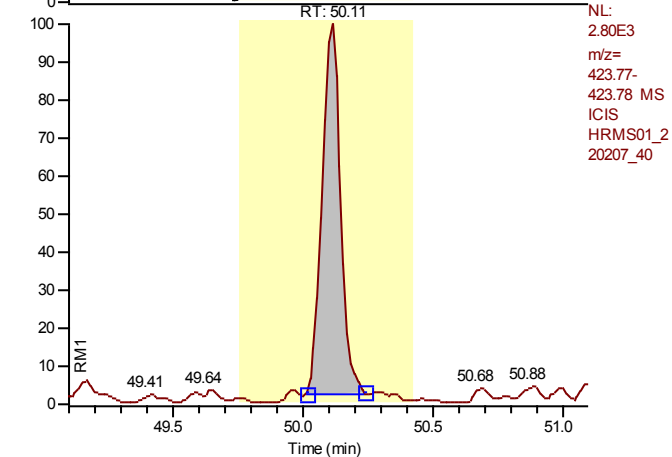
Chromatogram

Entry Parameters

RT: 49.09 - 51.09 SM: 7G

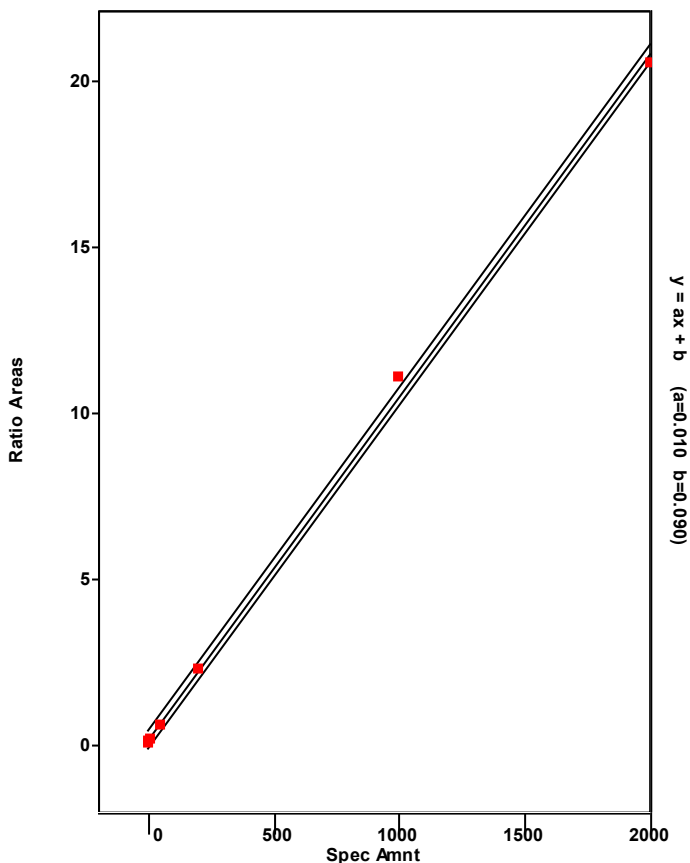


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	11670
RM1 Area	13417
RM1 Ratio (A)	1.1497
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	



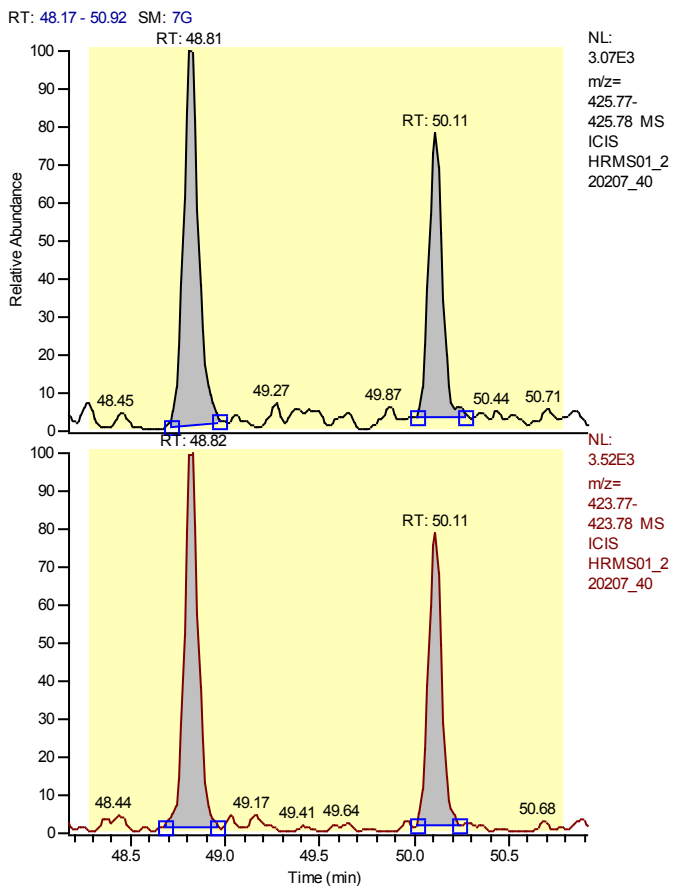
Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

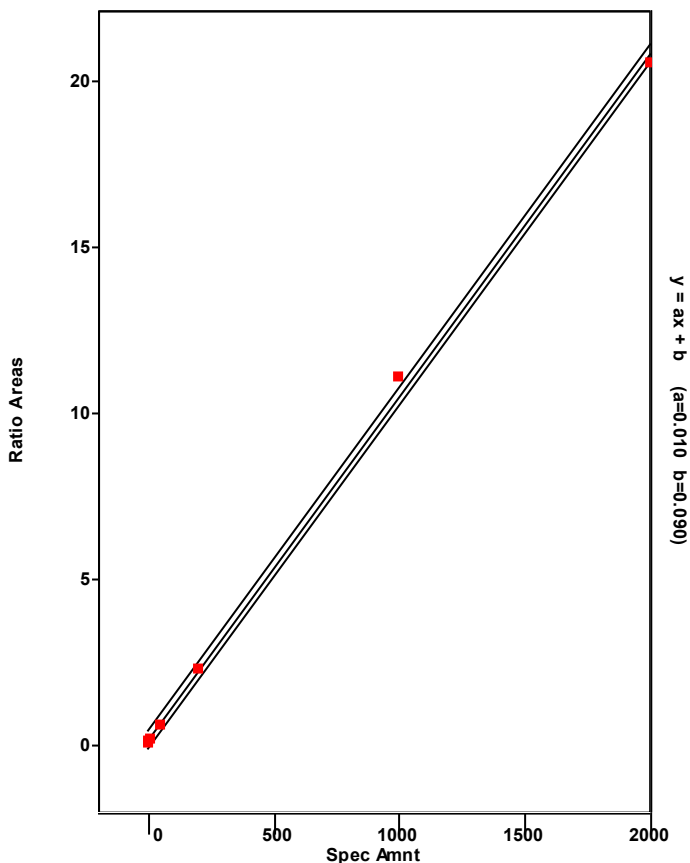
Entry Parameters



Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	28650
RM1 Area	31442
RM1 Ratio (A)	1.0975
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	4.40
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin

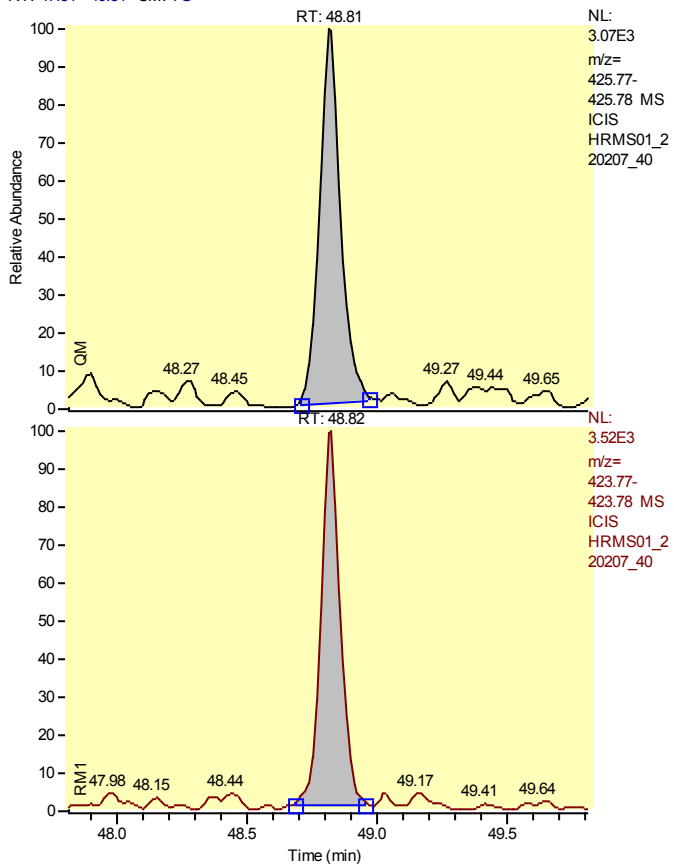
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

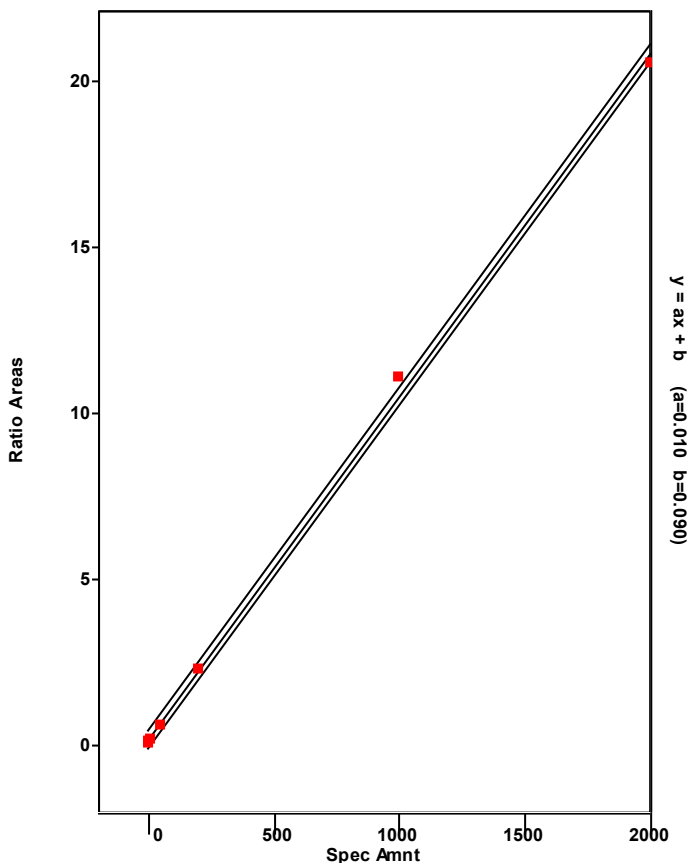
RT: 47.81 - 49.81 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	16980
RM1 Area	18025
RM1 Ratio (A)	1.0616
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	2.56
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

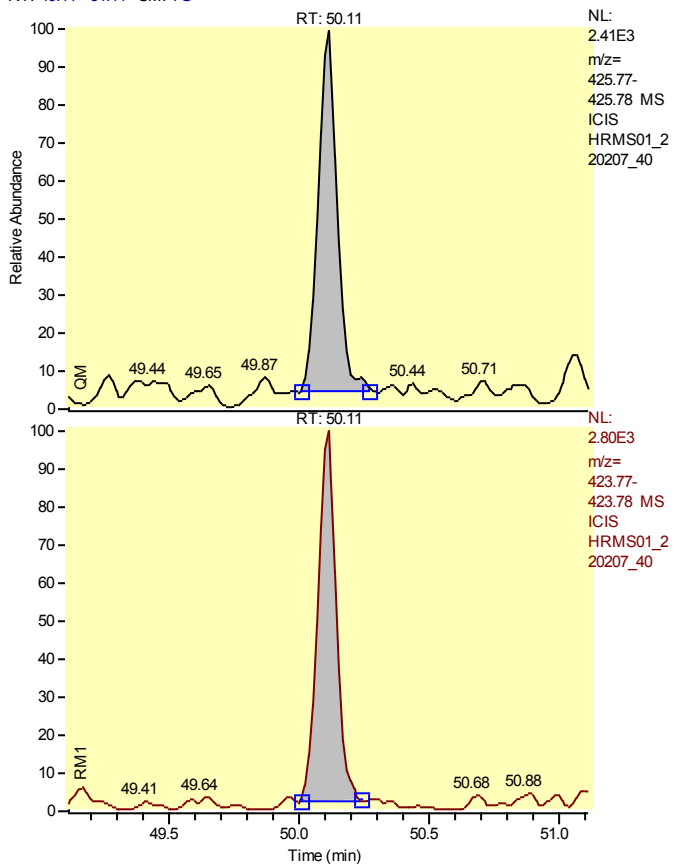
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

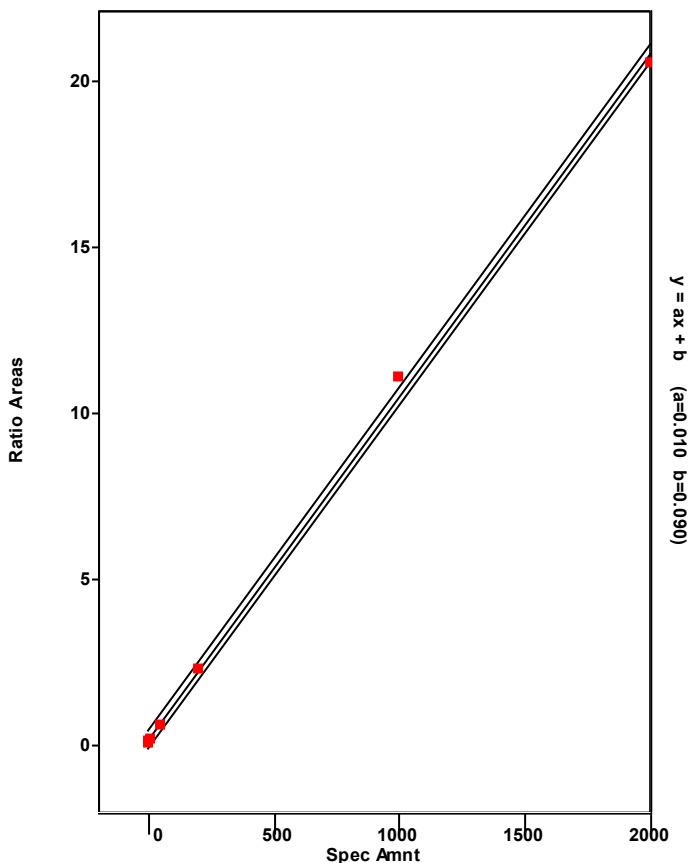
RT: 49.11 - 51.11 SM: 7G



Entry Identifier	Total Heptachlorodibenzo-p-dioxin__2
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	11670
RM1 Area	13417
RM1 Ratio (A)	1.1497
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	1.84
Percent Recovery (A)	---
TEQ (A)	0.0000
Label2	

Calibration Points of Total Heptachlorodibenzo-p-dioxin__2

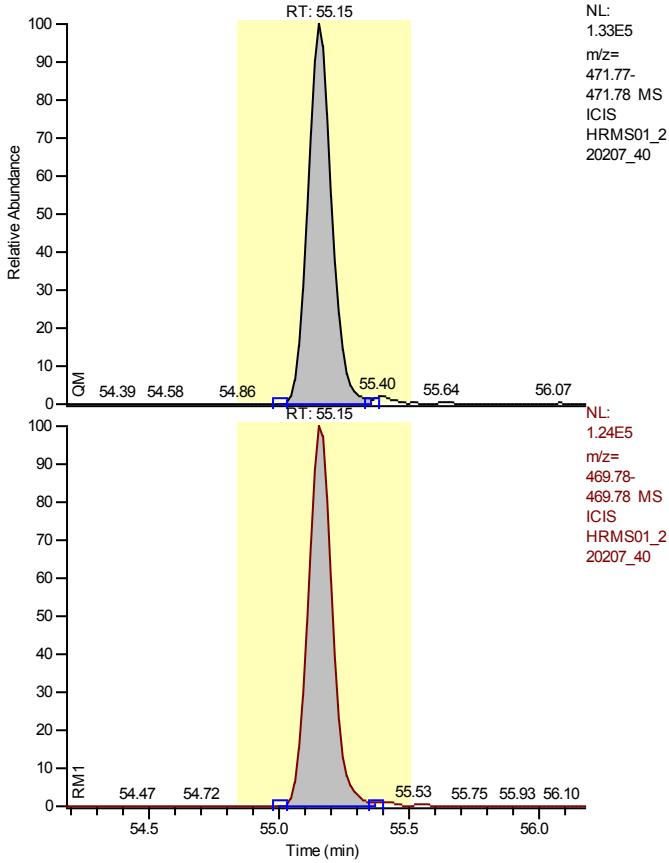
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

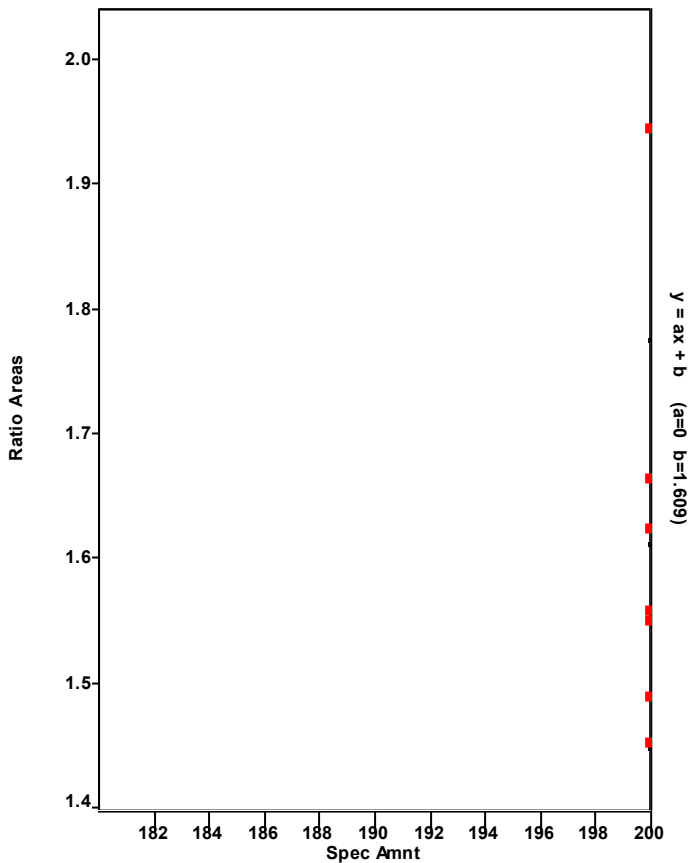
RT: 54.18 - 56.18 SM: 7G



Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	847910
RM1 Area	803635
RM1 Ratio (A)	0.9478
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	88.94
Percent Recovery (A)	44
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

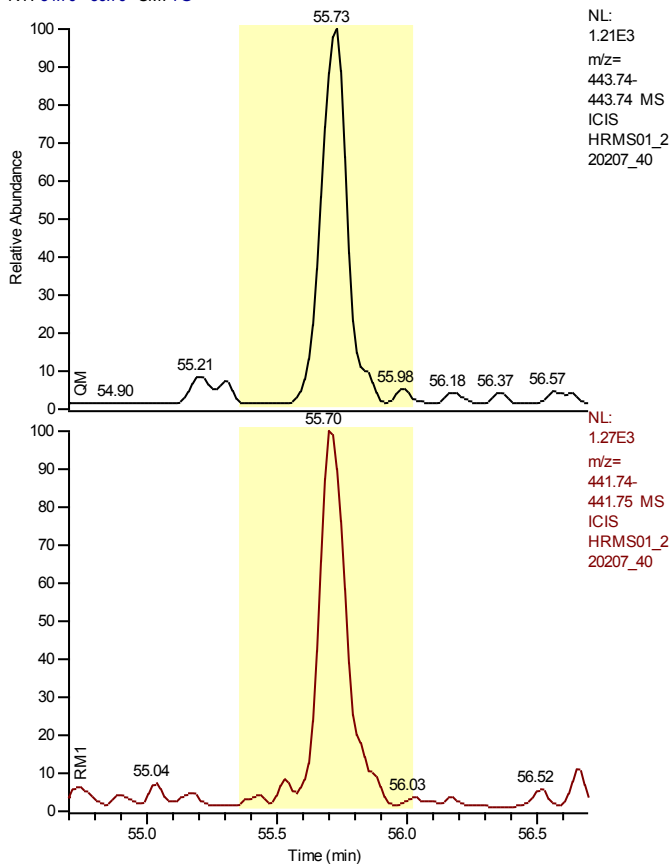
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.70 - 56.70 SM: 7G



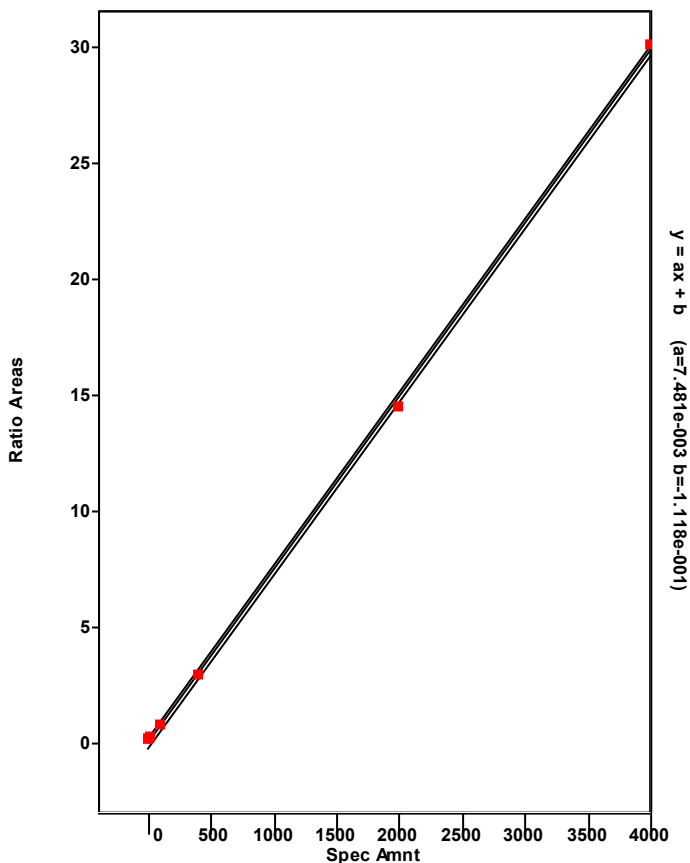
NL:
1.21E3
m/z=
443.74-
443.74 MS
ICIS
HRMS01_2
20207_40

NL:
1.27E3
m/z=
441.74-
441.75 MS
ICIS
HRMS01_2
20207_40

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 3268-87-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Calibration Points of Octachlorodibenzofuran

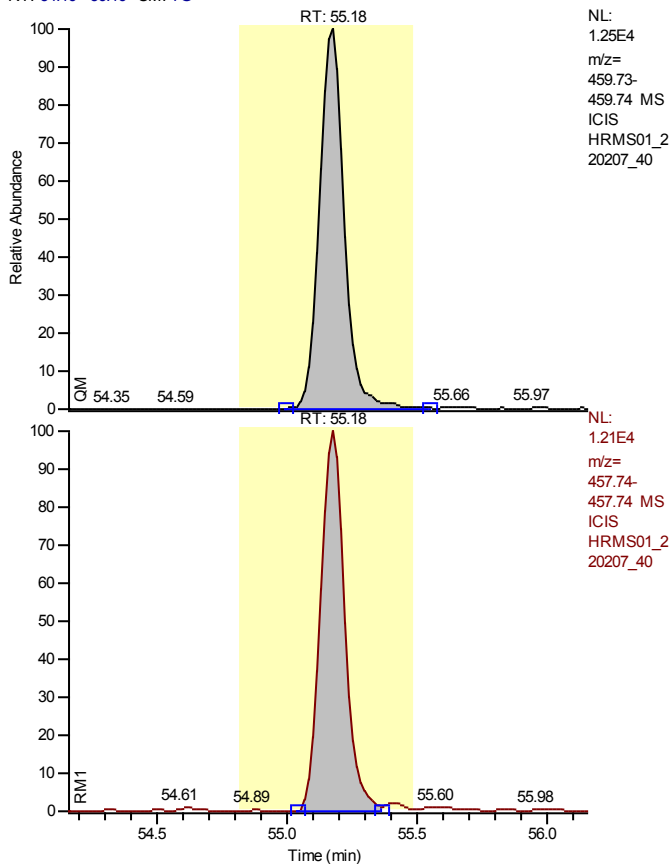
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

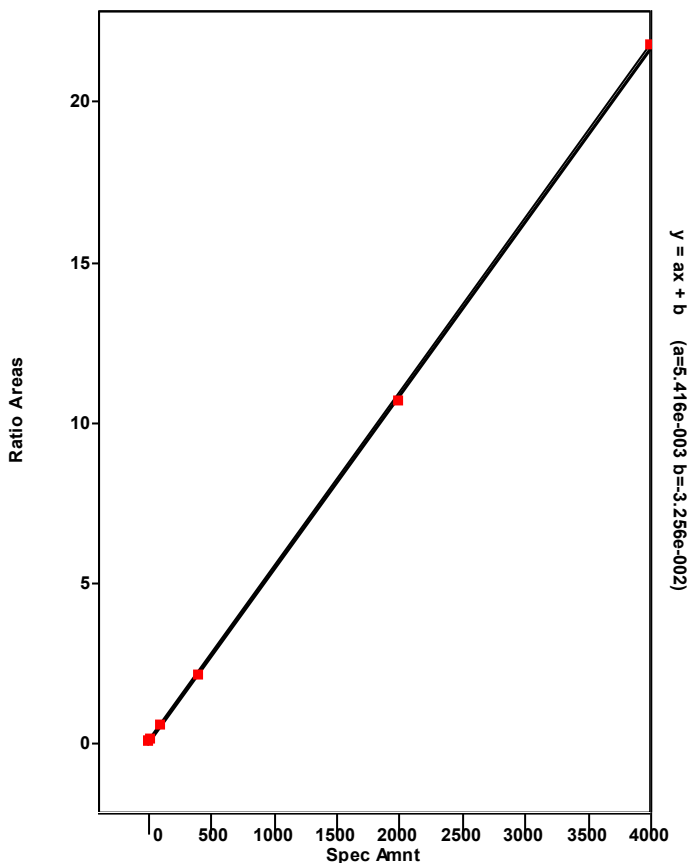
RT: 54.16 - 56.16 SM: 7G



Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	82405
RM1 Area	77507
RM1 Ratio (A)	0.9406
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	17.90
Percent Recovery (A)	---
TEQ (A)	0.0054
Label2	

Calibration Points of Octachlorodibenzo-p-dioxin

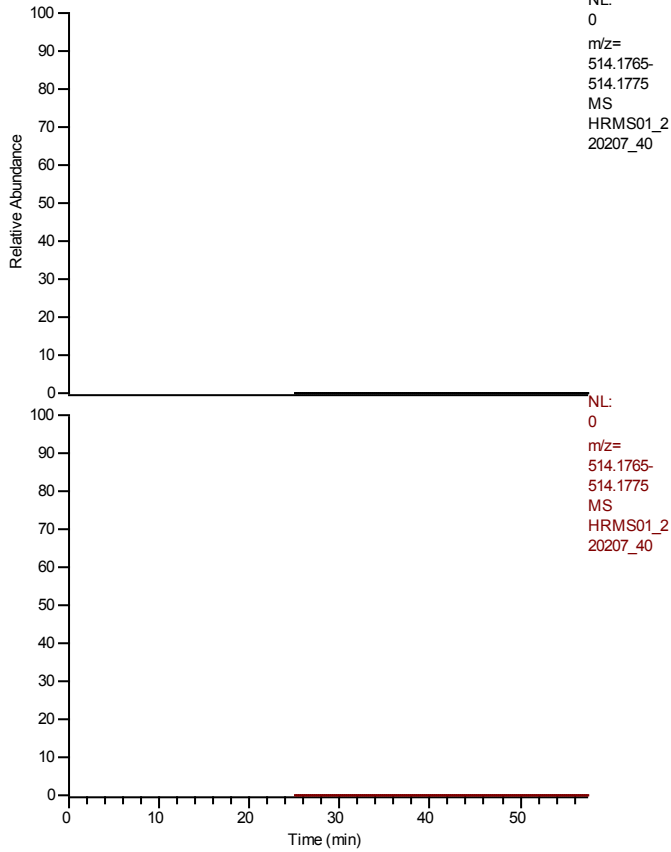
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

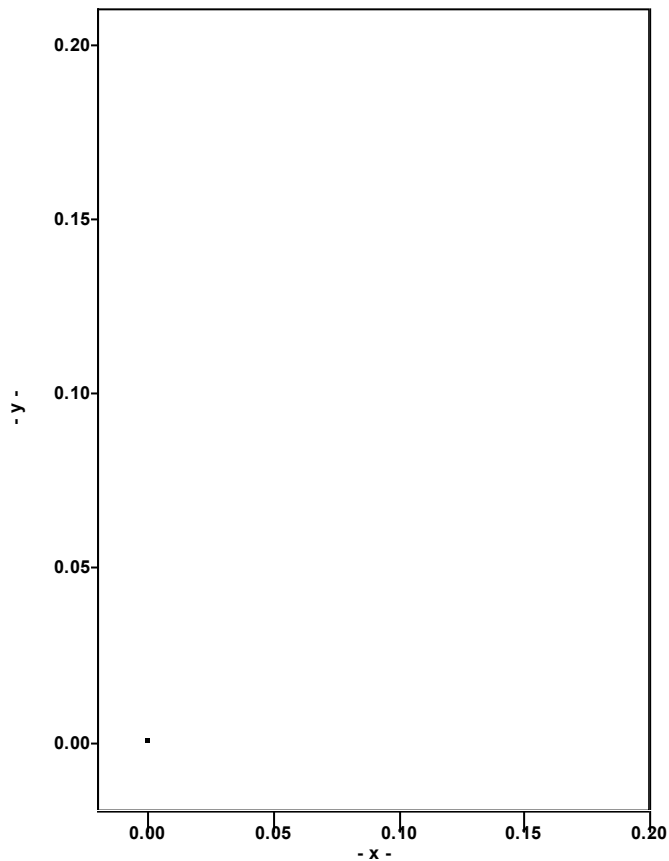
Entry Parameters

RT: 0.00 - 57.51 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	94075
RM1 Area	90924
RM1 Ratio (A)	0.9665
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	19.74
Percent Recovery (A)	---
TEQ (A)	0.0054
Label2	

Calibration Points of overall TEQ



Batch Quality Control

Method Blank

Raw Data

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/07 20:06
Number of Entries	44
Comment	
Vial	110
Sample Name	WG1600060-1
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_06_seq
Data	hrms01_220207_06
Response	220204_1613b_gcb
Quan Method File	epa1613b_samples_gc2
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

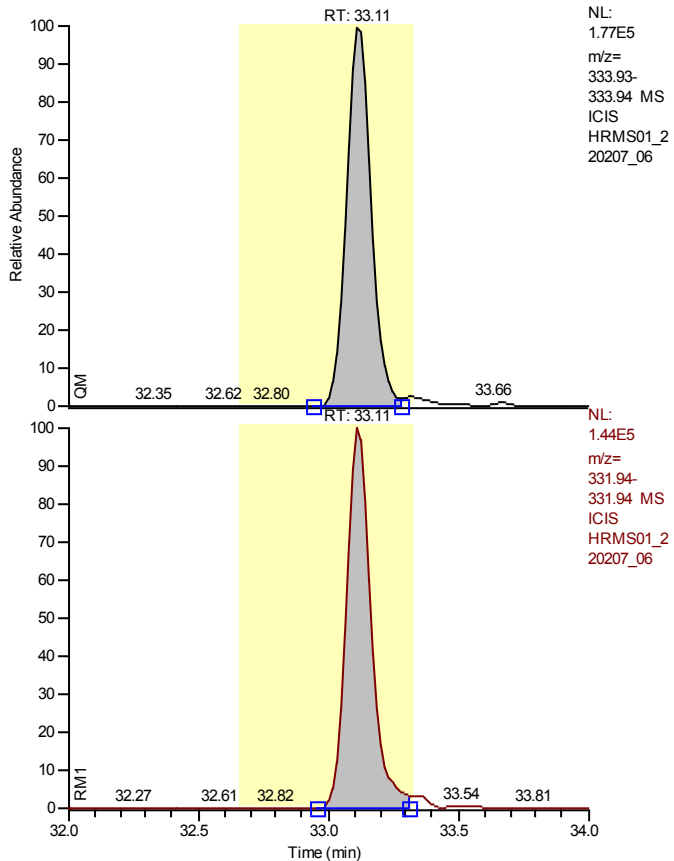
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		1160836	946286	0.8152	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		1526996	1280928	0.8389	0.6500 - 0.8900	100.00	82.02	82	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
5	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		1043916	830742	0.7958	0.6500 - 0.8900	100.00	76.47	76	0.0000
6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	0	0	---	0.6500 - 0.8900	0.00	n.d.	---	n.d.
7	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	0	0	---	0.6500 - 0.8900	0.00	---	---	---
8	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		761091	1139897	1.4977	1.3200 - 1.7800	100.00	62.21	62	0.0000
9	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
10	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	0	0	---	1.3200 - 1.7800	0.00	---	---	---
11	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		691540	1095895	1.5847	1.3200 - 1.7800	100.00	62.16	62	0.0000
12	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
13	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		466697	799094	1.7122	1.3200 - 1.7800	100.00	65.93	66	0.0000
14	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	0	0	---	1.3200 - 1.7800	0.00	n.d.	---	n.d.
15	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	0	0	---	1.3200 - 1.7800	0.00	---	---	---
16	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		220938	220938	1.0000	0.8500 - 1.1500	10.00	8.37	84	0.0000
17	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		840003	1050643	1.2508	1.0500 - 1.4300	100.00	100.00	100	0.0000
18	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		1038140	525889	0.5066	0.4300 - 0.5900	100.00	73.63	74	0.0000
19	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
20	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	0	0	---	1.0500 - 1.4300	0.00	---	---	---
21	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1098971	604588	0.5501	0.4300 - 0.5900	100.00	74.56	75	0.0000
22	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
23	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		1085196	604460	0.5570	0.4300 - 0.5900	100.00	75.87	76	0.0000
24	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
25	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		1317368	653153	0.4958	0.4300 - 0.5900	100.00	90.97	91	0.0000
26	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
27	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		483866	647827	1.3389	1.0500 - 1.4300	100.00	67.08	67	0.0000
28	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
29	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	0	0	---	1.0500 - 1.4300	0.00	---	---	---
30	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		589797	797092	1.3515	1.0500 - 1.4300	100.00	78.60	79	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
32	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	0	0	---	1.0500 - 1.4300	0.00	n.d.	---	n.d.
33	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		1038814	506984	0.4880	0.3700 - 0.5100	100.00	74.97	75	0.0000
34	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
35	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	0	0	---	0.8800 - 1.2000	0.00	---	---	---
36	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		921660	408949	0.4437	0.3700 - 0.5100	100.00	68.32	68	0.0000
37	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
38	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		658495	684145	1.0390	0.8800 - 1.2000	100.00	78.75	79	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	0	0	---	0.8800 - 1.2000	0.00	n.d.	---	n.d.
40	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	0	0	---	0.8800 - 1.2000	0.00	---	---	---
41	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		905764	794602	0.8773	0.7600 - 1.0200	200.00	111.77	56	0.0000
42	Octachlorodibenzofuran	OCDF	CAS# 3268-87-9	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
43	Octachlorodibenzo-p-dioxin	OCDD	CAS# 39001-02-0	0	0	---	0.7600 - 1.0200	0.00	n.d.	---	n.d.
44	overall TEQ	overall TEQ test		0	0	---	0.0000 - 0.0000	0.00	---	---	---

Chromatogram

Entry Parameters

RT: 32.00 - 34.00 SM: 7G

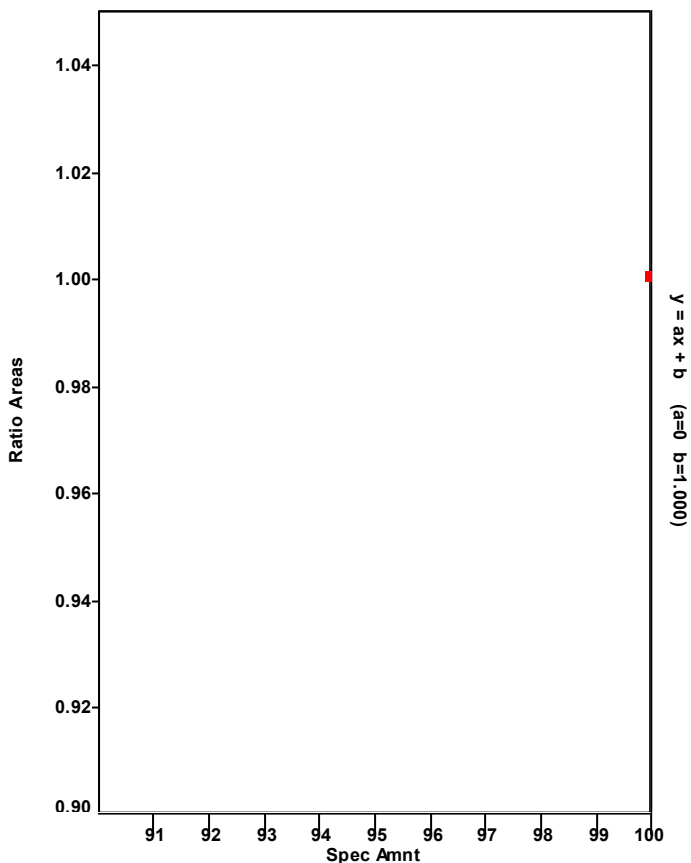


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	1160836
RM1 Area	946286
RM1 Ratio (A)	0.8152
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

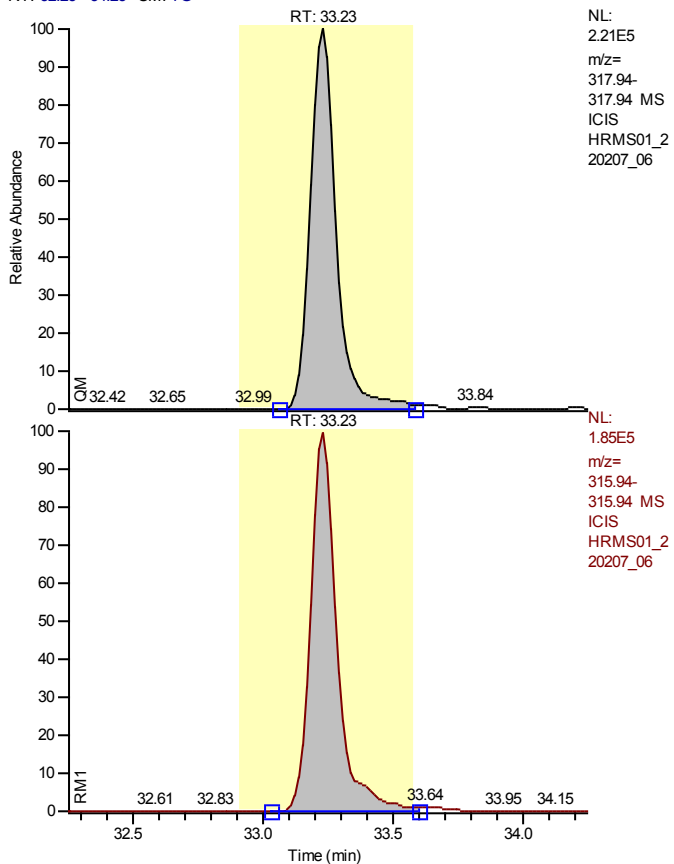
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.25 - 34.25 SM: 7G



NL:
 2.21E5
 m/z=
 317.94
 317.94 MS
 ICIS
 HRMS01_2
 20207_06

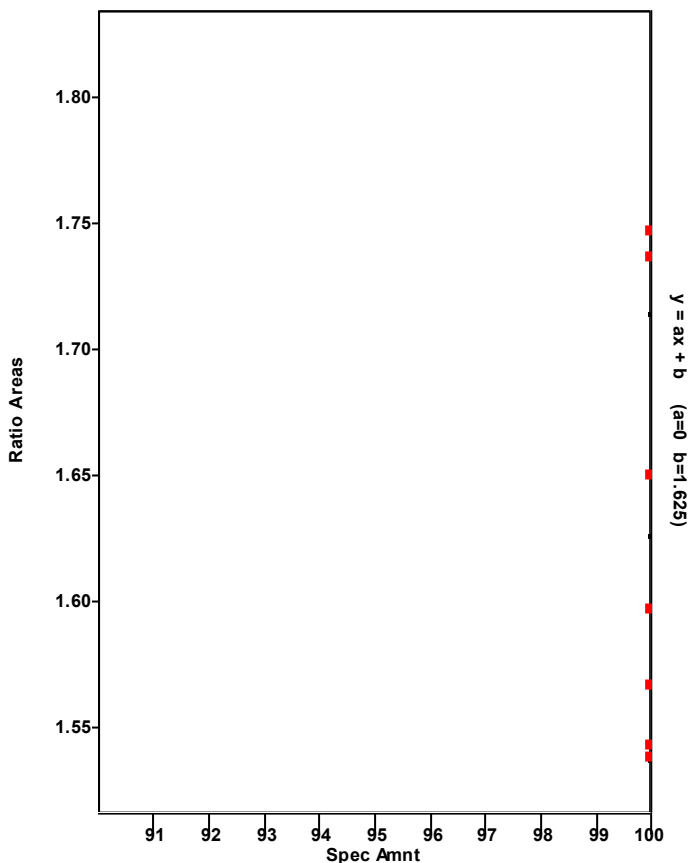
Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	1526996
RM1 Area	1280928
RM1 Ratio (A)	0.8389
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	82.02
Percent Recovery (A)	82
TEQ (A)	0.0000
Label2	

NL:
 1.85E5
 m/z=
 315.94
 315.94 MS
 ICIS
 HRMS01_2
 20207_06

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

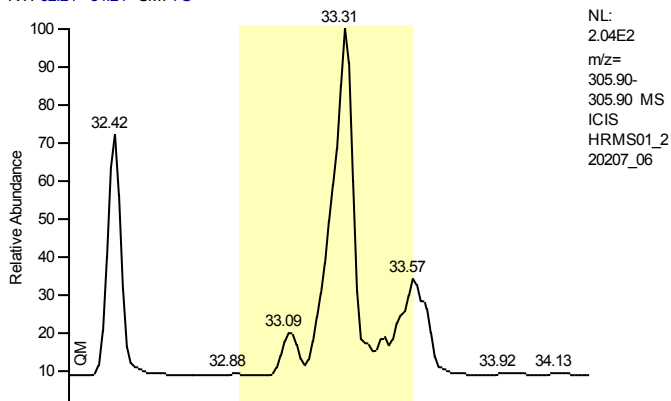
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



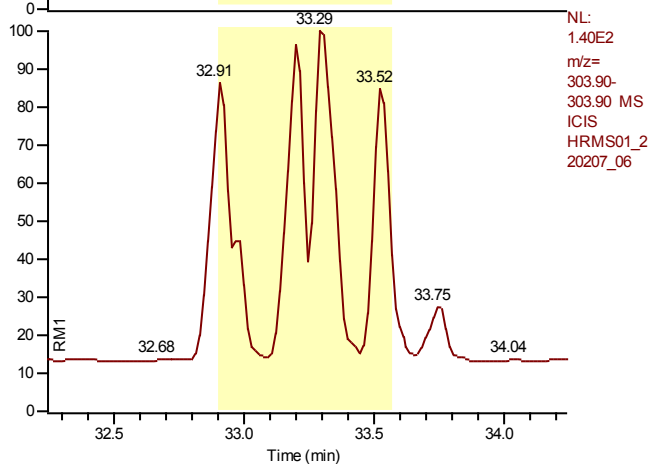
Chromatogram

Entry Parameters

RT: 32.24 - 34.24 SM: 7G



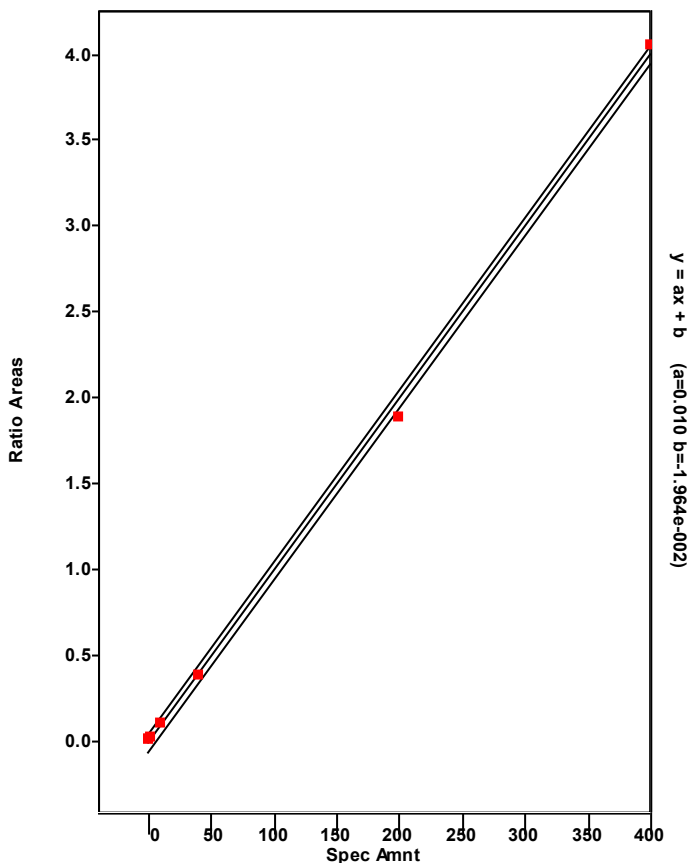
Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

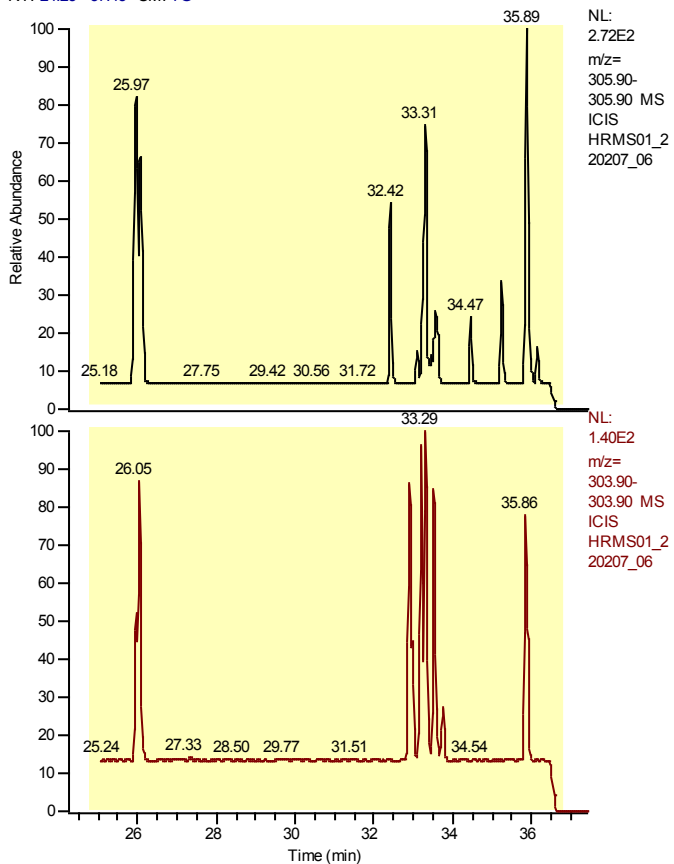
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 24.23 - 37.43 SM: 7G

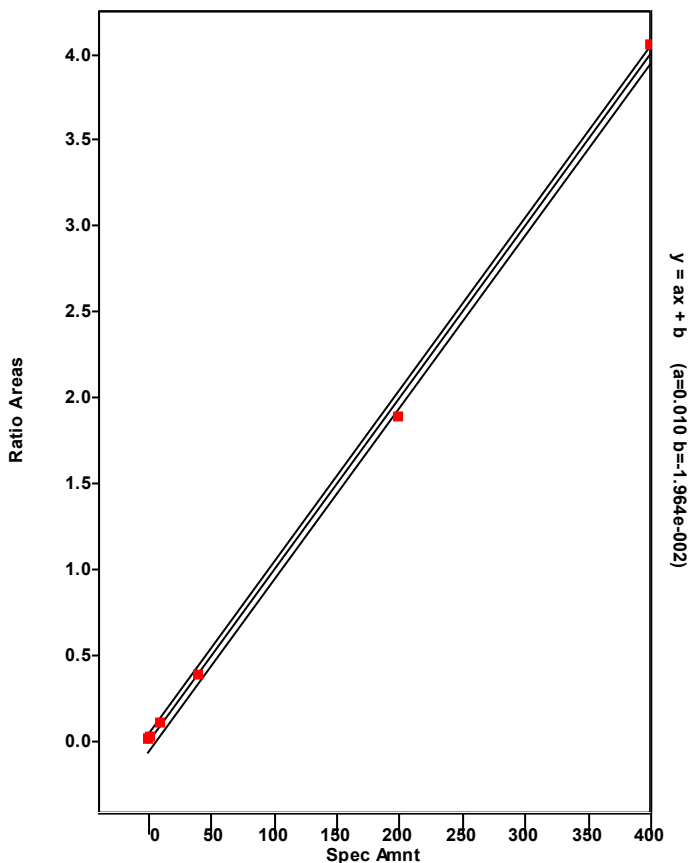


Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

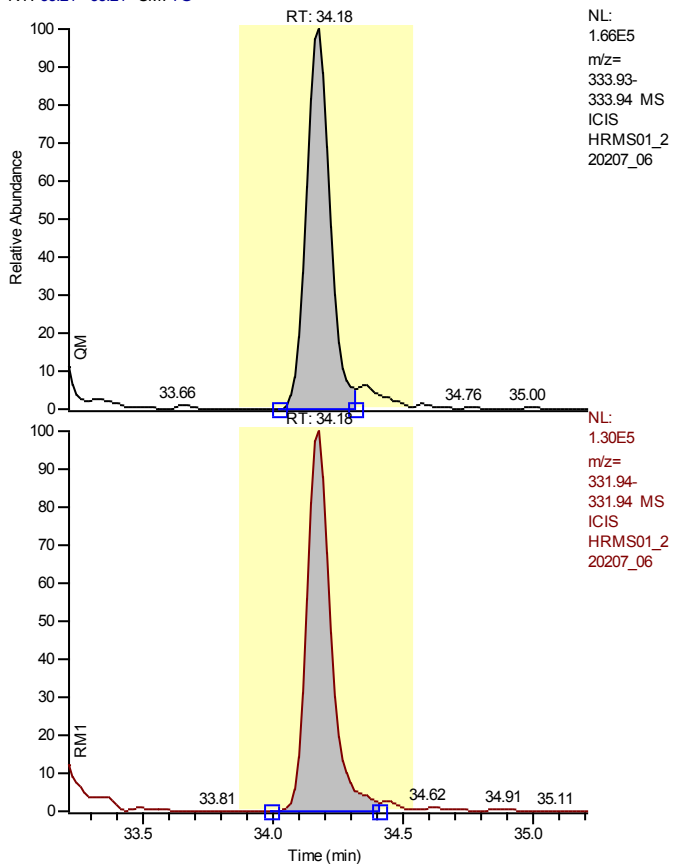
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G



NL:
 1.66E5
 m/z=
 333.93-
 333.94 MS
 ICIS
 HRMS01_2
 20207_06

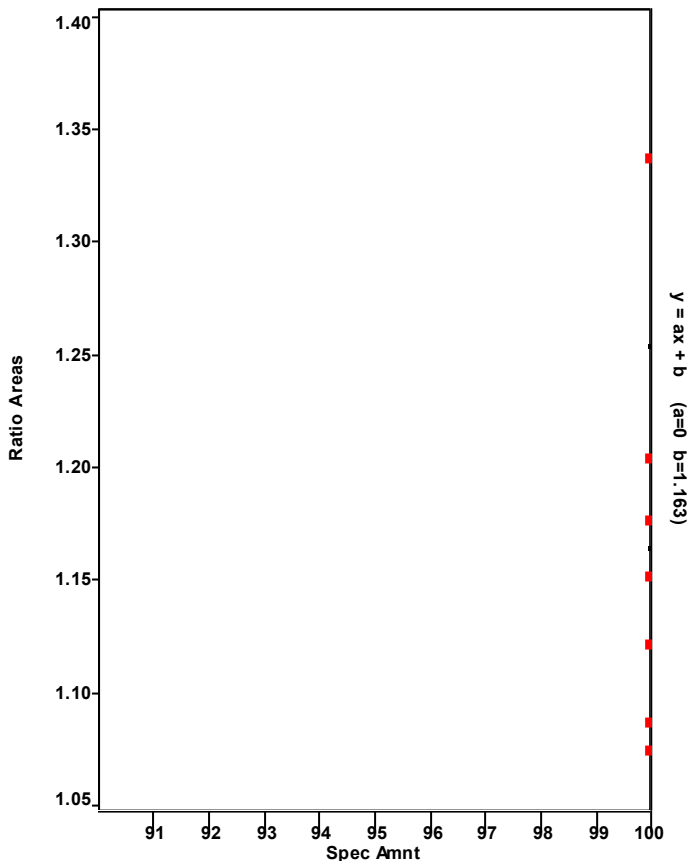
NL:
 1.30E5
 m/z=
 331.94-
 331.94 MS
 ICIS
 HRMS01_2
 20207_06

Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	1043916
RM1 Area	830742
RM1 Ratio (A)	0.7958
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	76.47
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

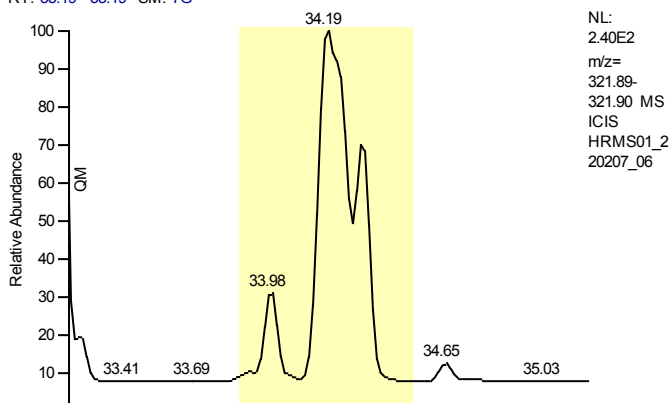
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



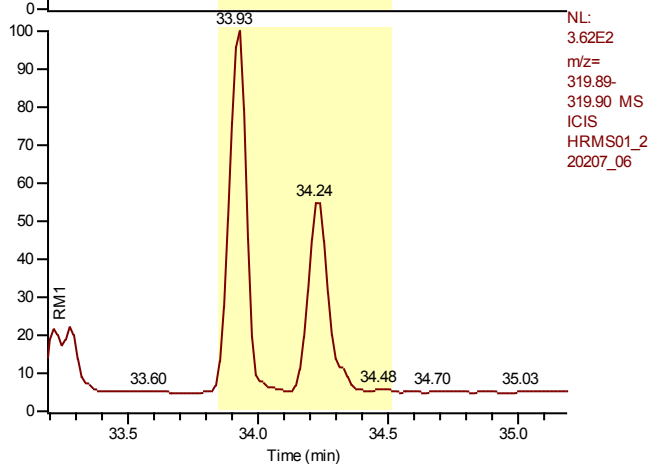
Chromatogram

Entry Parameters

RT: 33.19 - 35.19 SM: 7G



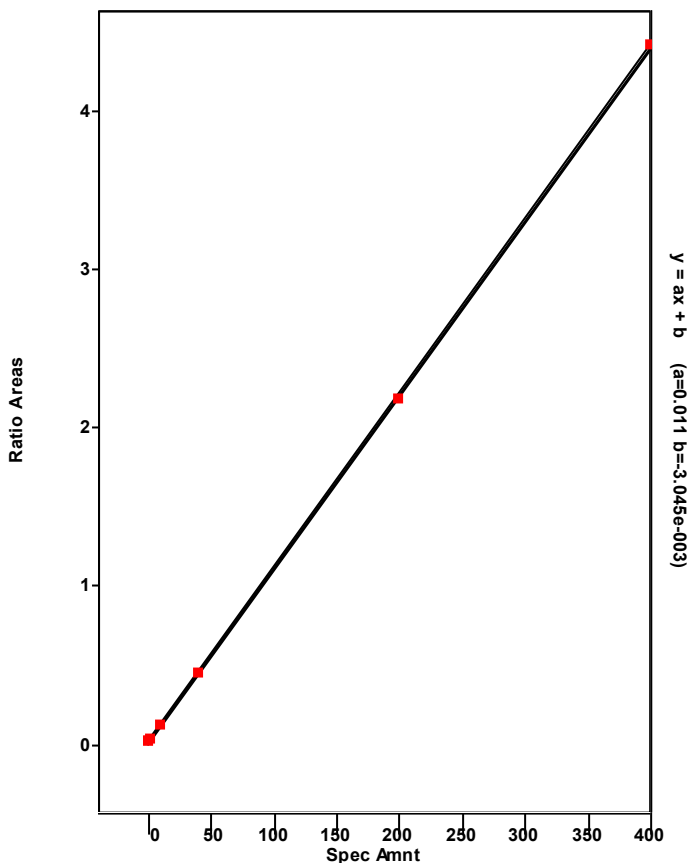
Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

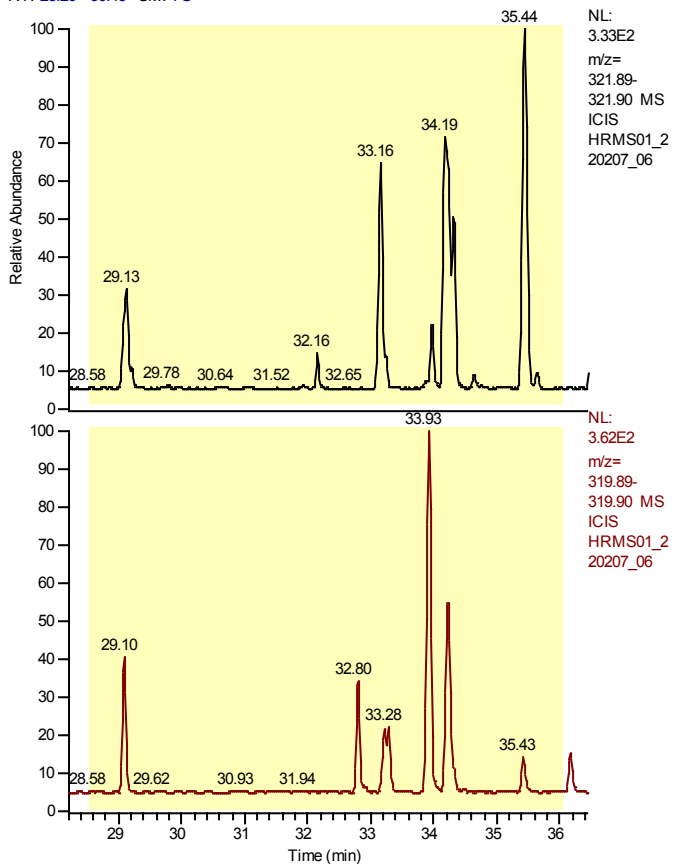
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 28.20 - 36.45 SM: 7G

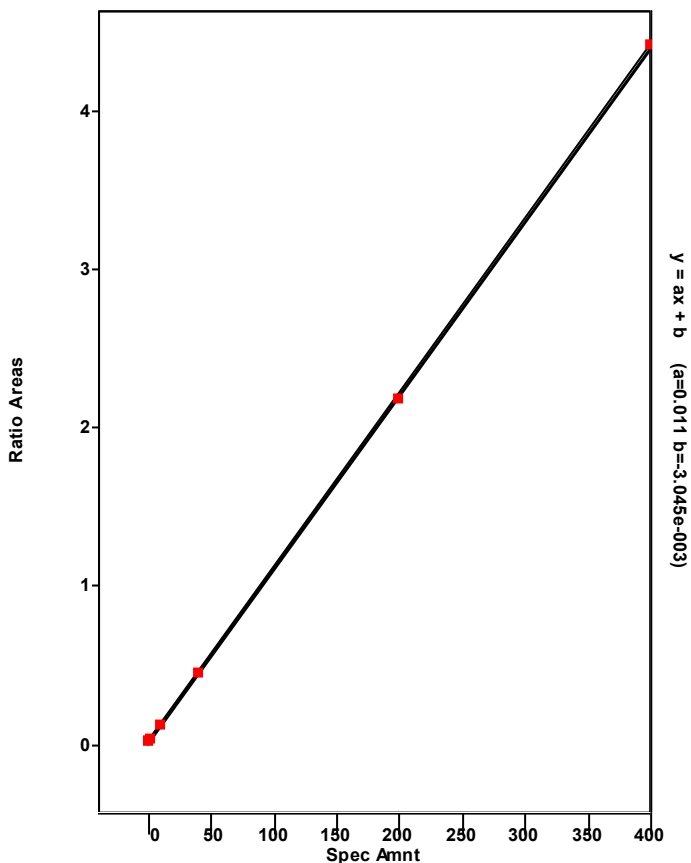


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

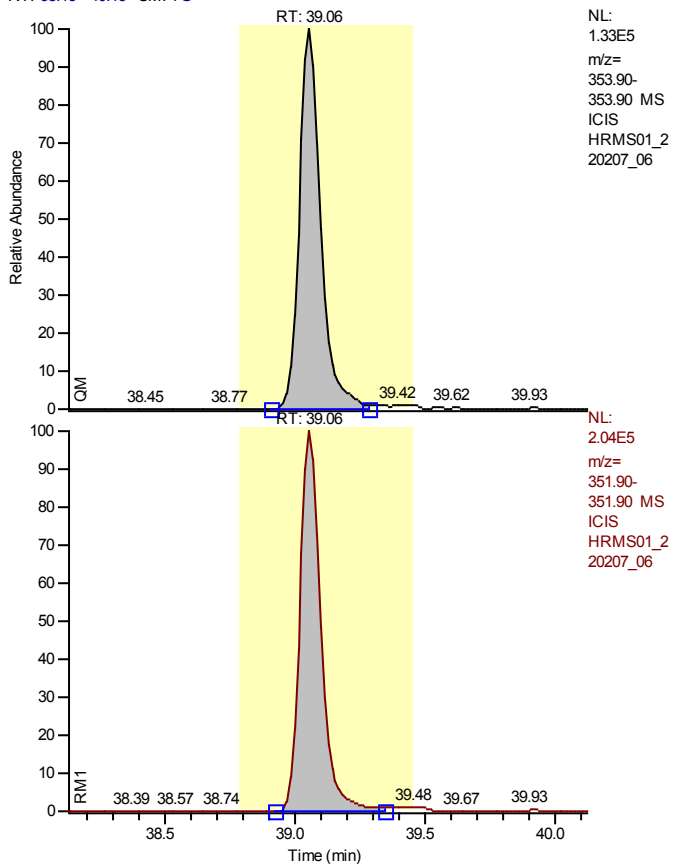
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.13 - 40.13 SM: 7G

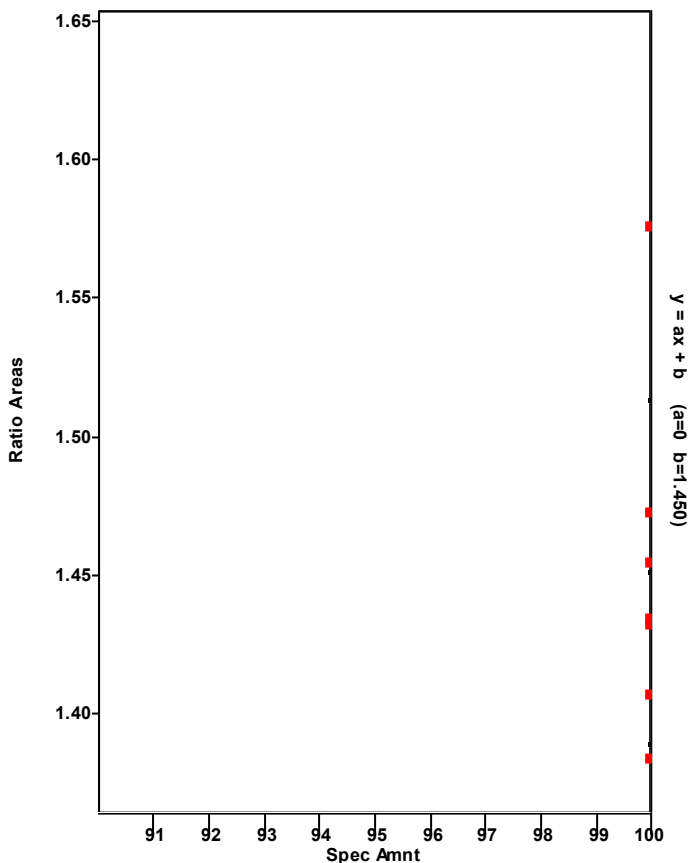


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	761091
RM1 Area	1139897
RM1 Ratio (A)	1.4977
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	62.21
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

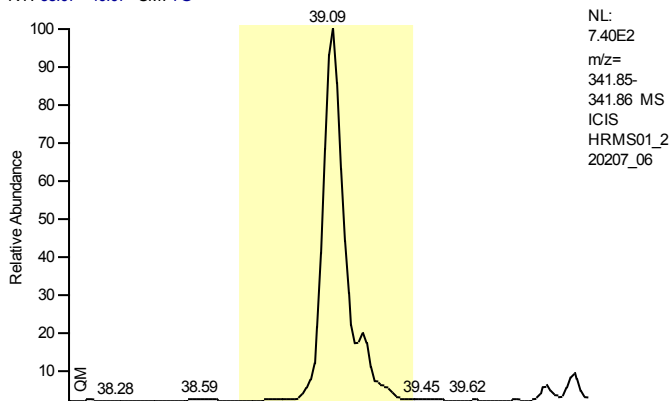
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



Chromatogram

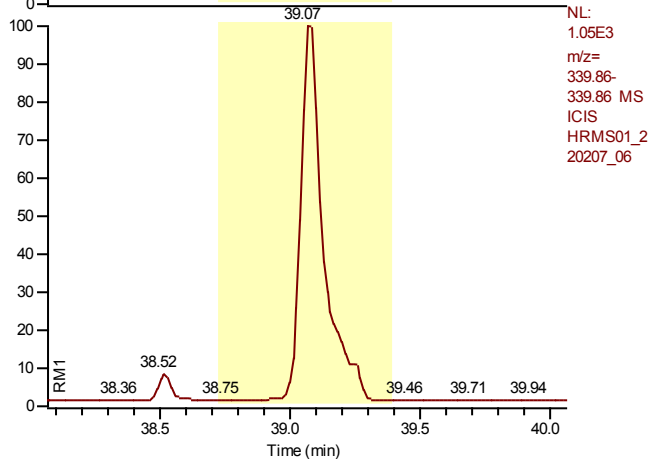
Entry Parameters

RT: 38.07 - 40.07 SM: 7G



NL:
 7.40E2
 m/z=
 341.85-
 341.86 MS
 ICIS
 HRMS01_2
 20207_06

Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

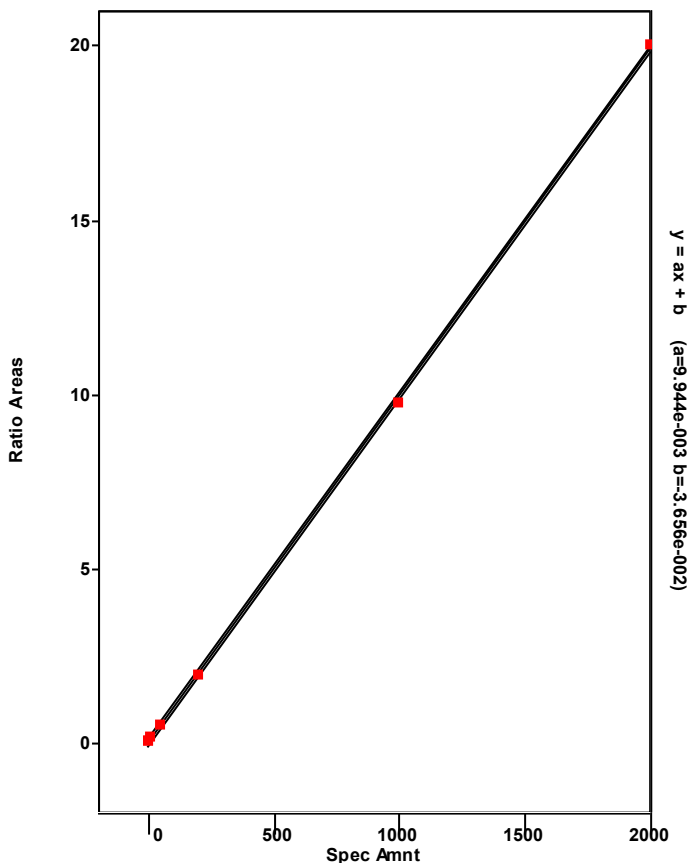


NL:
 1.05E3
 m/z=
 339.86-
 339.86 MS
 ICIS
 HRMS01_2
 20207_06

Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

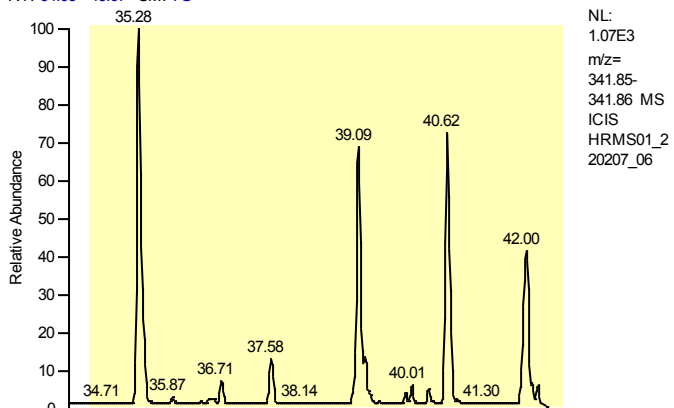
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



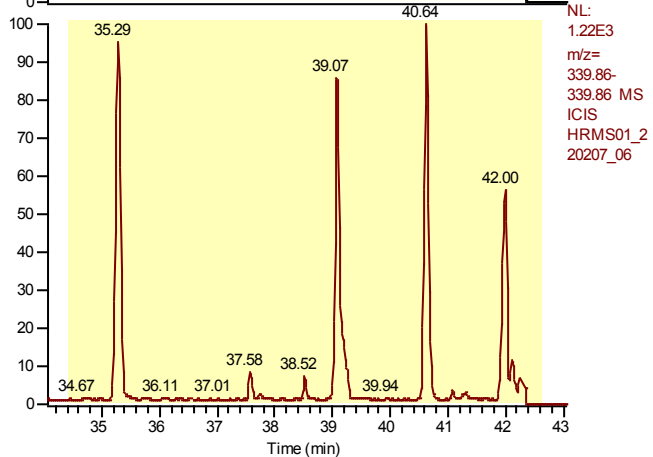
Chromatogram

Entry Parameters

RT: 34.05 - 43.07 SM: 7G



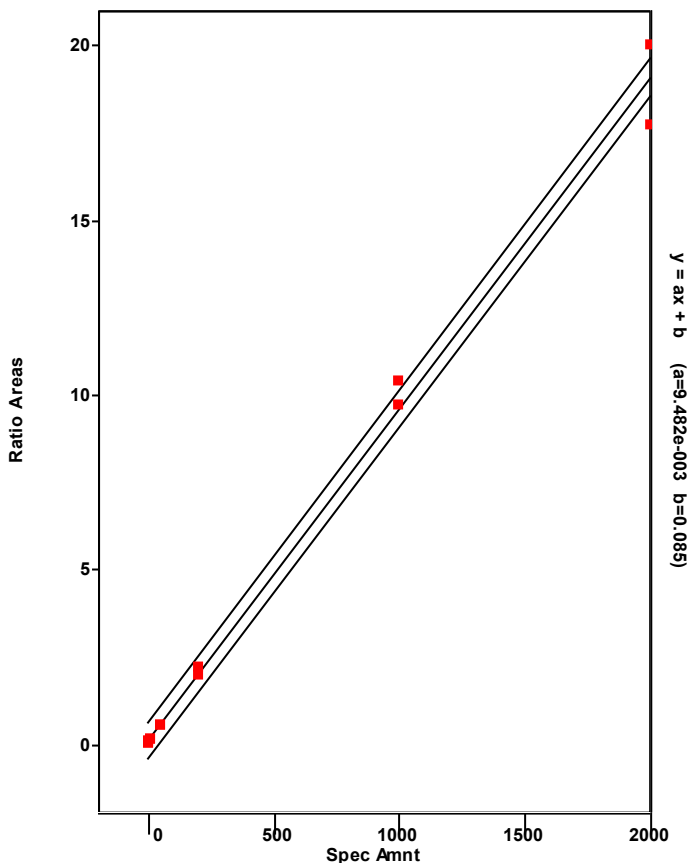
Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

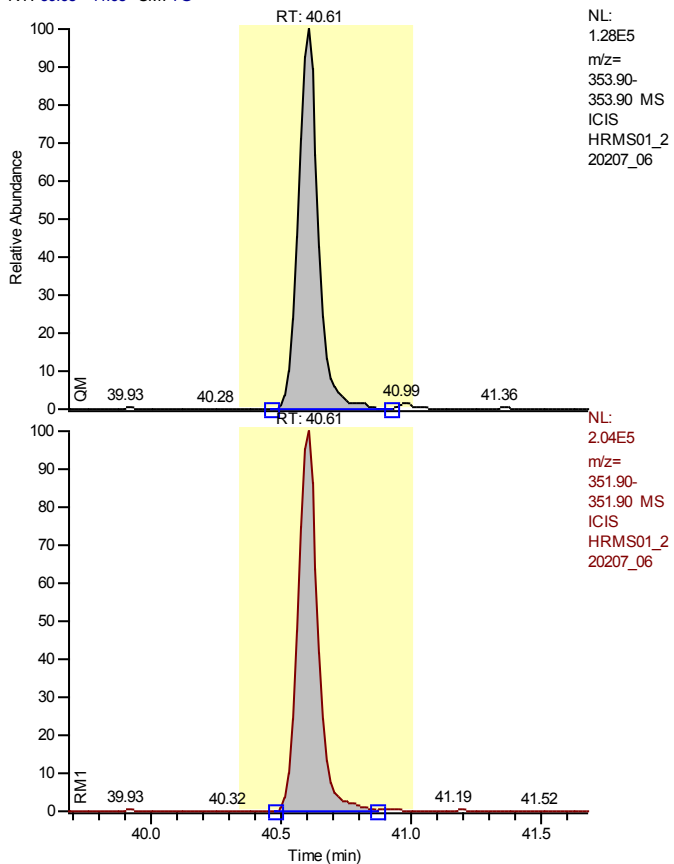
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.68 - 41.68 SM: 7G

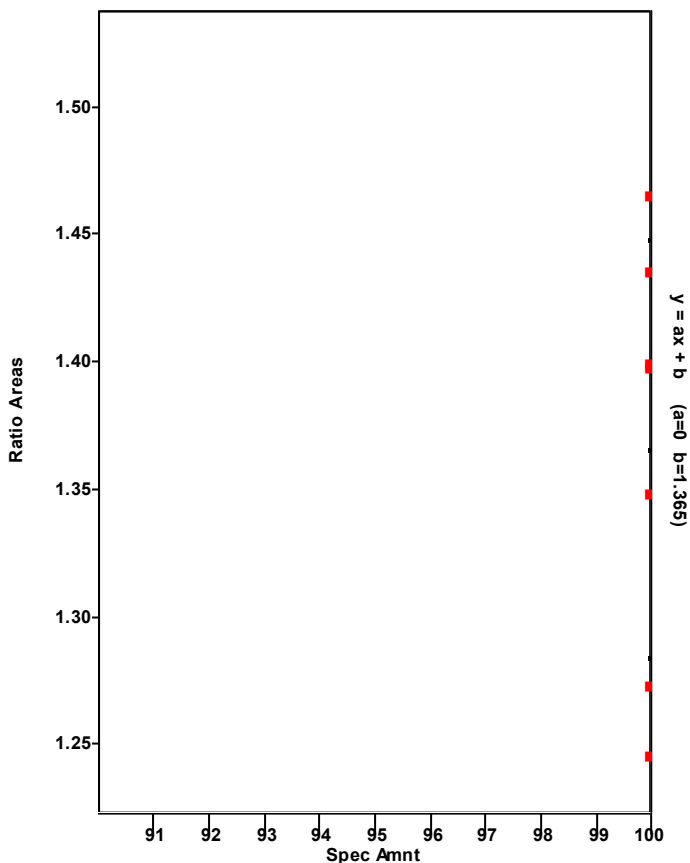


Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	691540
RM1 Area	1095895
RM1 Ratio (A)	1.5847
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	62.16
Percent Recovery (A)	62
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

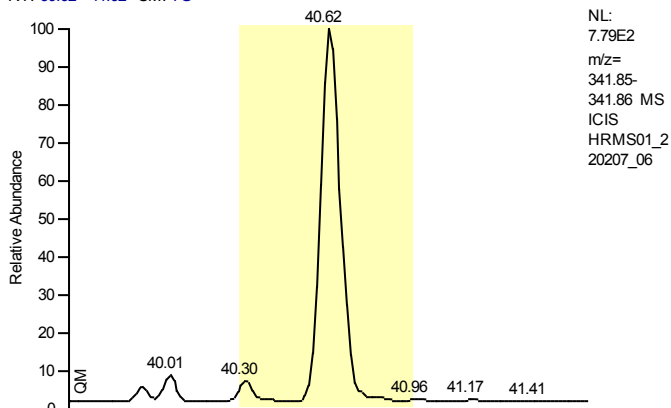
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



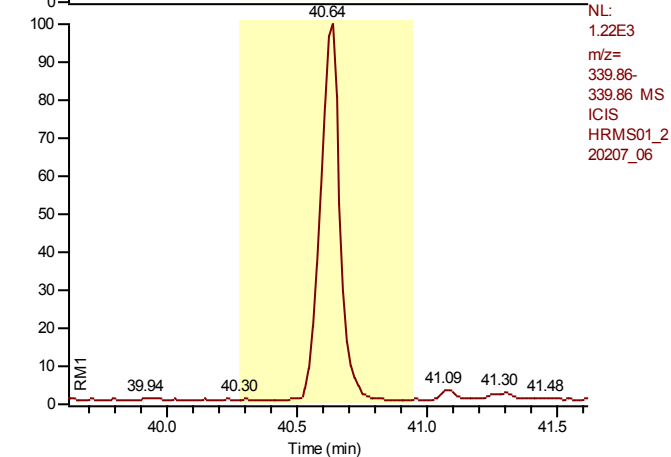
Chromatogram

Entry Parameters

RT: 39.62 - 41.62 SM: 7G



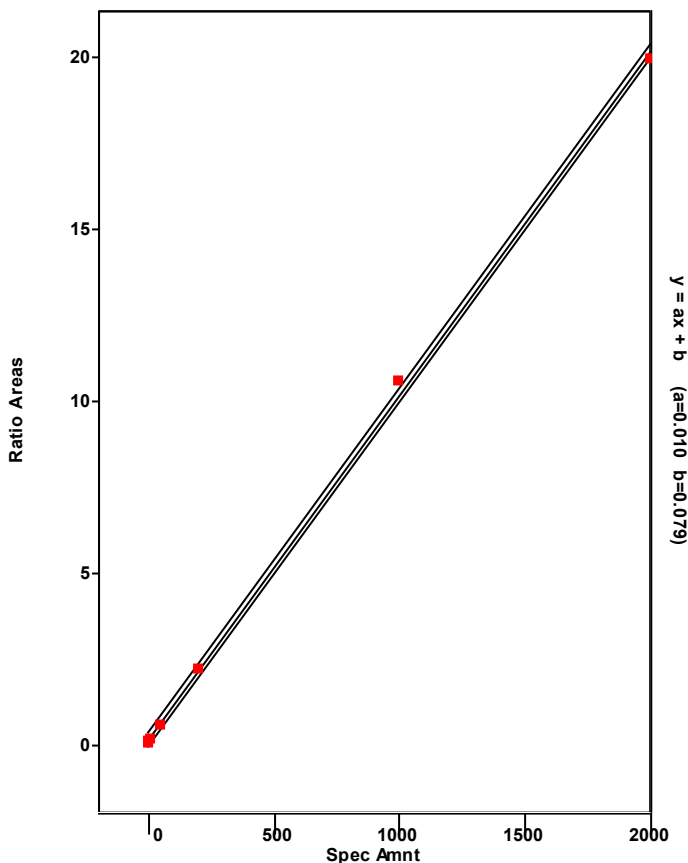
Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

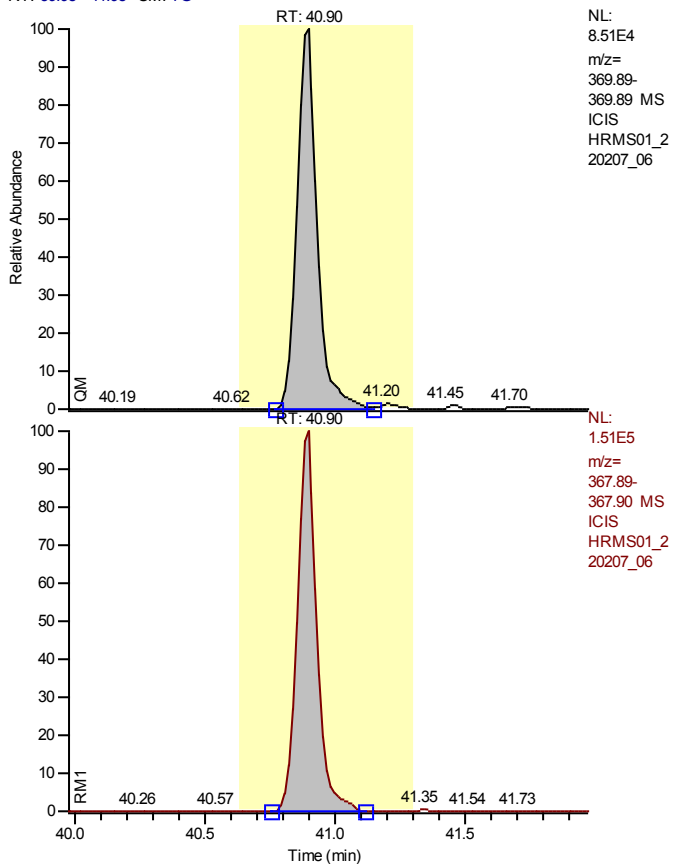
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



Chromatogram

Entry Parameters

RT: 39.98 - 41.98 SM: 7G

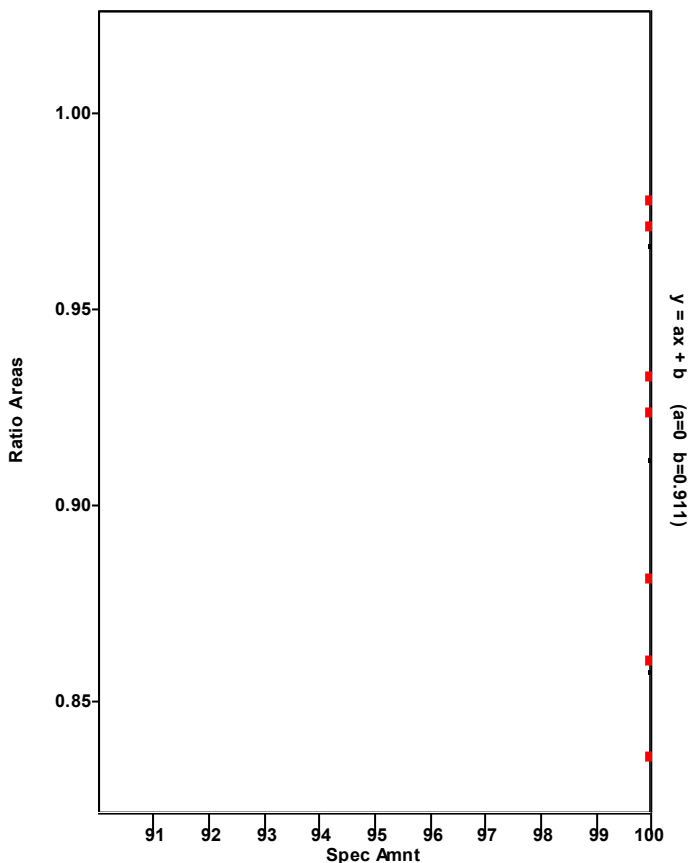


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	466697
RM1 Area	799094
RM1 Ratio (A)	1.7122
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	65.93
Percent Recovery (A)	66
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

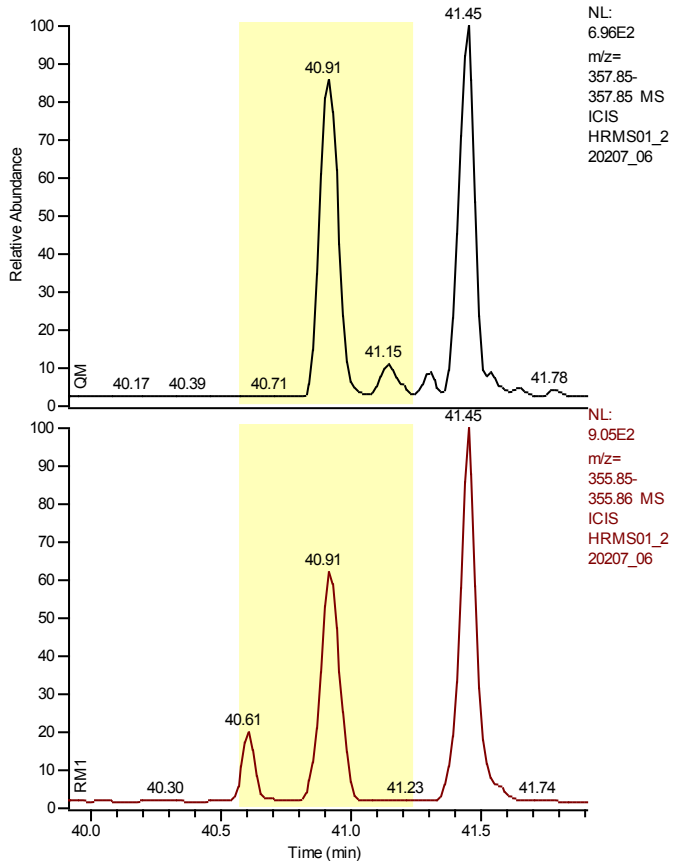
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.91 - 41.91 SM: 7G

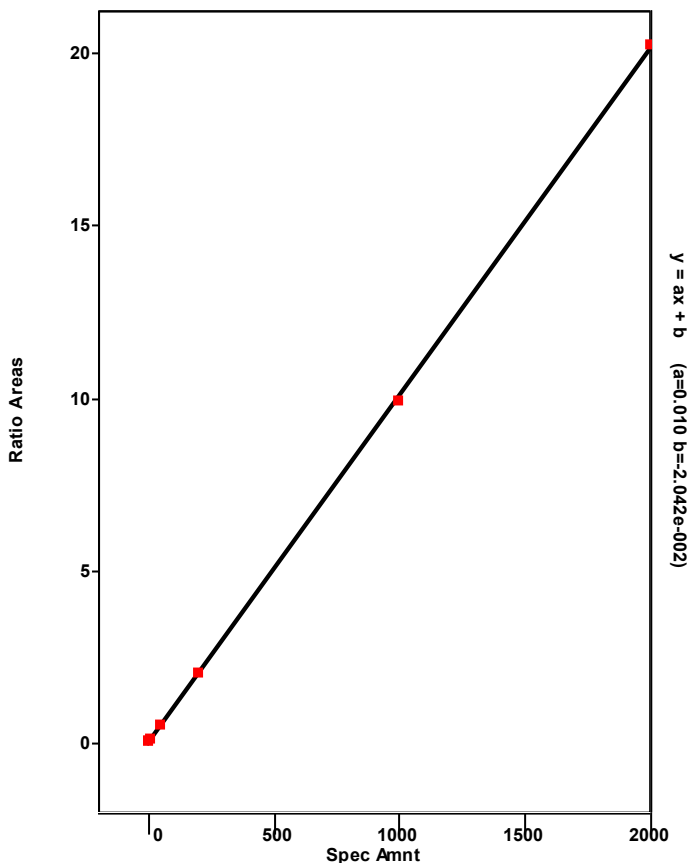


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

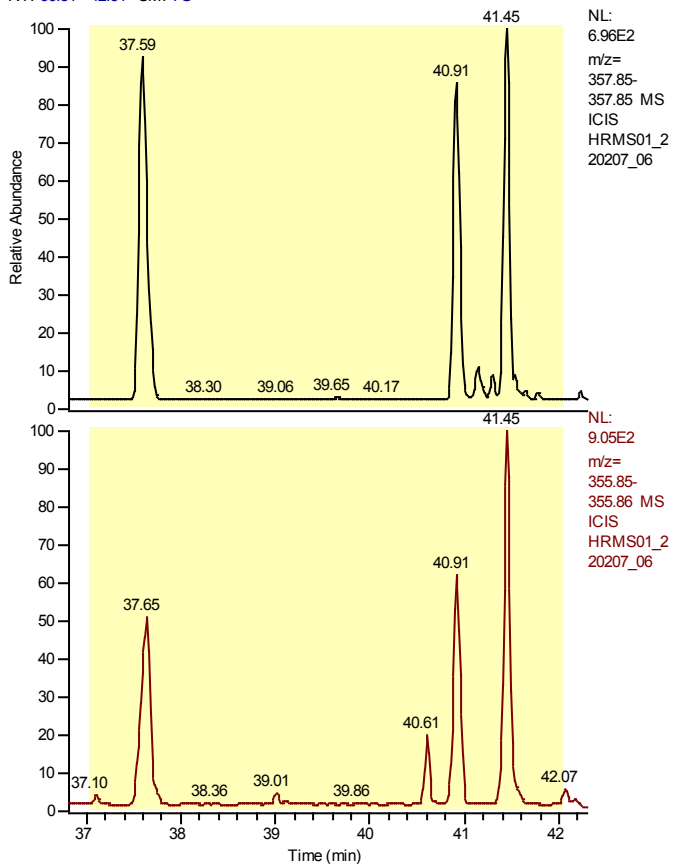
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.81 - 42.31 SM: 7G

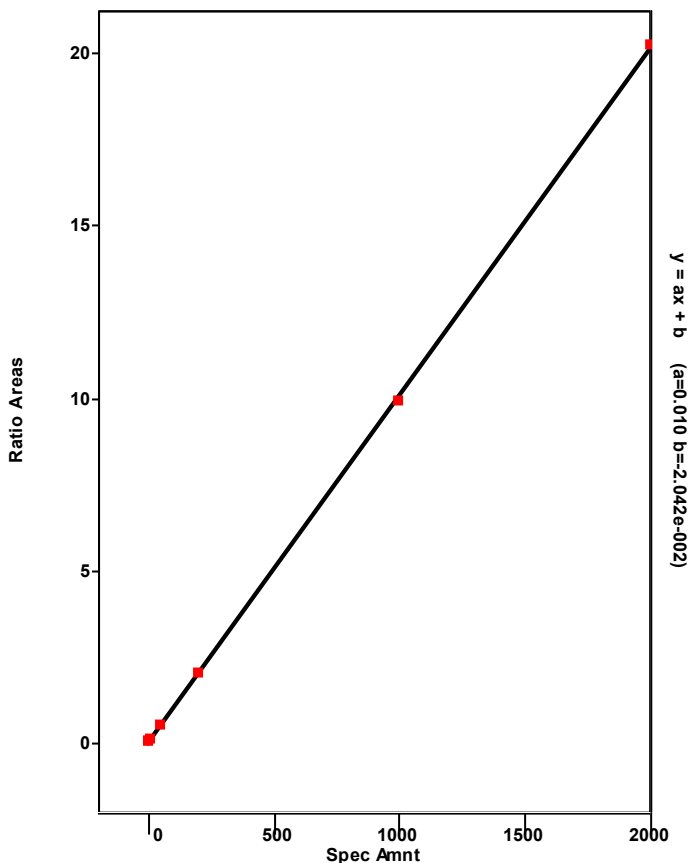


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

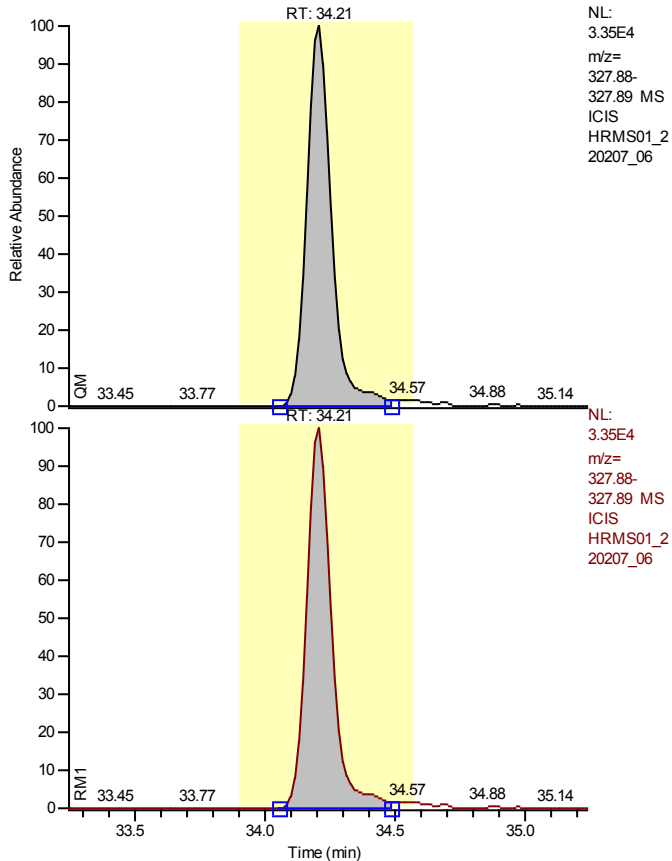
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.24 - 35.24 SM: 7G

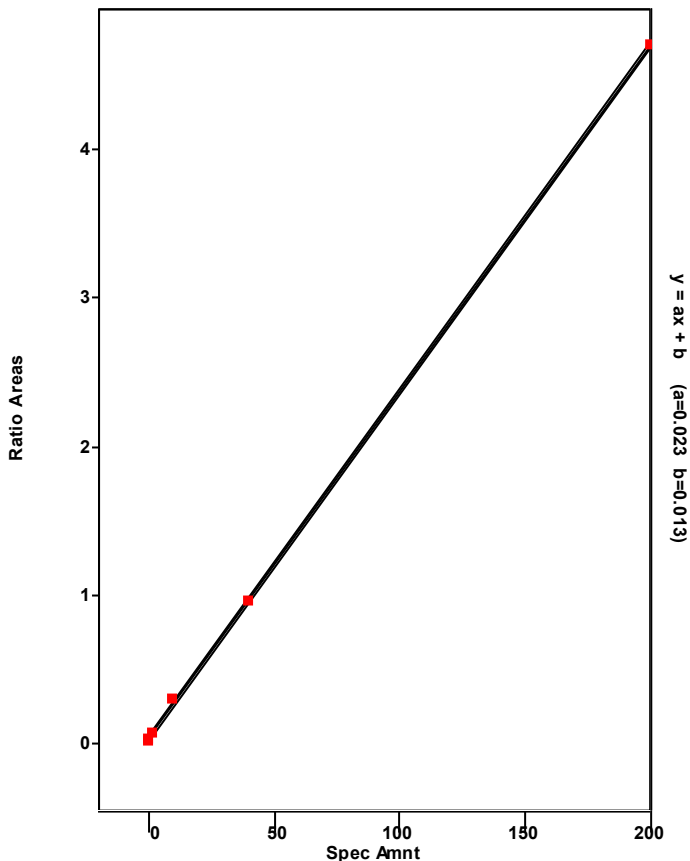


Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	220938
RM1 Area	220938
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	8.37
Percent Recovery (A)	84
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

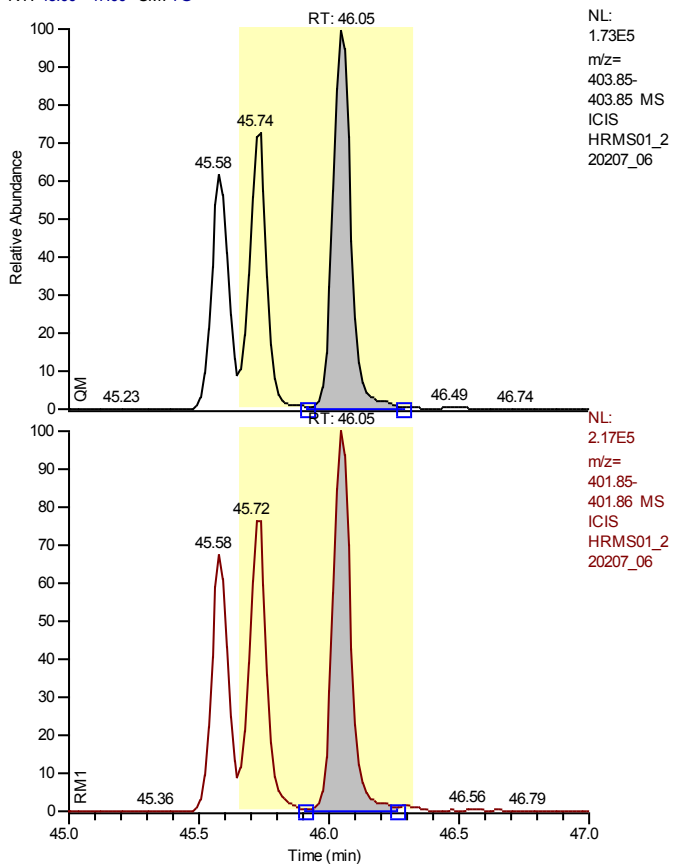
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

Entry Parameters

RT: 45.00 - 47.00 SM: 7G

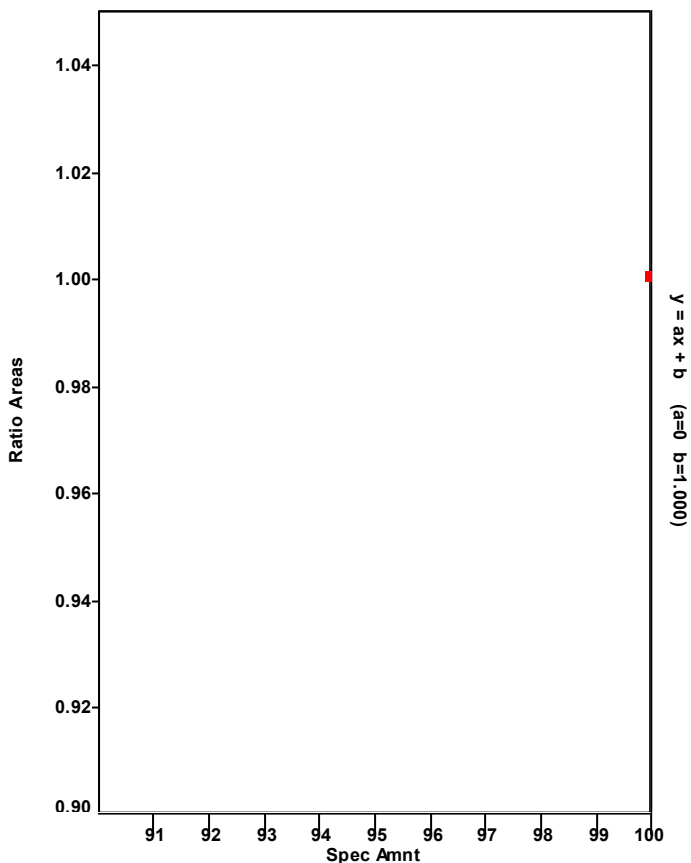


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	840003
RM1 Area	1050643
RM1 Ratio (A)	1.2508
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

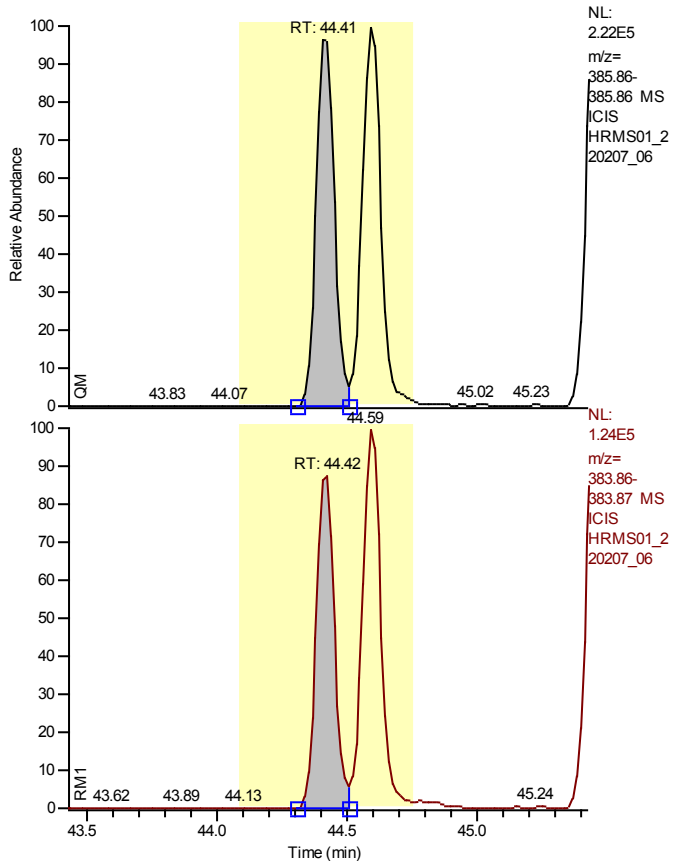
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G

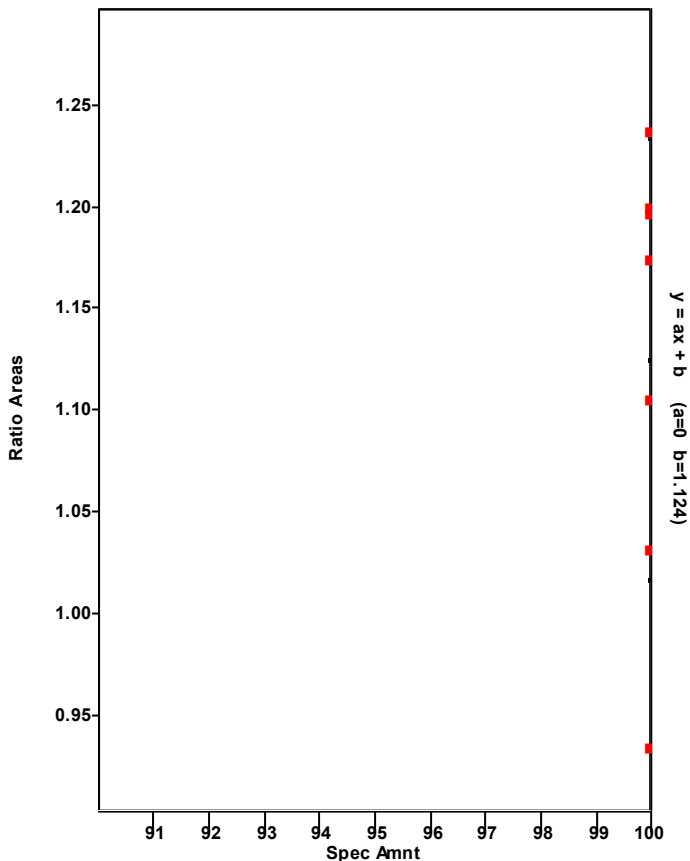


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	1038140
RM1 Area	525889
RM1 Ratio (A)	0.5066
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	73.63
Percent Recovery (A)	74
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

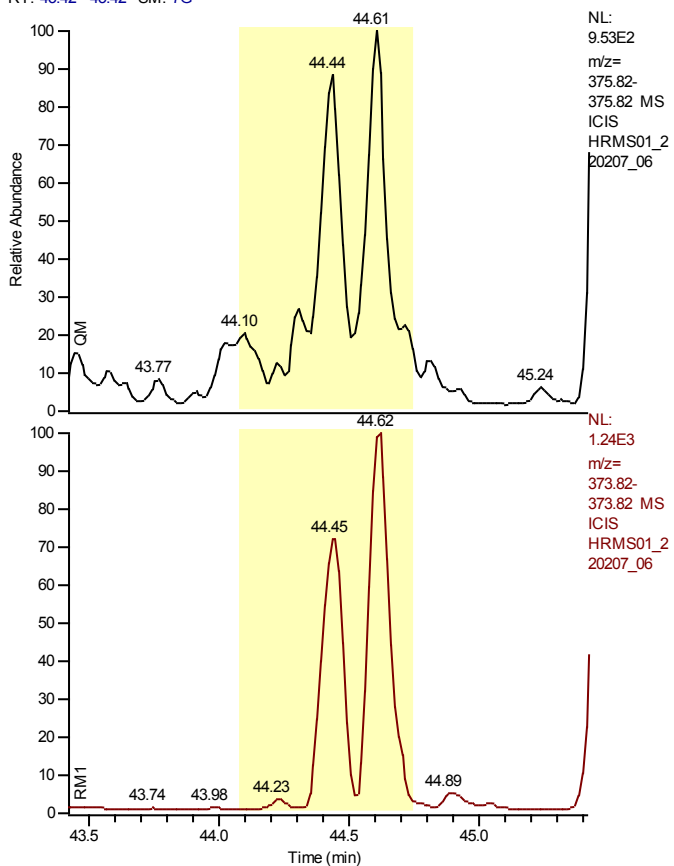
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.42 - 45.42 SM: 7G

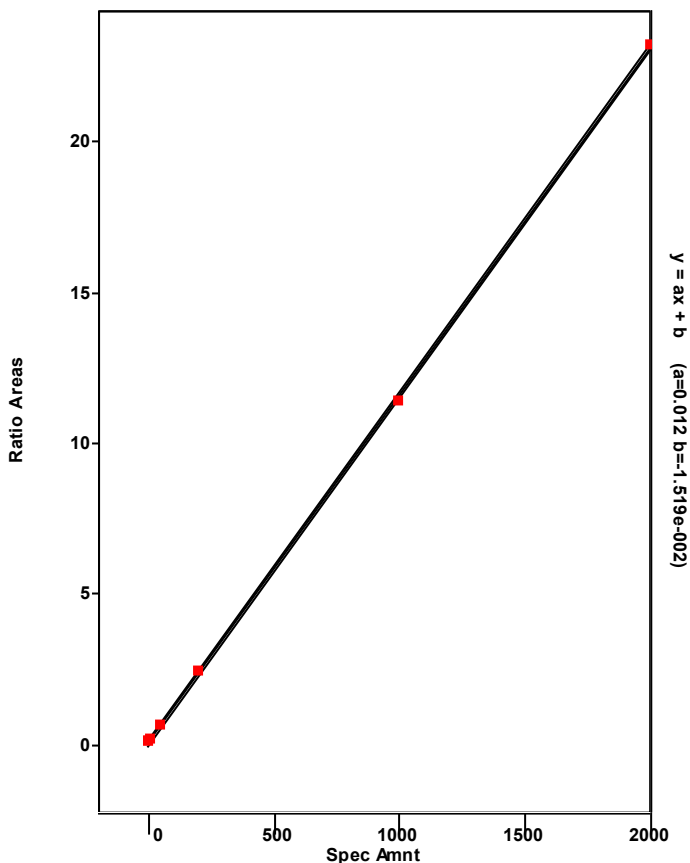


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

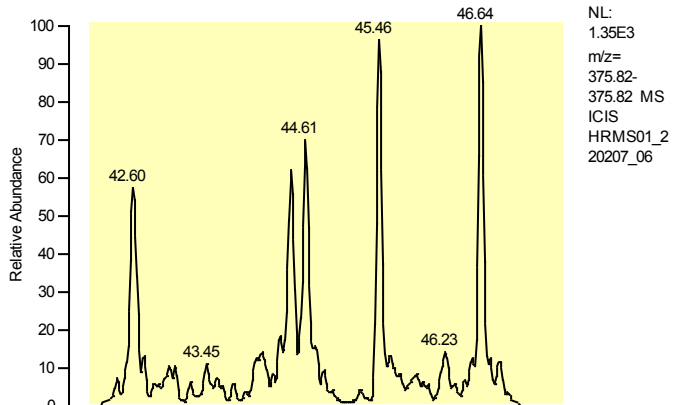
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



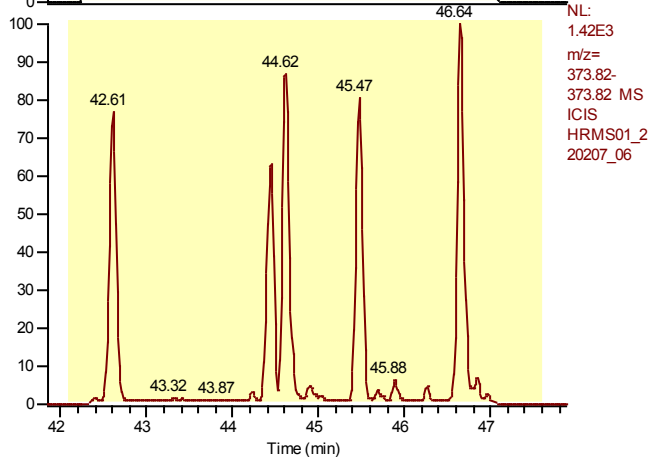
Chromatogram

Entry Parameters

RT: 41.84 - 47.89 SM: 7G



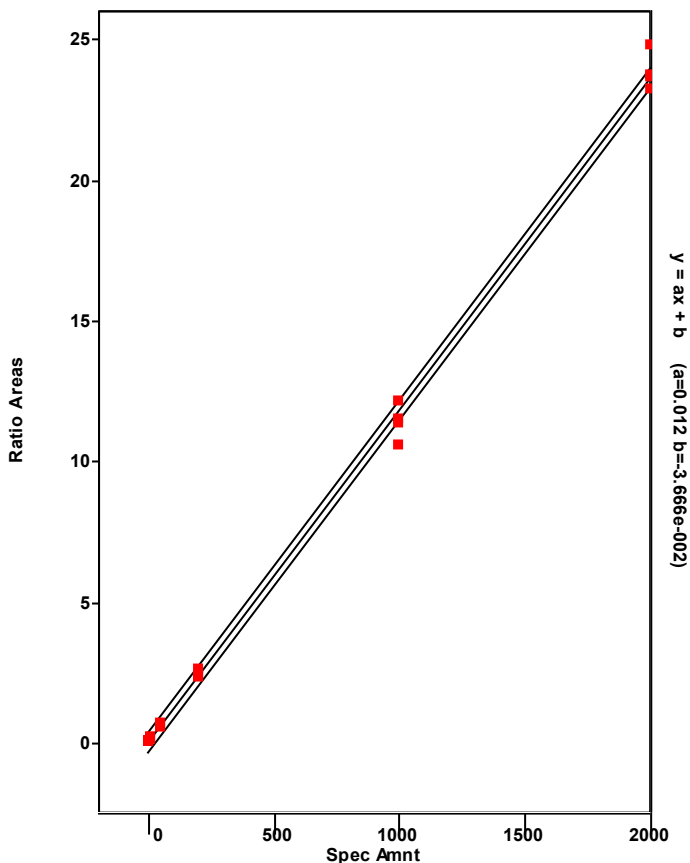
Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

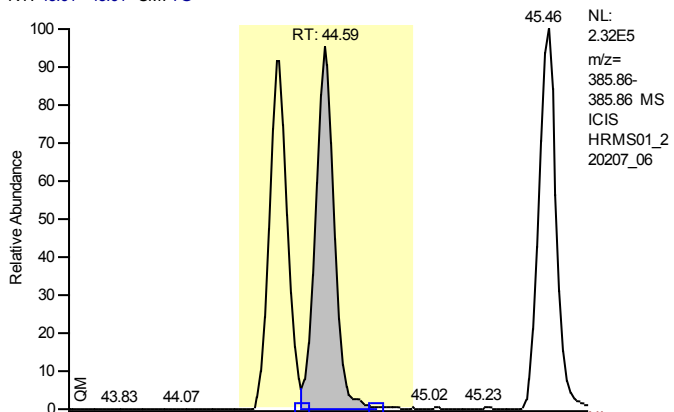
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



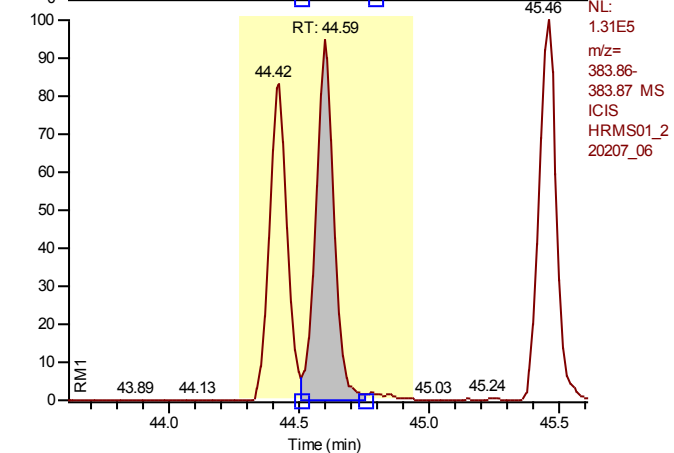
Chromatogram

Entry Parameters

RT: 43.61 - 45.61 SM: 7G



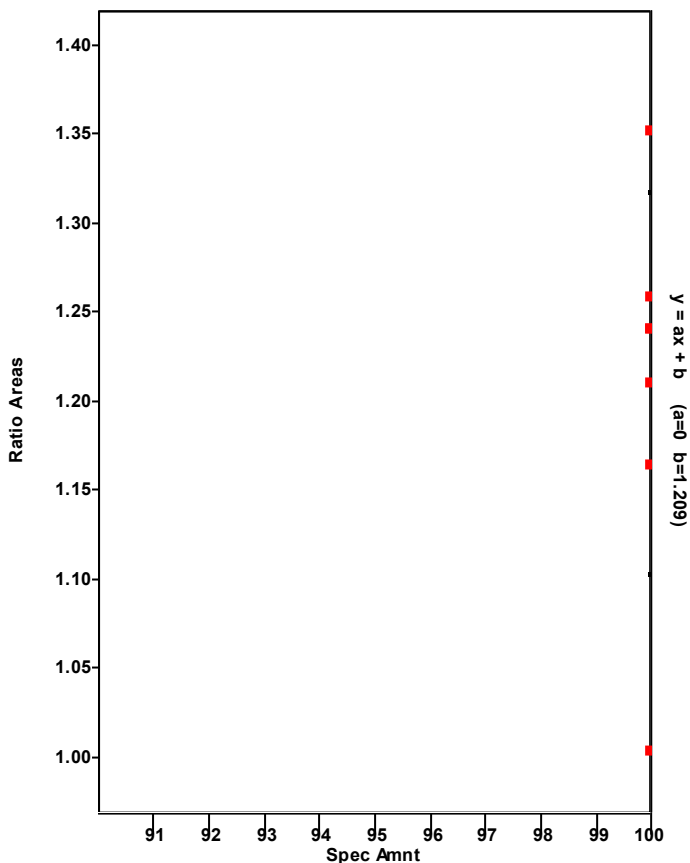
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1098971
RM1 Area	604588
RM1 Ratio (A)	0.5501
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	74.56
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

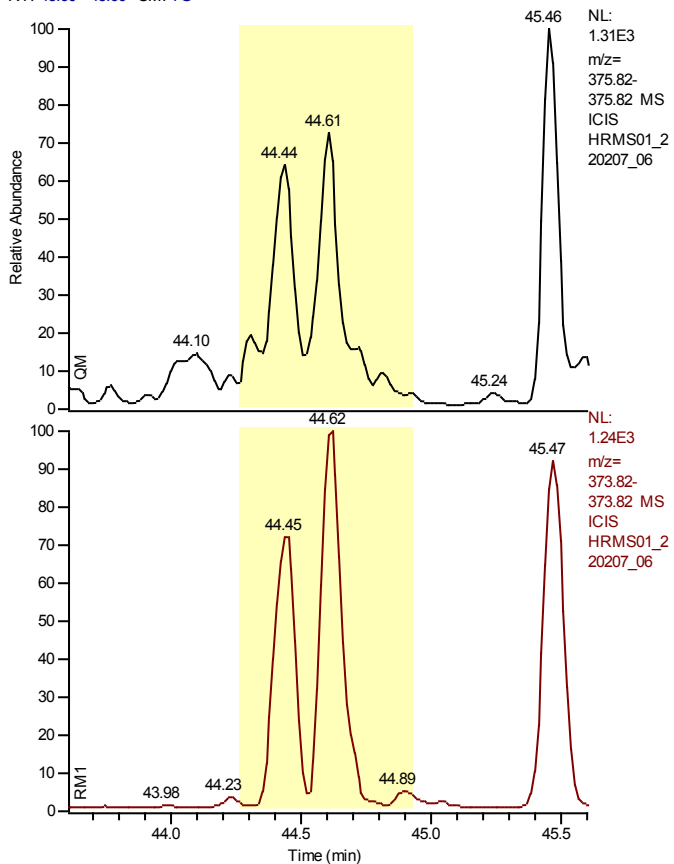
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.60 - 45.60 SM: 7G

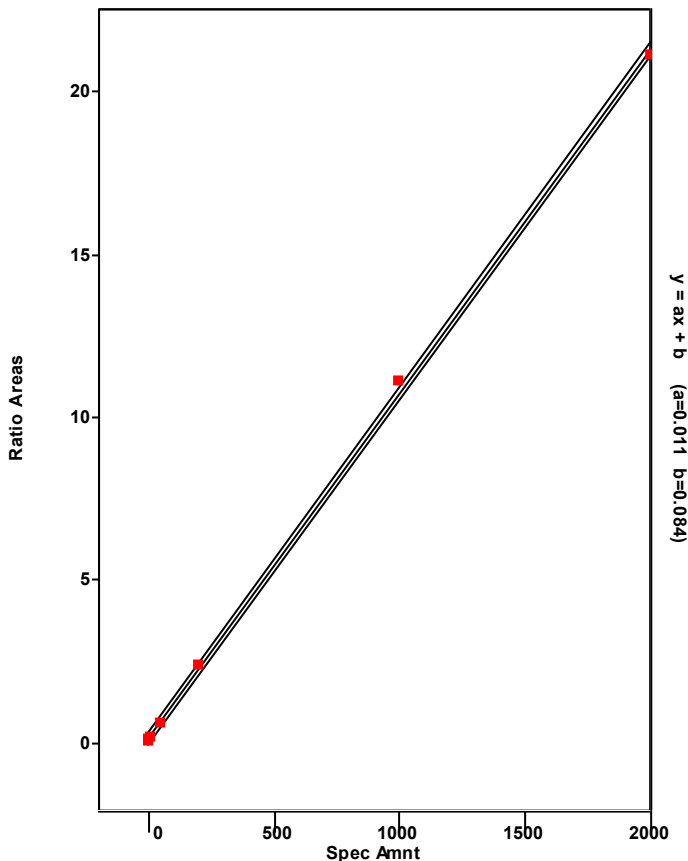


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

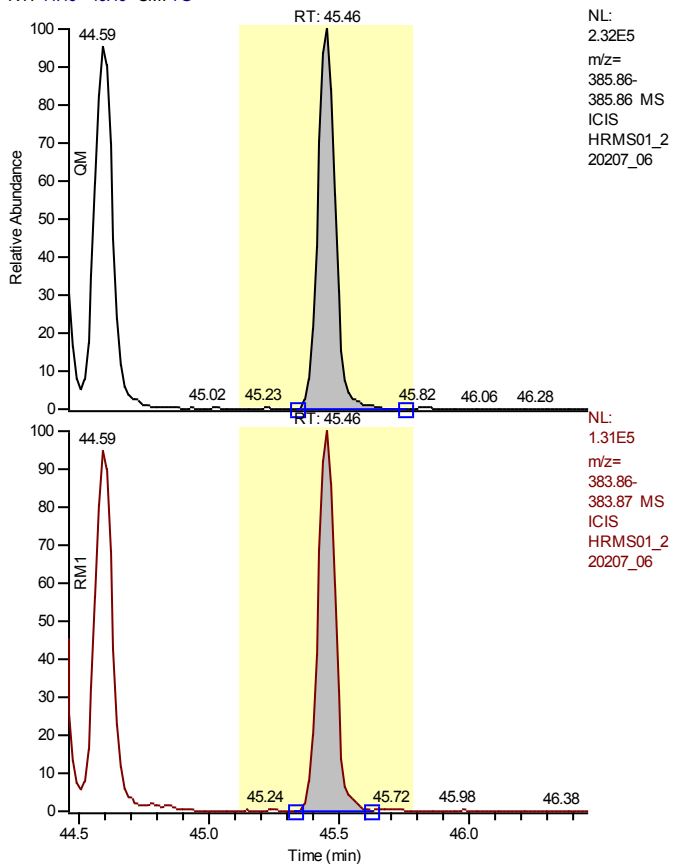
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

Entry Parameters

RT: 44.46 - 46.46 SM: 7G



NL:
 2.32E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_06

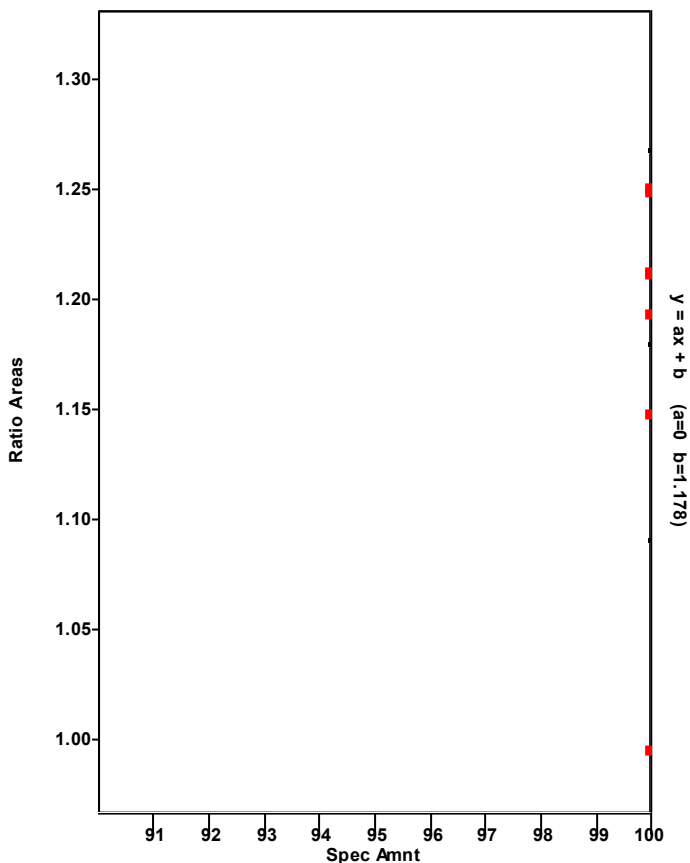
Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	1085196
RM1 Area	604460
RM1 Ratio (A)	0.5570
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	75.87
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

NL:
 1.31E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_06

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

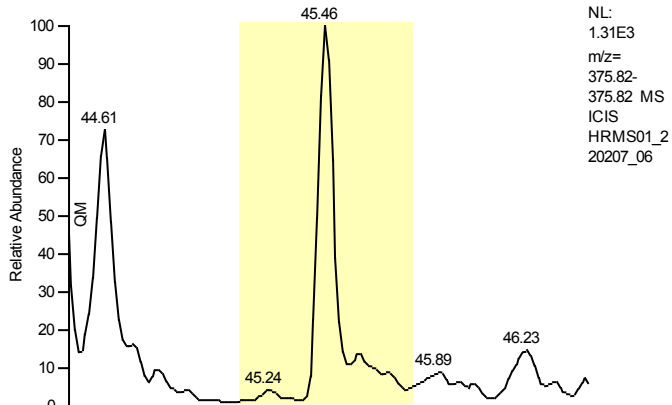
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



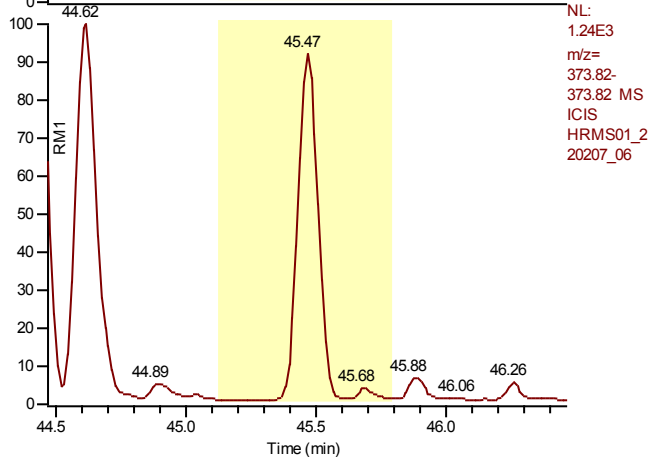
Chromatogram

Entry Parameters

RT: 44.47 - 46.47 SM: 7G



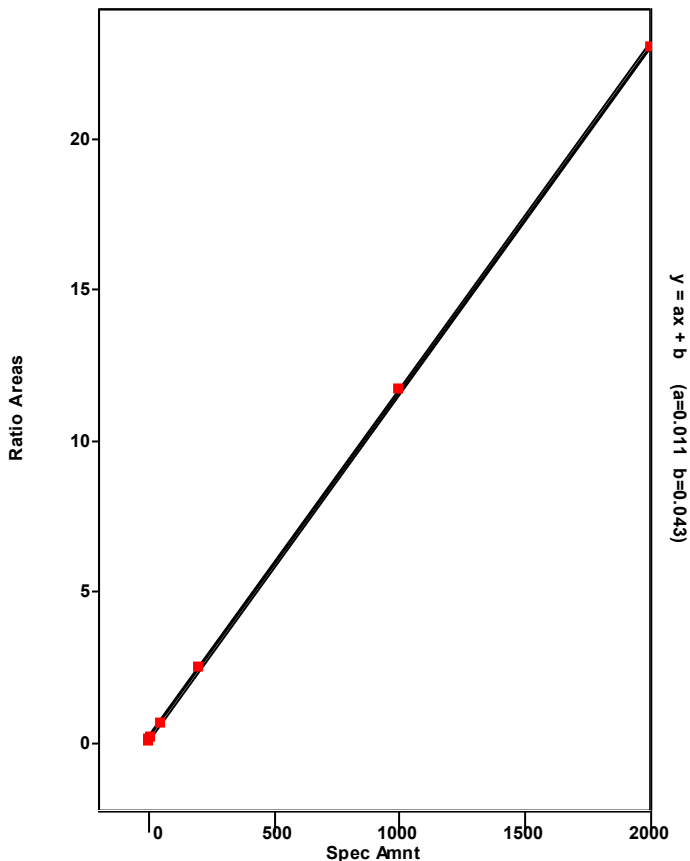
Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

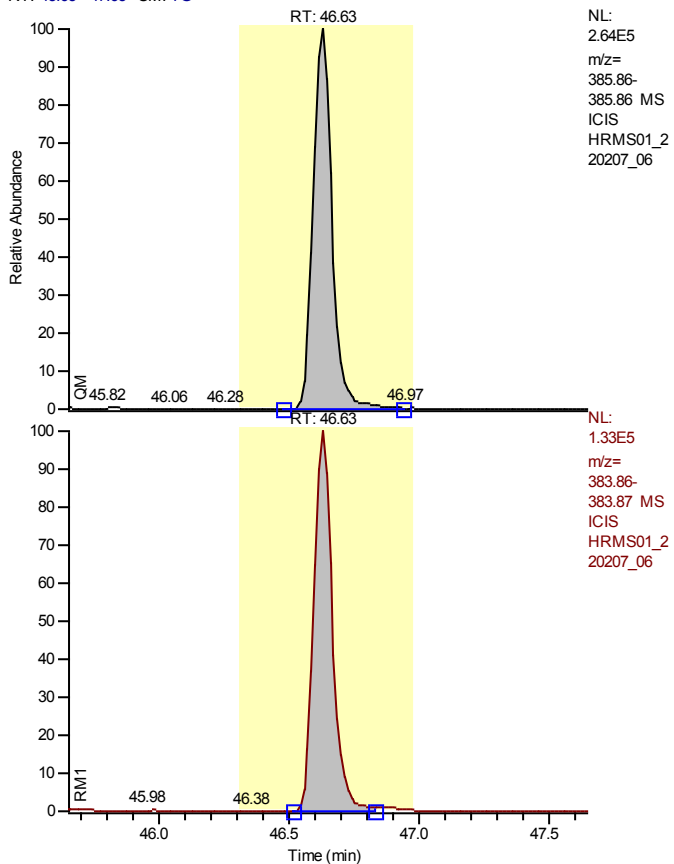
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G

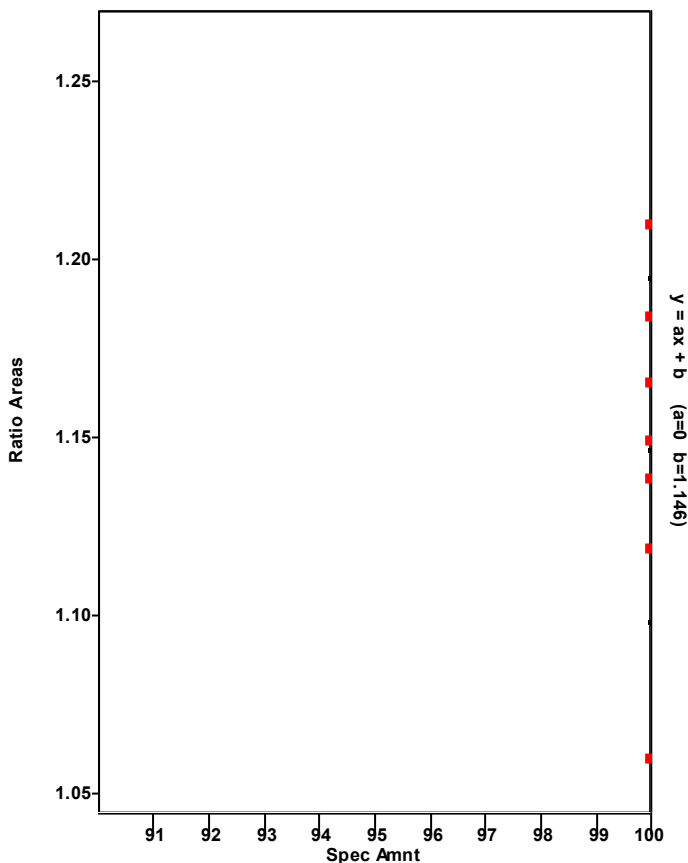


Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	1317368
RM1 Area	653153
RM1 Ratio (A)	0.4958
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	90.97
Percent Recovery (A)	91
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

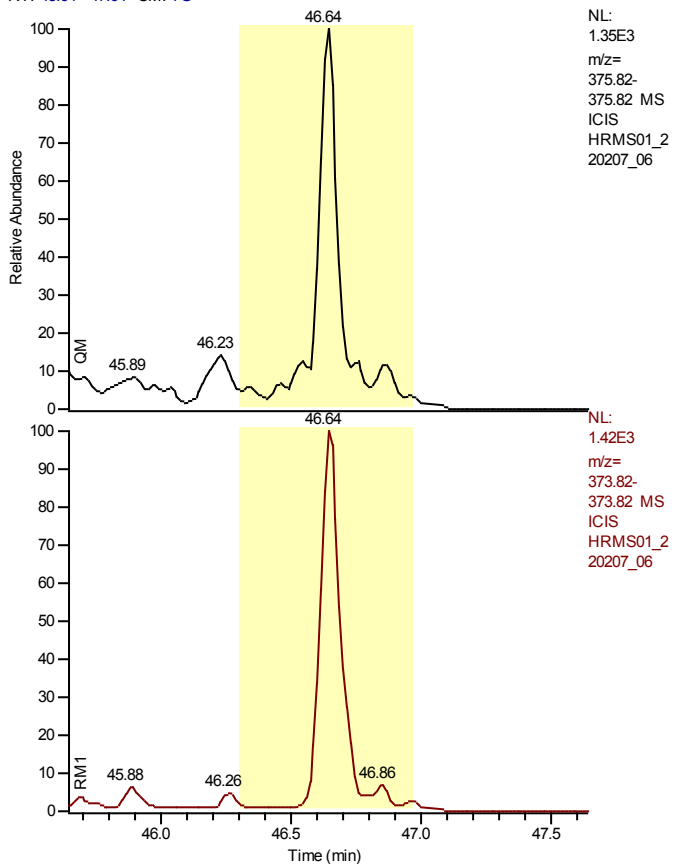
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.64 - 47.64 SM: 7G

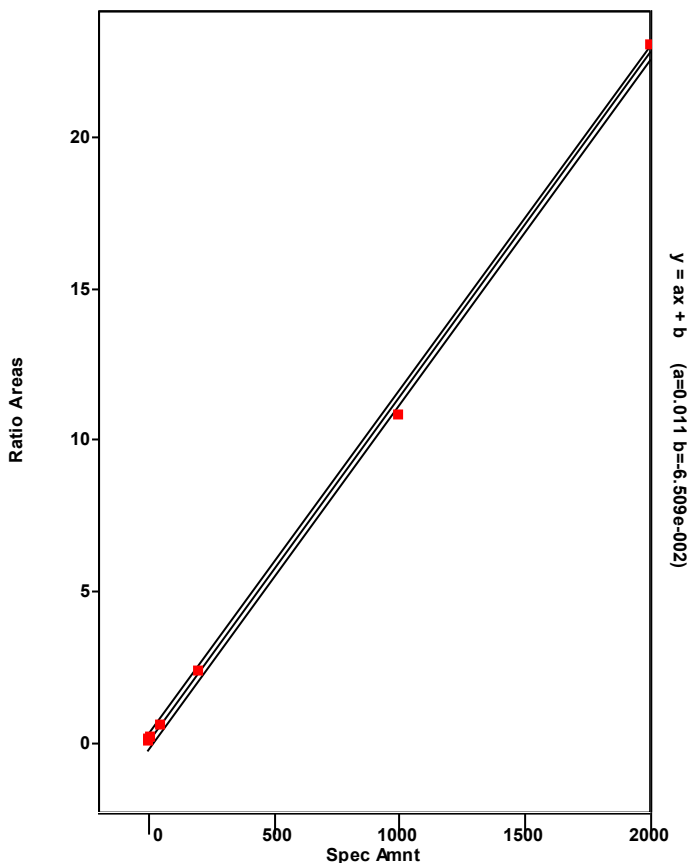


Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

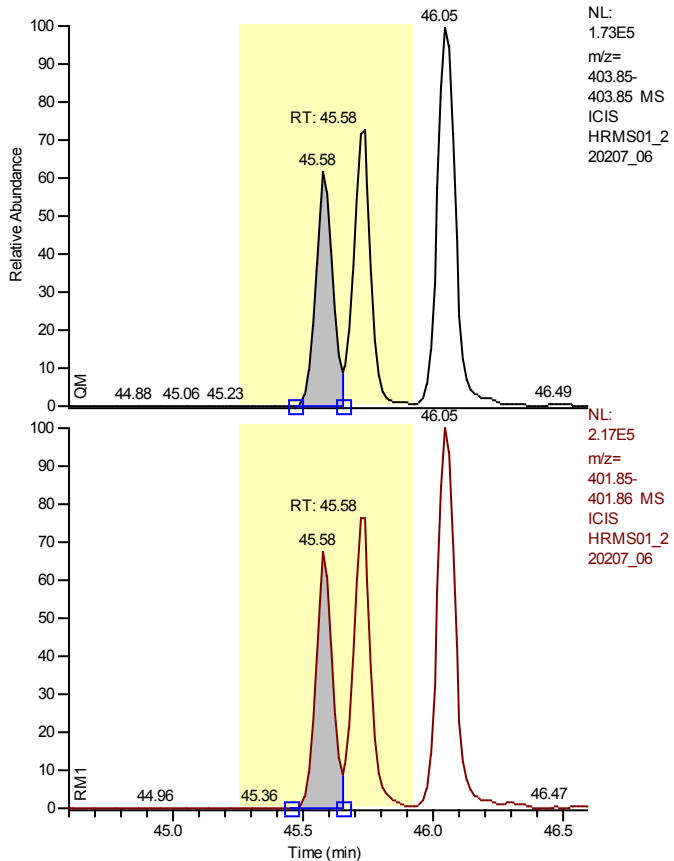
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

RT: 44.60 - 46.60 SM: 7G



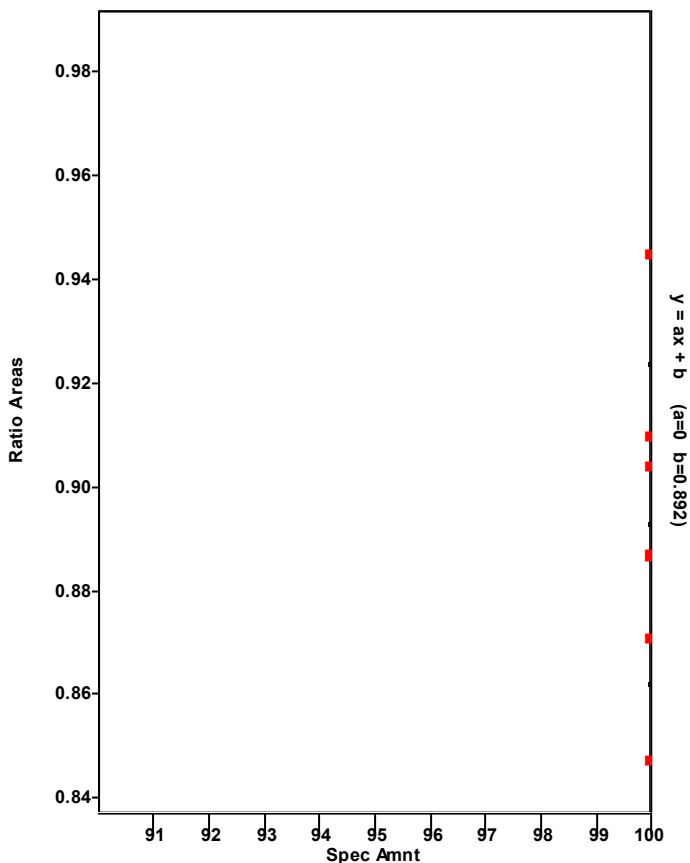
NL: 1.73E5
 m/z= 403.85- MS
 ICIS HRMS01_2
 20207_06

Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	483866
RM1 Area	647827
RM1 Ratio (A)	1.3389
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	67.08
Percent Recovery (A)	67
TEQ (A)	0.0000
Label2	

NL: 2.17E5
 m/z= 401.85- MS
 ICIS HRMS01_2
 20207_06

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

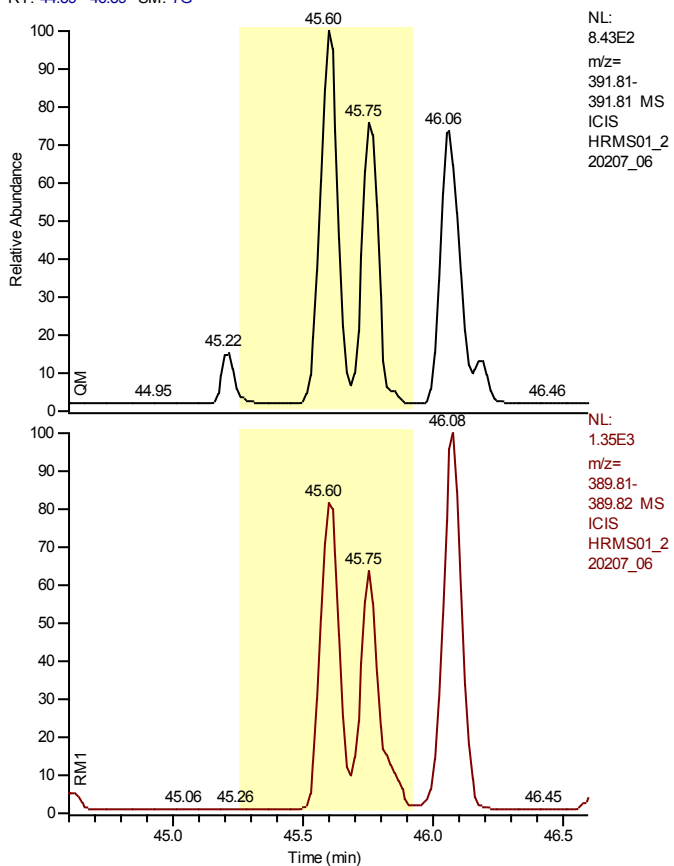
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.59 - 46.59 SM: 7G

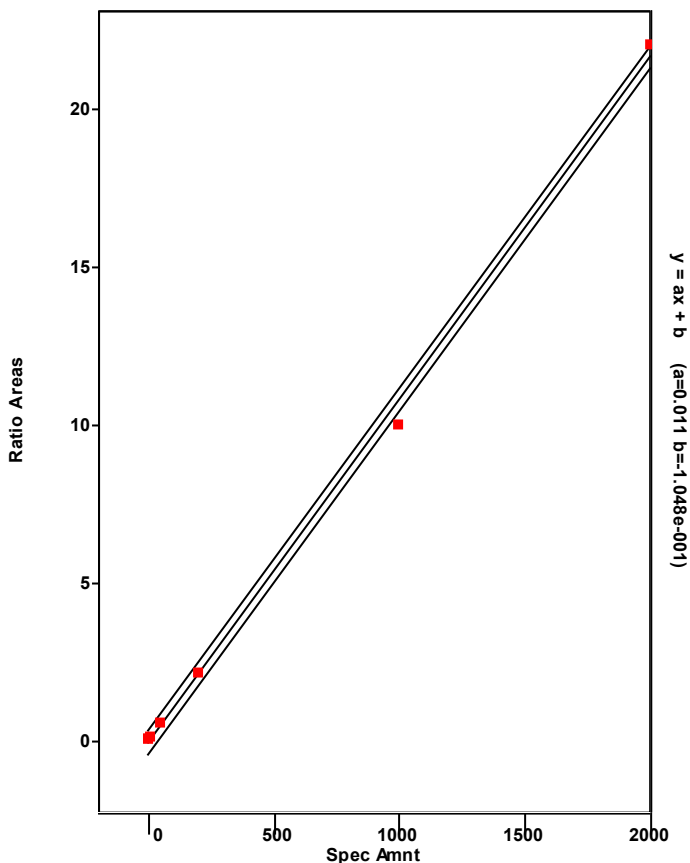


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

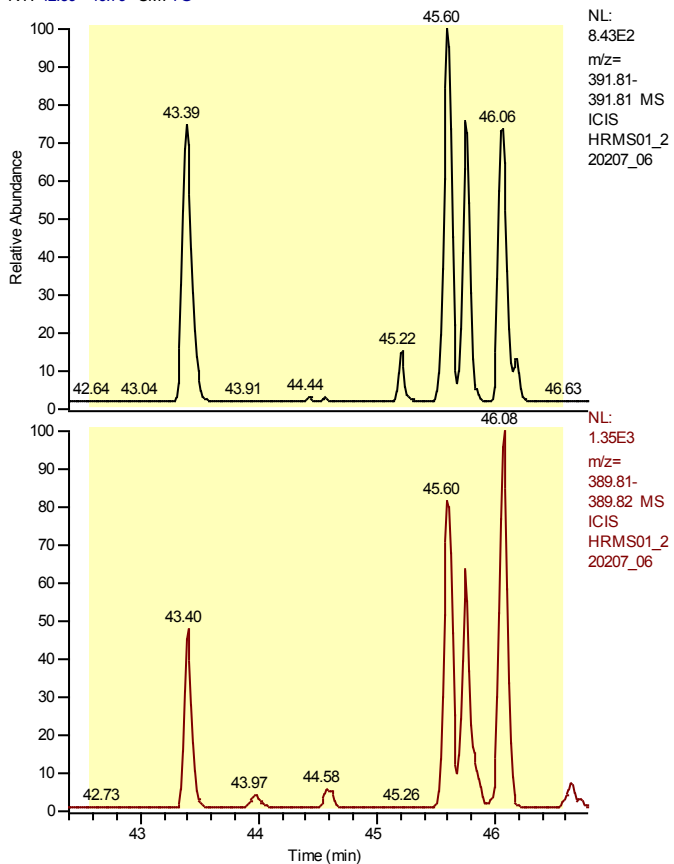
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.39 - 46.79 SM: 7G



NL:
 8.43E2
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_06

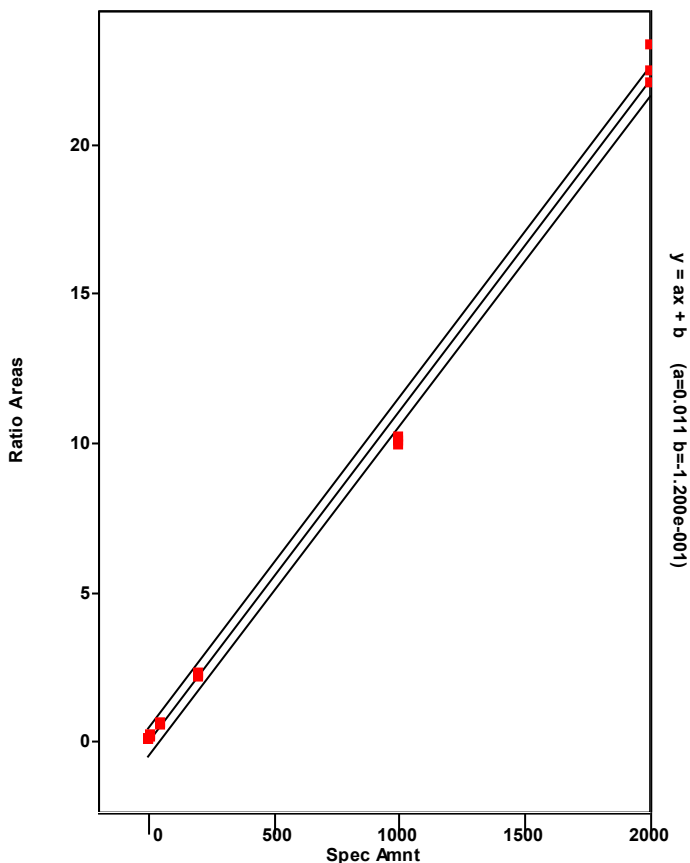
NL:
 1.35E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_06

Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

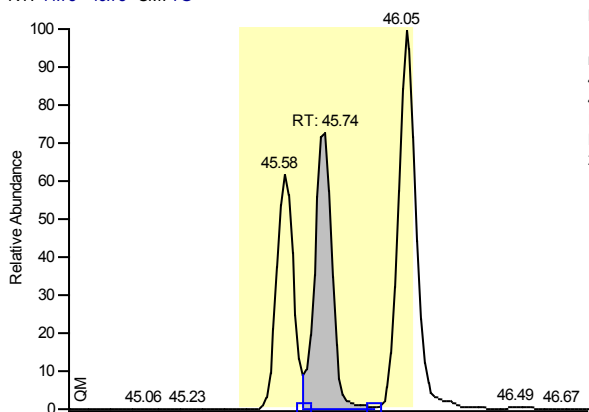
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

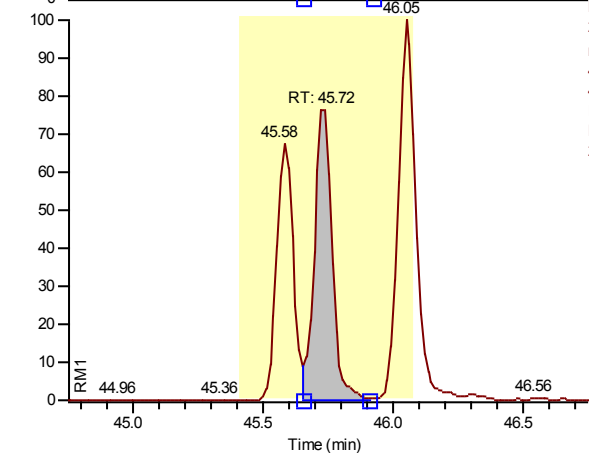
Entry Parameters

RT: 44.75 - 46.75 SM: 7G



NL:
 1.73E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_06

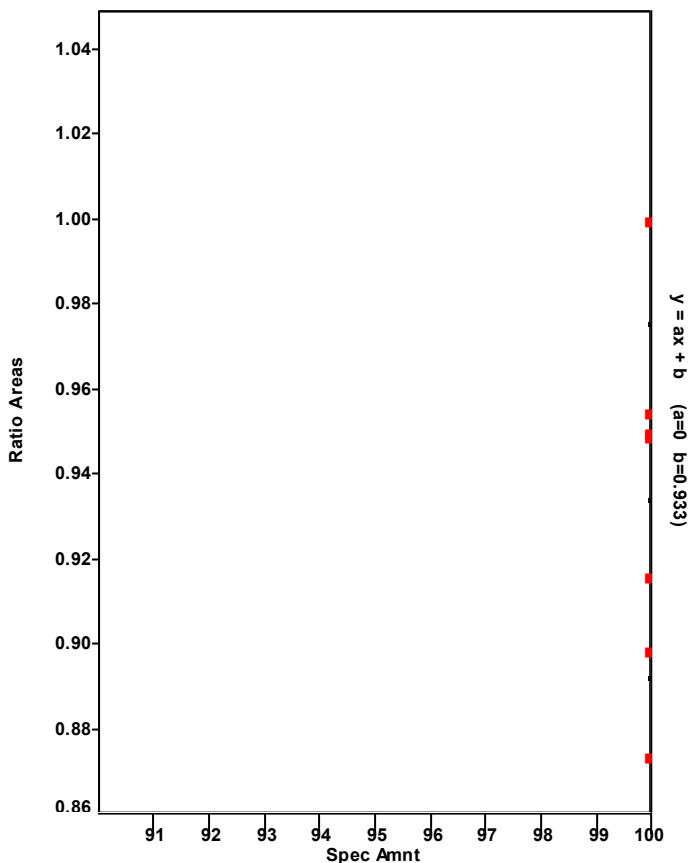
Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	589797
RM1 Area	797092
RM1 Ratio (A)	1.3515
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	78.60
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	



NL:
 2.17E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_06

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

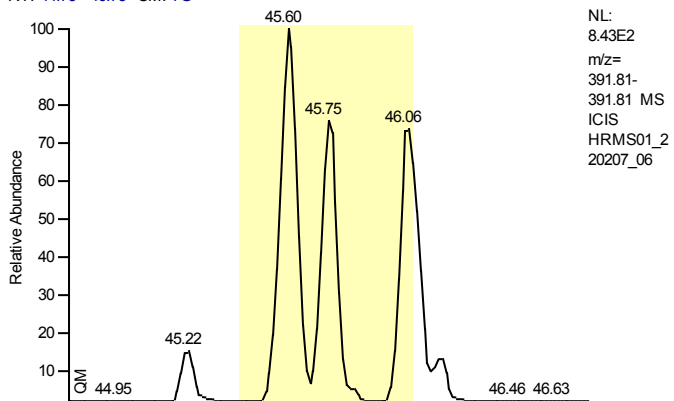
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



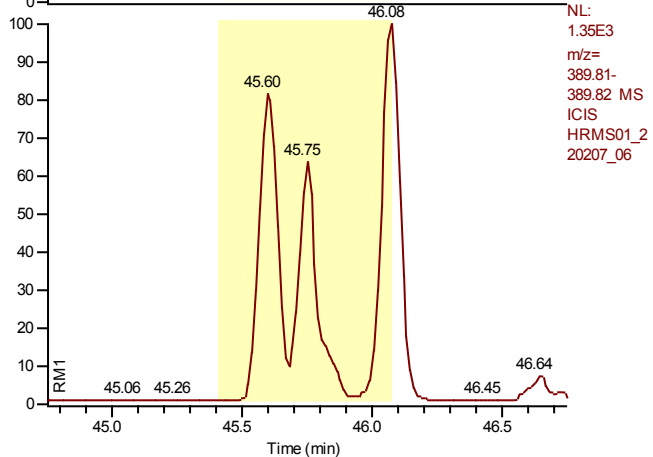
Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G



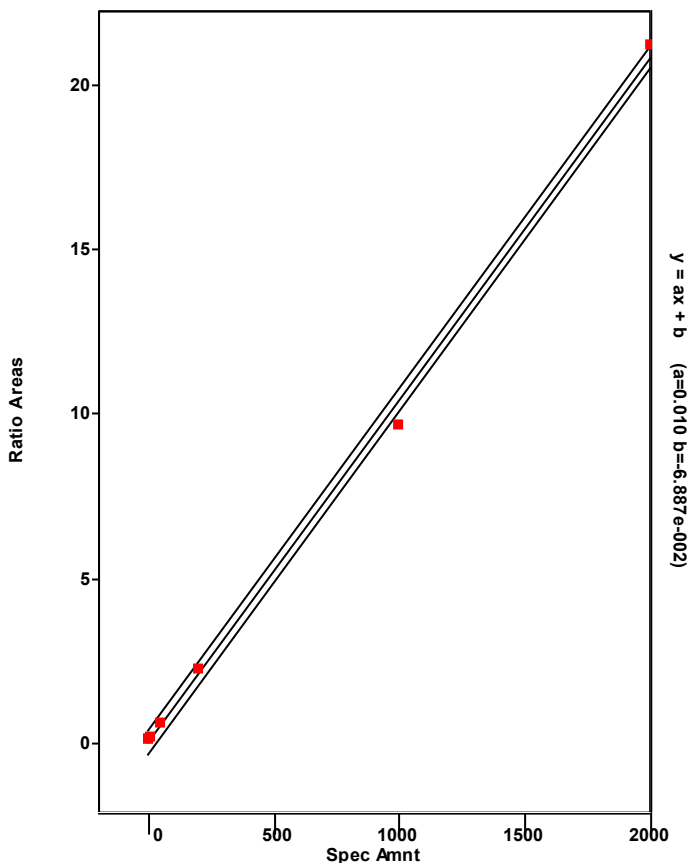
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

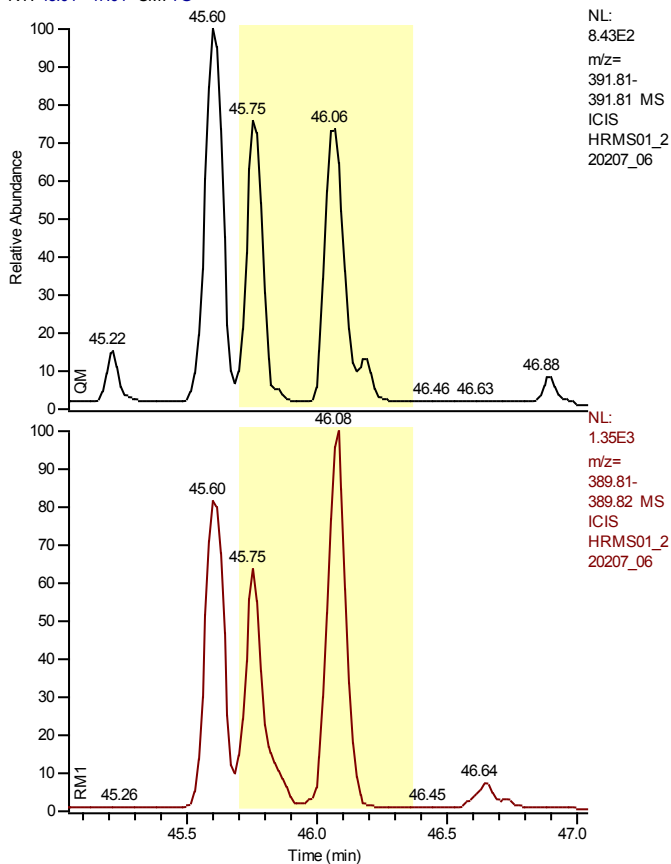
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

Entry Parameters

RT: 45.04 - 47.04 SM: 7G



NL:
 8.43E2
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_06

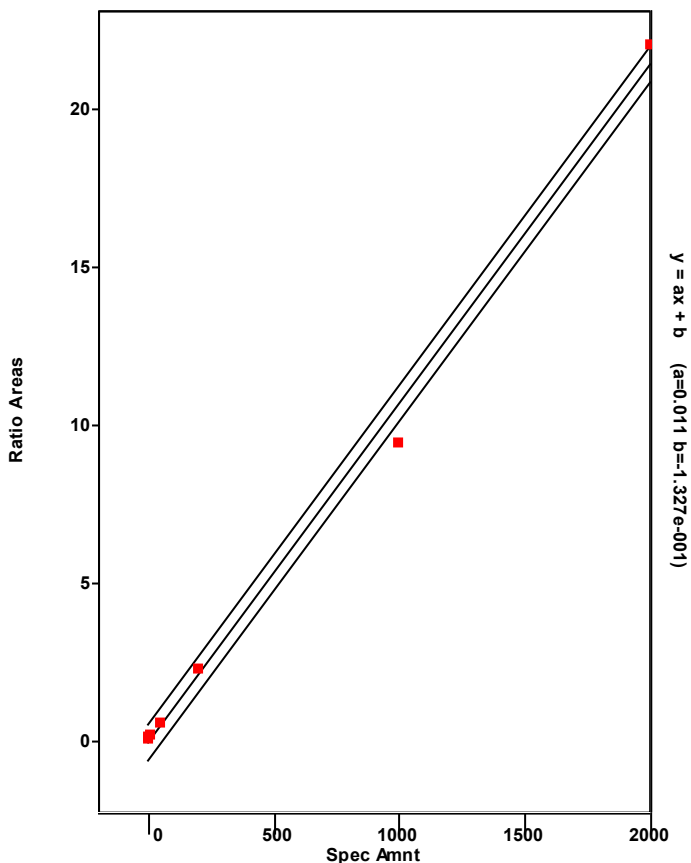
NL:
 1.35E3
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_06

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

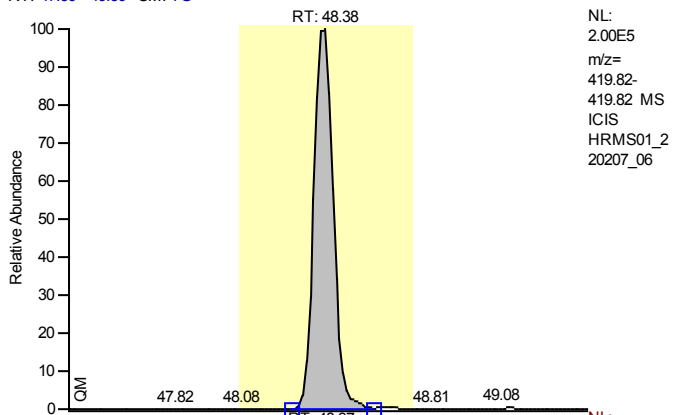
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



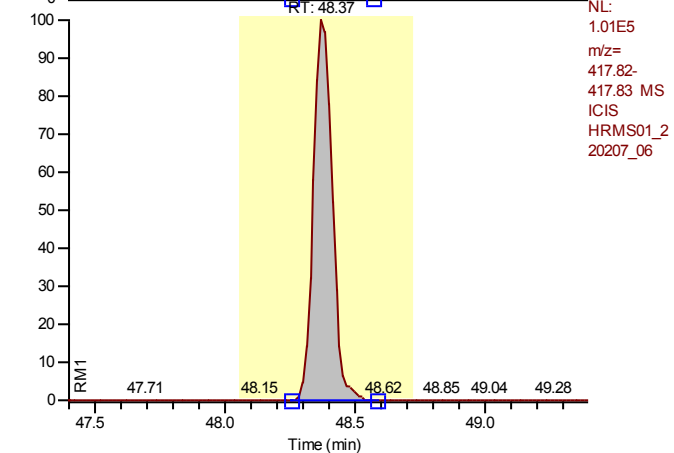
Chromatogram

Entry Parameters

RT: 47.39 - 49.39 SM: 7G

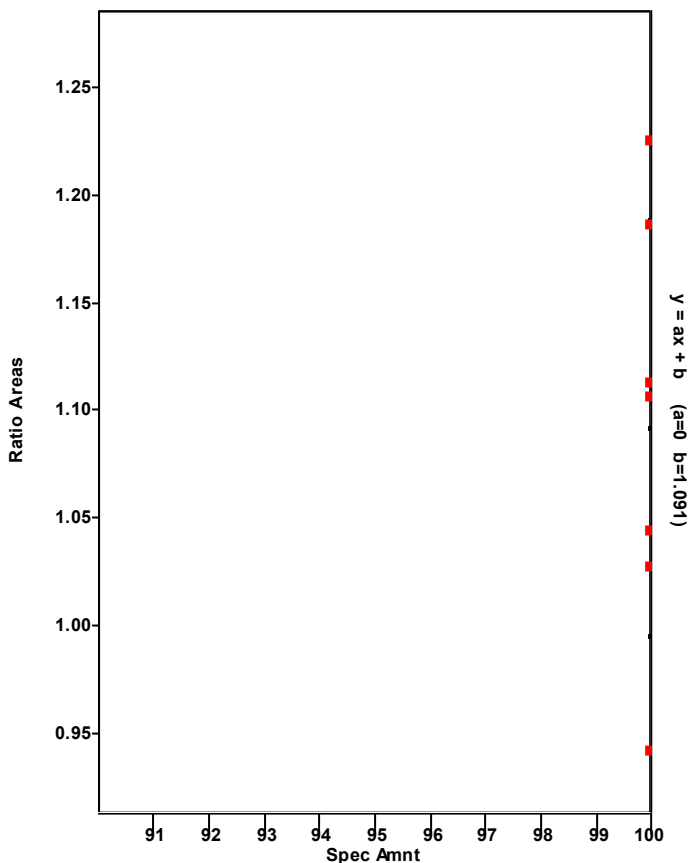


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	1038814
RM1 Area	506984
RM1 Ratio (A)	0.4880
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	74.97
Percent Recovery (A)	75
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

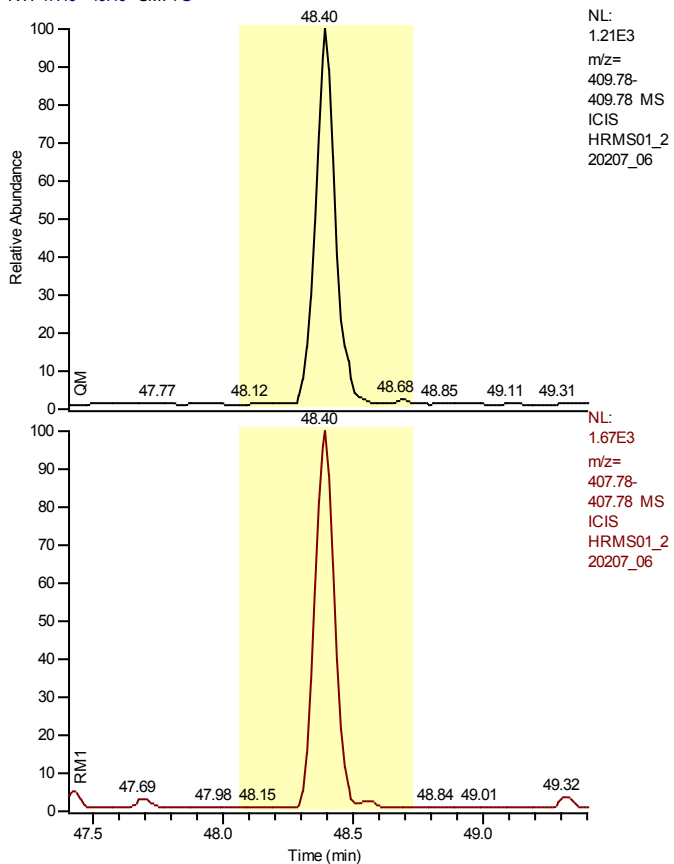
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

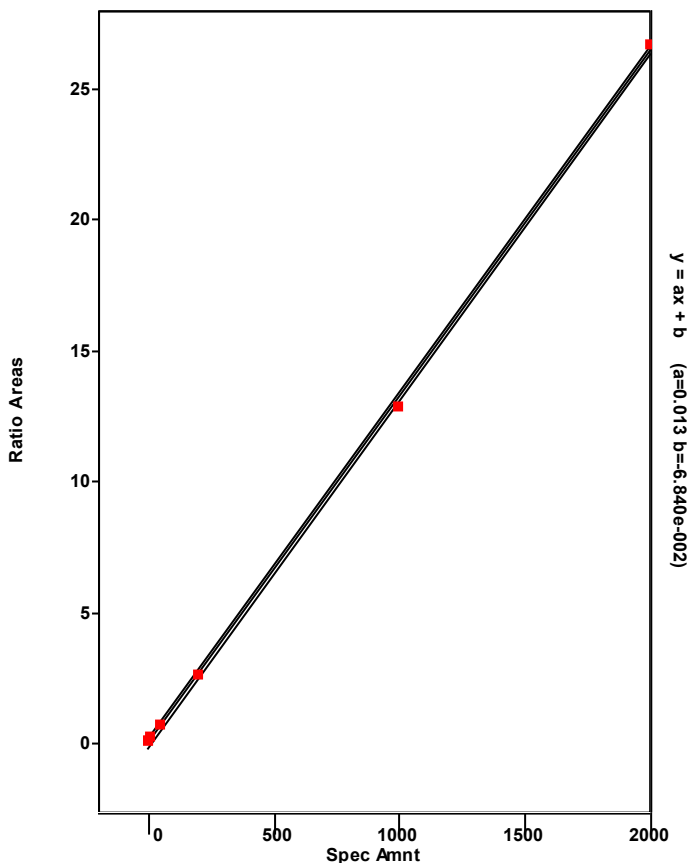


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

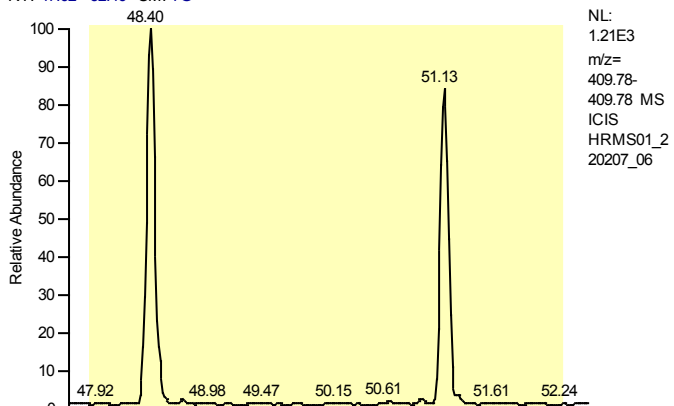
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



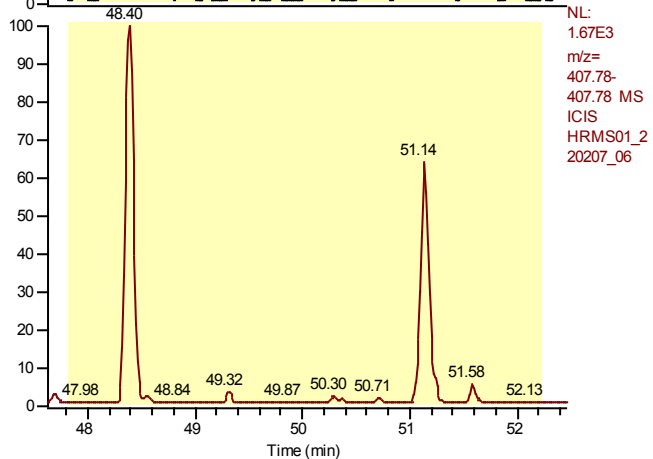
Chromatogram

Entry Parameters

RT: 47.62 - 52.46 SM: 7G



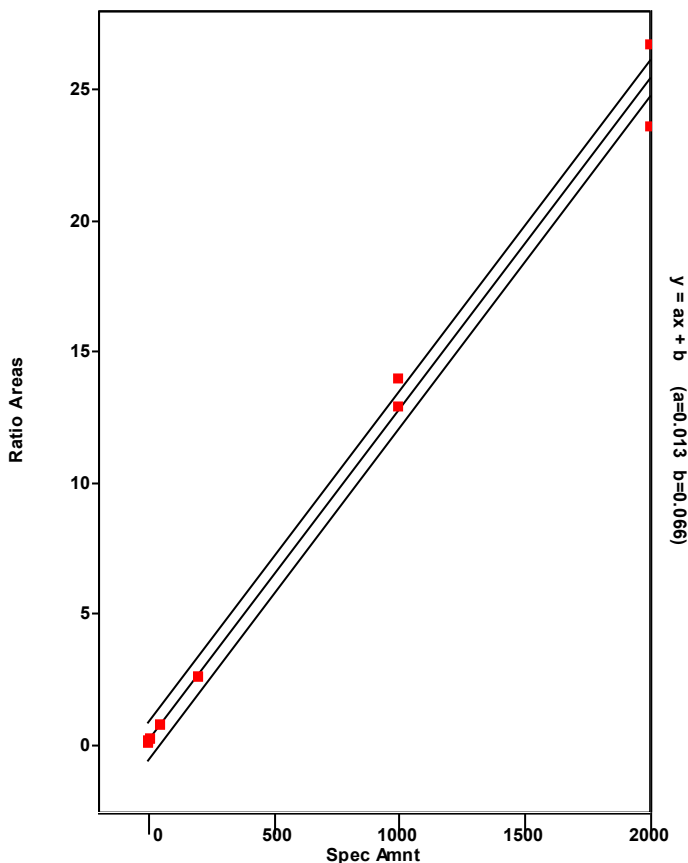
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

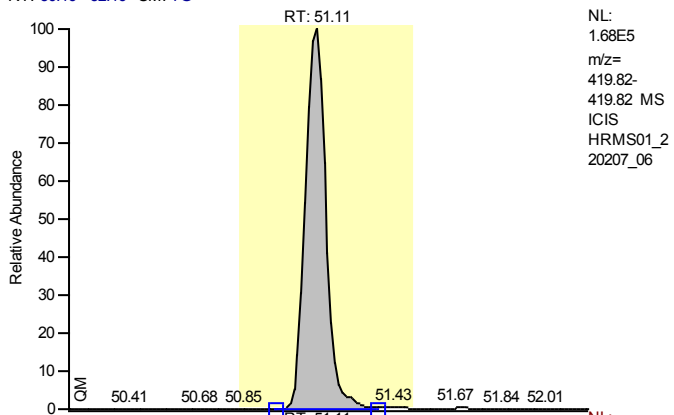
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



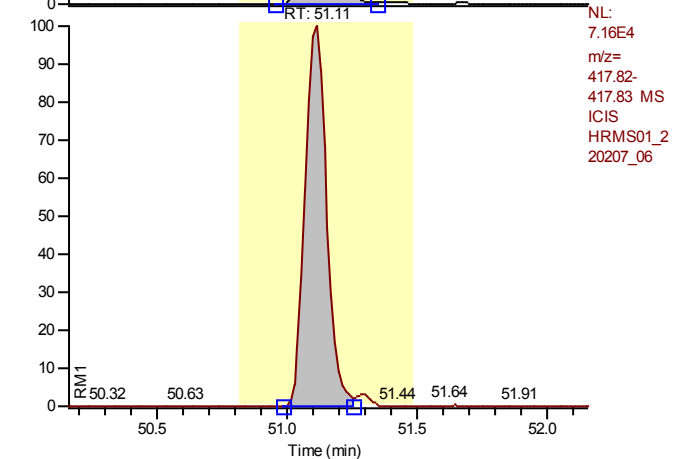
Chromatogram

Entry Parameters

RT: 50.16 - 52.16 SM: 7G

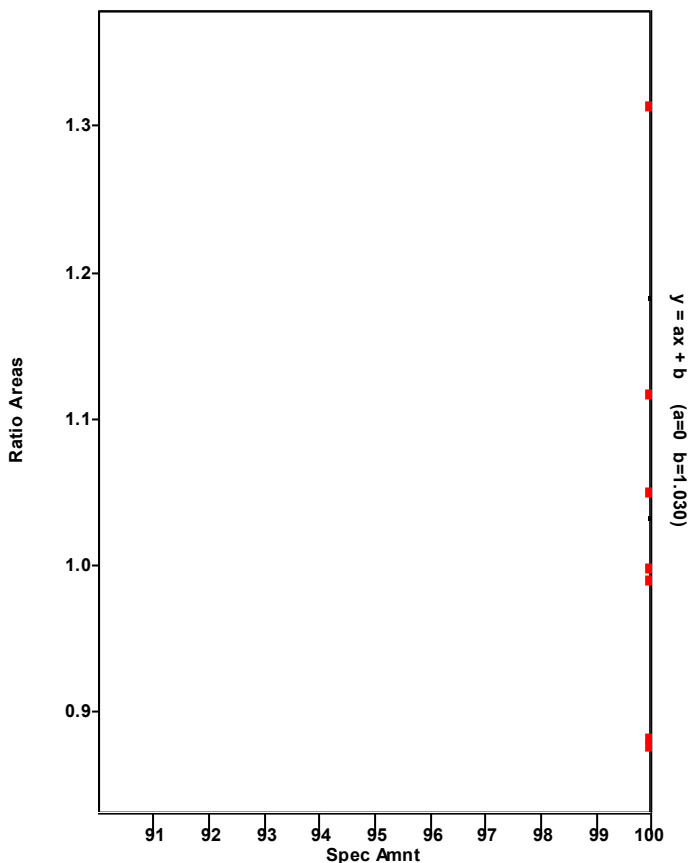


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	921660
RM1 Area	408949
RM1 Ratio (A)	0.4437
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	68.32
Percent Recovery (A)	68
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

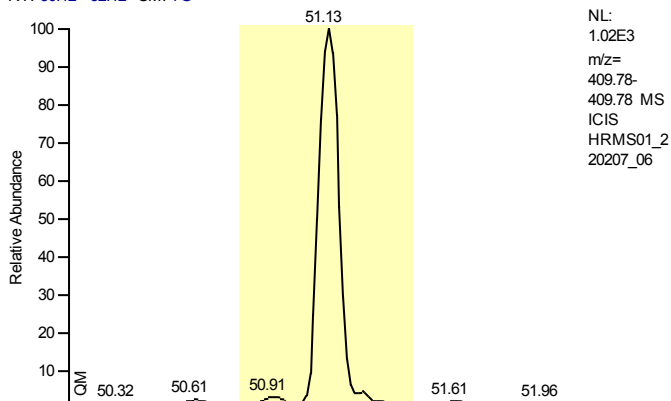
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



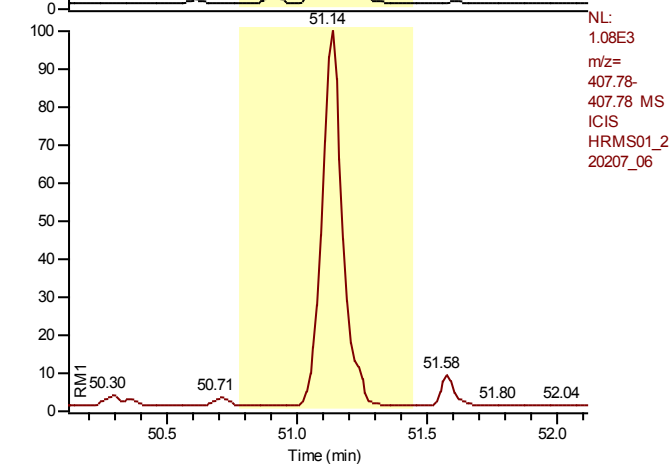
Chromatogram

Entry Parameters

RT: 50.12 - 52.12 SM: 7G



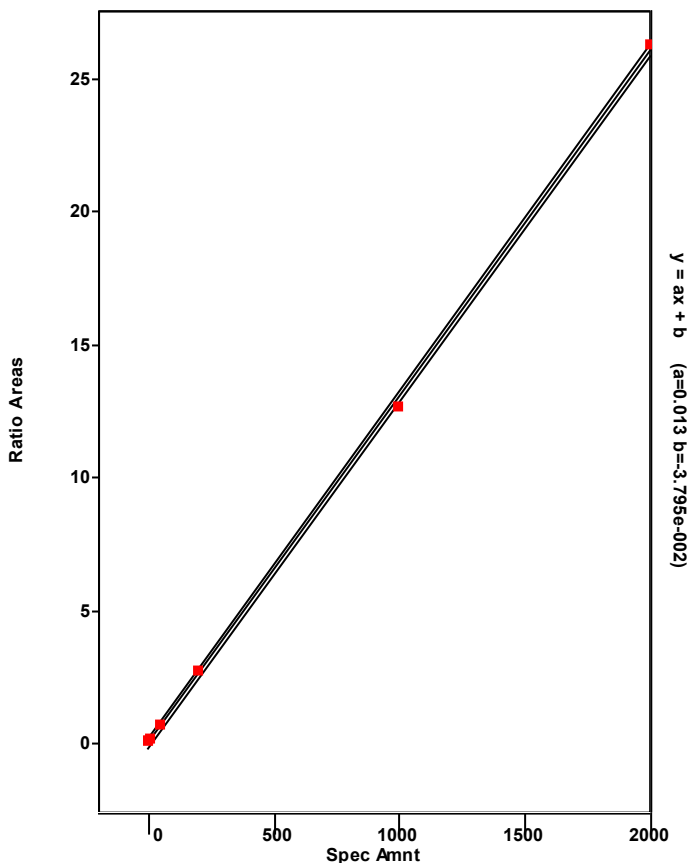
Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	



Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

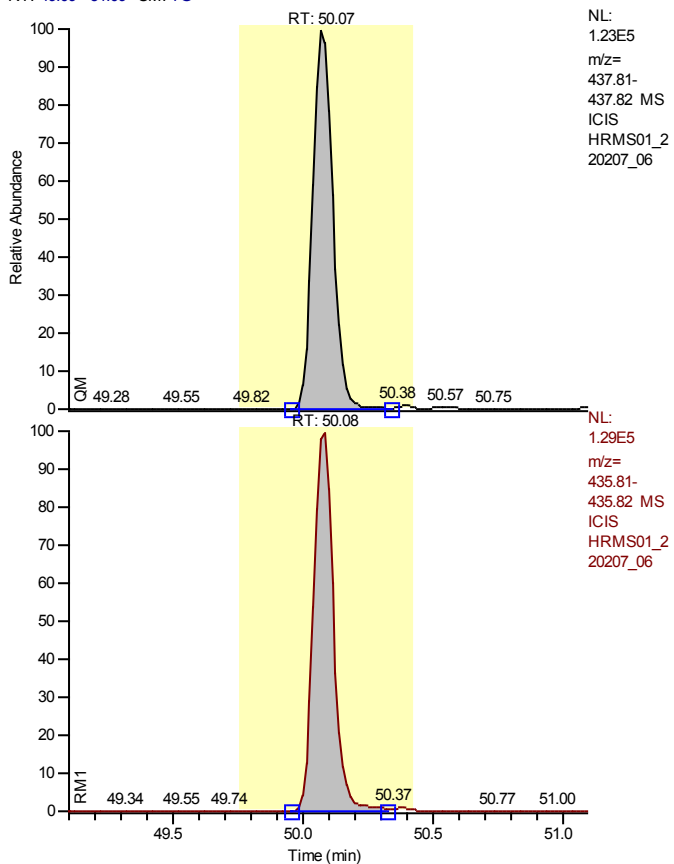
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



Chromatogram

Entry Parameters

RT: 49.09 - 51.09 SM: 7G



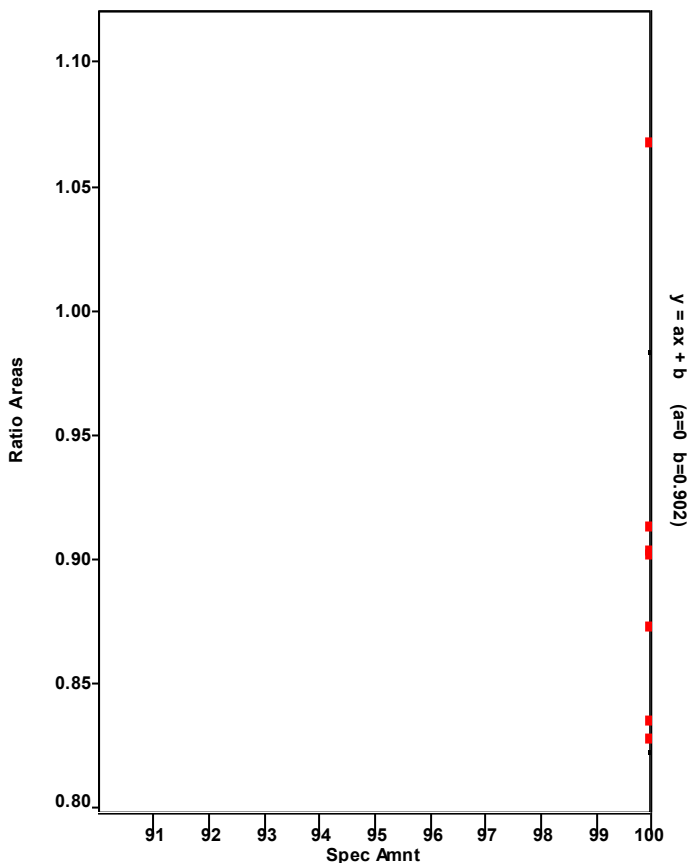
NL:
 1.23E5
 m/z=
 437.81-
 437.82 MS
 ICIS
 HRMS01_2
 20207_06

NL:
 1.29E5
 m/z=
 435.81-
 435.82 MS
 ICIS
 HRMS01_2
 20207_06

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	658495
RM1 Area	684145
RM1 Ratio (A)	1.0390
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	78.75
Percent Recovery (A)	79
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

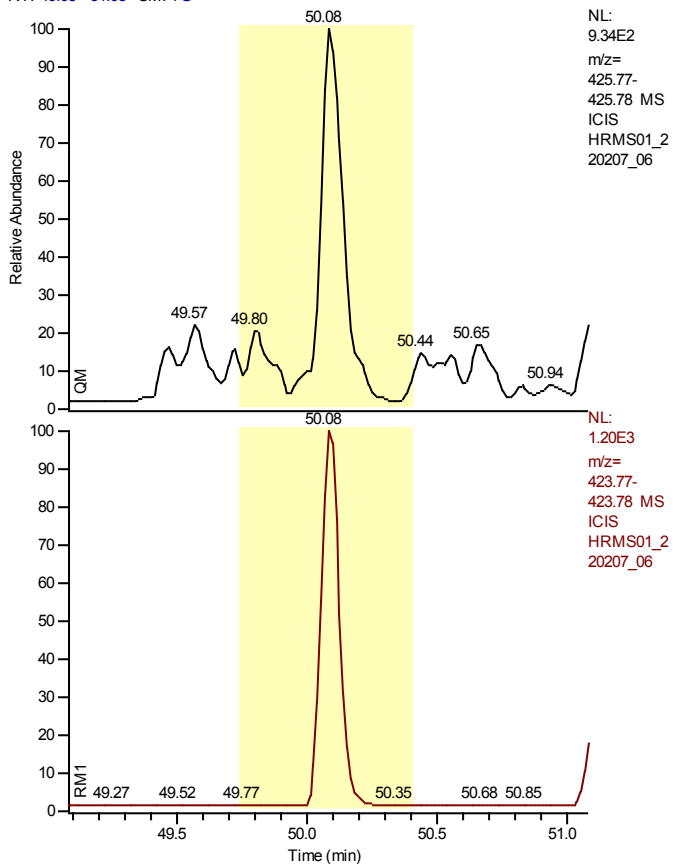
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.08 - 51.08 SM: 7G



NL:
 9.34E2
 m/z=
 425.77-
 425.78 MS
 ICIS
 HRMS01_2
 20207_06

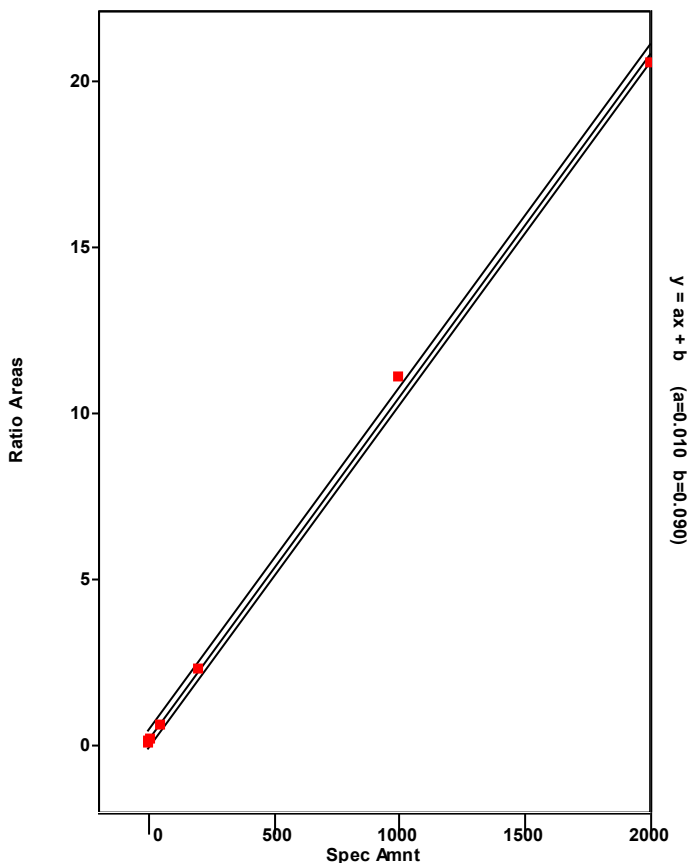
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

NL:
 1.20E3
 m/z=
 423.77-
 423.78 MS
 ICIS
 HRMS01_2
 20207_06

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

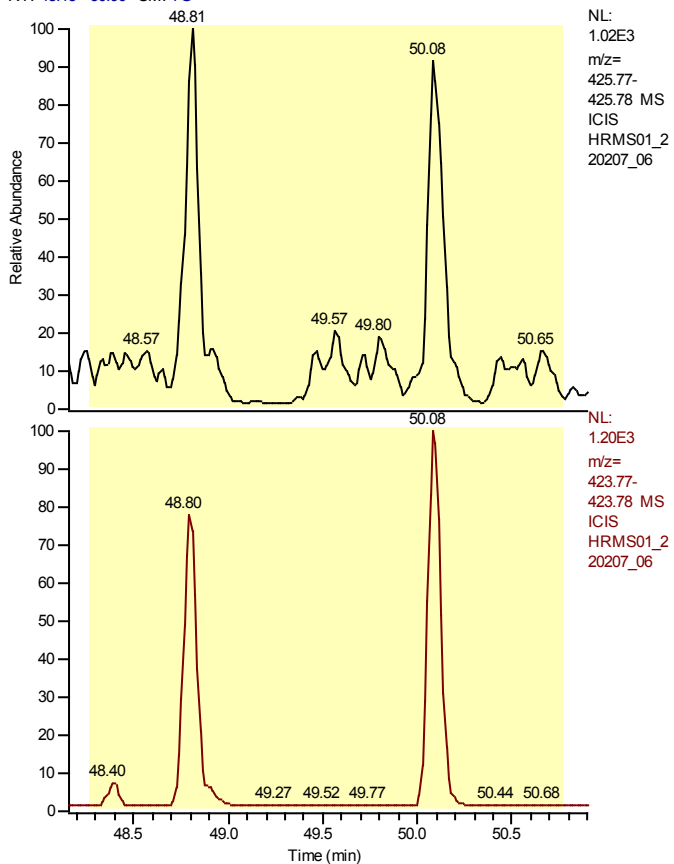
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 48.15 - 50.90 SM: 7G

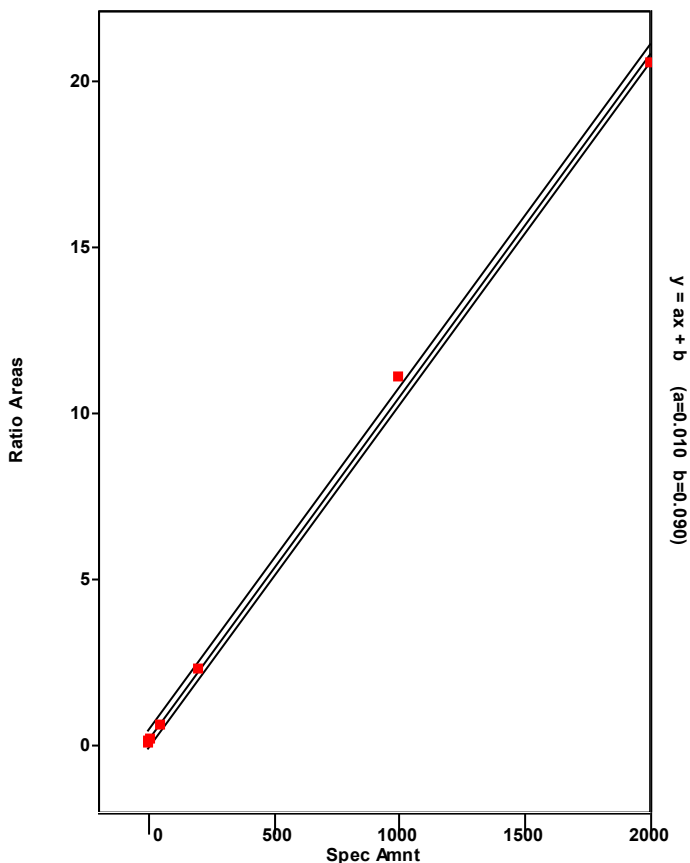


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

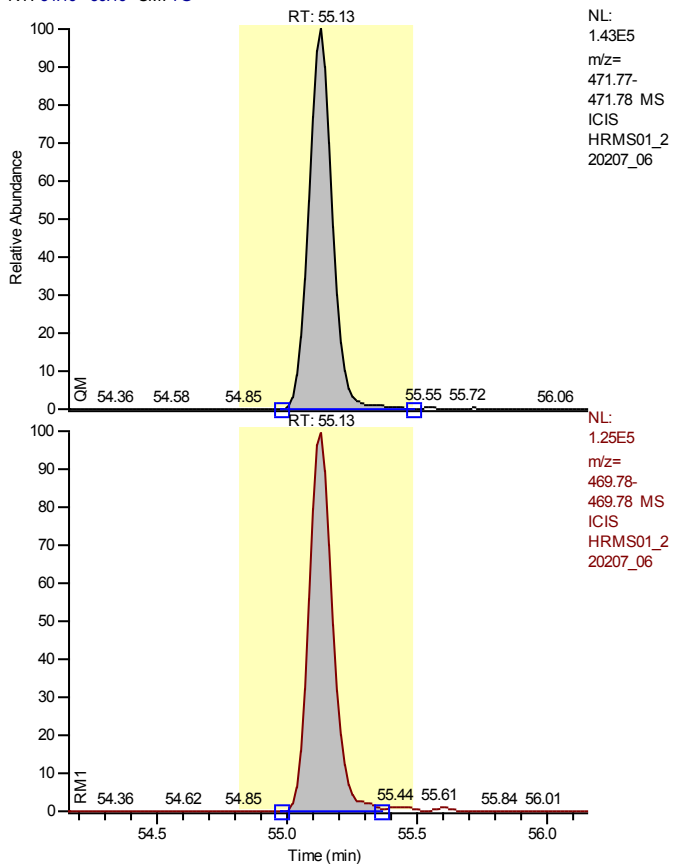
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 54.16 - 56.16 SM: 7G

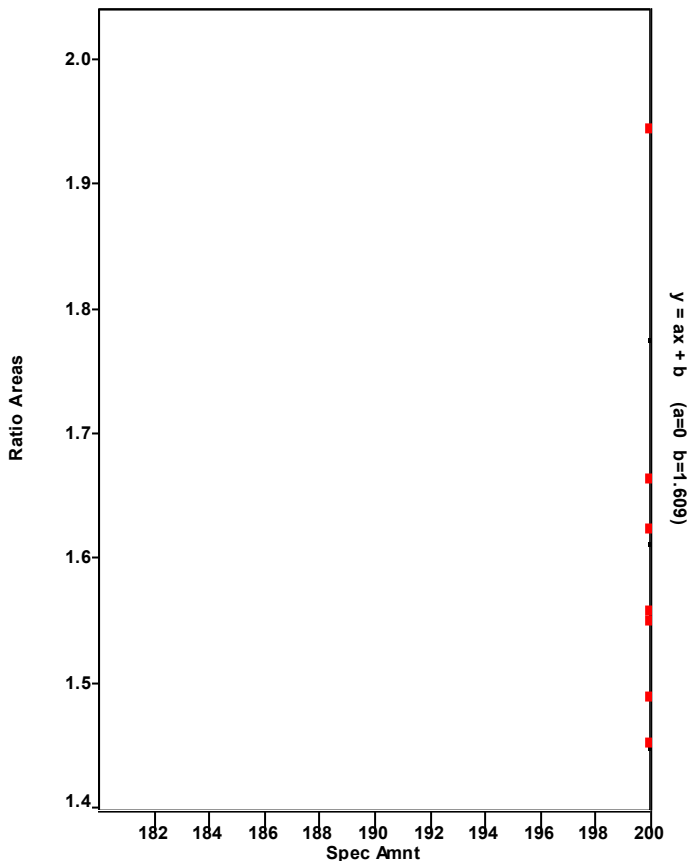


Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	905764
RM1 Area	794602
RM1 Ratio (A)	0.8773
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	111.77
Percent Recovery (A)	56
TEQ (A)	0.0000
Label2	

Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

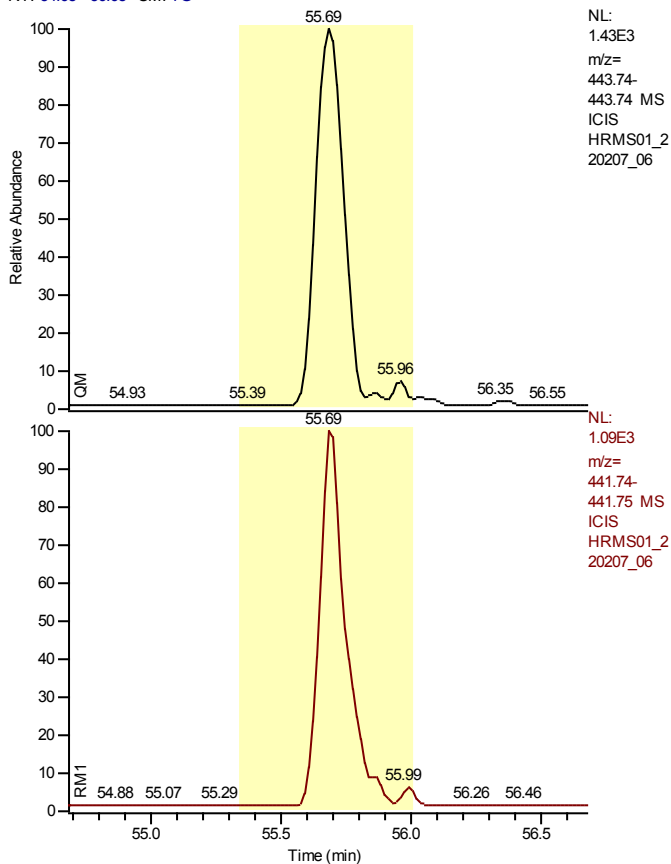
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.68 - 56.68 SM: 7G

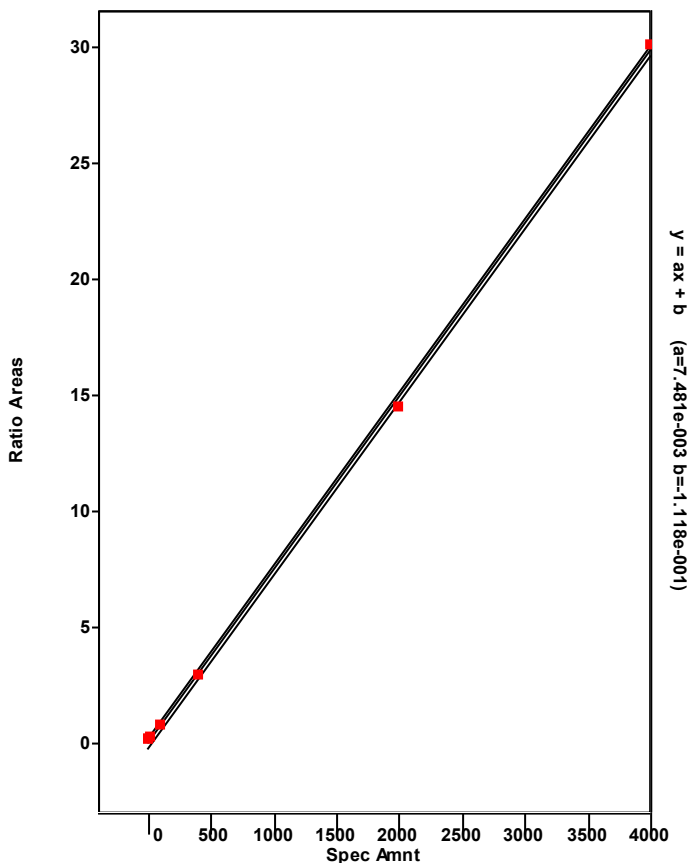


Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 3268-87-9
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

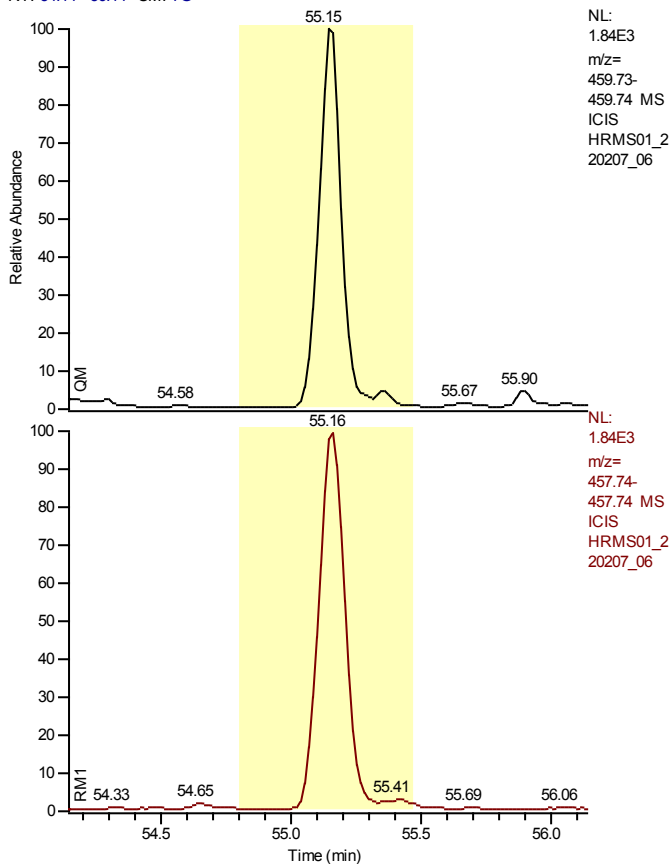
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



Chromatogram

Entry Parameters

RT: 54.14 - 56.14 SM: 7G

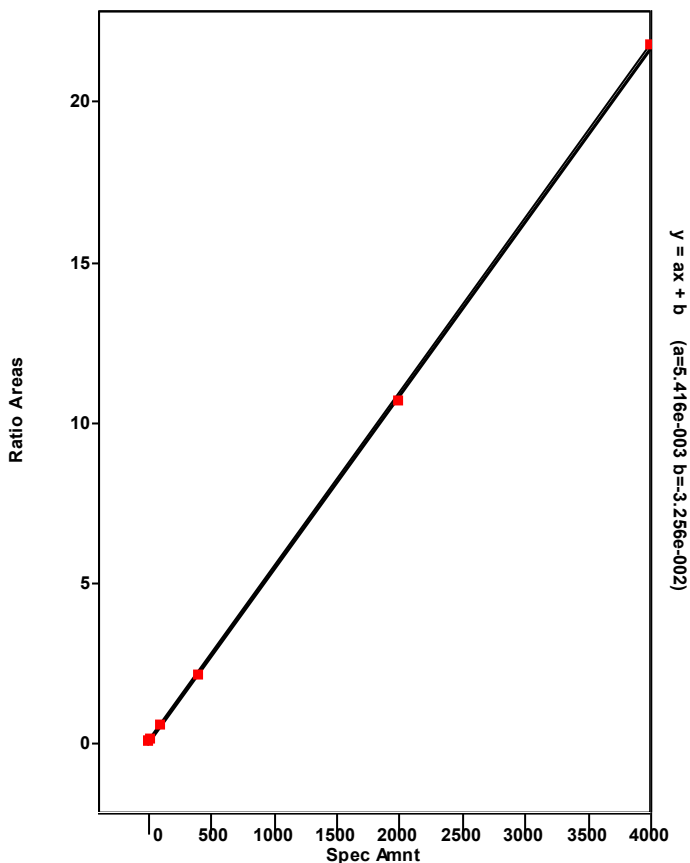


Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 39001-02-0
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	0.00
Calculated Amount (A)	n.d.
Percent Recovery (A)	---
TEQ (A)	n.d.
Label2	

Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

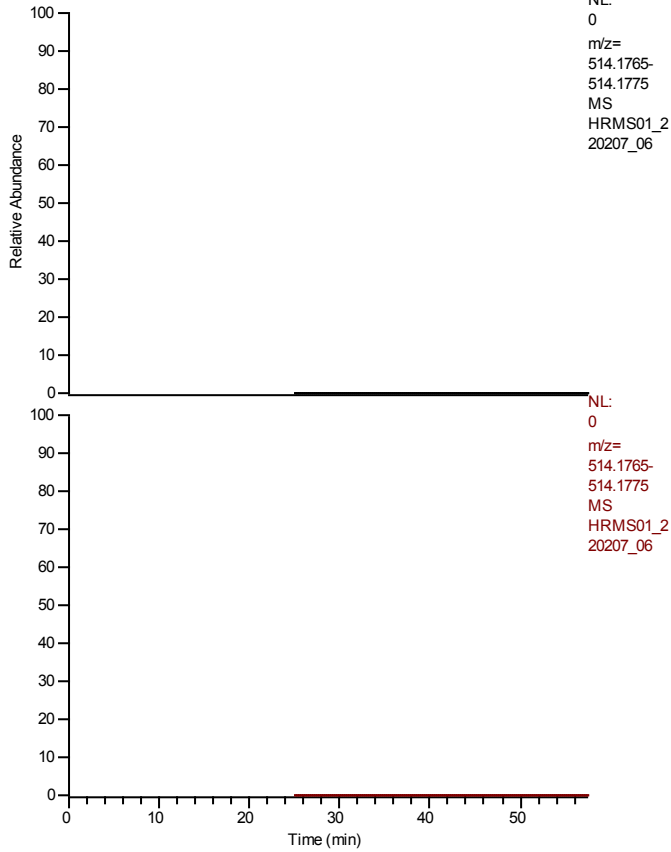
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

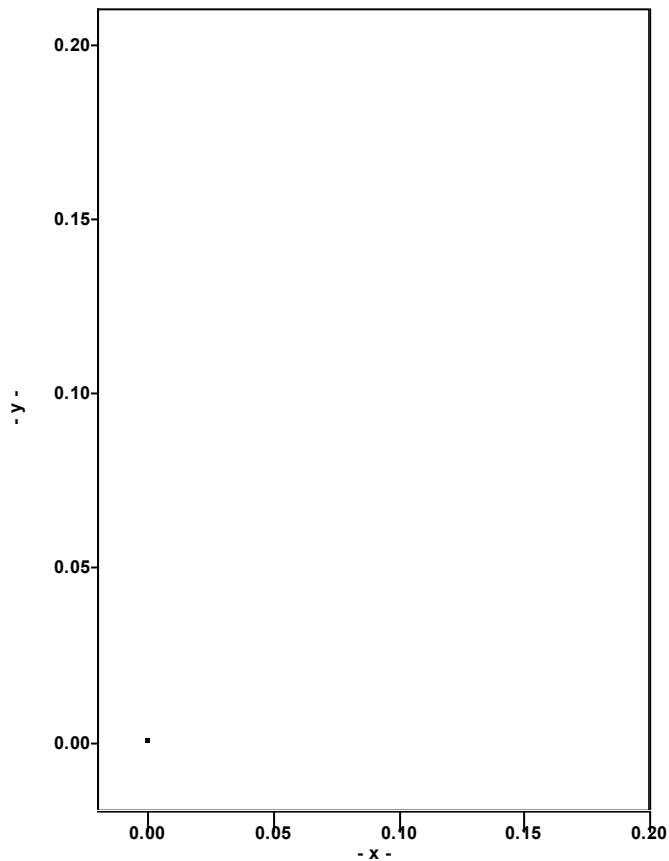
RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	0
RM1 Area	0
RM1 Ratio (A)	---
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	---
Percent Recovery (A)	---
TEQ (A)	---
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



LCS Raw Data

Quantitation Settings**Data File Parameter**

Acq. Data	2022/02/07 21:17
Number of Entries	59
Comment	
Vial	112
Sample Name	WG1600060-2
Sample ID	HRMS01B,PB,WG1602307,WG1600060,ICAL18730,1613
Study	
Client	
Laboratory	
Company	
Phone	
Barcode	

Files Parameter

Quan	hrms01_220207_08_seq
Data	hrms01_220207_08
Response	220204_1613b_gcb
Quan Method File	epa1613b_gc2_opr
Mass Ref	pcdds_+

Quan Parameter

QualBrowser Compatibility	Compatibility off
Sum Area/Height	Sum QM RM1
Quantitation Status	Dependend on Area
Injection Volume [hIJV]	1.0
Sample Volume [hSV]	1.0
Sample Weight [hSWT]	1.0
Dilution Factor [hDF]	1.0
Det. Limit Factor [hDLF]	1.0
Response Factor Mode	Average RF
Fit Calc. Mode	Linear Fit
Regression Mode	Non weighted Regression
Weighted Regression Factor	1.0

Entry Parameters

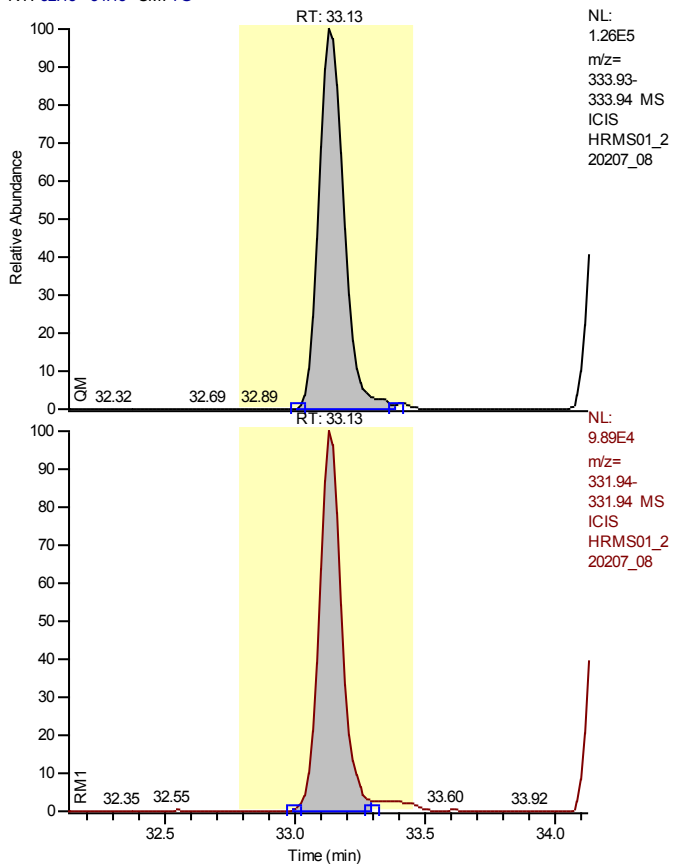
No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
1	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin	1234-TCDD 13C12 STD		847580	590006	0.6961	0.6500 - 0.8900	100.00	100.00	100	0.0000
2	13C12-2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF 13C12 STD		994706	786129	0.7903	0.6500 - 0.8900	100.00	76.24	76	0.0000
3	2,3,7,8-Tetrachlorodibenzofuran	2378-TCDF	CAS# 51207-31-9	102505	71965	0.7021	0.6500 - 0.8900	10.00	10.54	105	1.0542
4	Total Tetrachlorodibenzofuran	Total native TCDF	CAS# 55722-27-5	102505	71965	0.7021	0.6500 - 0.8900	10.00	10.54	105	0.0000
5	Total Tetrachlorodibenzofuran__1	Single native TCDF	CAS# 55722-27-5	102505	71965	0.7021	0.6500 - 0.8900	10.00	10.54	105	0.0000
6	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 13C12 STD		915698	655254	0.7156	0.6500 - 0.8900	100.00	93.93	94	0.0000
7	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD	CAS# 1746-01-6	93950	76620	0.8155	0.6500 - 0.8900	10.00	10.26	103	10.2592
8	Total Tetrachlorodibenzo-p-dioxin	Total native TCDD	CAS# 41903-57-5	93950	76620	0.8155	0.6500 - 0.8900	10.00	10.26	103	0.0000
9	Total Tetrachlorodibenzo-p-dioxin__1	Single native TCDD	CAS# 41903-57-5	93950	76620	0.8155	0.6500 - 0.8900	10.00	10.26	103	0.0000
10	13C12-1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF 13C12 STD		591645	998386	1.6875	1.3200 - 1.7800	100.00	76.27	76	0.0000
11	1,2,3,7,8-Pentachlorodibenzofuran	12378-PeCDF	CAS# 57117-41-6	304189	475469	1.5631	1.3200 - 1.7800	50.00	49.53	99	1.4859
12	Total Pentachlorodibenzofuran	Total native PeCDF	CAS# 30402-15-4	583278	898372	1.5402	1.3200 - 1.7800	50.00	92.67	185	0.0000
13	Total Pentachlorodibenzofuran__1	Single native PeCDF	CAS# 30402-15-4	304189	475469	1.5631	1.3200 - 1.7800	50.00	48.76	98	0.0000
14	Total Pentachlorodibenzofuran__2	Single native PeCDF	CAS# 30402-15-4	279089	422902	1.5153	1.3200 - 1.7800	50.00	43.90	88	0.0000
15	13C12-2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF 13C12 STD		549503	885037	1.6106	1.3200 - 1.7800	100.00	73.13	73	0.0000
16	2,3,4,7,8-Pentachlorodibenzofuran	23478-PeCDF	CAS# 57117-31-4	279089	422902	1.5153	1.3200 - 1.7800	50.00	45.12	90	13.5350
17	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD 13C12 STD		381207	625503	1.6408	1.3200 - 1.7800	100.00	76.86	77	0.0000
18	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12378-PeCDD	CAS# 40321-76-4	199767	310573	1.5547	1.3200 - 1.7800	50.00	50.54	101	50.5392
19	Total Pentachlorodibenzo-p-dioxin	Total native PeCDD	CAS# 36088-22-9	199767	310573	1.5547	1.3200 - 1.7800	50.00	50.54	101	0.0000
20	Total Pentachlorodibenzo-p-dioxin__1	Single native PeCDD	CAS# 36088-22-9	199767	310573	1.5547	1.3200 - 1.7800	50.00	50.54	101	0.0000
21	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin	2378-TCDD 37Cl4 STD		192727	192727	1.0000	0.8500 - 1.1500	10.00	10.71	107	0.0000
22	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD 13C12 STD		611179	789378	1.2916	1.0500 - 1.4300	100.00	100.00	100	0.0000
23	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF 13C12 STD		968717	518529	0.5353	0.4300 - 0.5900	100.00	94.52	95	0.0000
24	1,2,3,4,7,8-Hexachlorodibenzofuran	123478-HxCDF	CAS# 70648-26-9	408616	504604	1.2349	1.0500 - 1.4300	50.00	53.28	107	5.3277
25	Total Hexachlorodibenzofuran	Total native HxCDF	CAS# 55684-94-1	1556352	1908772	1.2264	1.0500 - 1.4300	50.00	194.86	390	0.0000
26	Total Hexachlorodibenzofuran__1	Single native HxCDF	CAS# 55684-94-1	424872	519791	1.2234	1.0500 - 1.4300	50.00	53.12	106	0.0000
27	Total Hexachlorodibenzofuran__2	Single native HxCDF	CAS# 55684-94-1	408616	504604	1.2349	1.0500 - 1.4300	50.00	51.36	103	0.0000
28	Total Hexachlorodibenzofuran__3	Single native HxCDF	CAS# 55684-94-1	386941	462464	1.1952	1.0500 - 1.4300	50.00	47.77	96	0.0000
29	Total Hexachlorodibenzofuran__4	Single native HxCDF	CAS# 55684-94-1	335923	421913	1.2560	1.0500 - 1.4300	50.00	42.62	85	0.0000
30	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF 13C12 STD		1051425	562419	0.5349	0.4300 - 0.5900	100.00	95.35	95	0.0000
31	1,2,3,6,7,8-Hexachlorodibenzofuran	123678-HxCDF	CAS# 57117-44-9	424872	519791	1.2234	1.0500 - 1.4300	50.00	51.16	102	5.1164
32	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF 13C12 STD		930825	474340	0.5096	0.4300 - 0.5900	100.00	85.18	85	0.0000
33	2,3,4,6,7,8-Hexachlorodibenzofuran	234678-HxCDF	CAS# 60851-34-5	386941	462464	1.1952	1.0500 - 1.4300	50.00	50.66	101	5.0656
34	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF 13C12 STD		805364	426618	0.5297	0.4300 - 0.5900	100.00	76.77	77	0.0000
35	1,2,3,7,8,9-Hexachlorodibenzofuran	123789-HxCDF	CAS# 72918-21-9	335923	421913	1.2560	1.0500 - 1.4300	50.00	54.94	110	5.4939
36	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD 13C12 STD		454097	603086	1.3281	1.0500 - 1.4300	100.00	84.59	85	0.0000
37	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	123478-HxCDD	CAS# 39227-28-6	252144	327264	1.2979	1.0500 - 1.4300	50.00	52.60	105	5.2599
38	Total Hexachlorodibenzo-p-dioxin	Total native HxCDD	CAS# 34465-46-8	810360	1045192	1.2898	1.0500 - 1.4300	50.00	161.22	322	0.0000

No.	Entry Identifier	Compound Name	Label1	QM Area	RM1 Area	RM1 Ratio (A)	Ratio1 Limit	Specified Amount	Calculated Amount (A)	Percent Recovery (A)	TEQ (A)
39	Total Hexachlorodibenzo-p-dioxin__1	Single native HxCDD	CAS# 34465-46-8	277918	352374	1.2679	1.0500 - 1.4300	50.00	54.76	110	0.0000
40	Total Hexachlorodibenzo-p-dioxin__2	Single native HxCDD	CAS# 34465-46-8	252144	327264	1.2979	1.0500 - 1.4300	50.00	50.34	101	0.0000
41	Total Hexachlorodibenzo-p-dioxin__3	Single native HxCDD	CAS# 34465-46-8	280298	365554	1.3042	1.0500 - 1.4300	50.00	56.11	112	0.0000
42	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD 13C12 STD		484930	627658	1.2943	1.0500 - 1.4300	100.00	85.12	85	0.0000
43	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	123678-HxCDD	CAS# 57653-85-7	277918	352374	1.2679	1.0500 - 1.4300	50.00	53.33	107	5.3330
44	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	123789-HxCDD	CAS# 19408-74-3	280298	365554	1.3042	1.0500 - 1.4300	50.00	54.56	109	5.4560
45	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF 13C12 STD		815985	373698	0.4580	0.3700 - 0.5100	100.00	77.89	78	0.0000
46	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1234678-HpCDF	CAS# 67562-39-4	408355	434912	1.0650	0.8800 - 1.2000	50.00	55.11	110	0.5511
47	Total Heptachlorodibenzofuran	Total native HpCDF	CAS# 38998-75-3	781629	821574	1.0511	0.8800 - 1.2000	50.00	107.69	215	0.0000
48	Total Heptachlorodibenzofuran__1	Single native HpCDF	CAS# 38998-75-3	408355	434912	1.0650	0.8800 - 1.2000	50.00	56.64	113	0.0000
49	Total Heptachlorodibenzofuran__2	Single native HpCDF	CAS# 38998-75-3	373273	386662	1.0359	0.8800 - 1.2000	50.00	51.05	102	0.0000
50	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF 13C12 STD		729875	328024	0.4494	0.3700 - 0.5100	100.00	73.32	73	0.0000
51	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1234789-HpCDF	CAS# 55673-89-7	373273	386662	1.0359	0.8800 - 1.2000	50.00	55.68	111	0.5568
52	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD 13C12 STD		515971	534068	1.0351	0.8800 - 1.2000	100.00	83.14	83	0.0000
53	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1234678-HpCDD	CAS# 35822-46-9	281310	289466	1.0290	0.8800 - 1.2000	50.00	50.37	101	0.5037
54	Total Heptachlorodibenzo-p-dioxin	Total native HpCDD	CAS# 37871-00-4	281310	289466	1.0290	0.8800 - 1.2000	50.00	50.37	101	0.0000
55	Total Heptachlorodibenzo-p-dioxin__1	Single native HpCDD	CAS# 37871-00-4	281310	289466	1.0290	0.8800 - 1.2000	50.00	50.37	101	0.0000
56	13C12-Octachlorodibenzo-p-dioxin	OCDD 13C12 STD		833339	752993	0.9036	0.7600 - 1.0200	200.00	140.76	70	0.0000
57	Octachlorodibenzofuran	OCDF	CAS# 39001-02-0	689985	631876	0.9158	0.7600 - 1.0200	100.00	119.45	119	0.0358
58	Octachlorodibenzo-p-dioxin	OCDD	CAS# 3268-87-9	499968	463566	0.9272	0.7600 - 1.0200	100.00	112.29	112	0.0337
59	overall TEQ	overall TEQ test		5599103	6517976	1.1641	0.0000 - 0.0000	0.00	929.41	---	115.6070

Chromatogram

Entry Parameters

RT: 32.13 - 34.13 SM: 7G

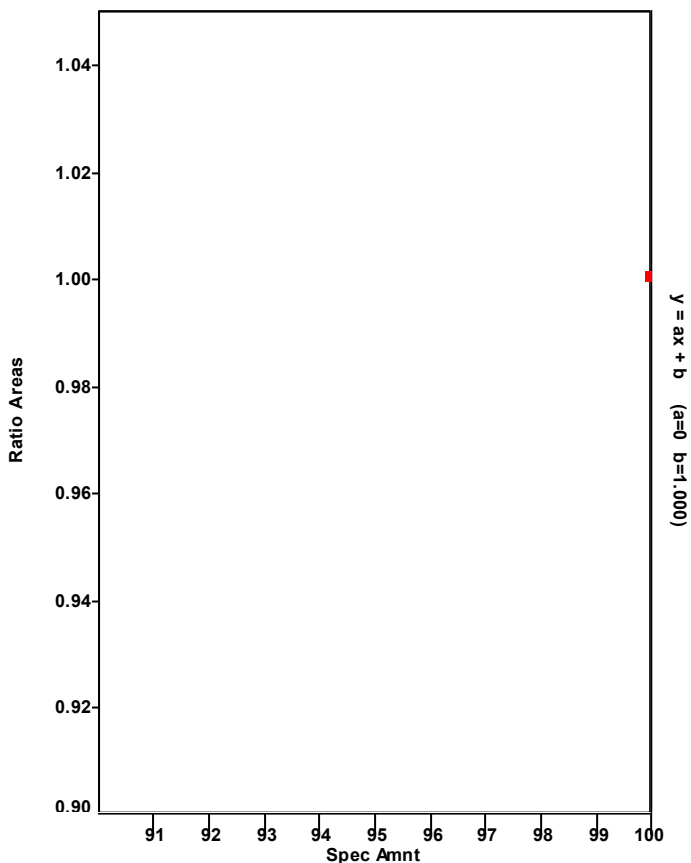


Entry Identifier	13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin
Compound Name	1234-TCDD 13C12 STD
Label1	
QM Area	847580
RM1 Area	590006
RM1 Ratio (A)	0.6961
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

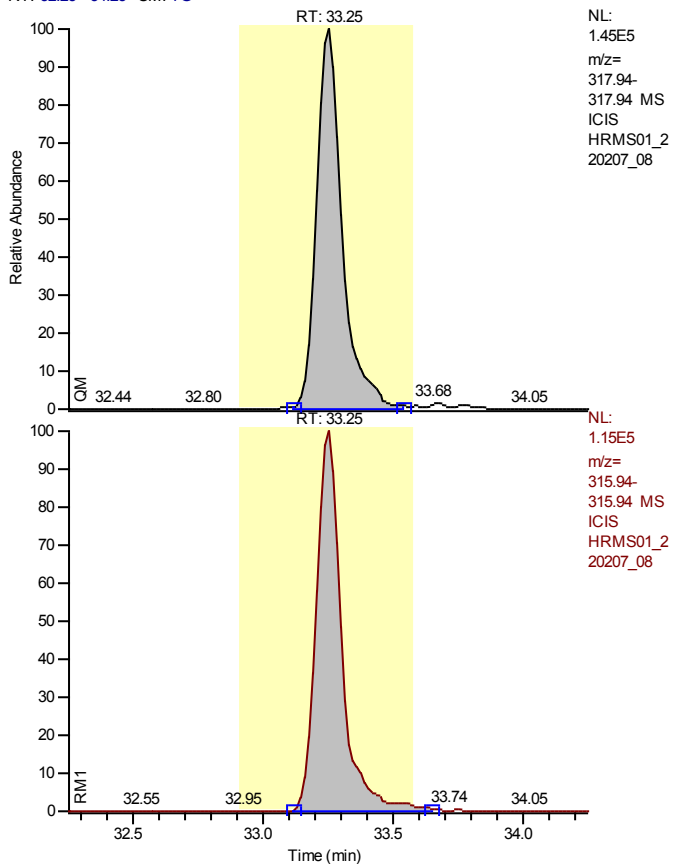
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 32.25 - 34.25 SM: 7G

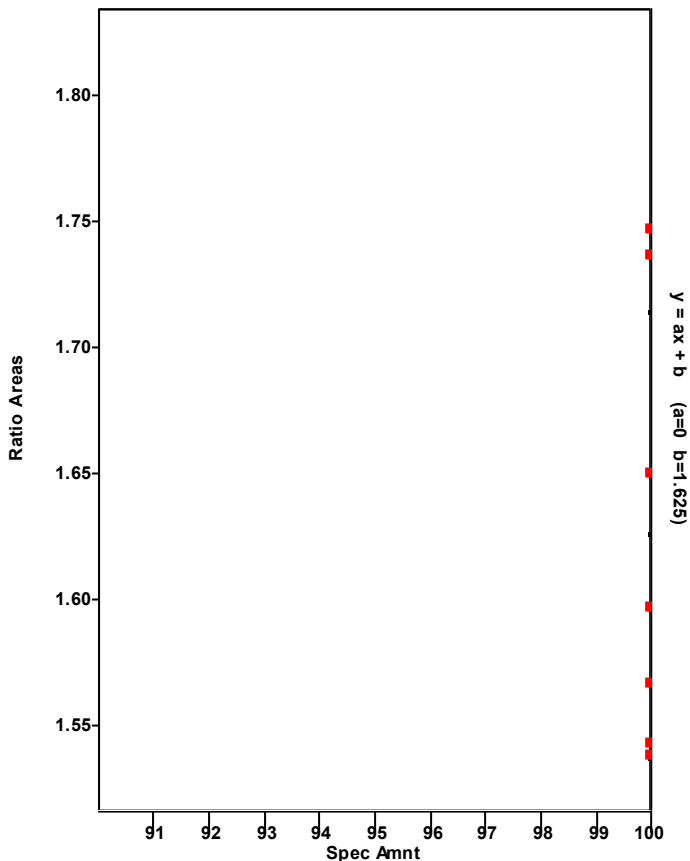


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF 13C12 STD
Label1	
QM Area	994706
RM1 Area	786129
RM1 Ratio (A)	0.7903
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	76.24
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzofuran

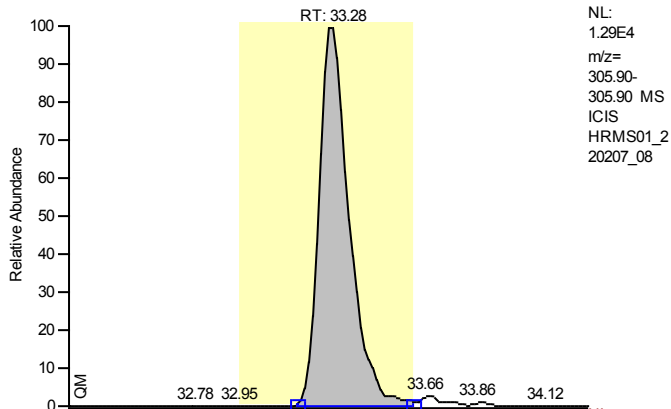
Linear Fit: StdDev = 0.088 RSD = 5.423 CF = 0.000000



Chromatogram

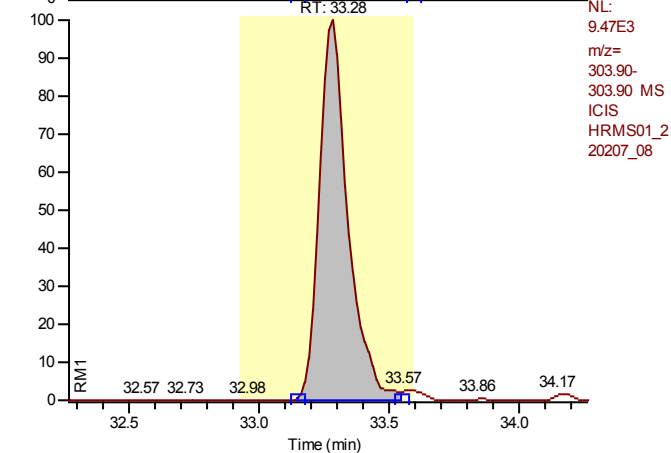
Entry Parameters

RT: 32.27 - 34.27 SM: 7G



NL:
 1.29E4
 m/z=
 305.90-
 305.90 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	2,3,7,8-Tetrachlorodibenzofuran
Compound Name	2378-TCDF
Label1	CAS# 51207-31-9
QM Area	102505
RM1 Area	71965
RM1 Ratio (A)	0.7021
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.54
Percent Recovery (A)	105
TEQ (A)	1.0542
Label2	

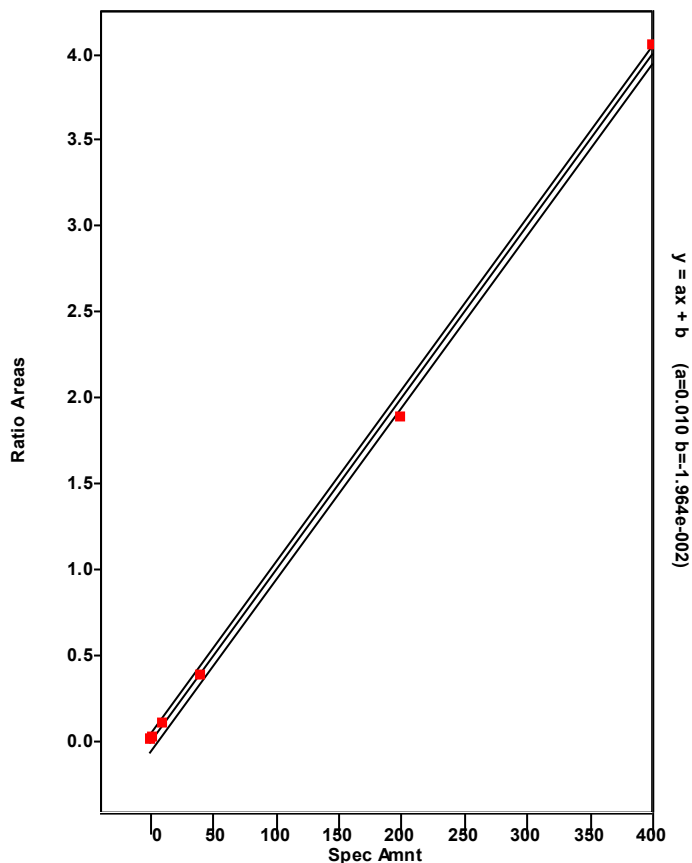


NL:
 9.47E3
 m/z=
 303.90-
 303.90 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 2,3,7,8-Tetrachlorodibenzofuran IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of 2,3,7,8-Tetrachlorodibenzofuran

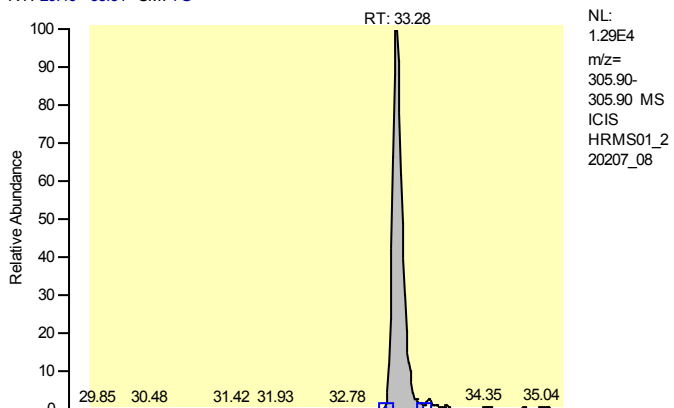
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



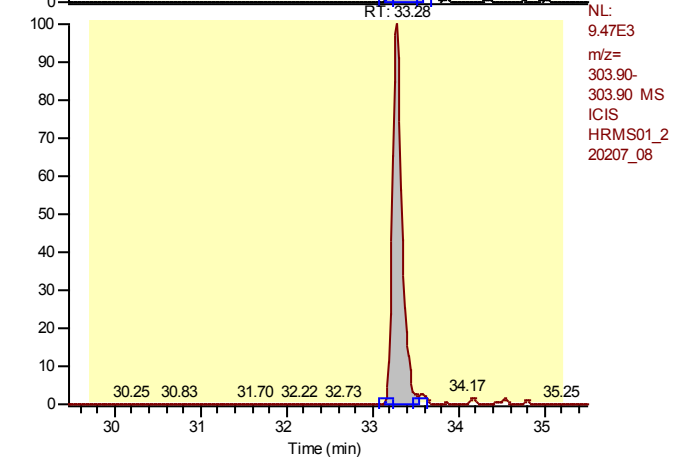
Chromatogram

Entry Parameters

RT: 29.46 - 35.51 SM: 7G



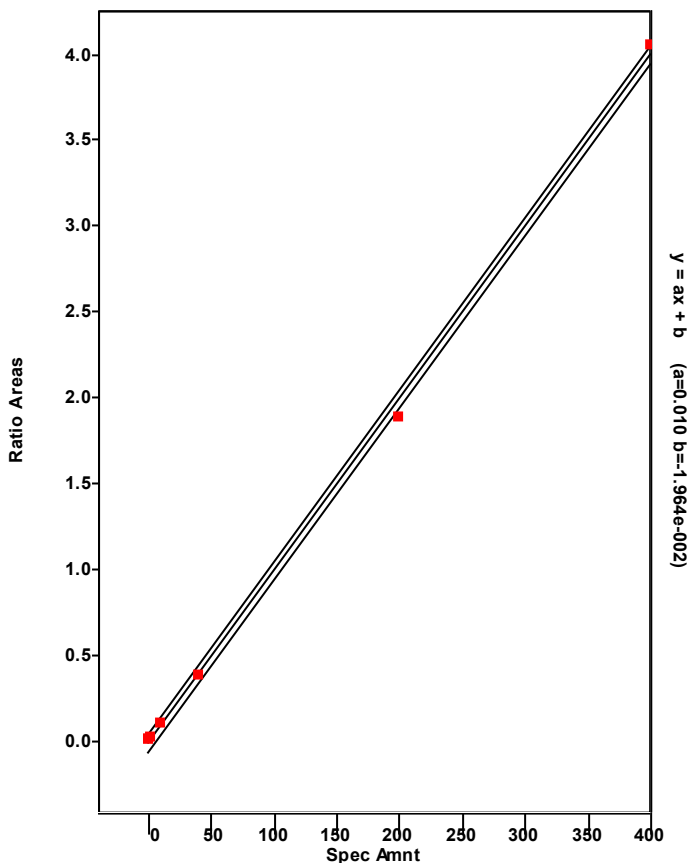
Entry Identifier	Total Tetrachlorodibenzofuran
Compound Name	Total native TCDF
Label1	CAS# 55722-27-5
QM Area	102505
RM1 Area	71965
RM1 Ratio (A)	0.7021
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.54
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	



Entry: Total Tetrachlorodibenzofuran IS: 13C-12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran

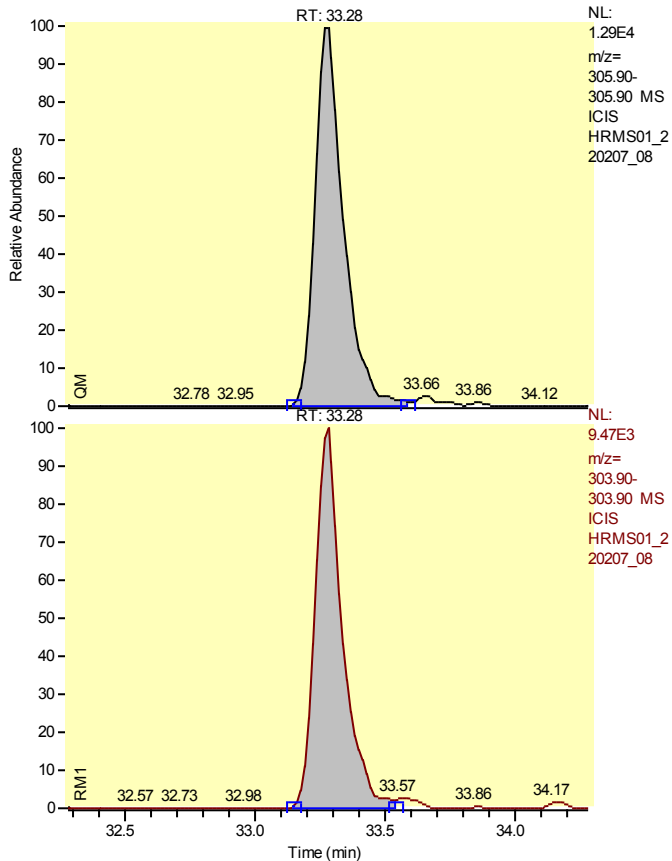
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 32.28 - 34.28 SM: 7G

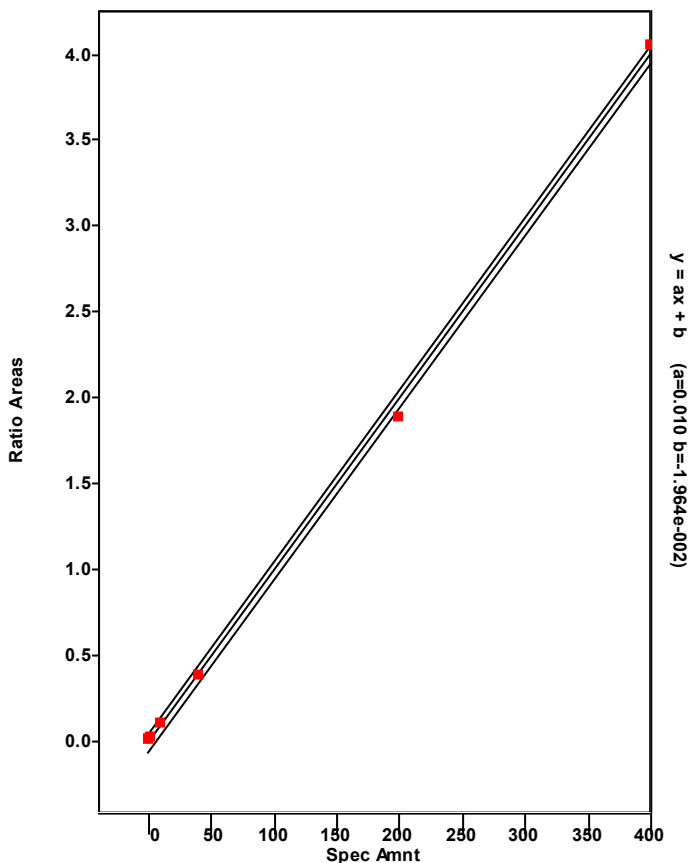


Entry Identifier	Total Tetrachlorodibenzofuran__1
Compound Name	Single native TCDF
Label1	CAS# 55722-27-5
QM Area	102505
RM1 Area	71965
RM1 Ratio (A)	0.7021
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.54
Percent Recovery (A)	105
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzofuran__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzofuran

Calibration Points of Total Tetrachlorodibenzofuran__1

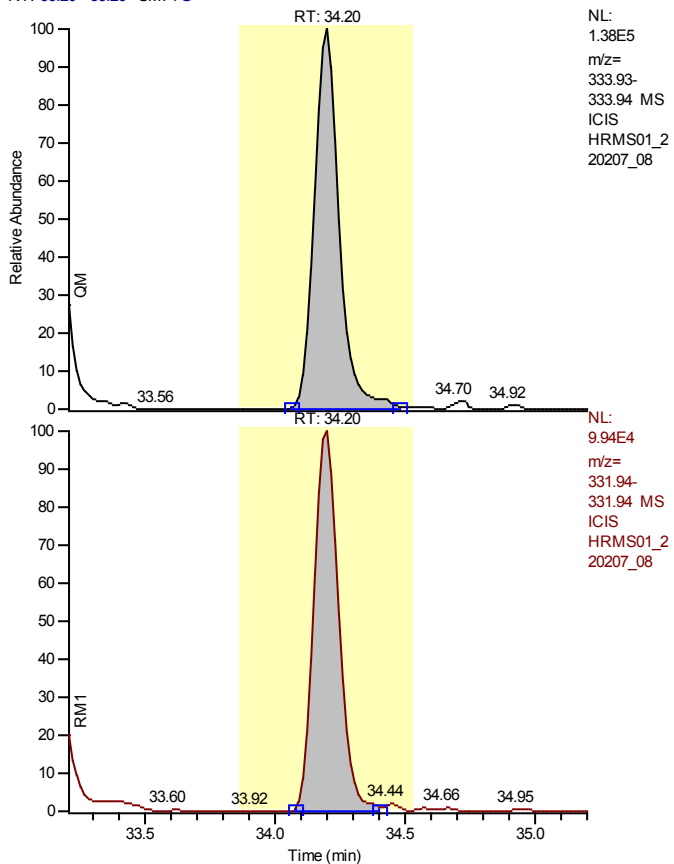
Linear Fit: StdDev = 0.052 RSD = 5.652 CF = 0.998867



Chromatogram

Entry Parameters

RT: 33.20 - 35.20 SM: 7G

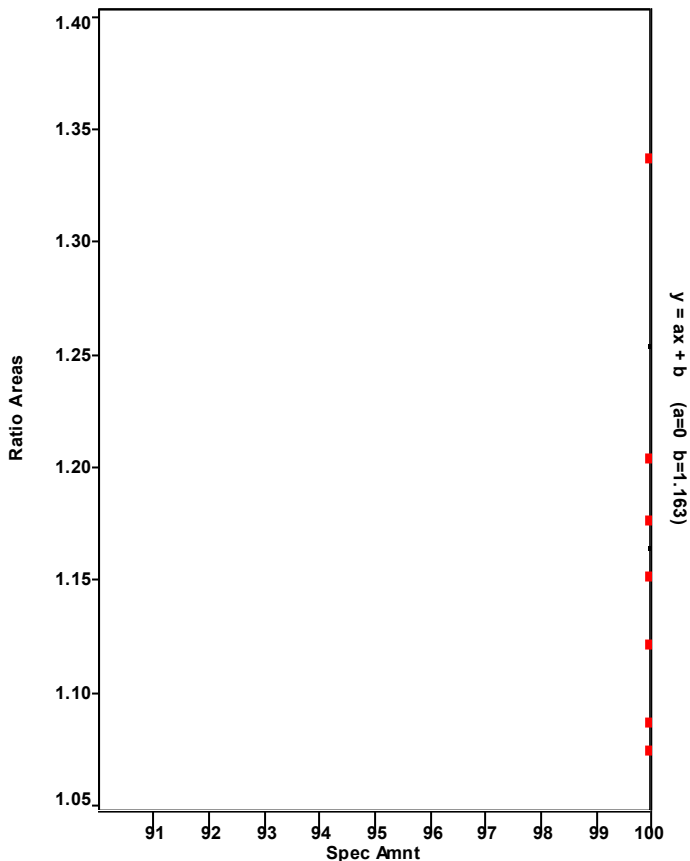


Entry Identifier	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 13C12 STD
Label1	
QM Area	915698
RM1 Area	655254
RM1 Ratio (A)	0.7156
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	100.00
Calculated Amount (A)	93.93
Percent Recovery (A)	94
TEQ (A)	0.0000
Label2	

Entry: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

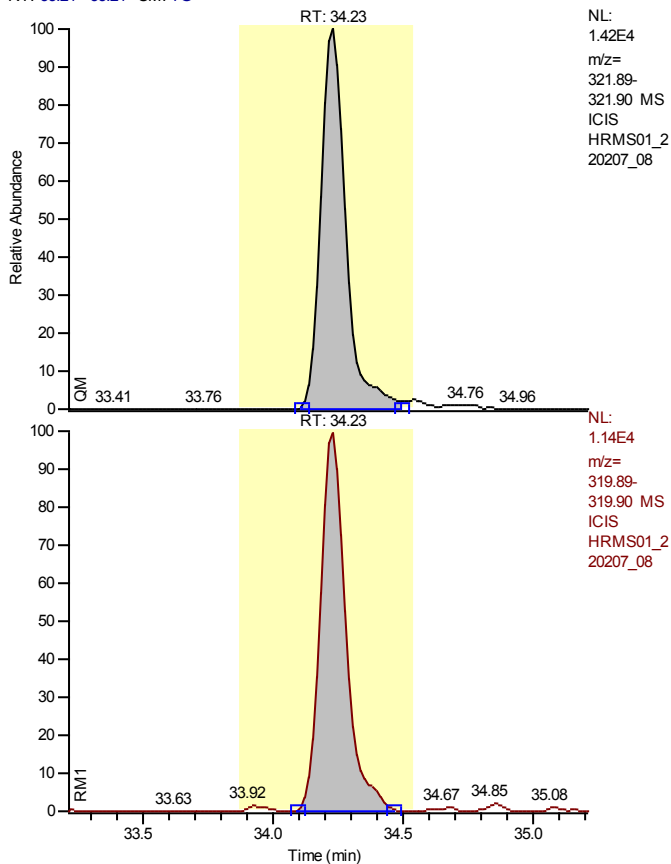
Linear Fit: StdDev = 0.089 RSD = 7.666 CF = 0.000000



Chromatogram

Entry Parameters

RT: 33.21 - 35.21 SM: 7G

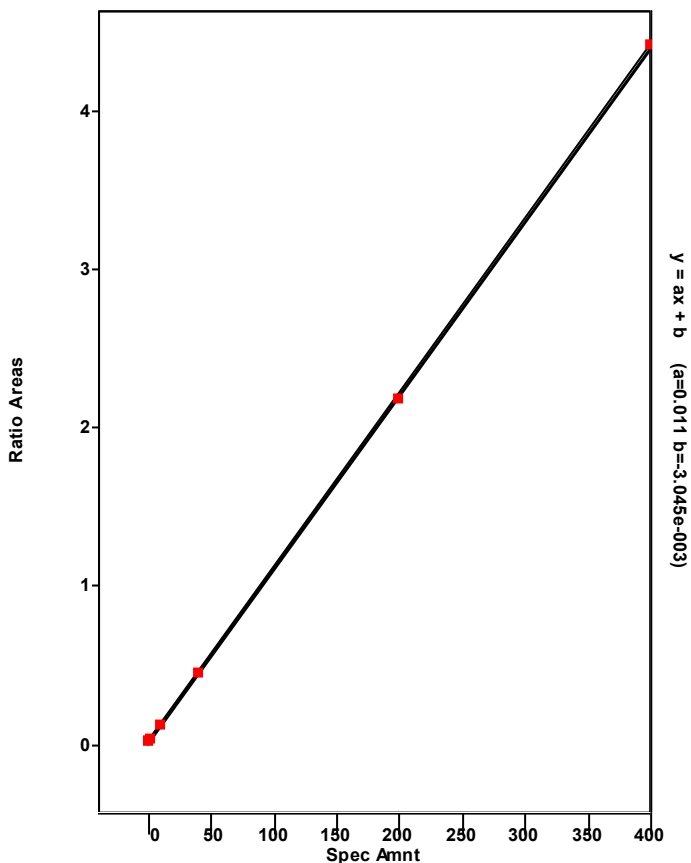


Entry Identifier	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD
Label1	CAS# 1746-01-6
QM Area	93950
RM1 Area	76620
RM1 Ratio (A)	0.8155
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.26
Percent Recovery (A)	103
TEQ (A)	10.2592
Label2	

Entry: 2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of 2,3,7,8-Tetrachlorodibenzo-p-dioxin

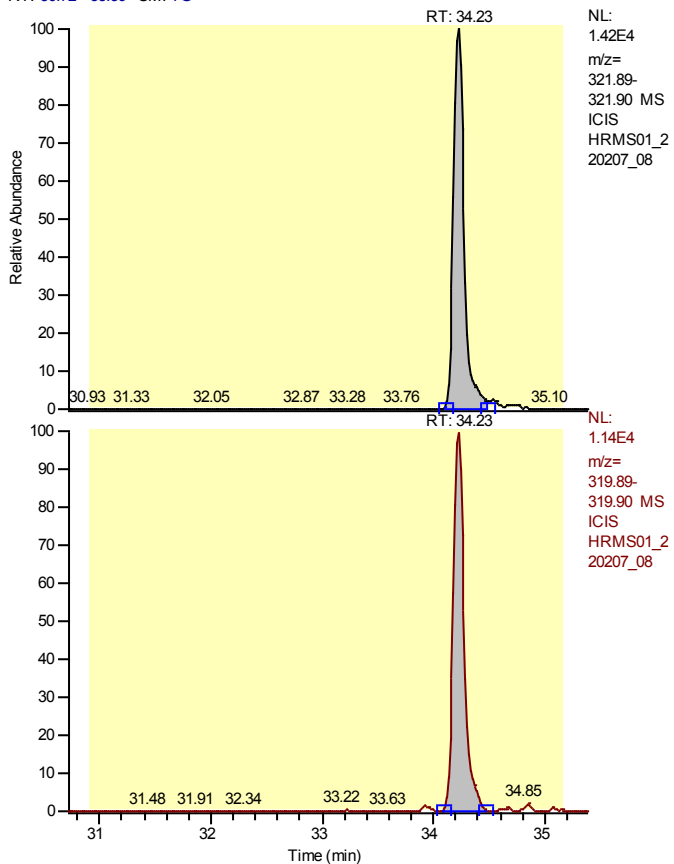
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 30.72 - 35.39 SM: 7G

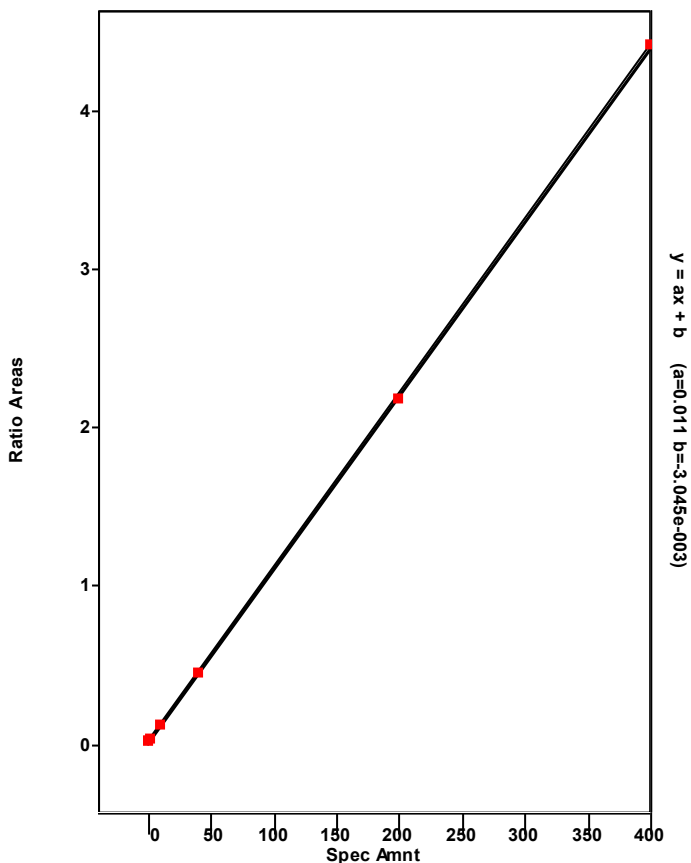


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin
Compound Name	Total native TCDD
Label1	CAS# 41903-57-5
QM Area	93950
RM1 Area	76620
RM1 Ratio (A)	0.8155
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.26
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin

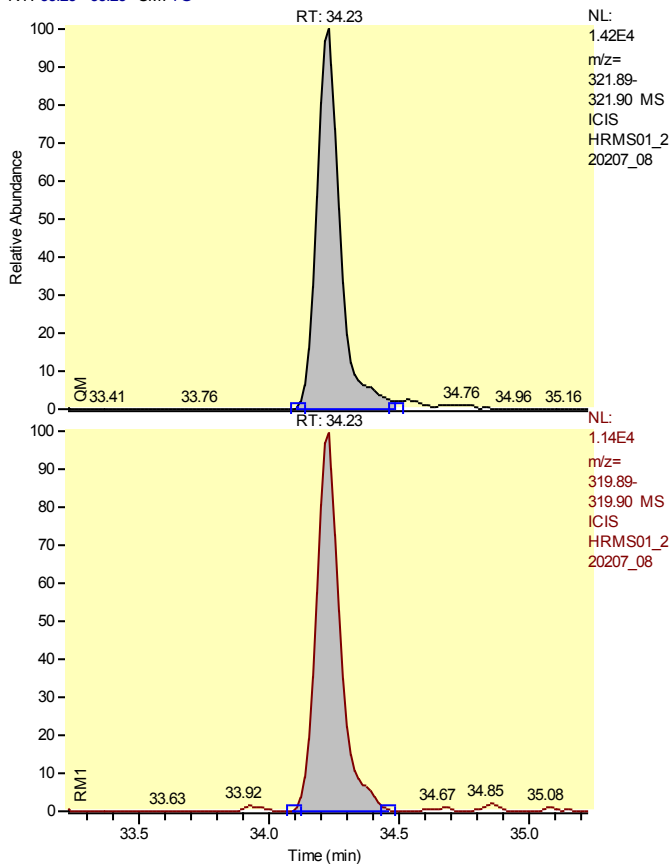
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G

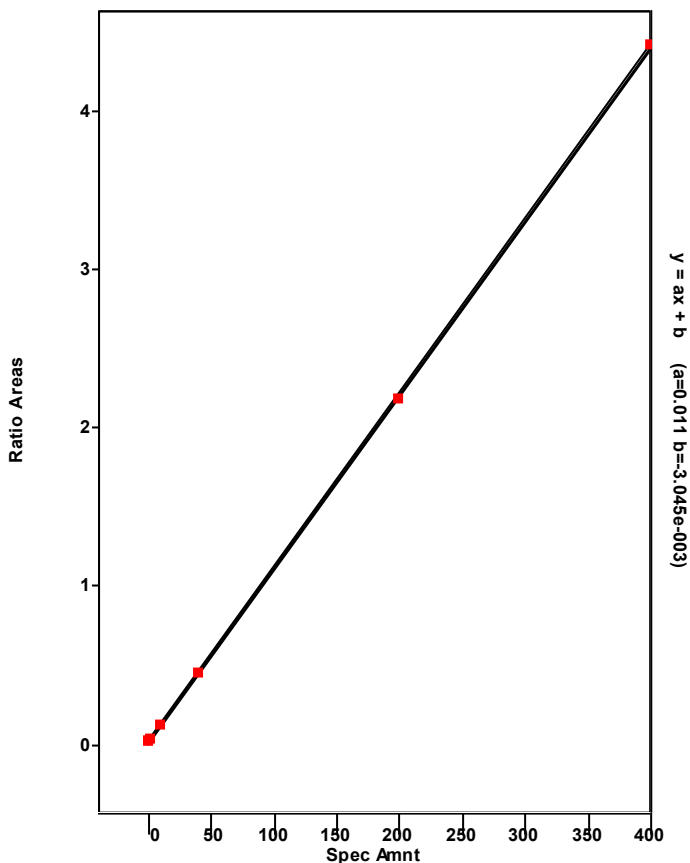


Entry Identifier	Total Tetrachlorodibenzo-p-dioxin__1
Compound Name	Single native TCDD
Label1	CAS# 41903-57-5
QM Area	93950
RM1 Area	76620
RM1 Ratio (A)	0.8155
Ratio1 Limit	0.6500 - 0.8900
Specified Amount	10.00
Calculated Amount (A)	10.26
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	

Entry: Total Tetrachlorodibenzo-p-dioxin__1 IS: 13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin

Calibration Points of Total Tetrachlorodibenzo-p-dioxin__1

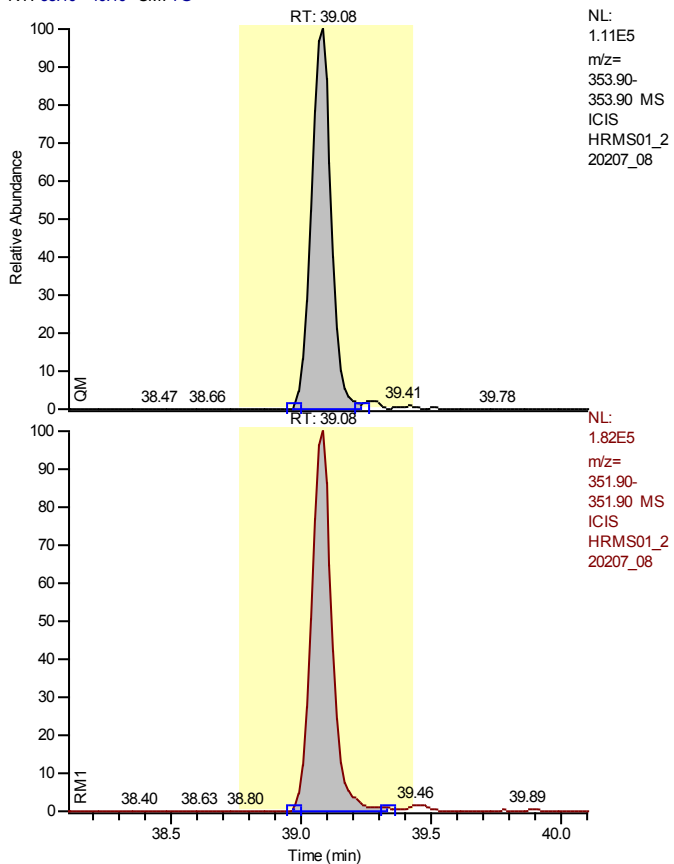
Linear Fit: StdDev = 0.015 RSD = 1.457 CF = 0.999922



Chromatogram

Entry Parameters

RT: 38.10 - 40.10 SM: 7G

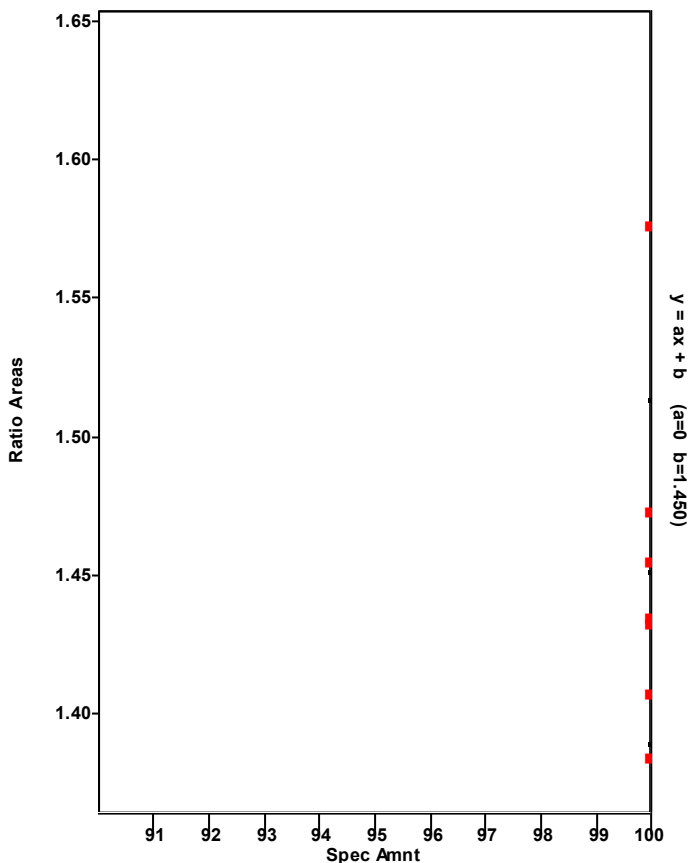


Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF 13C12 STD
Label1	
QM Area	591645
RM1 Area	998386
RM1 Ratio (A)	1.6875
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	76.27
Percent Recovery (A)	76
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzofuran

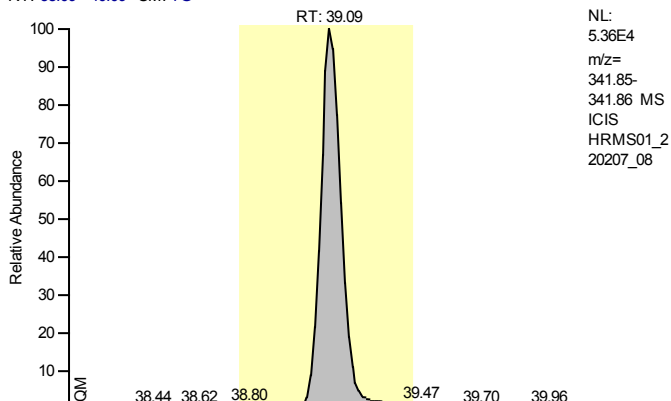
Linear Fit: StdDev = 0.062 RSD = 4.290 CF = 0.000000



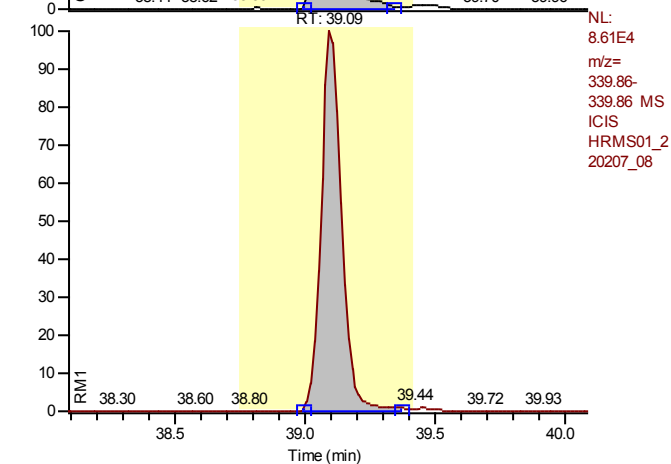
Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G



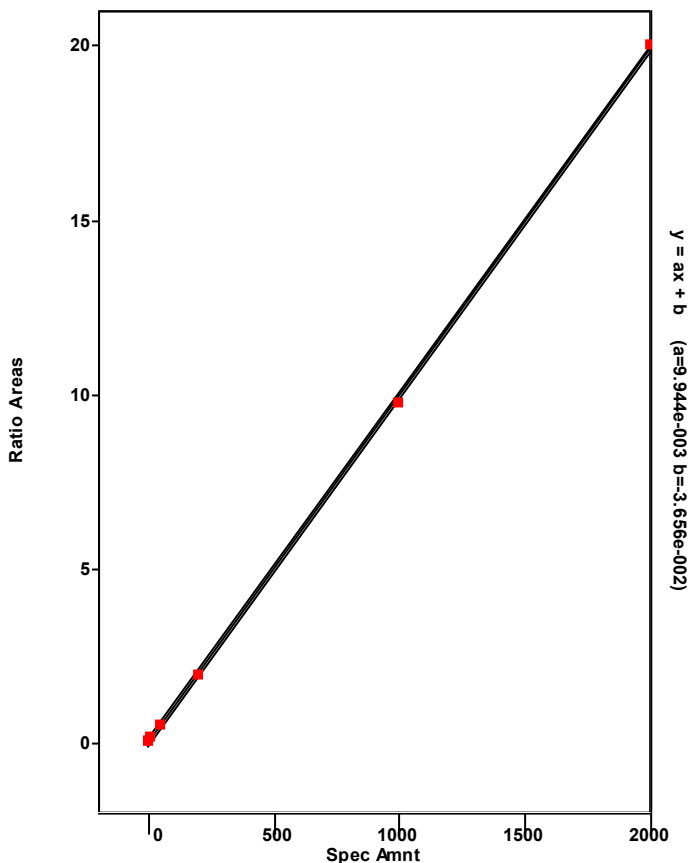
Entry Identifier	1,2,3,7,8-Pentachlorodibenzofuran
Compound Name	12378-PeCDF
Label1	CAS# 57117-41-6
QM Area	304189
RM1 Area	475469
RM1 Ratio (A)	1.5631
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	49.53
Percent Recovery (A)	99
TEQ (A)	1.4859
Label2	



Entry: 1,2,3,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of 1,2,3,7,8-Pentachlorodibenzofuran

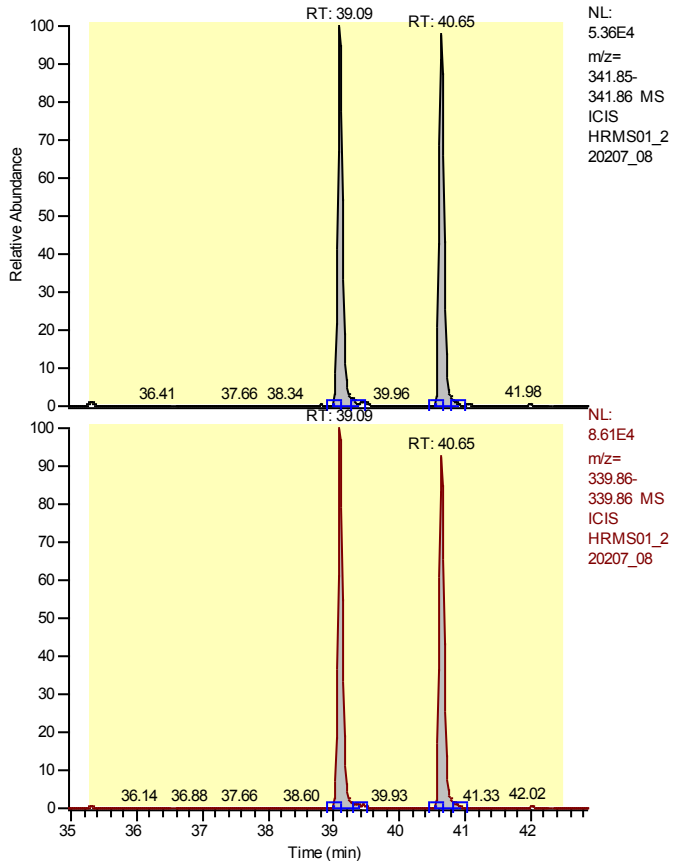
Linear Fit: StdDev = 0.110 RSD = 2.399 CF = 0.999790



Chromatogram

Entry Parameters

RT: 34.95 - 42.87 SM: 7G

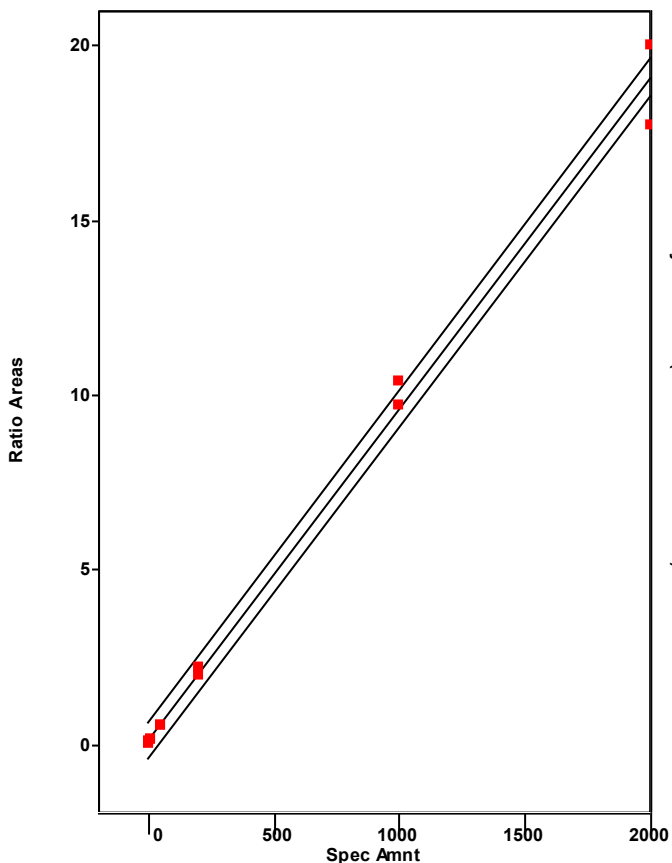


Entry Identifier	Total Pentachlorodibenzofuran
Compound Name	Total native PeCDF
Label1	CAS# 30402-15-4
QM Area	583278
RM1 Area	898372
RM1 Ratio (A)	1.5402
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	92.67
Percent Recovery (A)	185
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran

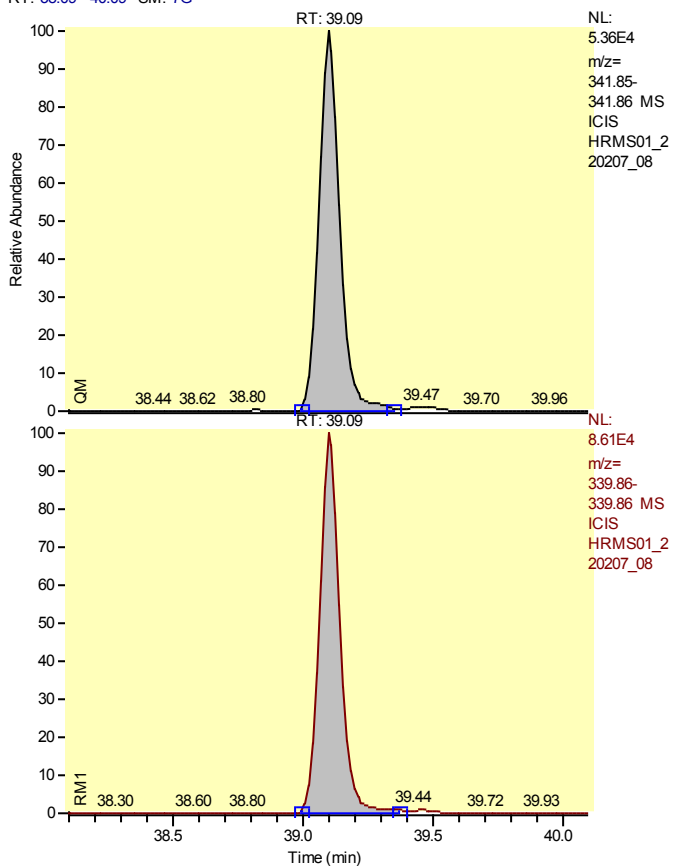
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 38.09 - 40.09 SM: 7G

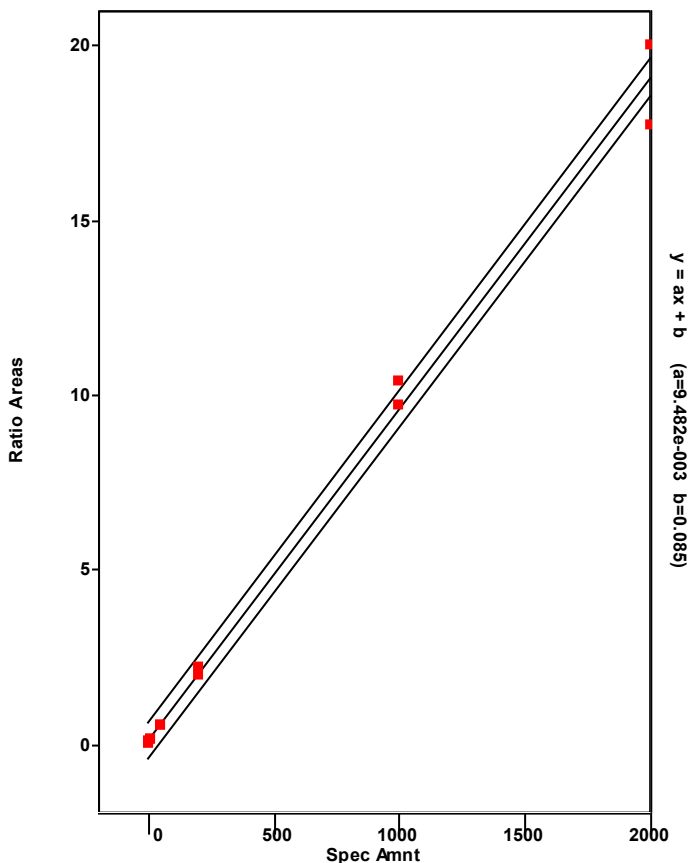


Entry Identifier	Total Pentachlorodibenzofuran__1
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	304189
RM1 Area	475469
RM1 Ratio (A)	1.5631
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	48.76
Percent Recovery (A)	98
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__1

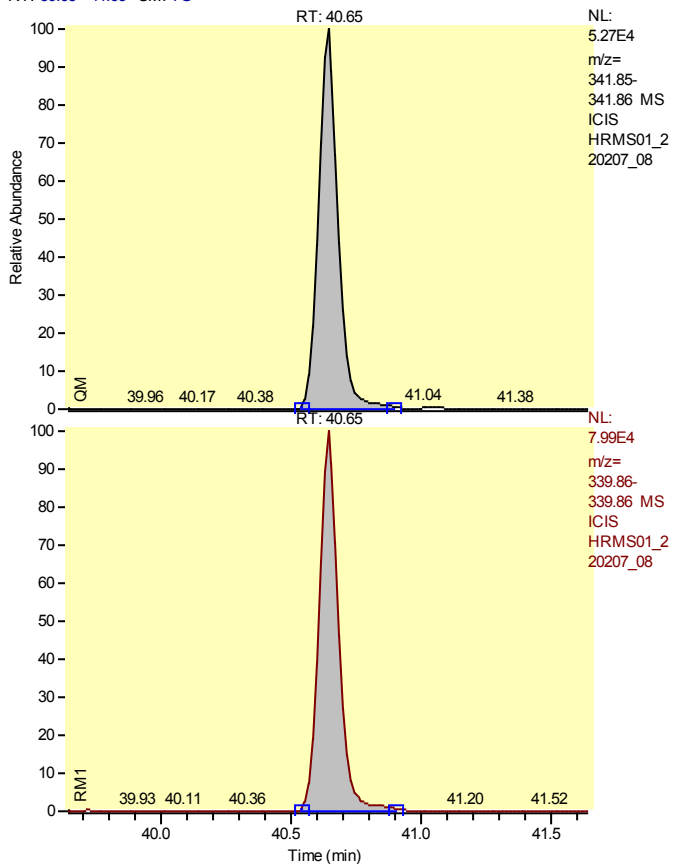
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

Entry Parameters

RT: 39.65 - 41.65 SM: 7G

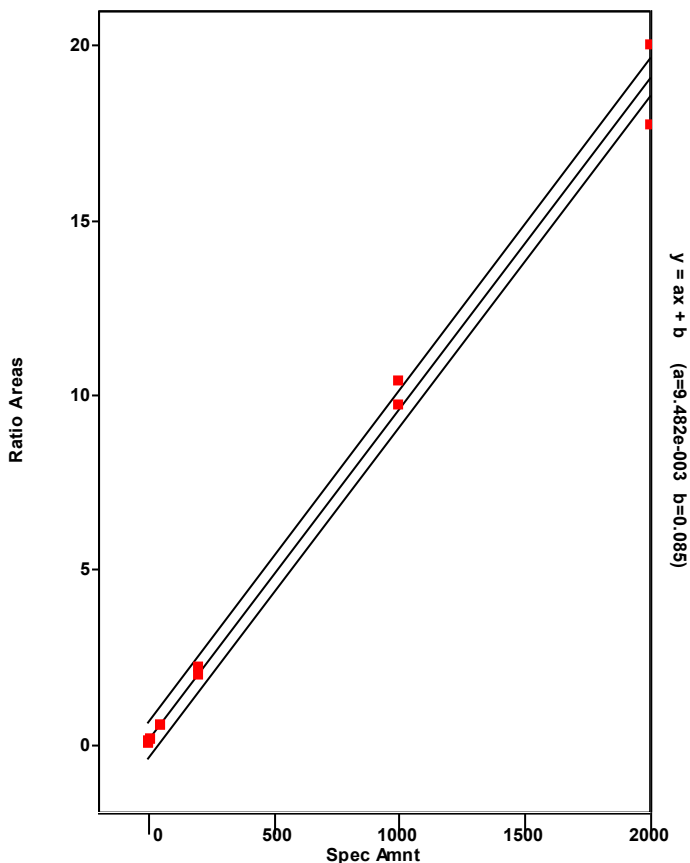


Entry Identifier	Total Pentachlorodibenzofuran__2
Compound Name	Single native PeCDF
Label1	CAS# 30402-15-4
QM Area	279089
RM1 Area	422902
RM1 Ratio (A)	1.5153
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	43.90
Percent Recovery (A)	88
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzofuran__2 IS: 13C12-1,2,3,7,8-Pentachlorodibenzofuran

Calibration Points of Total Pentachlorodibenzofuran__2

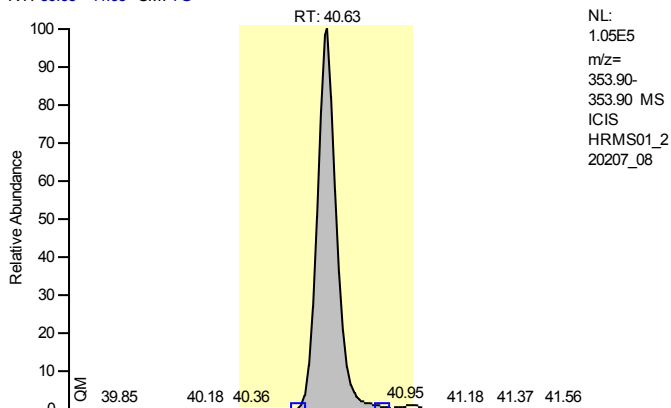
Linear Fit: StdDev = 0.521 RSD = 11.558 CF = 0.994462



Chromatogram

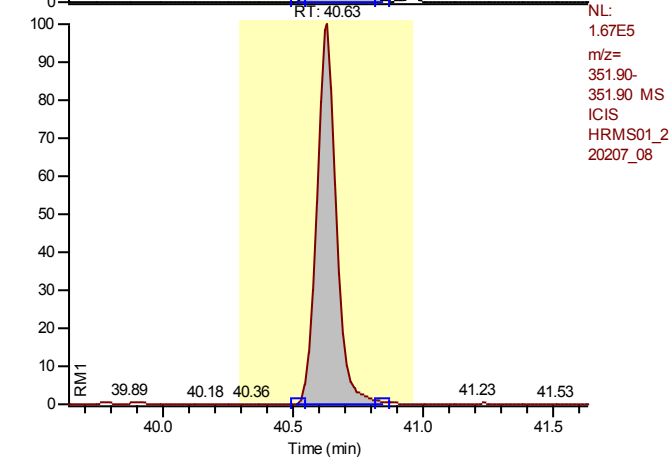
Entry Parameters

RT: 39.63 - 41.63 SM: 7G



NL:
 1.05E5
 m/z=
 353.90-
 353.90 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	13C12-2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF 13C12 STD
Label1	
QM Area	549503
RM1 Area	885037
RM1 Ratio (A)	1.6106
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	73.13
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	

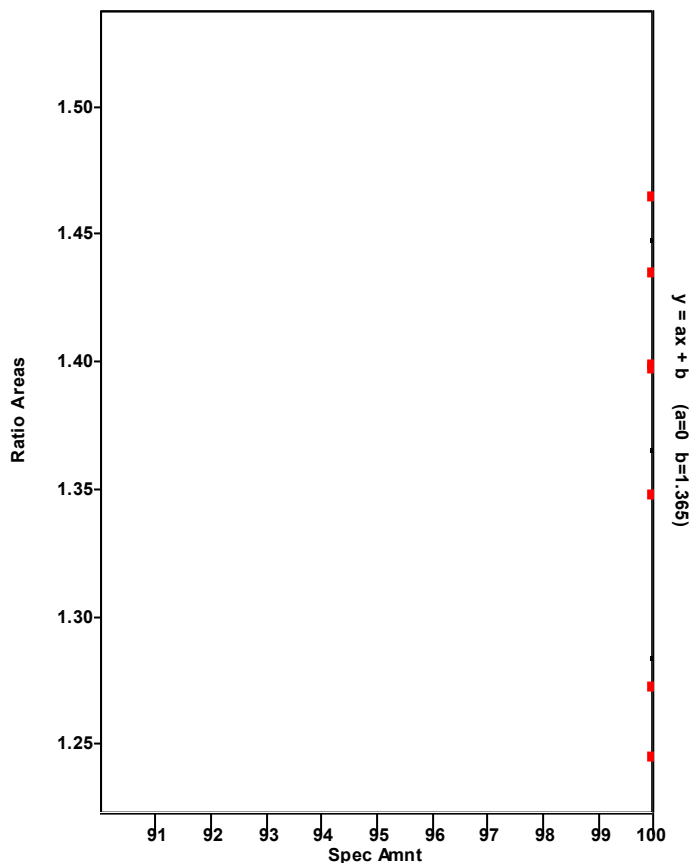


NL:
 1.67E5
 m/z=
 351.90-
 351.90 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 13C12-2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,7,8-Pentachlorodibenzofuran

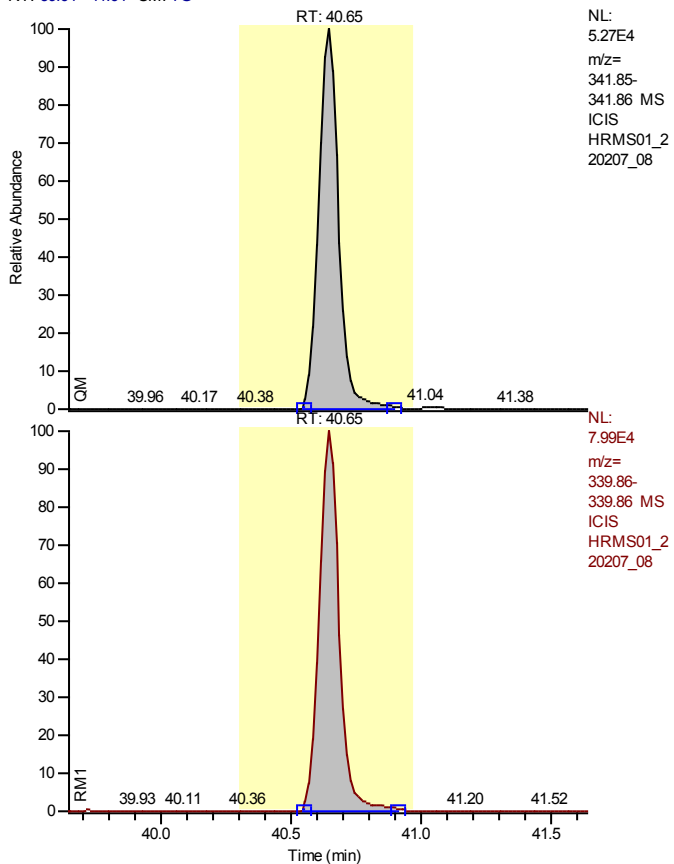
Linear Fit: StdDev = 0.082 RSD = 5.993 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.64 - 41.64 SM: 7G

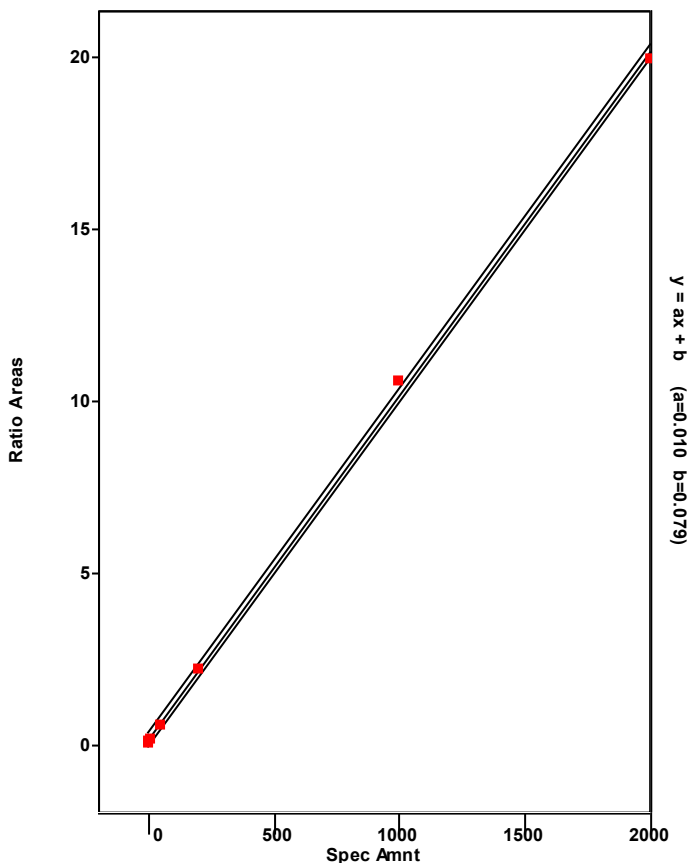


Entry Identifier	2,3,4,7,8-Pentachlorodibenzofuran
Compound Name	23478-PeCDF
Label1	CAS# 57117-31-4
QM Area	279089
RM1 Area	422902
RM1 Ratio (A)	1.5153
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	45.12
Percent Recovery (A)	90
TEQ (A)	13.5350
Label2	

Entry: 2,3,4,7,8-Pentachlorodibenzofuran IS: 13C12-2,3,4,7,8-Pentachlorodibenzofuran

Calibration Points of 2,3,4,7,8-Pentachlorodibenzofuran

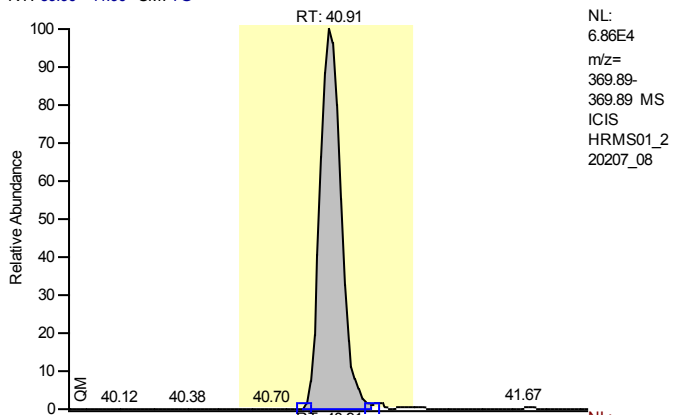
Linear Fit: StdDev = 0.201 RSD = 4.229 CF = 0.999315



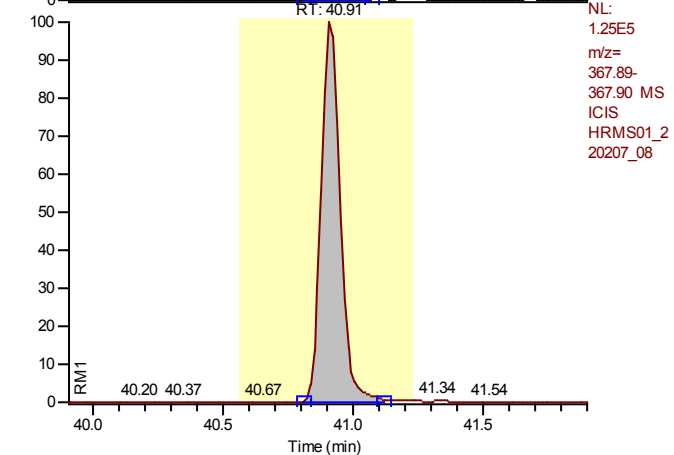
Chromatogram

Entry Parameters

RT: 39.90 - 41.90 SM: 7G



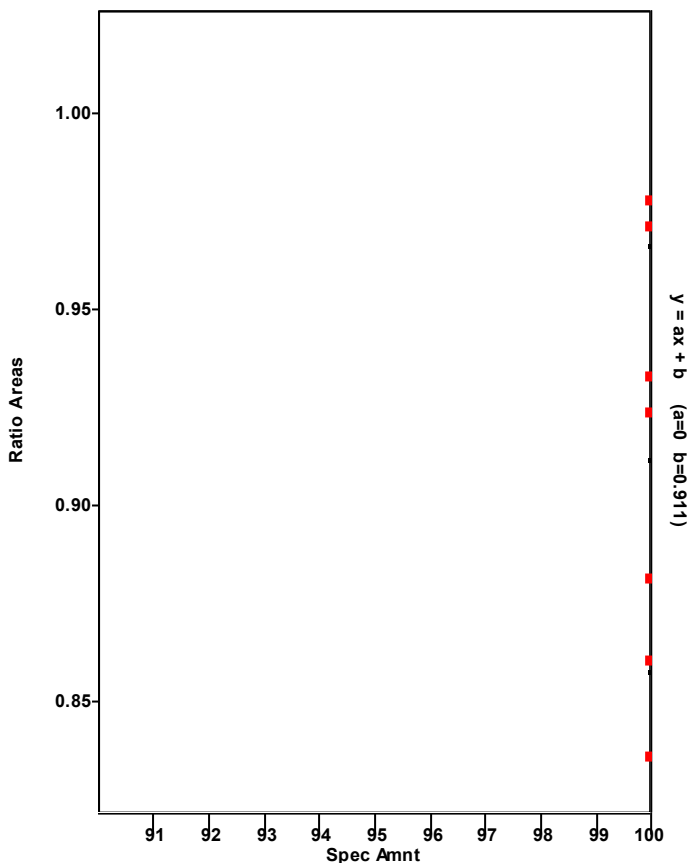
Entry Identifier	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD 13C12 STD
Label1	
QM Area	381207
RM1 Area	625503
RM1 Ratio (A)	1.6408
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	100.00
Calculated Amount (A)	76.86
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	



Entry: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

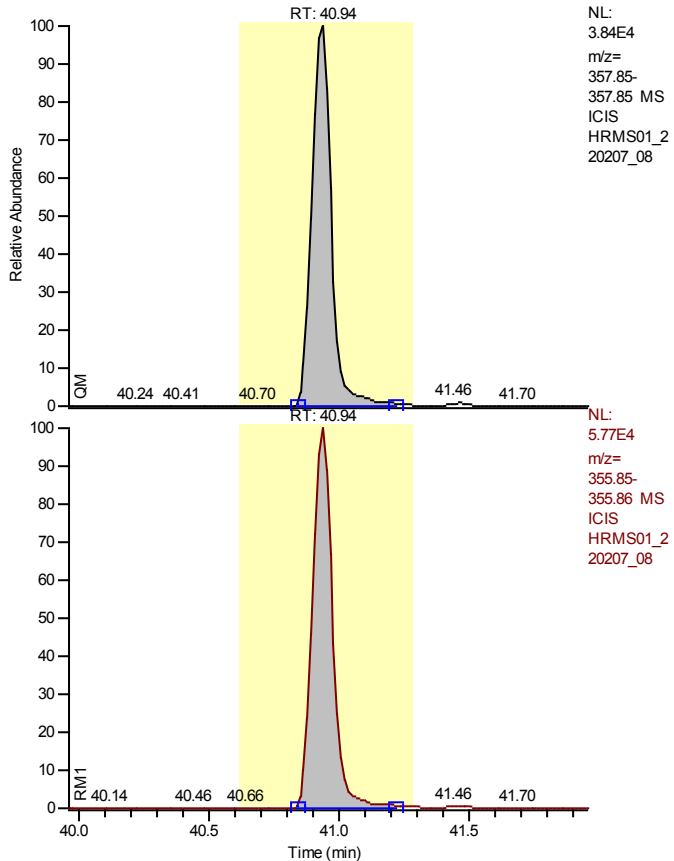
Linear Fit: StdDev = 0.054 RSD = 5.963 CF = 0.000000



Chromatogram

Entry Parameters

RT: 39.96 - 41.96 SM: 7G

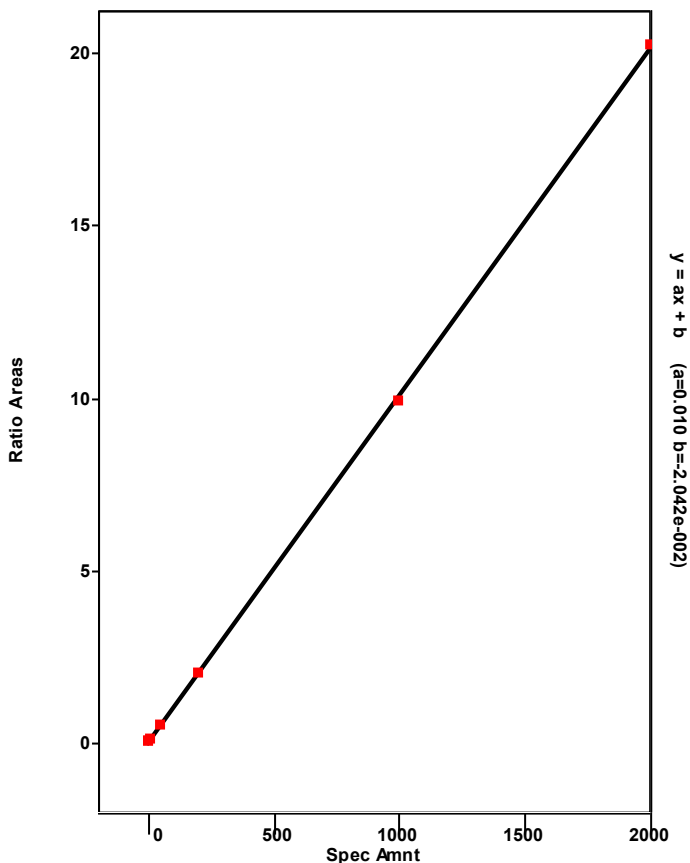


Entry Identifier	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Compound Name	12378-PeCDD
Label1	CAS# 40321-76-4
QM Area	199767
RM1 Area	310573
RM1 Ratio (A)	1.5547
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.54
Percent Recovery (A)	101
TEQ (A)	50.5392
Label2	

Entry: 1,2,3,7,8-Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin

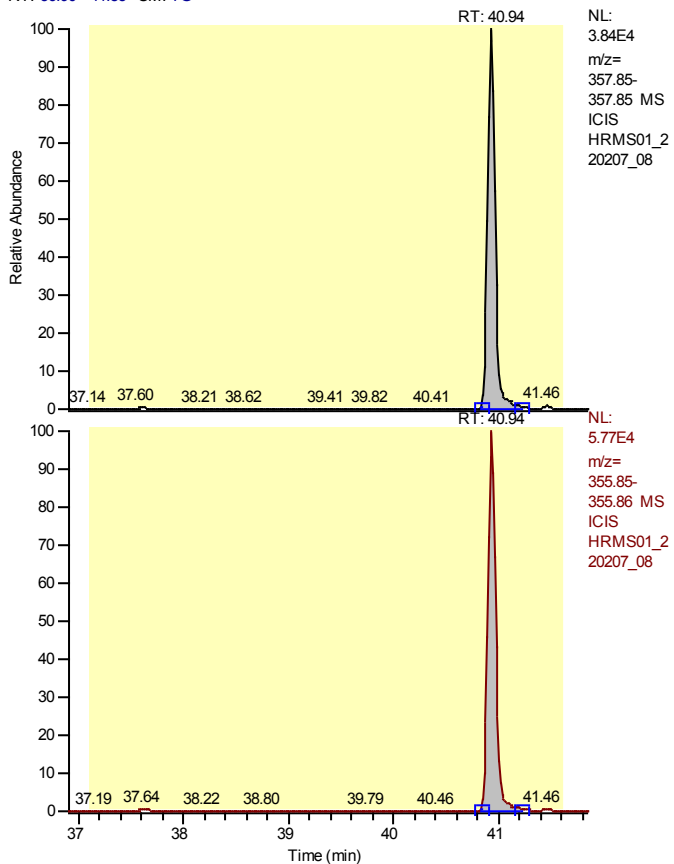
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 36.90 - 41.85 SM: 7G

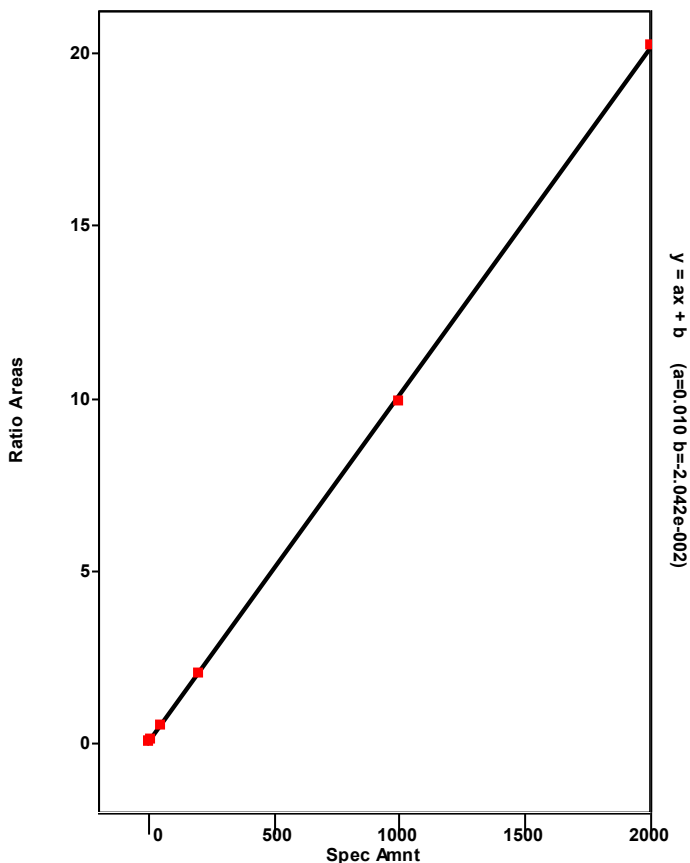


Entry Identifier	Total Pentachlorodibenzo-p-dioxin
Compound Name	Total native PeCDD
Label1	CAS# 36088-22-9
QM Area	199767
RM1 Area	310573
RM1 Ratio (A)	1.5547
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.54
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin

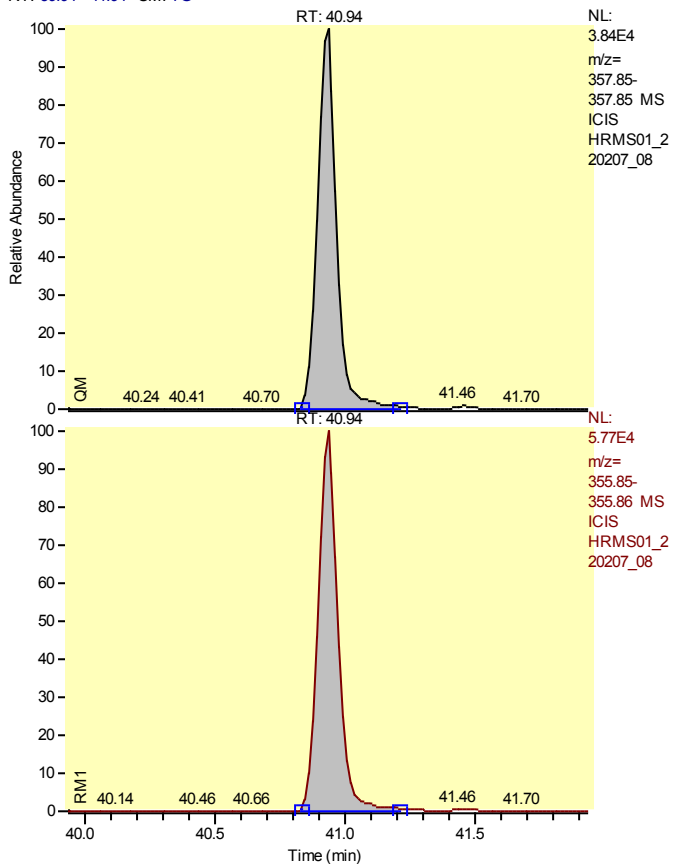
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 39.94 - 41.94 SM: 7G

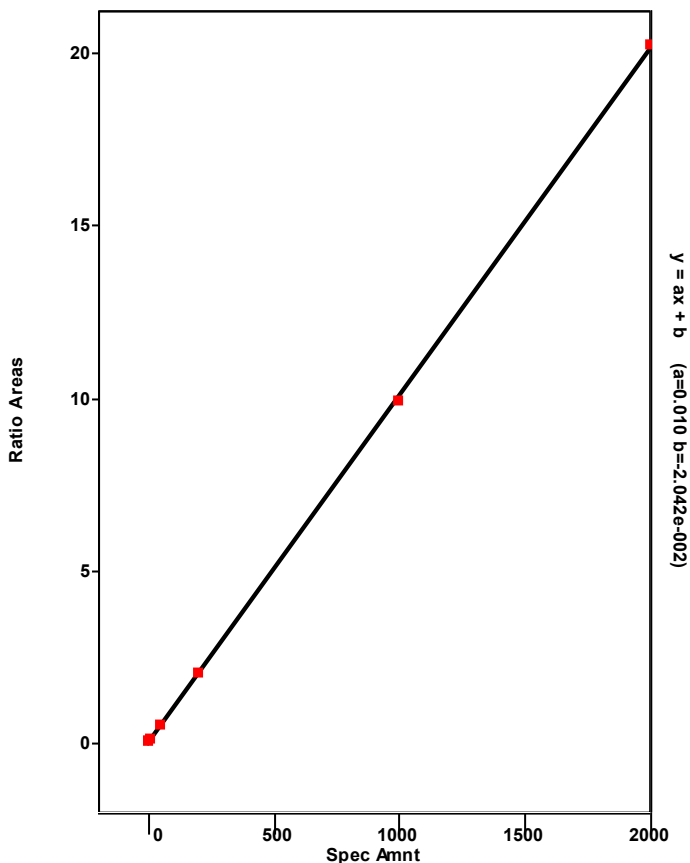


Entry Identifier	Total Pentachlorodibenzo-p-dioxin__1
Compound Name	Single native PeCDD
Label1	CAS# 36088-22-9
QM Area	199767
RM1 Area	310573
RM1 Ratio (A)	1.5547
Ratio1 Limit	1.3200 - 1.7800
Specified Amount	50.00
Calculated Amount (A)	50.54
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Pentachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin

Calibration Points of Total Pentachlorodibenzo-p-dioxin__1

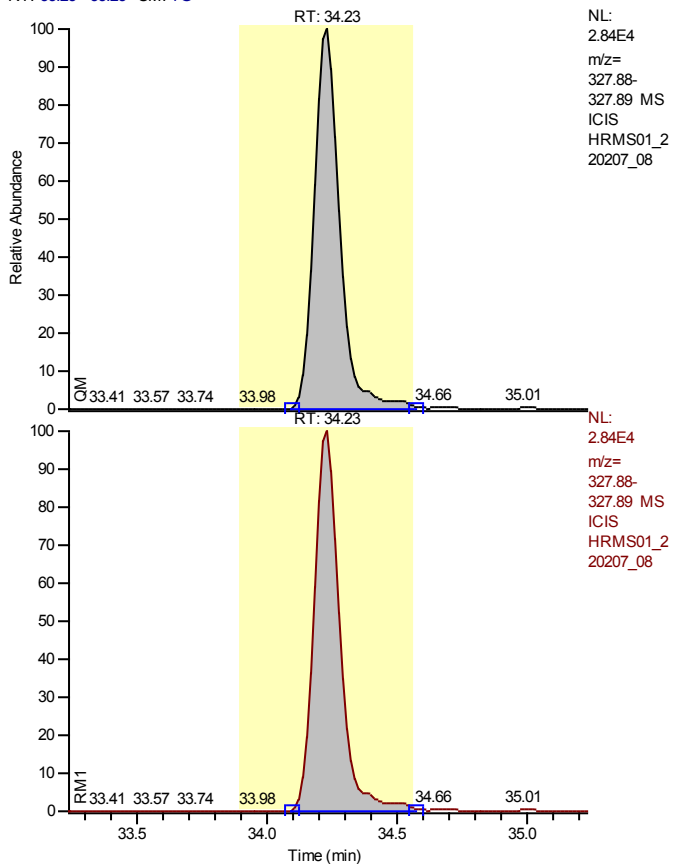
Linear Fit: StdDev = 0.071 RSD = 1.522 CF = 0.999915



Chromatogram

Entry Parameters

RT: 33.23 - 35.23 SM: 7G



NL:
 2.84E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_08

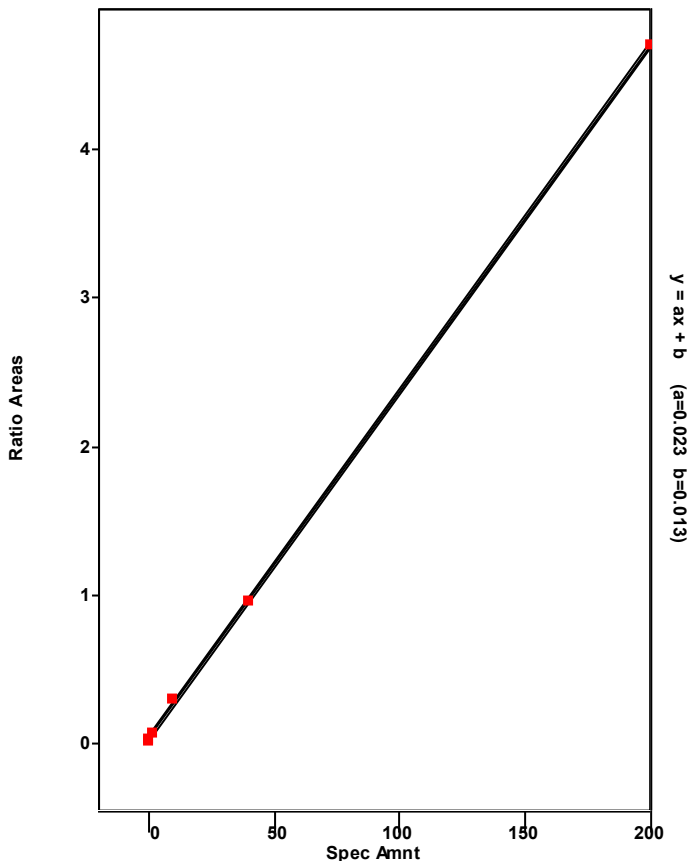
NL:
 2.84E4
 m/z=
 327.88-
 327.89 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin
Compound Name	2378-TCDD 37Cl4 STD
Label1	
QM Area	192727
RM1 Area	192727
RM1 Ratio (A)	1.0000
Ratio1 Limit	0.8500 - 1.1500
Specified Amount	10.00
Calculated Amount (A)	10.71
Percent Recovery (A)	107
TEQ (A)	0.0000
Label2	

Entry: 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4-Tetrachlorodibenzo-p-dioxin

Calibration Points of 37Cl4-2,3,7,8-Tetrachlorodibenzo-p-dioxin

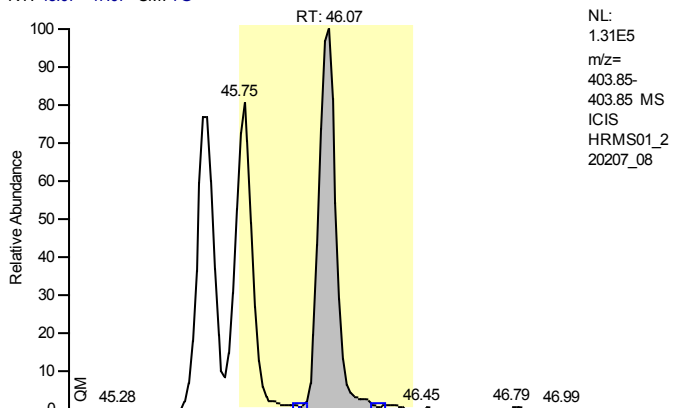
Linear Fit: StdDev = 0.020 RSD = 1.972 CF = 0.999886



Chromatogram

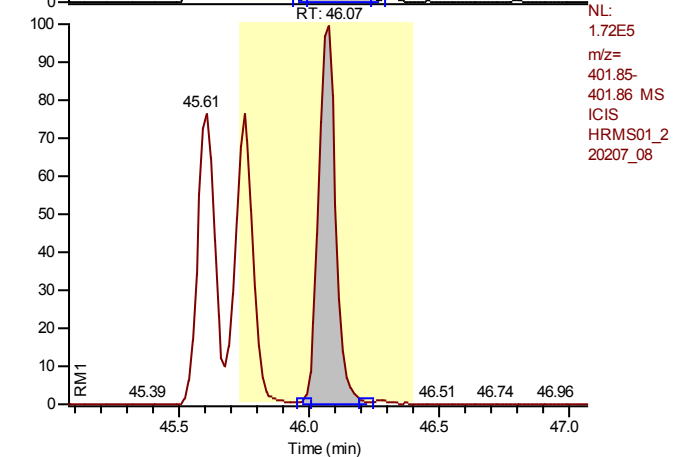
Entry Parameters

RT: 45.07 - 47.07 SM: 7G



NL:
 1.31E5
 m/z=
 403.85-
 403.85 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD 13C12 STD
Label1	
QM Area	611179
RM1 Area	789378
RM1 Ratio (A)	1.2916
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	100.00
Percent Recovery (A)	100
TEQ (A)	0.0000
Label2	

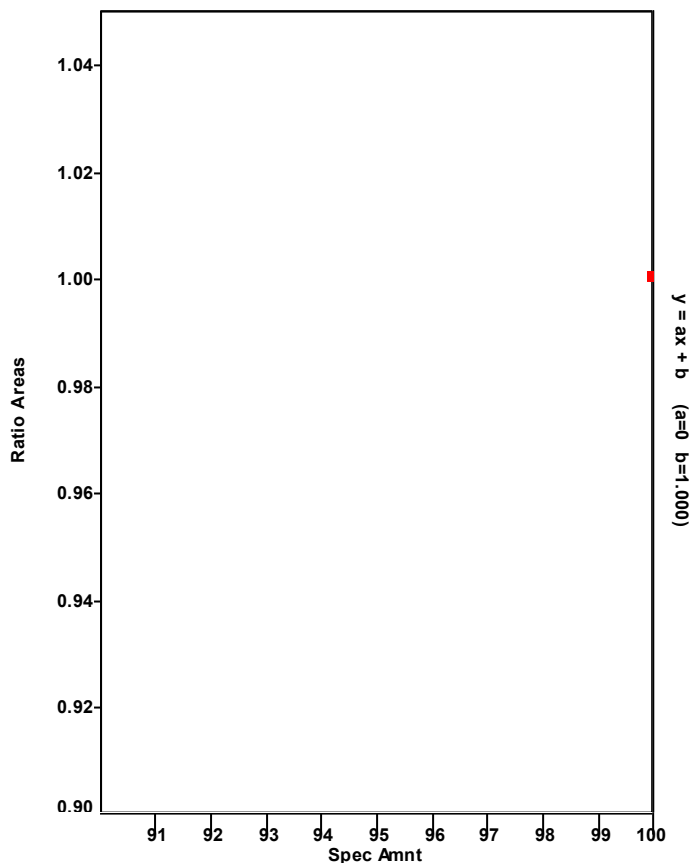


NL:
 1.72E5
 m/z=
 401.85-
 401.86 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

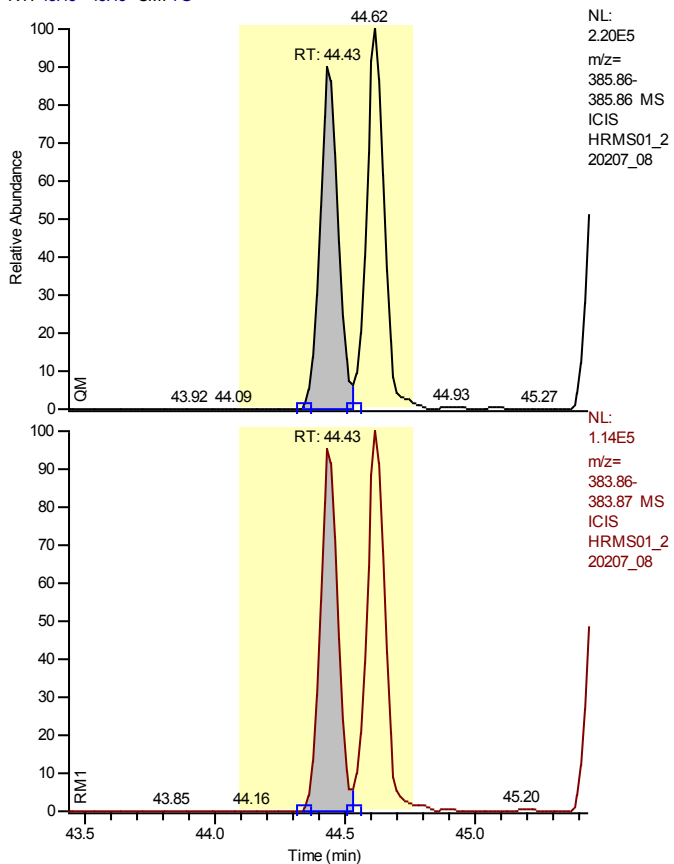
Linear Fit: StdDev = 0.000 RSD = 0.000 CF = 1.000000



Chromatogram

Entry Parameters

RT: 43.43 - 45.43 SM: 7G

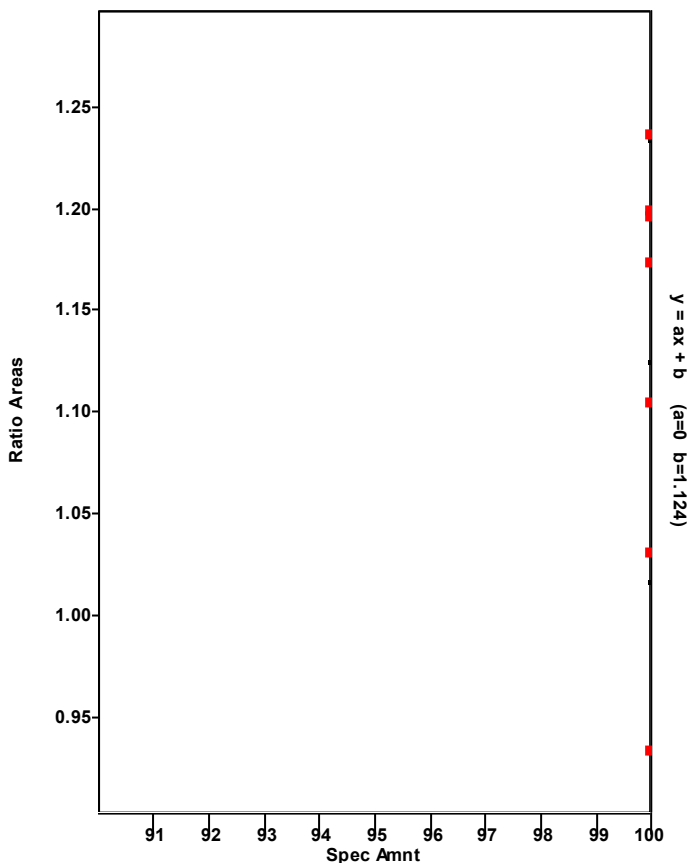


Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF 13C12 STD
Label1	
QM Area	968717
RM1 Area	518529
RM1 Ratio (A)	0.5353
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	94.52
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

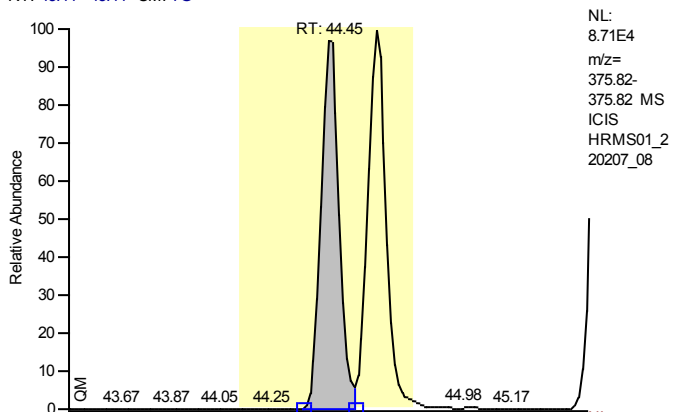
Linear Fit: StdDev = 0.109 RSD = 9.662 CF = 0.000000



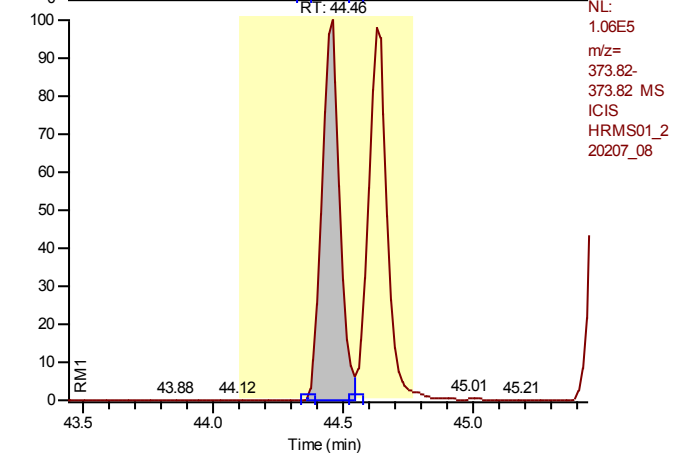
Chromatogram

Entry Parameters

RT: 43.44 - 45.44 SM: 7G



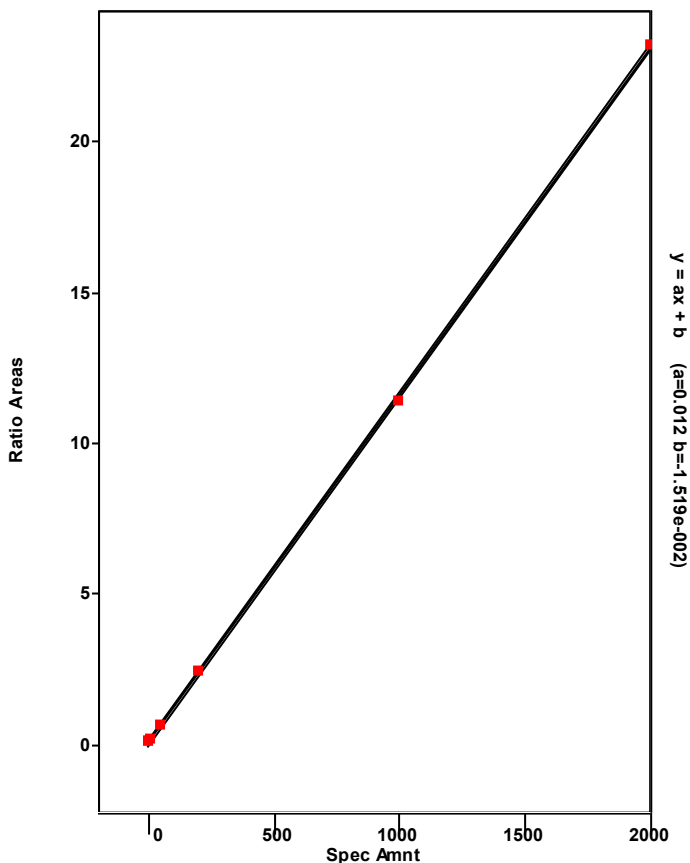
Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzofuran
Compound Name	123478-HxCDF
Label1	CAS# 70648-26-9
QM Area	408616
RM1 Area	504604
RM1 Ratio (A)	1.2349
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.28
Percent Recovery (A)	107
TEQ (A)	5.3277
Label2	



Entry: 1,2,3,4,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzofuran

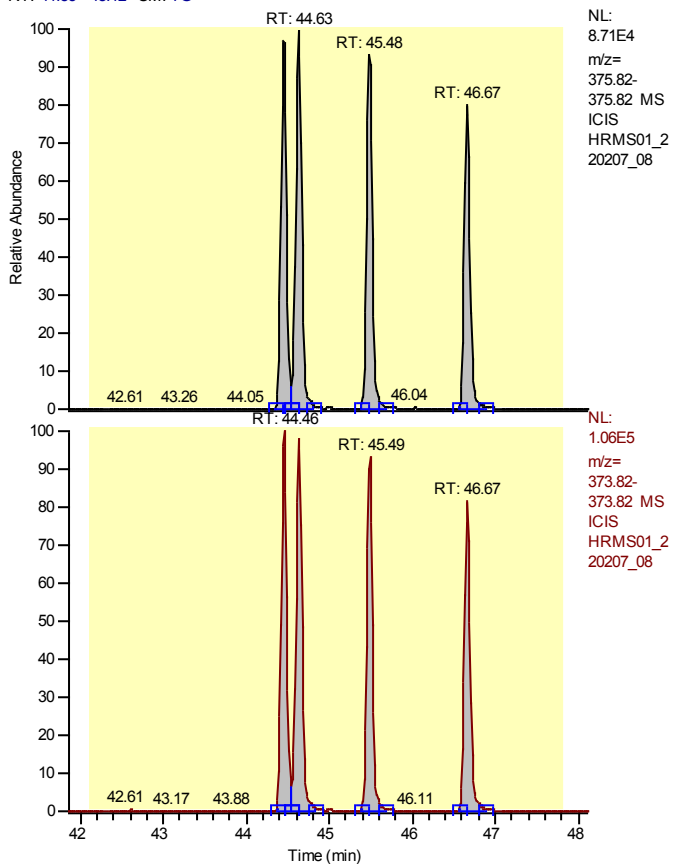
Linear Fit: StdDev = 0.100 RSD = 1.870 CF = 0.999871



Chromatogram

Entry Parameters

RT: 41.85 - 48.12 SM: 7G

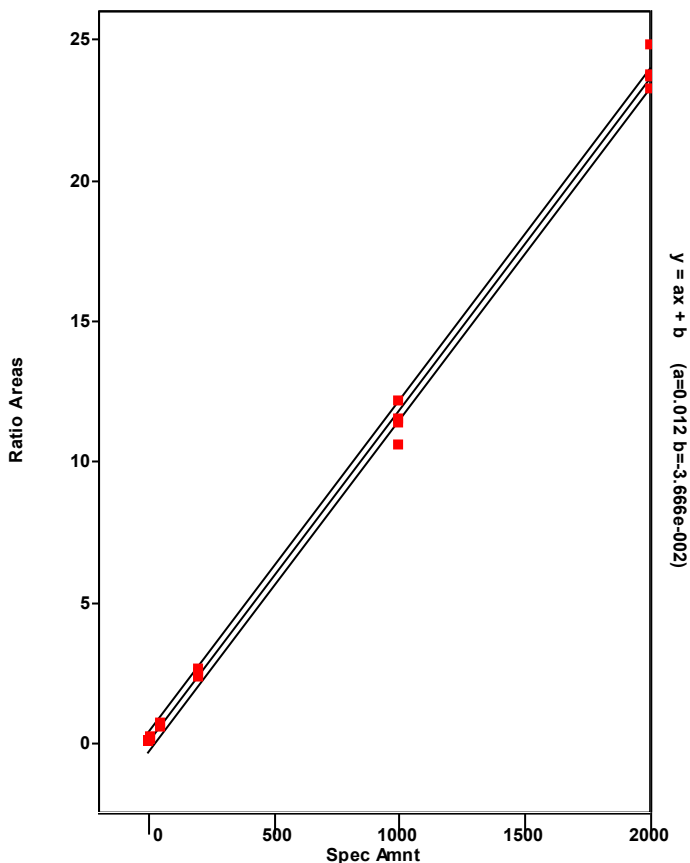


Entry Identifier	Total Hexachlorodibenzofuran
Compound Name	Total native HxCDF
Label1	CAS# 55684-94-1
QM Area	1556352
RM1 Area	1908772
RM1 Ratio (A)	1.2264
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	194.86
Percent Recovery (A)	390
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran

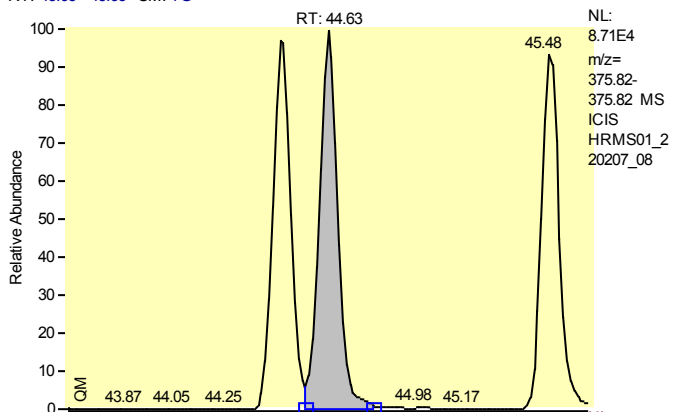
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



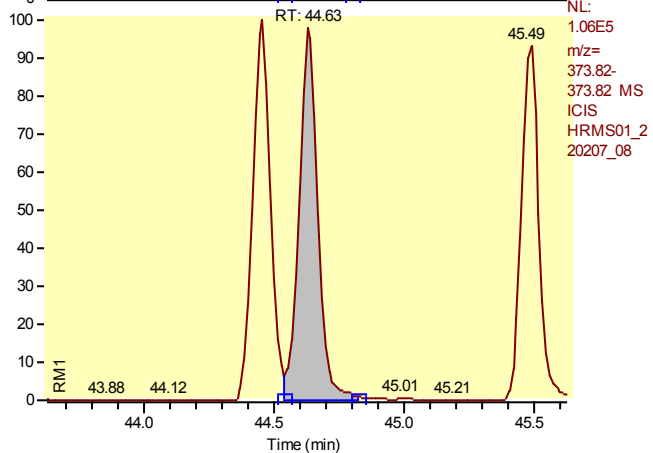
Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G



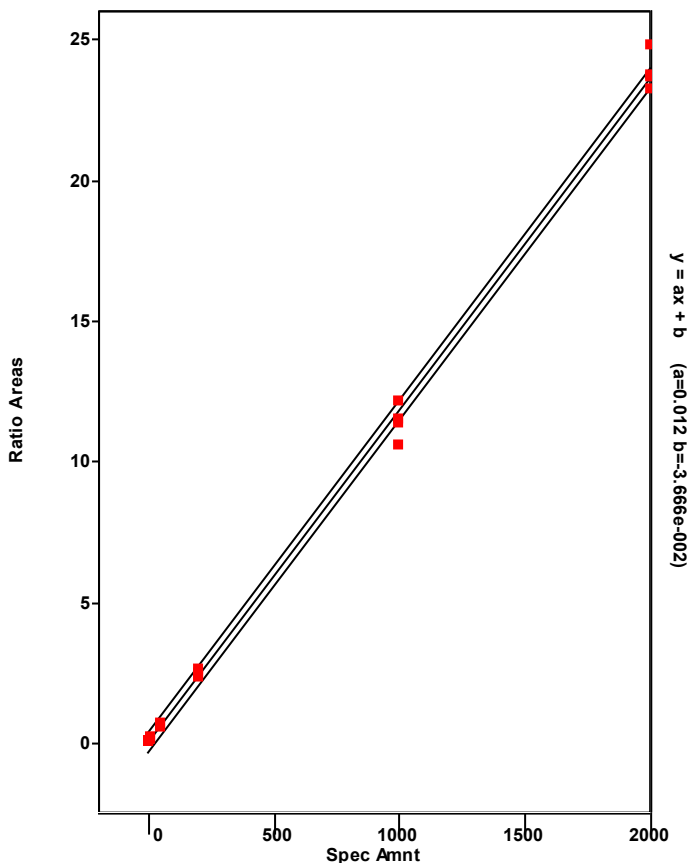
Entry Identifier	Total Hexachlorodibenzofuran__1
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	424872
RM1 Area	519791
RM1 Ratio (A)	1.2234
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.12
Percent Recovery (A)	106
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__1

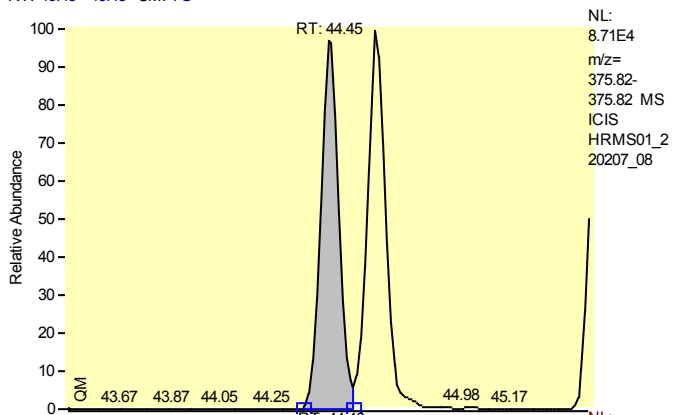
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



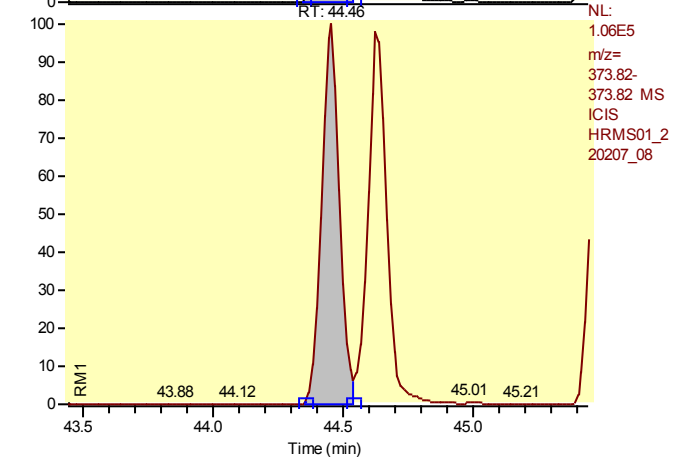
Chromatogram

Entry Parameters

RT: 43.45 - 45.45 SM: 7G



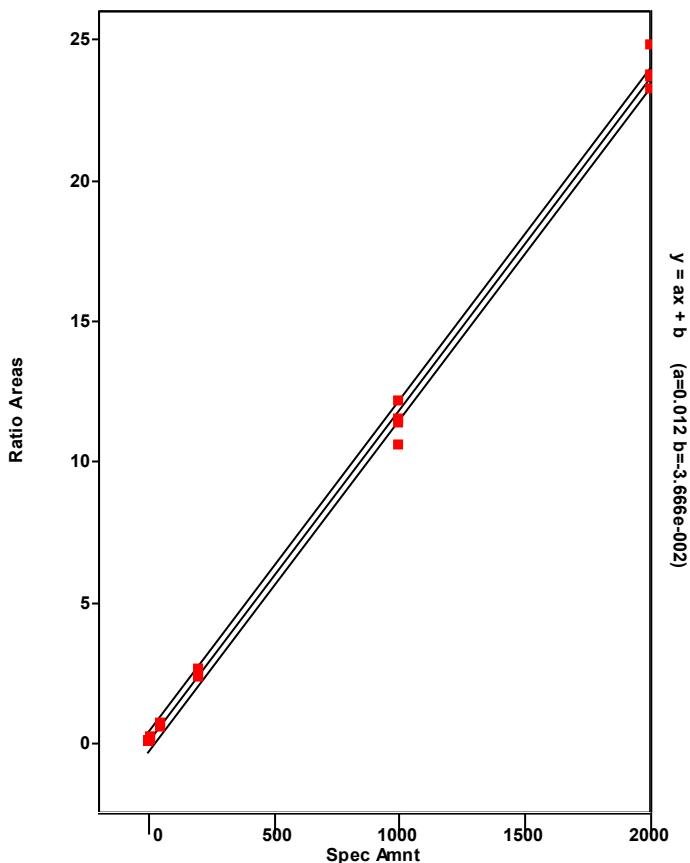
Entry Identifier	Total Hexachlorodibenzofuran__2
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	408616
RM1 Area	504604
RM1 Ratio (A)	1.2349
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.36
Percent Recovery (A)	103
TEQ (A)	0.0000
Label2	



Entry: Total Hexachlorodibenzofuran__2 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__2

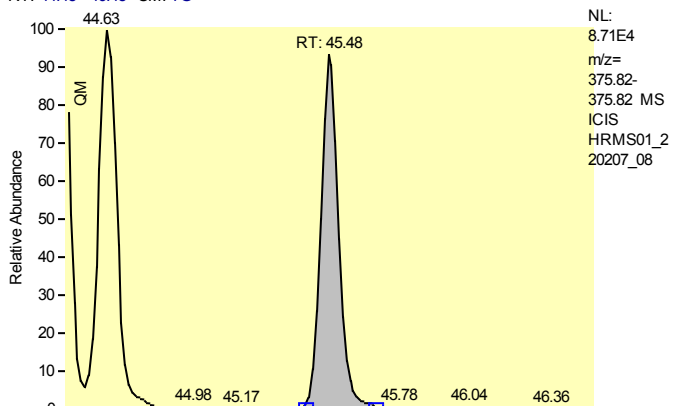
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

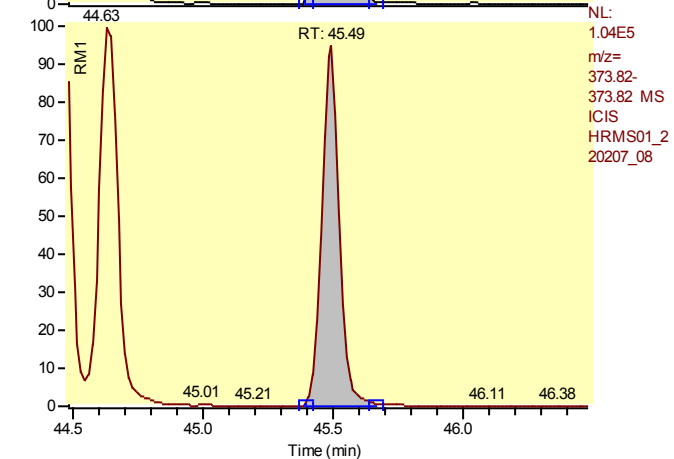
Entry Parameters

RT: 44.48 - 46.48 SM: 7G



NL:
 8.71E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	Total Hexachlorodibenzofuran__3
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	386941
RM1 Area	462464
RM1 Ratio (A)	1.1952
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	47.77
Percent Recovery (A)	96
TEQ (A)	0.0000
Label2	

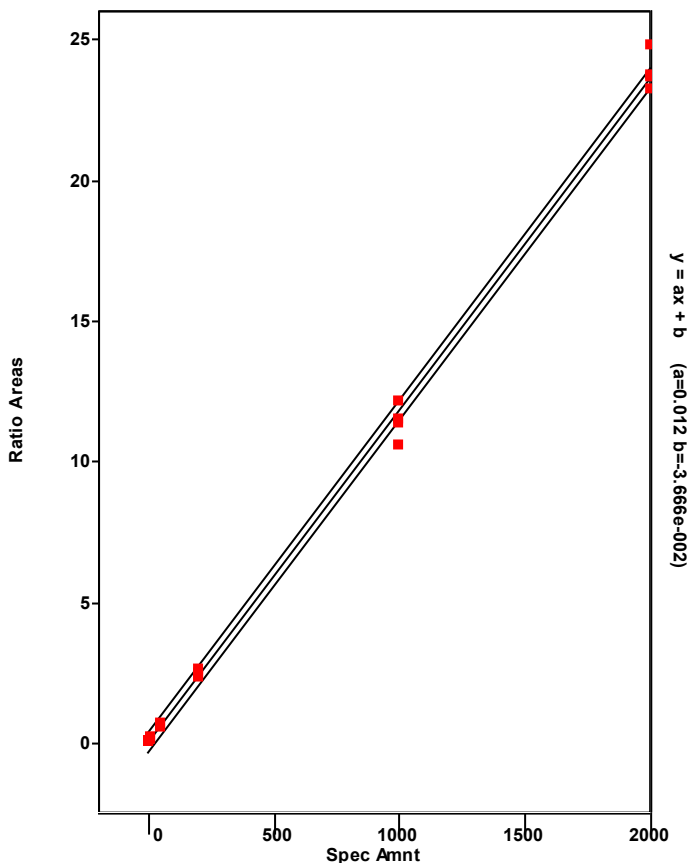


NL:
 1.04E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry: Total Hexachlorodibenzofuran__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__3

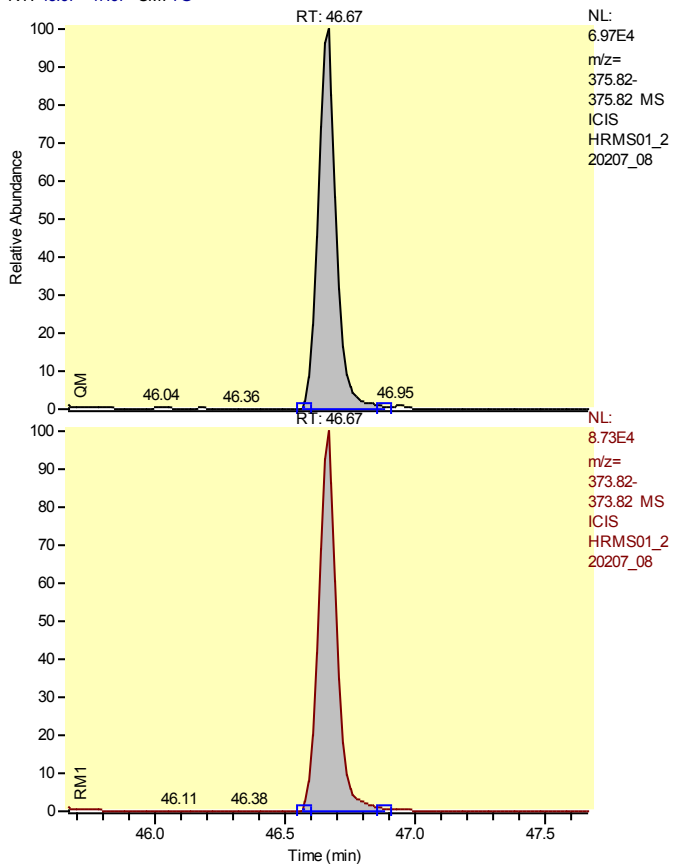
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 45.67 - 47.67 SM: 7G

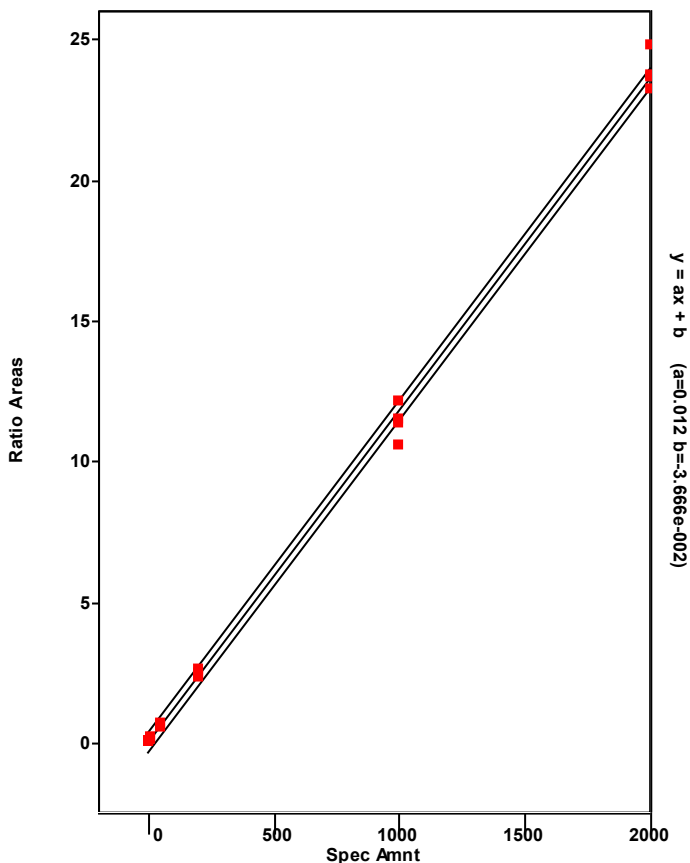


Entry Identifier	Total Hexachlorodibenzofuran__4
Compound Name	Single native HxCDF
Label1	CAS# 55684-94-1
QM Area	335923
RM1 Area	421913
RM1 Ratio (A)	1.2560
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	42.62
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzofuran__4 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzofuran

Calibration Points of Total Hexachlorodibenzofuran__4

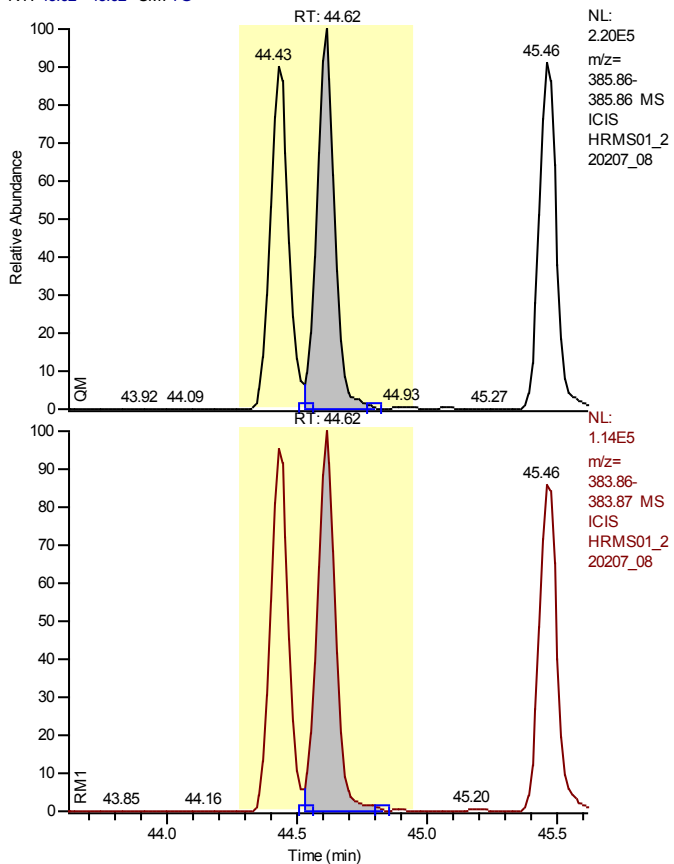
Linear Fit: StdDev = 0.363 RSD = 6.633 CF = 0.998194



Chromatogram

Entry Parameters

RT: 43.62 - 45.62 SM: 7G

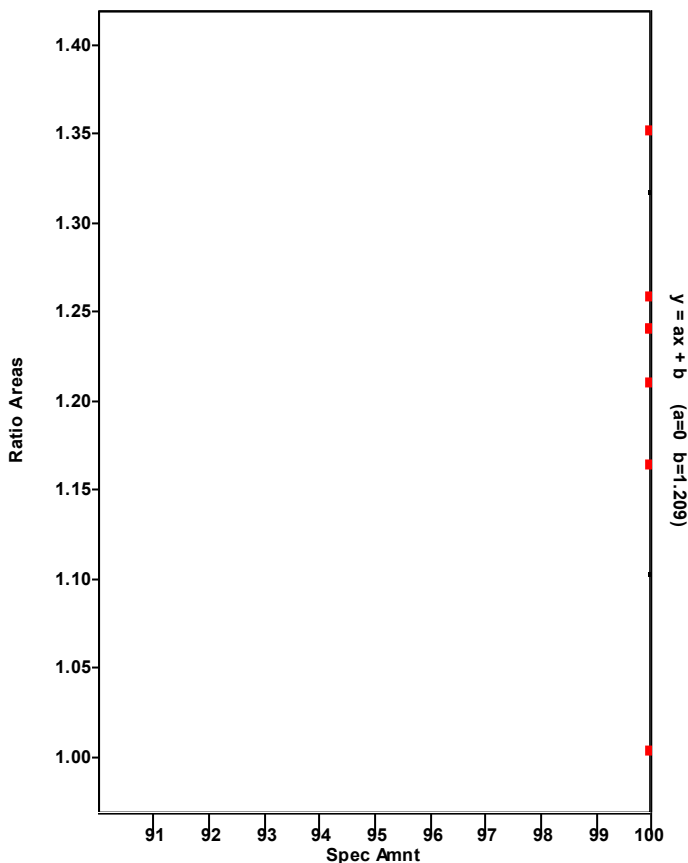


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF 13C12 STD
Label1	
QM Area	1051425
RM1 Area	562419
RM1 Ratio (A)	0.5349
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	95.35
Percent Recovery (A)	95
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

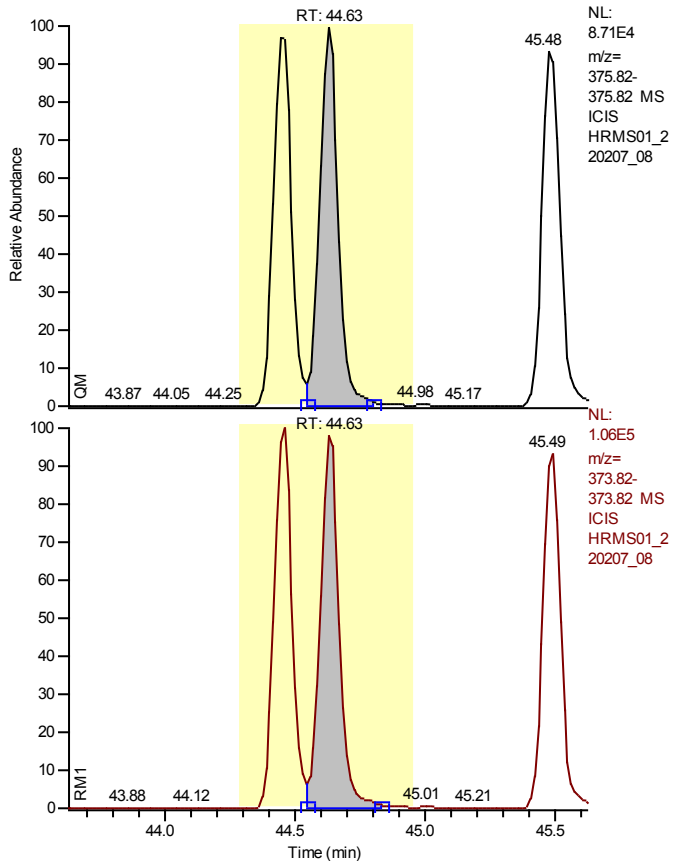
Linear Fit: StdDev = 0.107 RSD = 8.887 CF = 0.000000



Chromatogram

Entry Parameters

RT: 43.63 - 45.63 SM: 7G

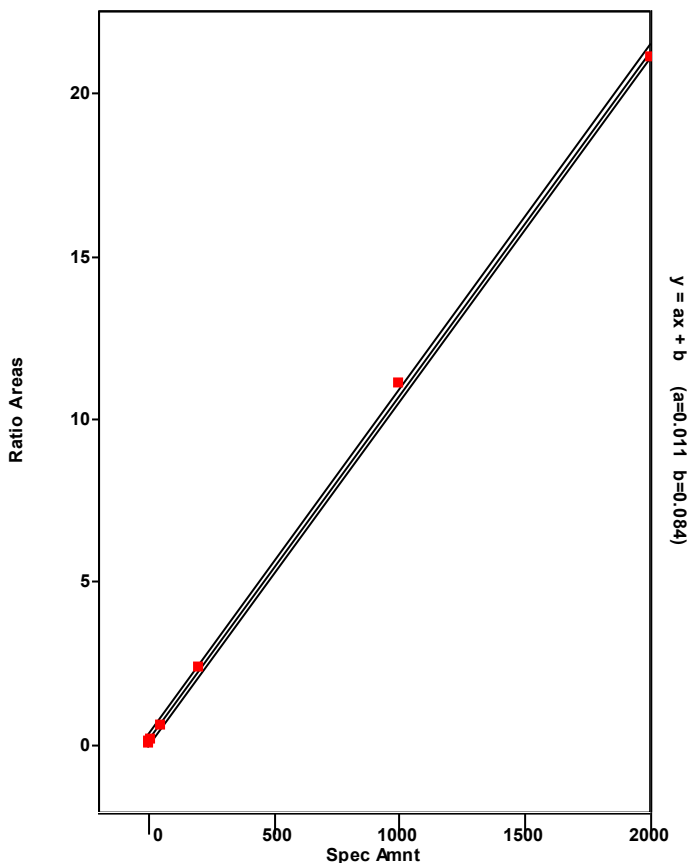


Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzofuran
Compound Name	123678-HxCDF
Label1	CAS# 57117-44-9
QM Area	424872
RM1 Area	519791
RM1 Ratio (A)	1.2234
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	51.16
Percent Recovery (A)	102
TEQ (A)	5.1164
Label2	

Entry: 1,2,3,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzofuran

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzofuran

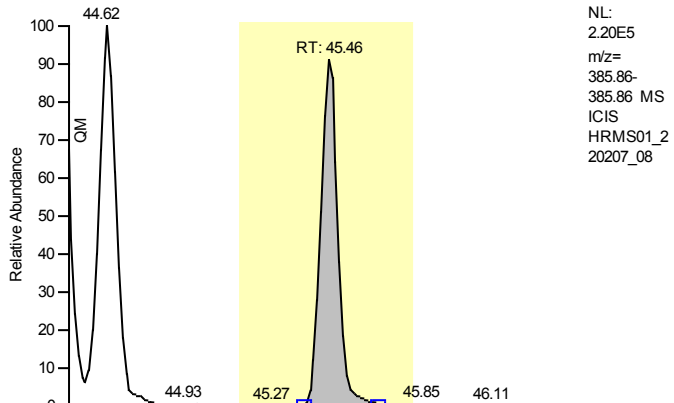
Linear Fit: StdDev = 0.192 RSD = 3.838 CF = 0.999436



Chromatogram

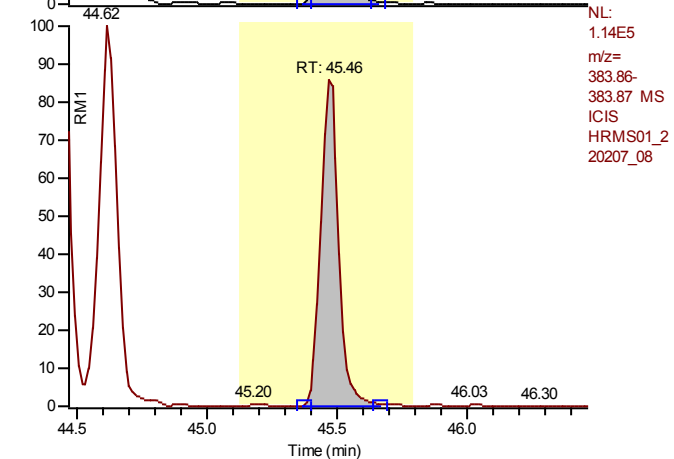
Entry Parameters

RT: 44.46 - 46.46 SM: 7G



NL:
 2.20E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	13C12-2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF 13C12 STD
Label1	
QM Area	930825
RM1 Area	474340
RM1 Ratio (A)	0.5096
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	85.18
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

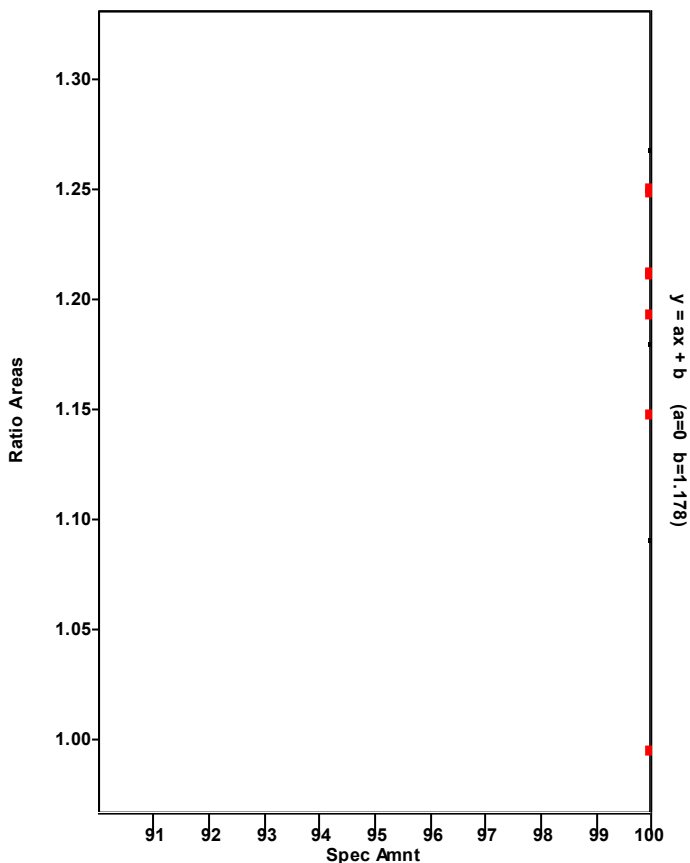


NL:
 1.14E5
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

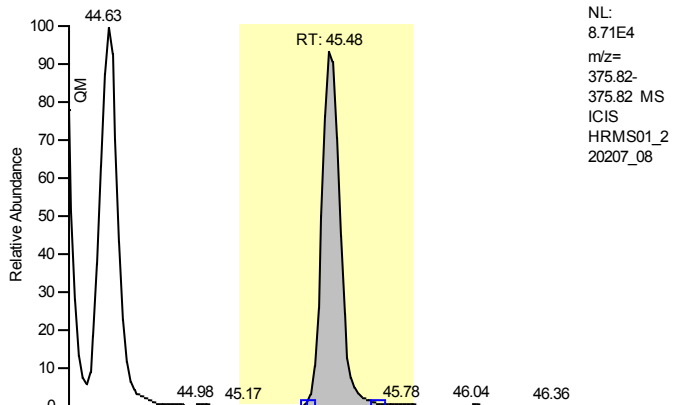
Linear Fit: StdDev = 0.089 RSD = 7.537 CF = 0.000000



Chromatogram

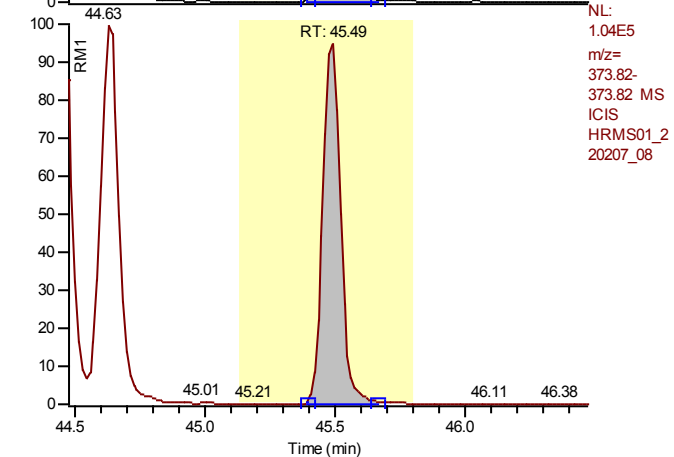
Entry Parameters

RT: 44.47 - 46.47 SM: 7G



NL:
 8.71E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	2,3,4,6,7,8-Hexachlorodibenzofuran
Compound Name	234678-HxCDF
Label1	CAS# 60851-34-5
QM Area	386941
RM1 Area	462464
RM1 Ratio (A)	1.1952
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.66
Percent Recovery (A)	101
TEQ (A)	5.0656
Label2	

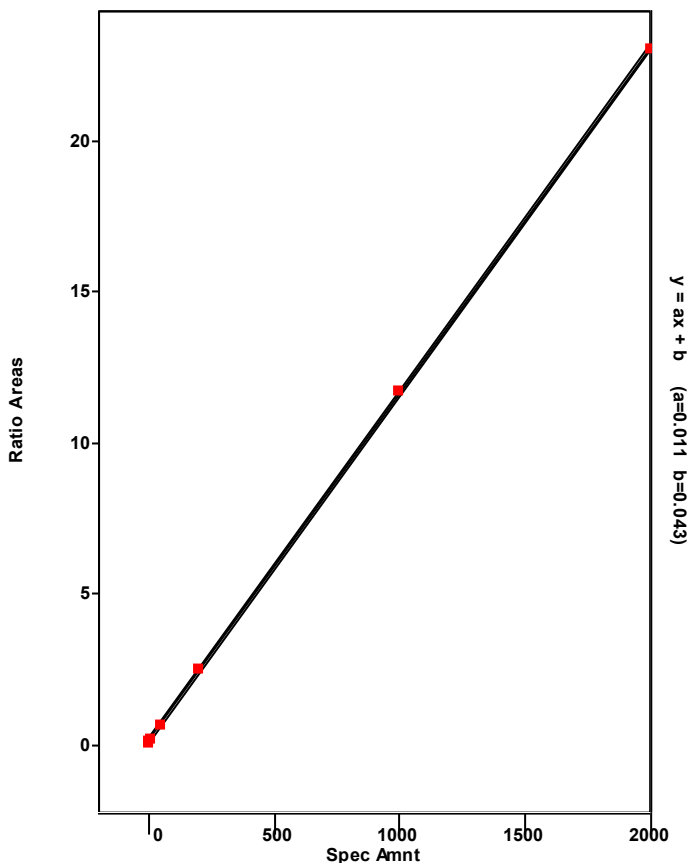


NL:
 1.04E5
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 2,3,4,6,7,8-Hexachlorodibenzofuran IS: 13C12-2,3,4,6,7,8-Hexachlorodibenzofuran

Calibration Points of 2,3,4,6,7,8-Hexachlorodibenzofuran

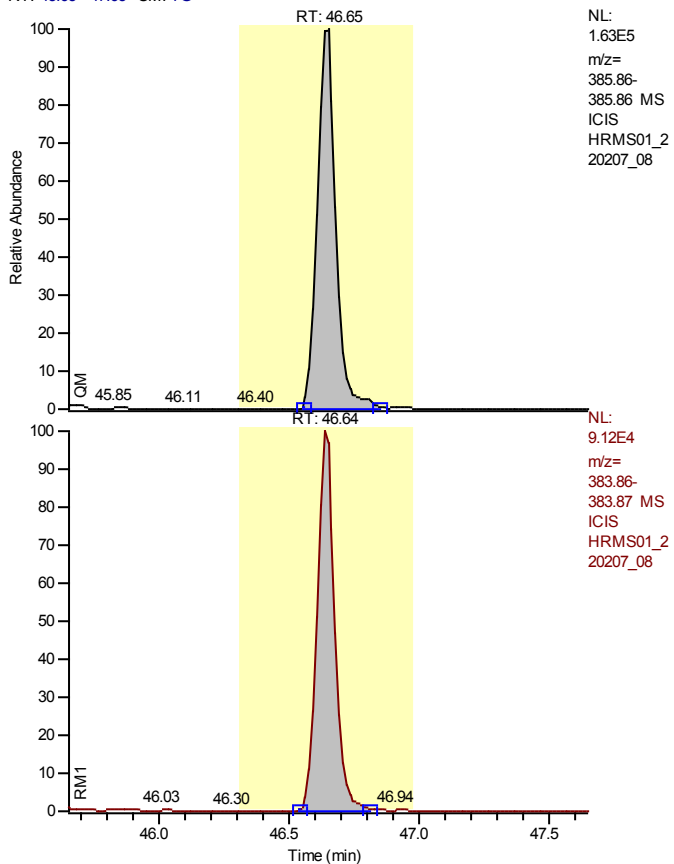
Linear Fit: StdDev = 0.086 RSD = 1.586 CF = 0.999905



Chromatogram

Entry Parameters

RT: 45.65 - 47.65 SM: 7G



NL:
 1.63E5
 m/z=
 385.86-
 385.86 MS
 ICIS
 HRMS01_2
 20207_08

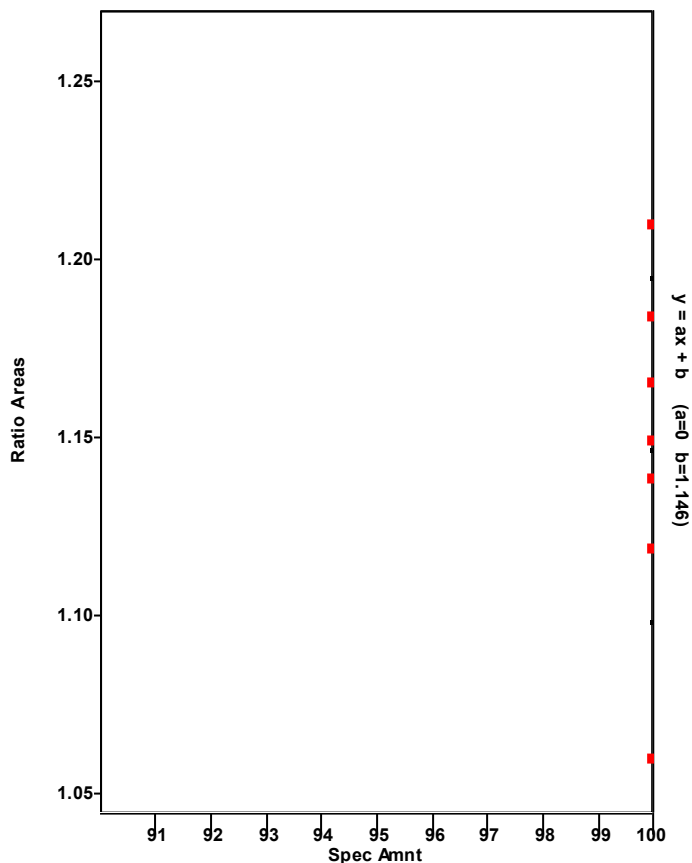
NL:
 9.12E4
 m/z=
 383.86-
 383.87 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	13C12-1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF 13C12 STD
Label1	
QM Area	805364
RM1 Area	426618
RM1 Ratio (A)	0.5297
Ratio1 Limit	0.4300 - 0.5900
Specified Amount	100.00
Calculated Amount (A)	76.77
Percent Recovery (A)	77
TEQ (A)	0.0000
Label2	

Entry: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

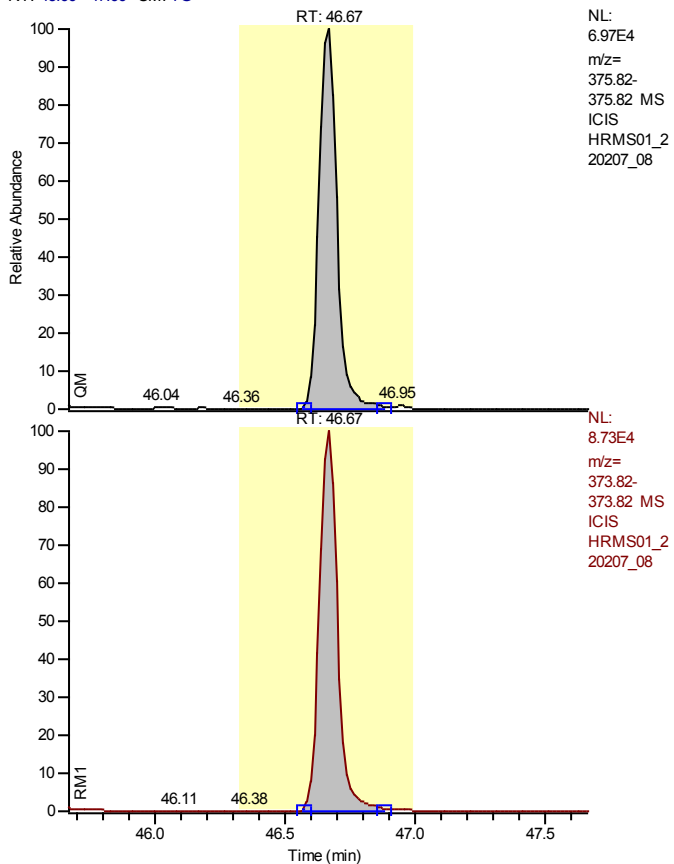
Linear Fit: StdDev = 0.048 RSD = 4.232 CF = 0.000000



Chromatogram

Entry Parameters

RT: 45.66 - 47.66 SM: 7G



NL:
 6.97E4
 m/z=
 375.82-
 375.82 MS
 ICIS
 HRMS01_2
 20207_08

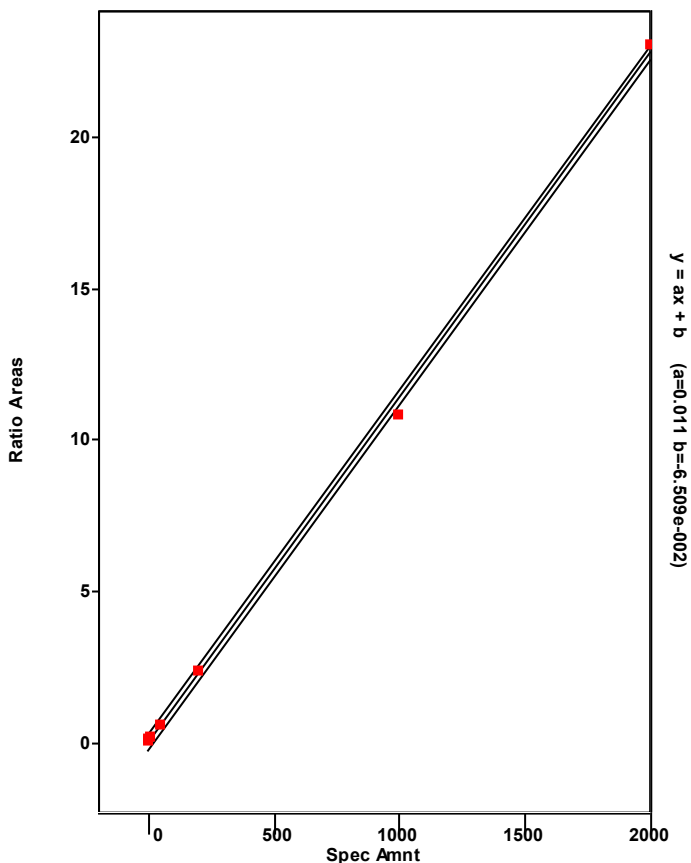
NL:
 8.73E4
 m/z=
 373.82-
 373.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzofuran
Compound Name	123789-HxCDF
Label1	CAS# 72918-21-9
QM Area	335923
RM1 Area	421913
RM1 Ratio (A)	1.2560
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.94
Percent Recovery (A)	110
TEQ (A)	5.4939
Label2	

Entry: 1,2,3,7,8,9-Hexachlorodibenzofuran IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzofuran

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzofuran

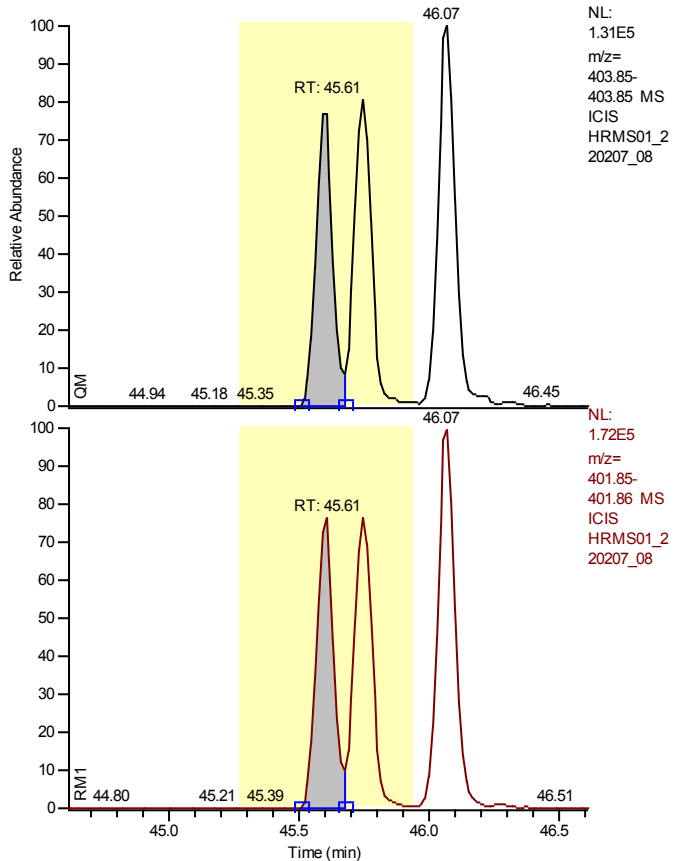
Linear Fit: StdDev = 0.255 RSD = 4.868 CF = 0.999144



Chromatogram

Entry Parameters

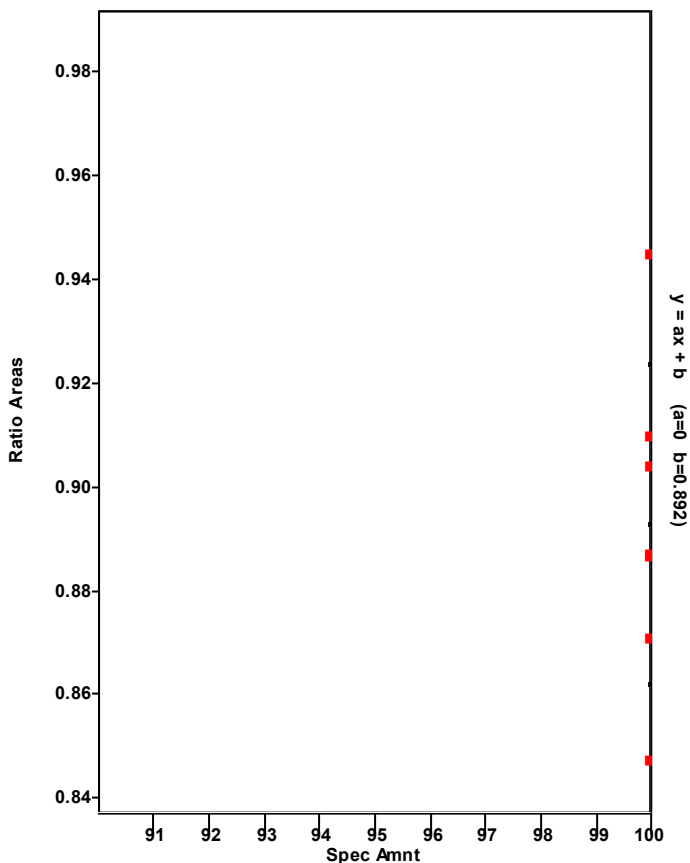
RT: 44.61 - 46.61 SM: 7G



Entry Identifier	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD 13C12 STD
Label1	
QM Area	454097
RM1 Area	603086
RM1 Ratio (A)	1.3281
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	84.59
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	

Calibration Points of 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

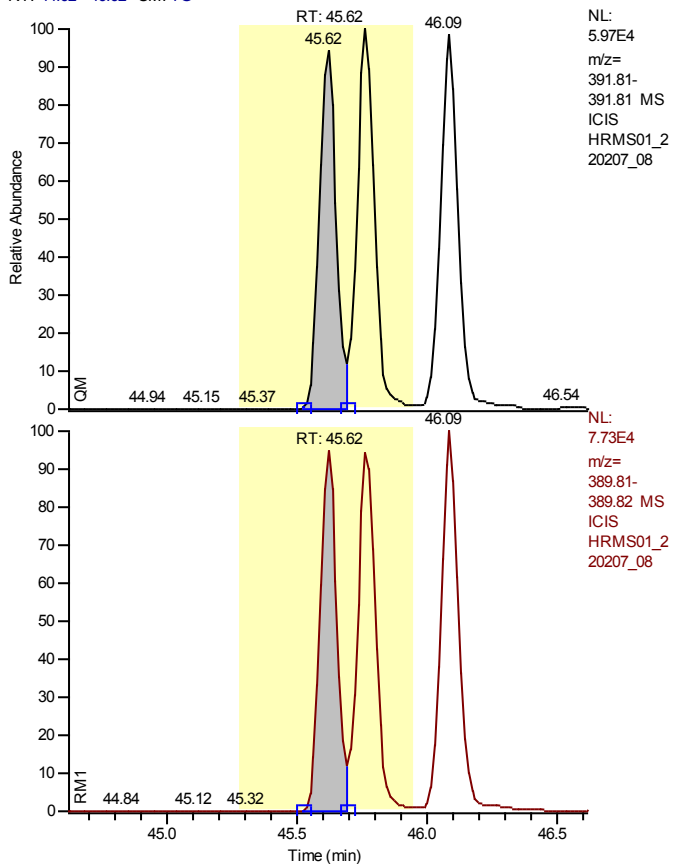
Linear Fit: StdDev = 0.031 RSD = 3.471 CF = 0.000000



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G

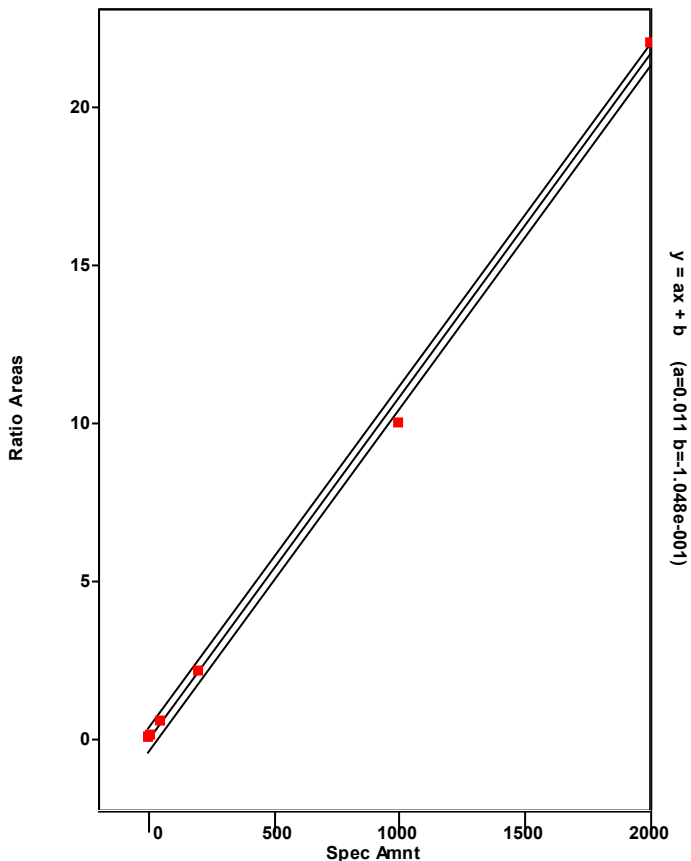


Entry Identifier	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123478-HxCDD
Label1	CAS# 39227-28-6
QM Area	252144
RM1 Area	327264
RM1 Ratio (A)	1.2979
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	52.60
Percent Recovery (A)	105
TEQ (A)	5.2599
Label2	

Entry: 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

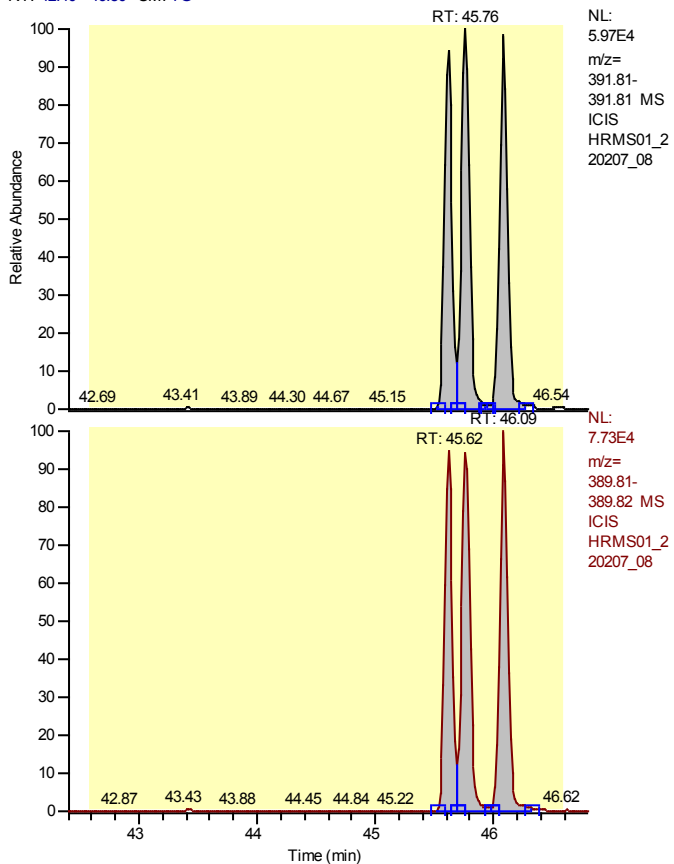
Linear Fit: StdDev = 0.361 RSD = 7.289 CF = 0.998116



Chromatogram

Entry Parameters

RT: 42.40 - 46.80 SM: 7G

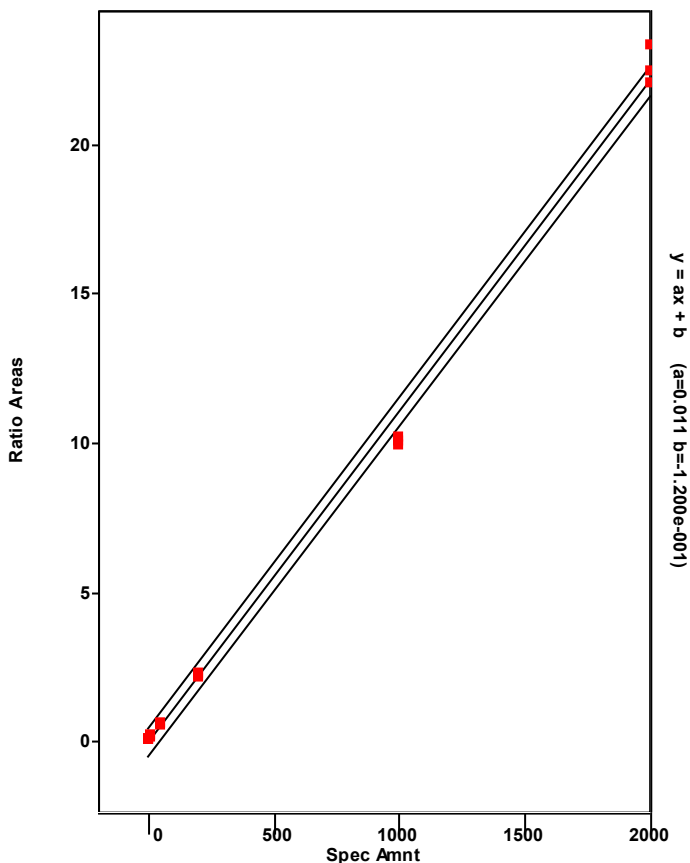


Entry Identifier	Total Hexachlorodibenzo-p-dioxin
Compound Name	Total native HxCDD
Label1	CAS# 34465-46-8
QM Area	810360
RM1 Area	1045192
RM1 Ratio (A)	1.2898
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	161.22
Percent Recovery (A)	322
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin

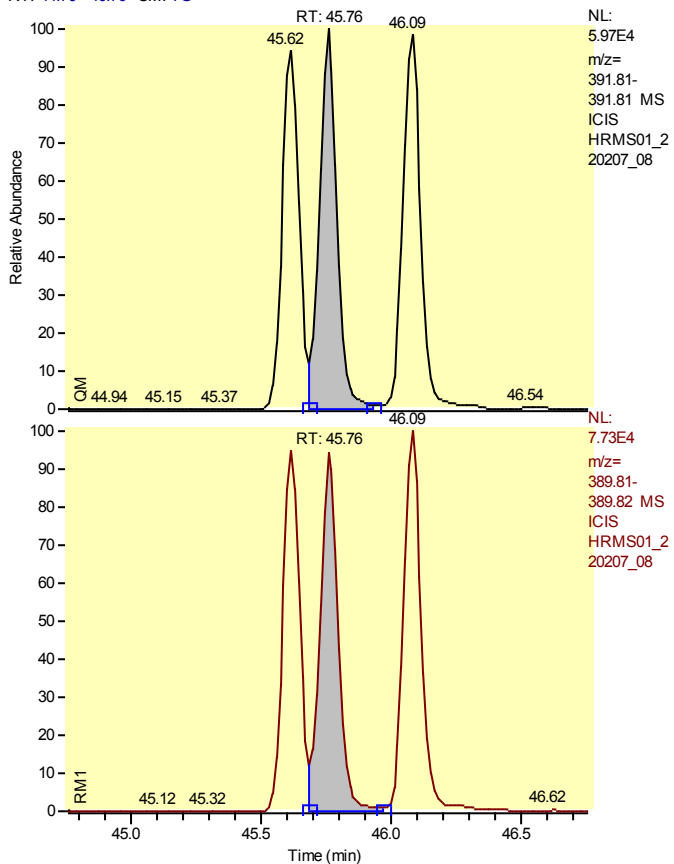
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.76 - 46.76 SM: 7G

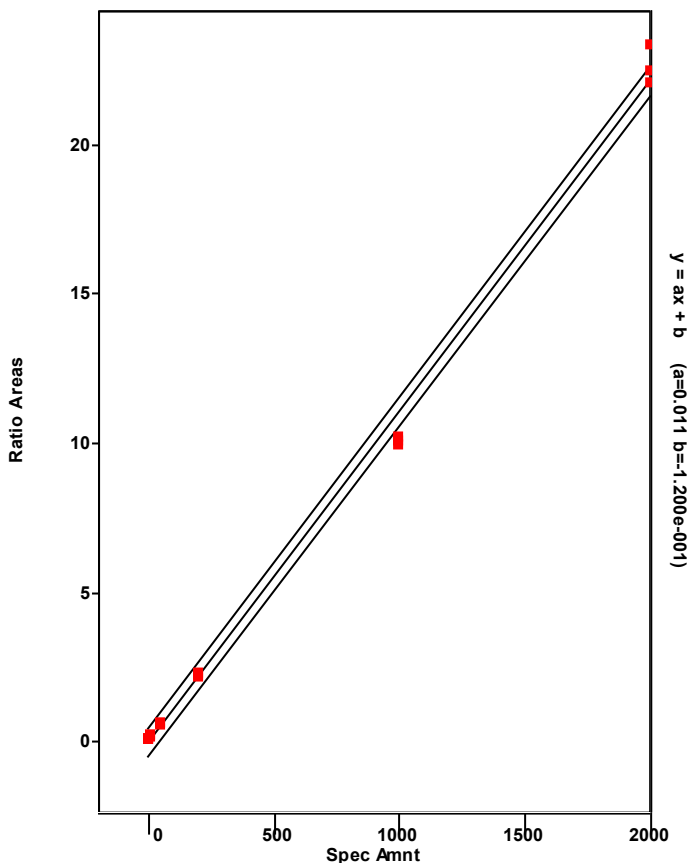


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__1
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	277918
RM1 Area	352374
RM1 Ratio (A)	1.2679
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.76
Percent Recovery (A)	110
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__1

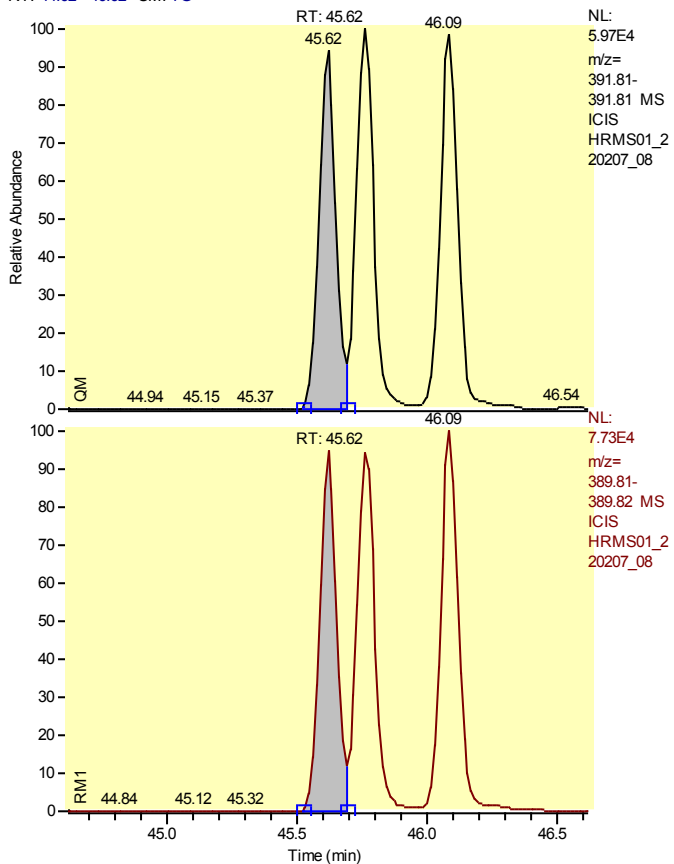
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

RT: 44.62 - 46.62 SM: 7G

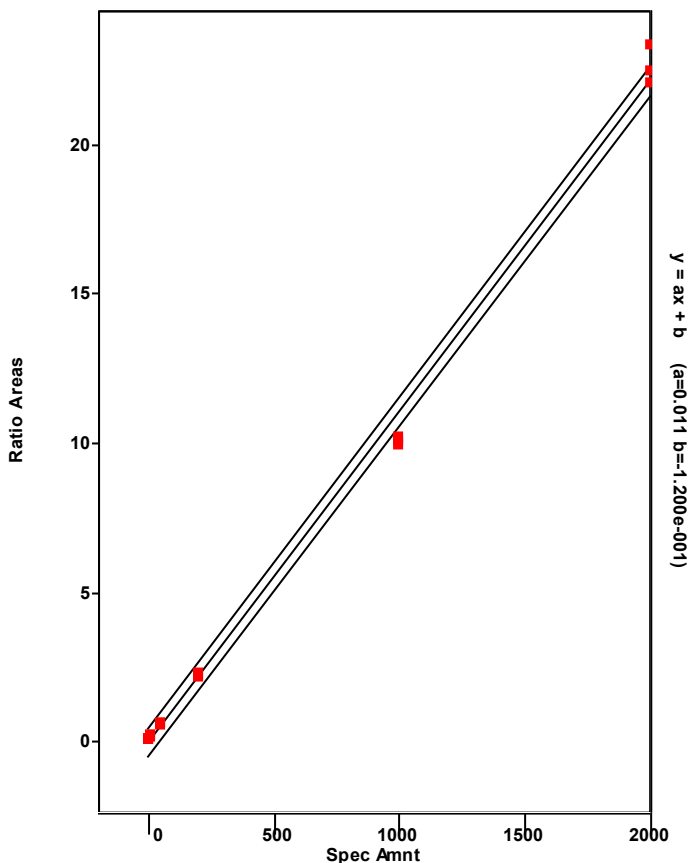


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__2
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	252144
RM1 Area	327264
RM1 Ratio (A)	1.2979
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	50.34
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__2 IS: 13C-12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

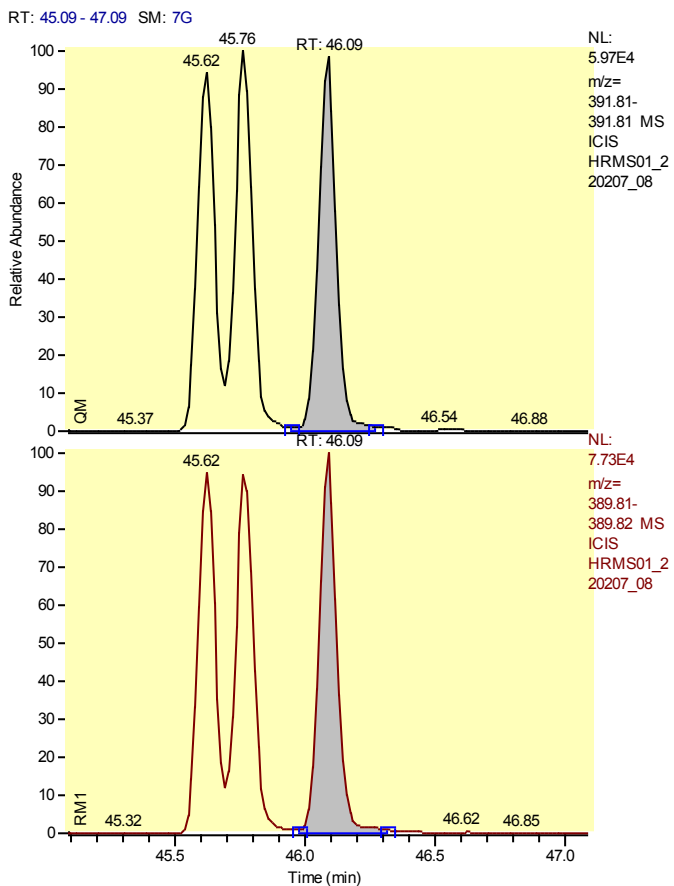
Calibration Points of Total Hexachlorodibenzo-p-dioxin__2

Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



Chromatogram

Entry Parameters

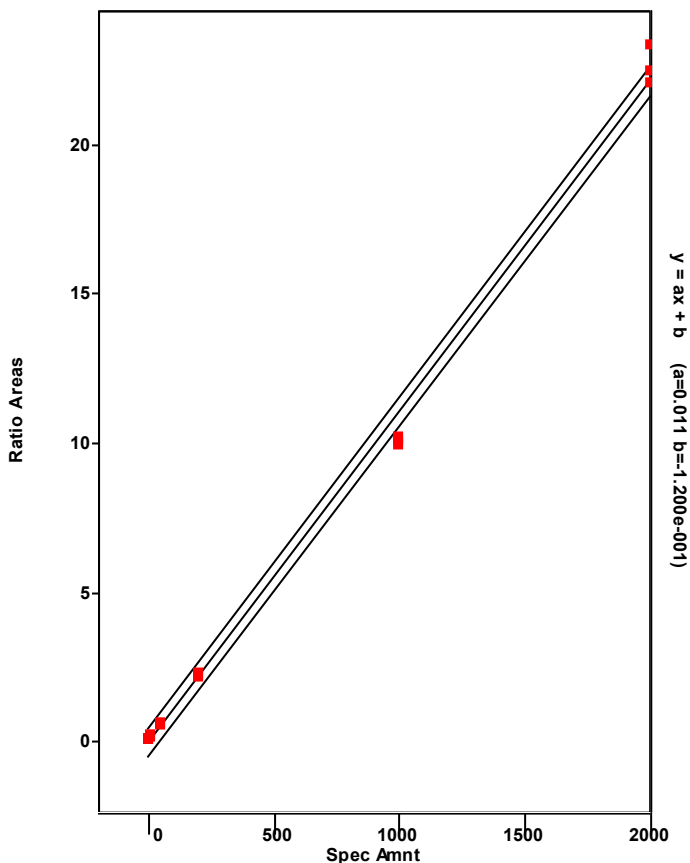


Entry Identifier	Total Hexachlorodibenzo-p-dioxin__3
Compound Name	Single native HxCDD
Label1	CAS# 34465-46-8
QM Area	280298
RM1 Area	365554
RM1 Ratio (A)	1.3042
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	56.11
Percent Recovery (A)	112
TEQ (A)	0.0000
Label2	

Entry: Total Hexachlorodibenzo-p-dioxin__3 IS: 13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of Total Hexachlorodibenzo-p-dioxin__3

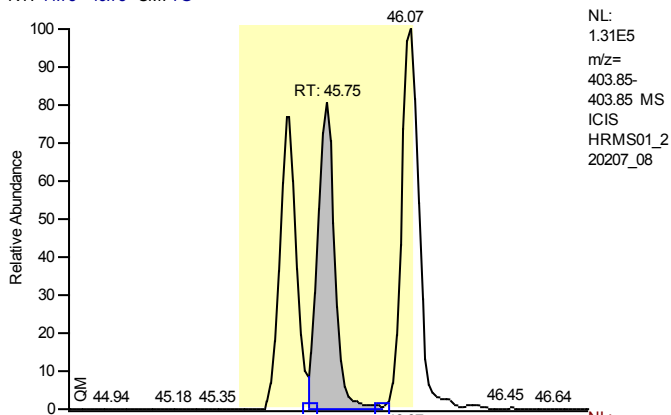
Linear Fit: StdDev = 0.487 RSD = 9.633 CF = 0.996368



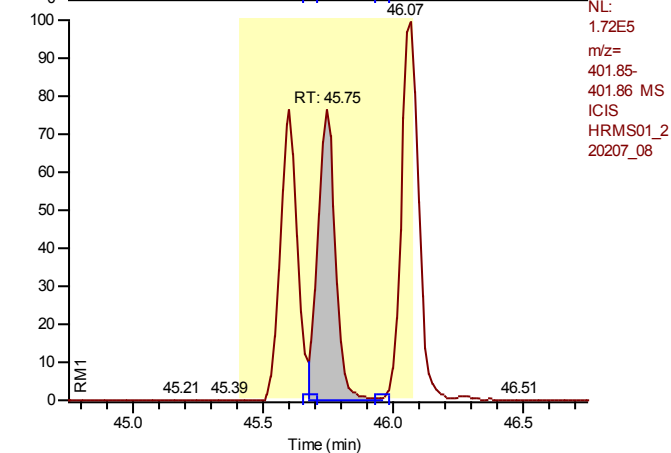
Chromatogram

Entry Parameters

RT: 44.75 - 46.75 SM: 7G

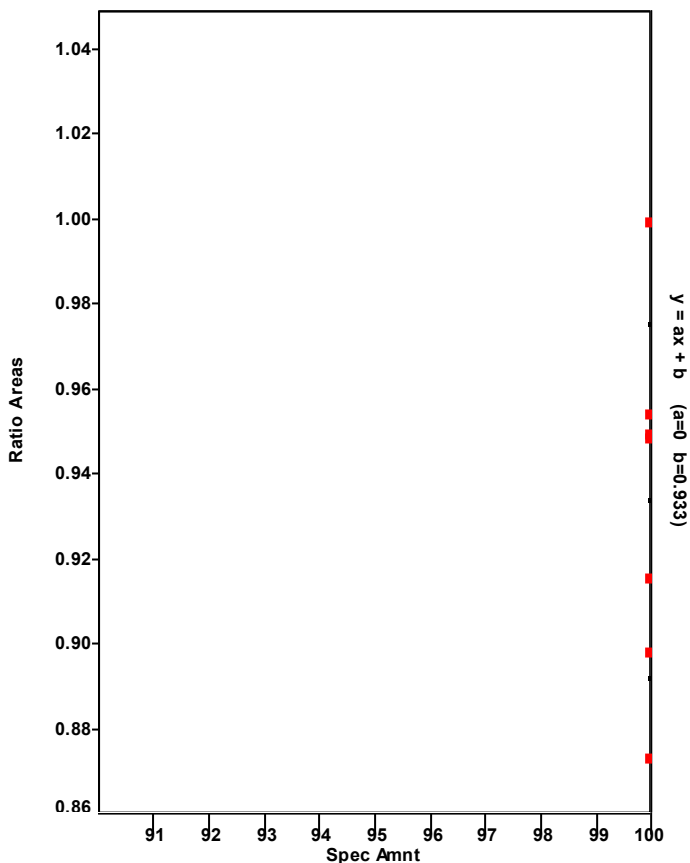


Entry Identifier	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD 13C12 STD
Label1	
QM Area	484930
RM1 Area	627658
RM1 Ratio (A)	1.2943
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	100.00
Calculated Amount (A)	85.12
Percent Recovery (A)	85
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

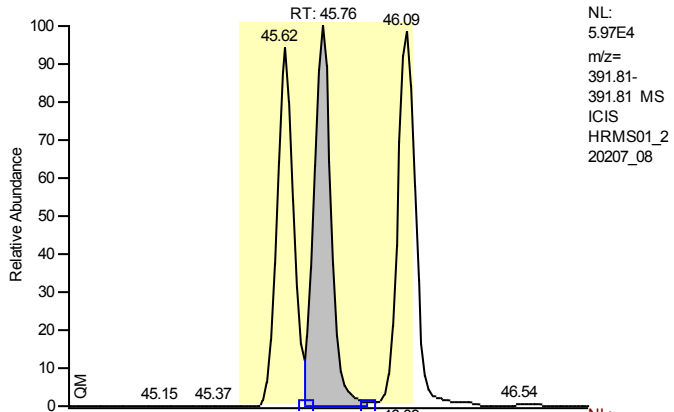
Linear Fit: StdDev = 0.042 RSD = 4.466 CF = 0.000000



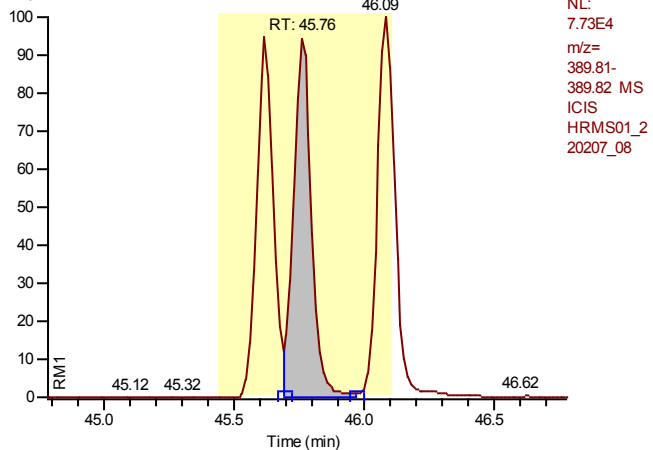
Chromatogram

Entry Parameters

RT: 44.78 - 46.78 SM: 7G



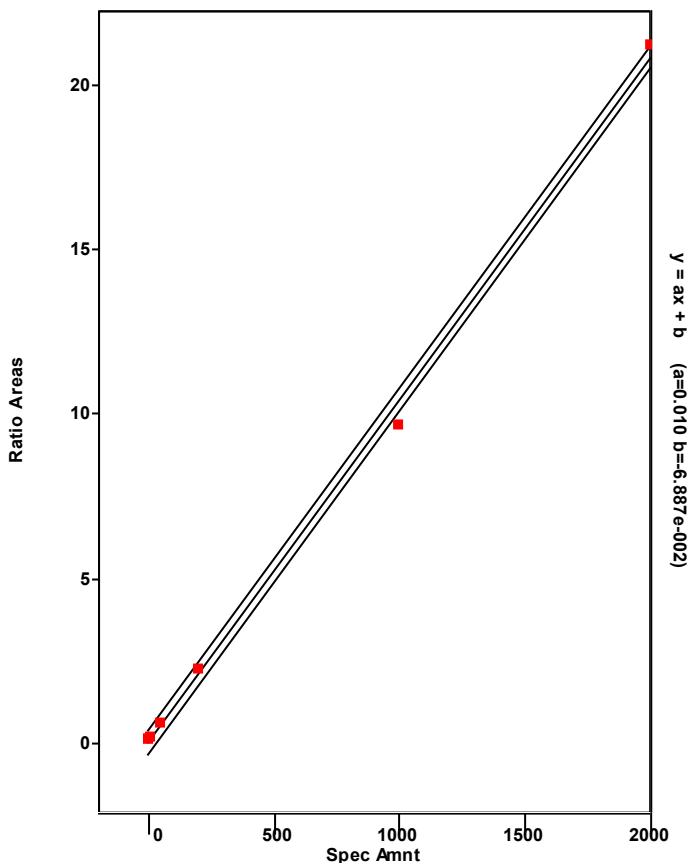
Entry Identifier	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Compound Name	123678-HxCDD
Label1	CAS# 57653-85-7
QM Area	277918
RM1 Area	352374
RM1 Ratio (A)	1.2679
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	53.33
Percent Recovery (A)	107
TEQ (A)	5.3330
Label2	



Entry: 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

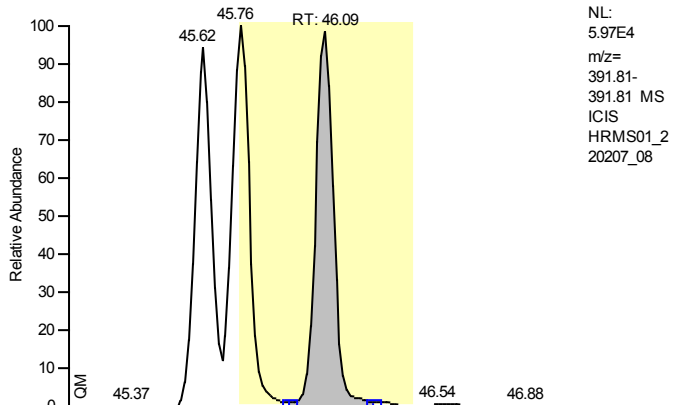
Linear Fit: StdDev = 0.360 RSD = 7.511 CF = 0.997973



Chromatogram

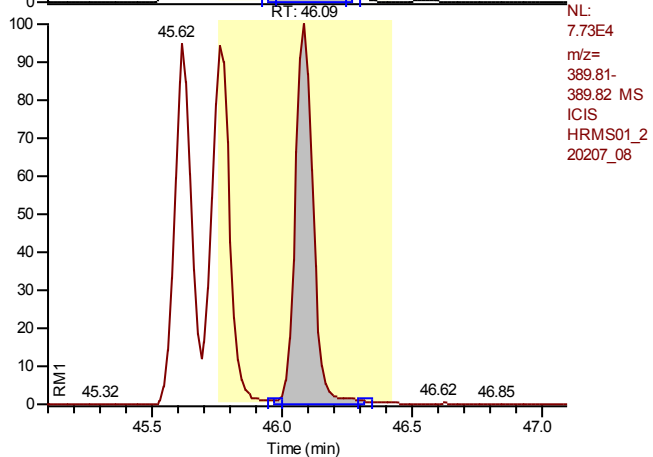
Entry Parameters

RT: 45.10 - 47.10 SM: 7G



NL:
 5.97E4
 m/z=
 391.81-
 391.81 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Compound Name	123789-HxCDD
Label1	CAS# 19408-74-3
QM Area	280298
RM1 Area	365554
RM1 Ratio (A)	1.3042
Ratio1 Limit	1.0500 - 1.4300
Specified Amount	50.00
Calculated Amount (A)	54.56
Percent Recovery (A)	109
TEQ (A)	5.4560
Label2	

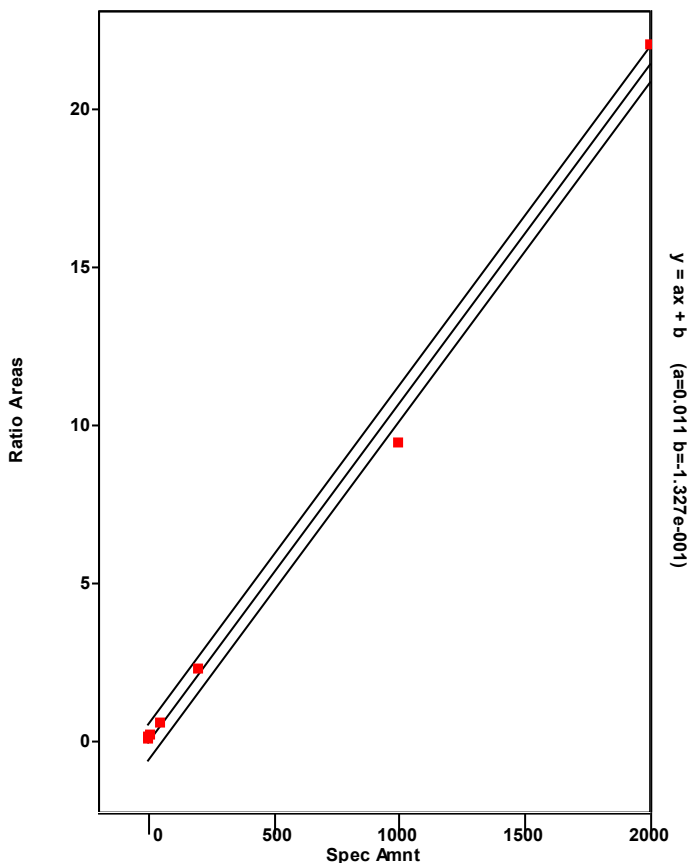


NL:
 7.73E4
 m/z=
 389.81-
 389.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin IS: 13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

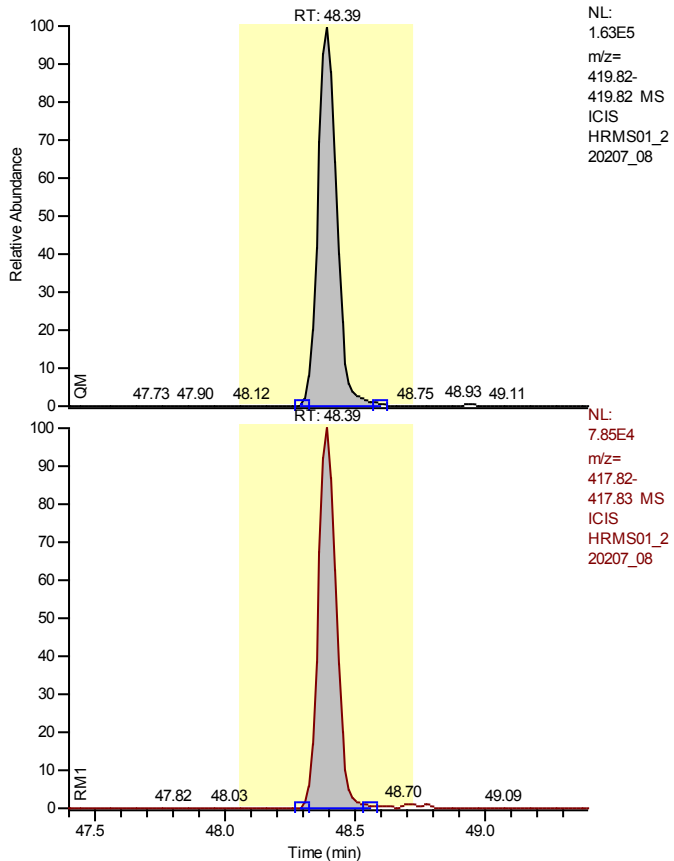
Linear Fit: StdDev = 0.592 RSD = 12.143 CF = 0.994850



Chromatogram

Entry Parameters

RT: 47.39 - 49.39 SM: 7G



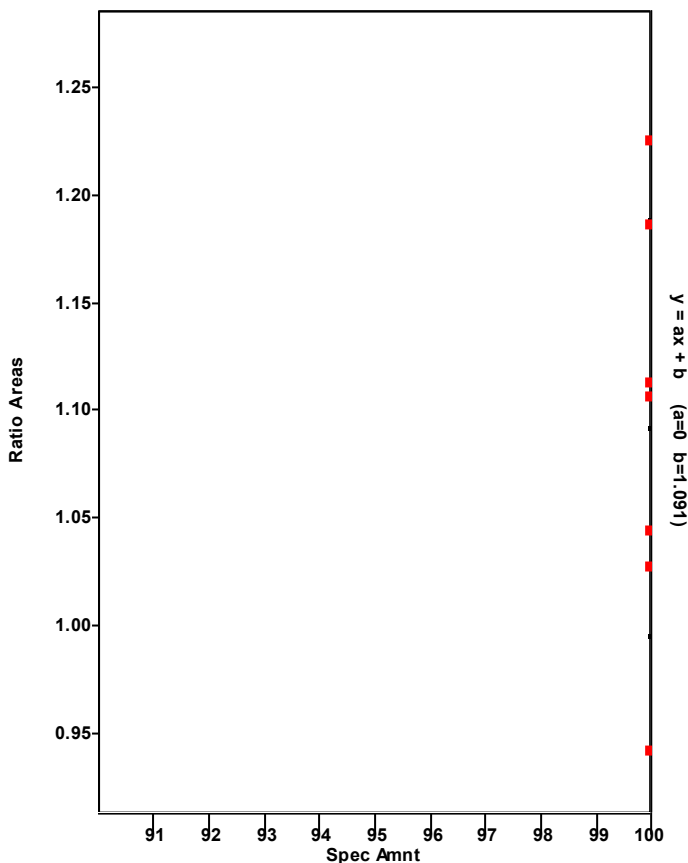
NL:
 1.63E5
 m/z=
 419.82-
 419.82 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF 13C12 STD
Label1	
QM Area	815985
RM1 Area	373698
RM1 Ratio (A)	0.4580
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	77.89
Percent Recovery (A)	78
TEQ (A)	0.0000
Label2	

NL:
 7.85E4
 m/z=
 417.82-
 417.83 MS
 ICIS
 HRMS01_2
 20207_08

Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

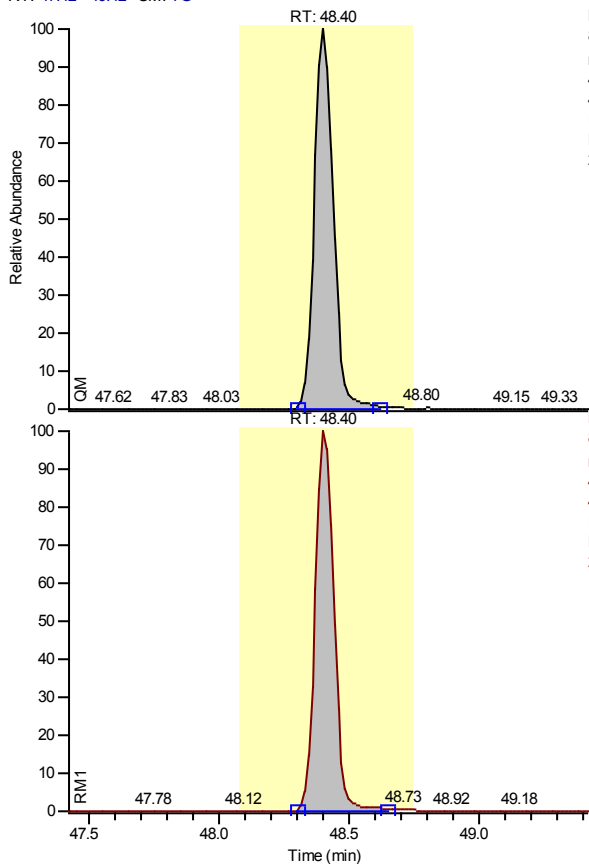
Linear Fit: StdDev = 0.097 RSD = 8.890 CF = 0.000000



Chromatogram

Entry Parameters

RT: 47.42 - 49.42 SM: 7G



NL:
 8.05E4
 m/z=
 409.78-
 409.78 MS
 ICIS
 HRMS01_2
 20207_08

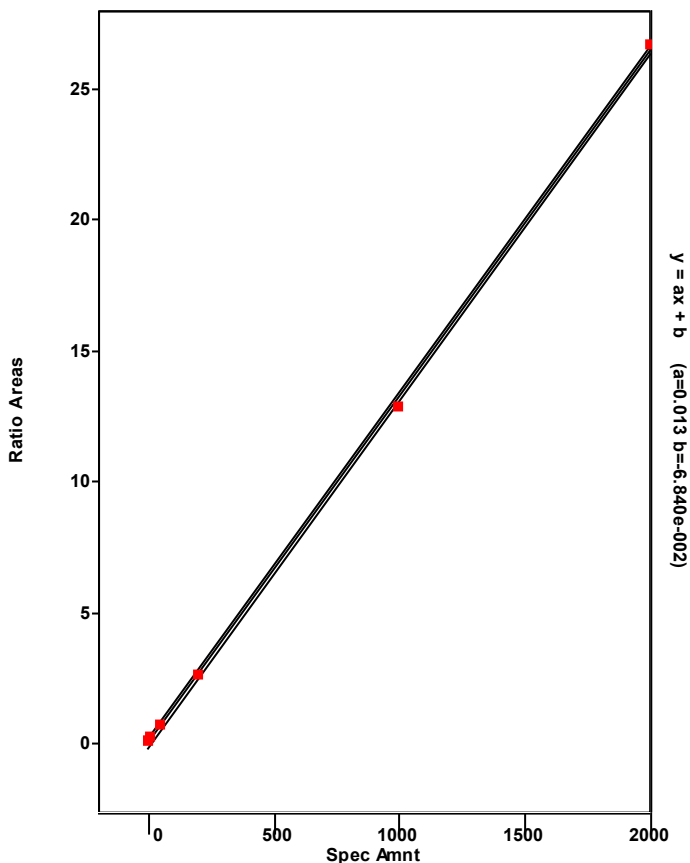
Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzofuran
Compound Name	1234678-HpCDF
Label1	CAS# 67562-39-4
QM Area	408355
RM1 Area	434912
RM1 Ratio (A)	1.0650
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.11
Percent Recovery (A)	110
TEQ (A)	0.5511
Label2	

NL:
 8.73E4
 m/z=
 407.78-
 407.78 MS
 ICIS
 HRMS01_2
 20207_08

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzofuran

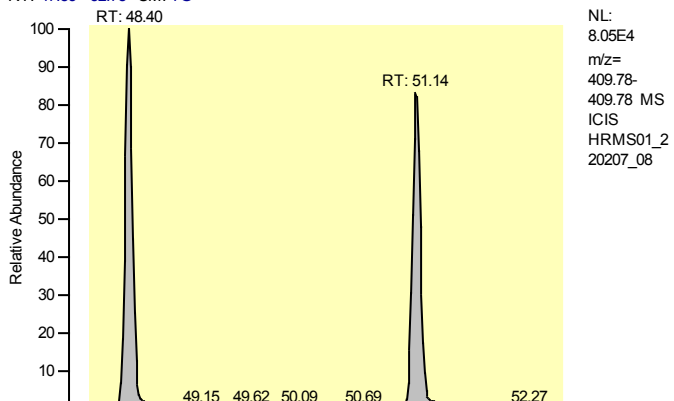
Linear Fit: StdDev = 0.186 RSD = 3.039 CF = 0.999665



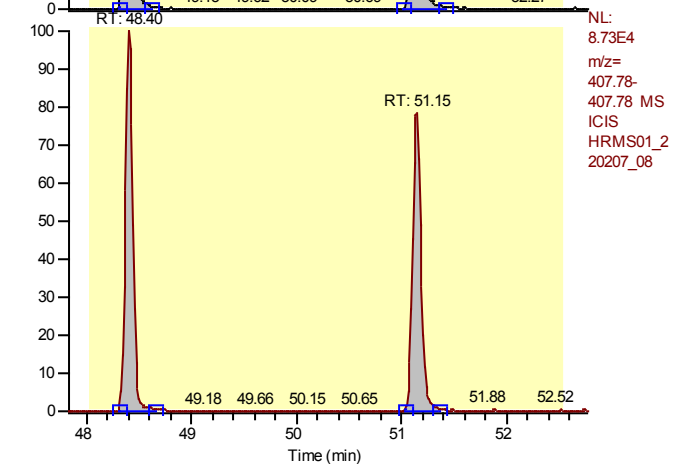
Chromatogram

Entry Parameters

RT: 47.83 - 52.78 SM: 7G



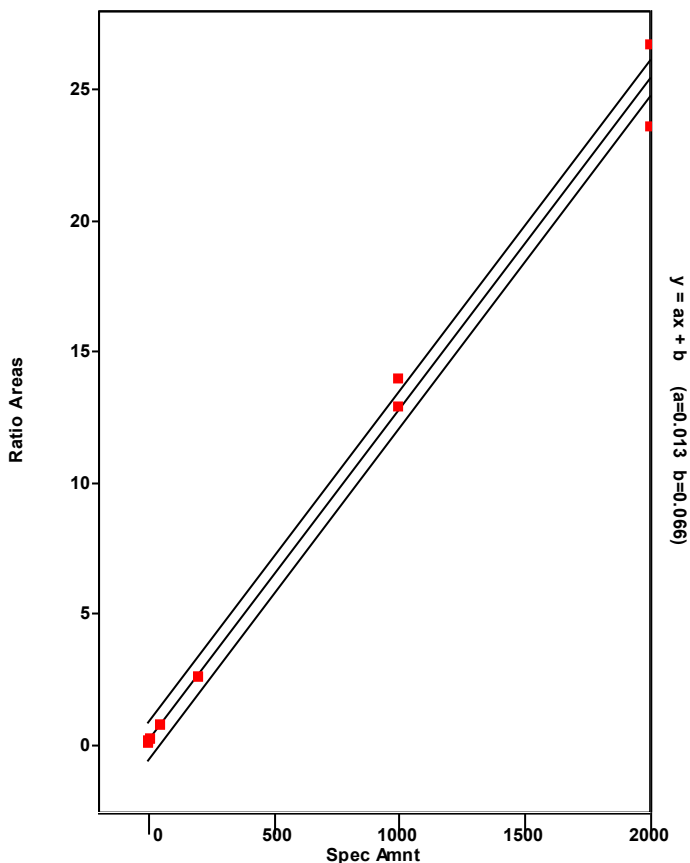
Entry Identifier	Total Heptachlorodibenzofuran
Compound Name	Total native HpCDF
Label1	CAS# 38998-75-3
QM Area	781629
RM1 Area	821574
RM1 Ratio (A)	1.0511
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	107.69
Percent Recovery (A)	215
TEQ (A)	0.0000
Label2	



Entry: Total Heptachlorodibenzofuran IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran

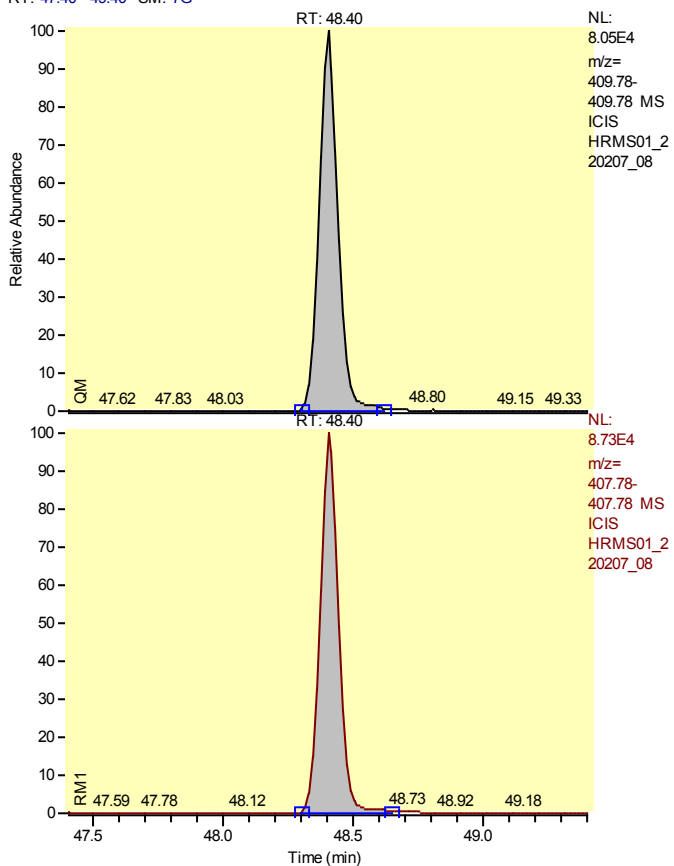
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 47.40 - 49.40 SM: 7G

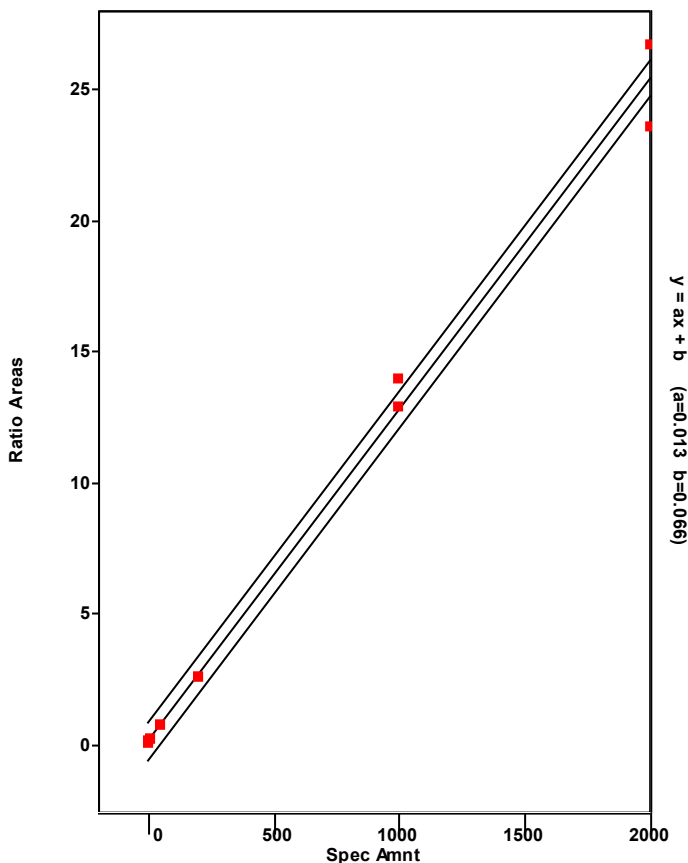


Entry Identifier	Total Heptachlorodibenzofuran__1
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	408355
RM1 Area	434912
RM1 Ratio (A)	1.0650
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	56.64
Percent Recovery (A)	113
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__1

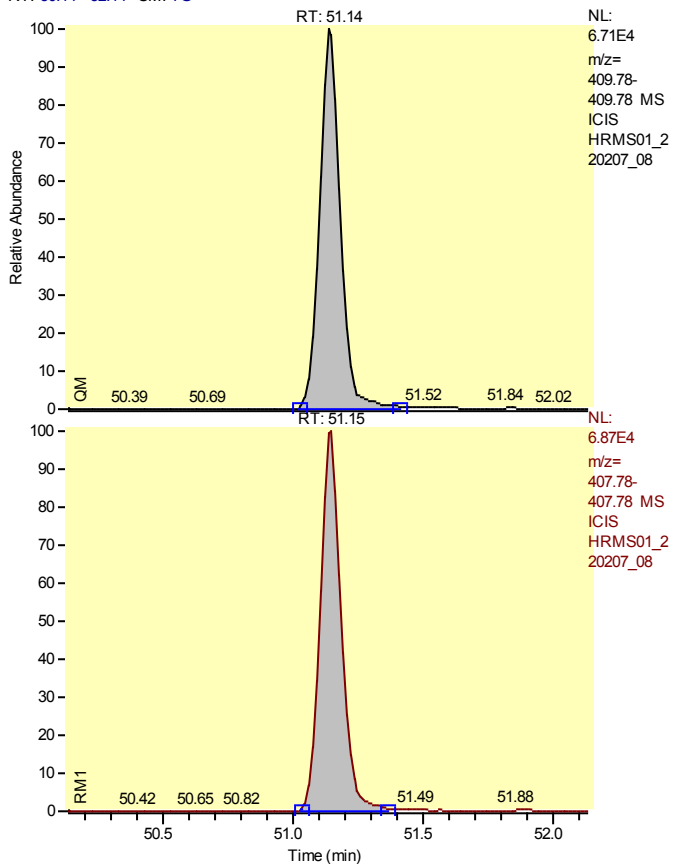
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



Chromatogram

Entry Parameters

RT: 50.14 - 52.14 SM: 7G

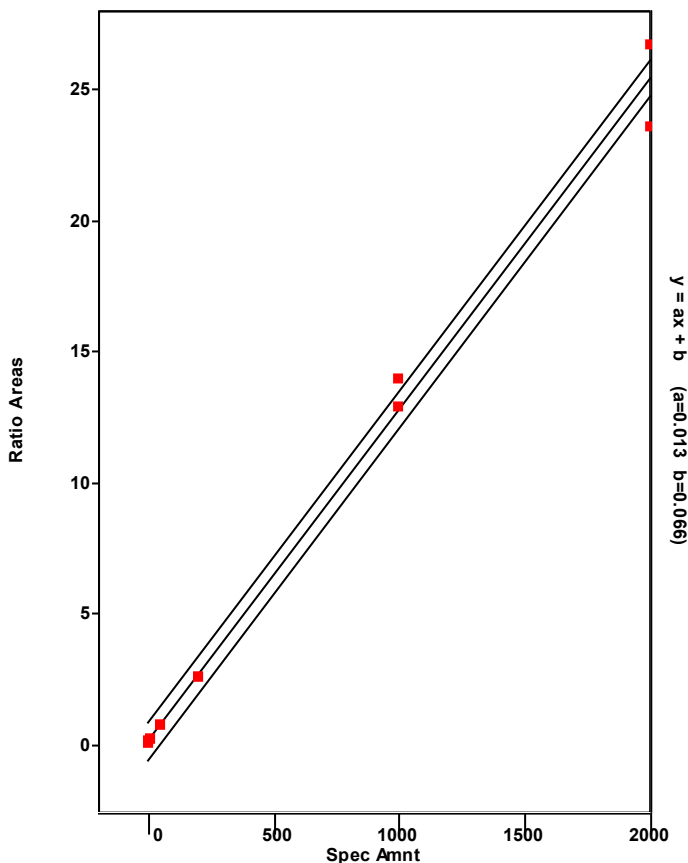


Entry Identifier	Total Heptachlorodibenzofuran__2
Compound Name	Single native HpCDF
Label1	CAS# 38998-75-3
QM Area	373273
RM1 Area	386662
RM1 Ratio (A)	1.0359
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	51.05
Percent Recovery (A)	102
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzofuran__2 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzofuran

Calibration Points of Total Heptachlorodibenzofuran__2

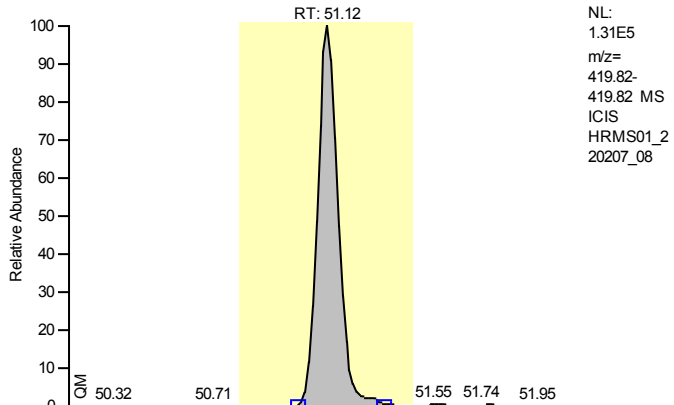
Linear Fit: StdDev = 0.716 RSD = 12.016 CF = 0.994110



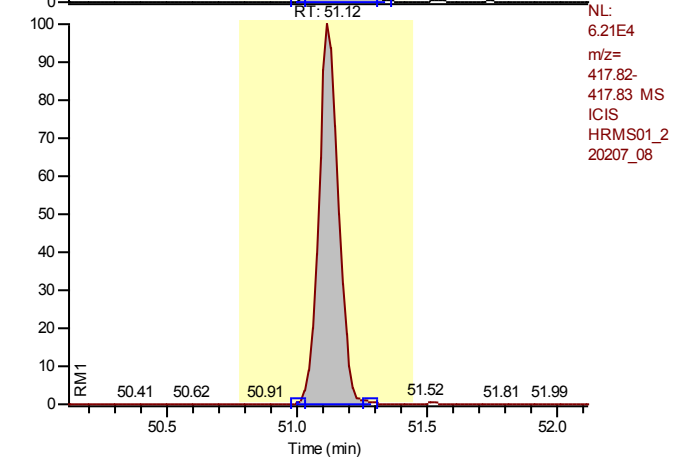
Chromatogram

Entry Parameters

RT: 50.12- 52.12 SM: 7G

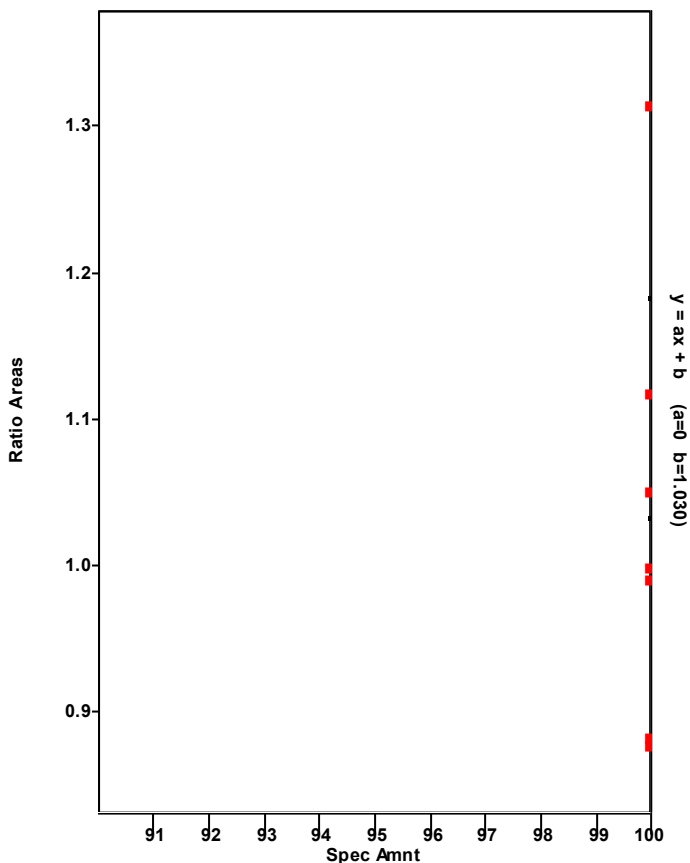


Entry Identifier	13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF 13C12 STD
Label1	
QM Area	729875
RM1 Area	328024
RM1 Ratio (A)	0.4494
Ratio1 Limit	0.3700 - 0.5100
Specified Amount	100.00
Calculated Amount (A)	73.32
Percent Recovery (A)	73
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

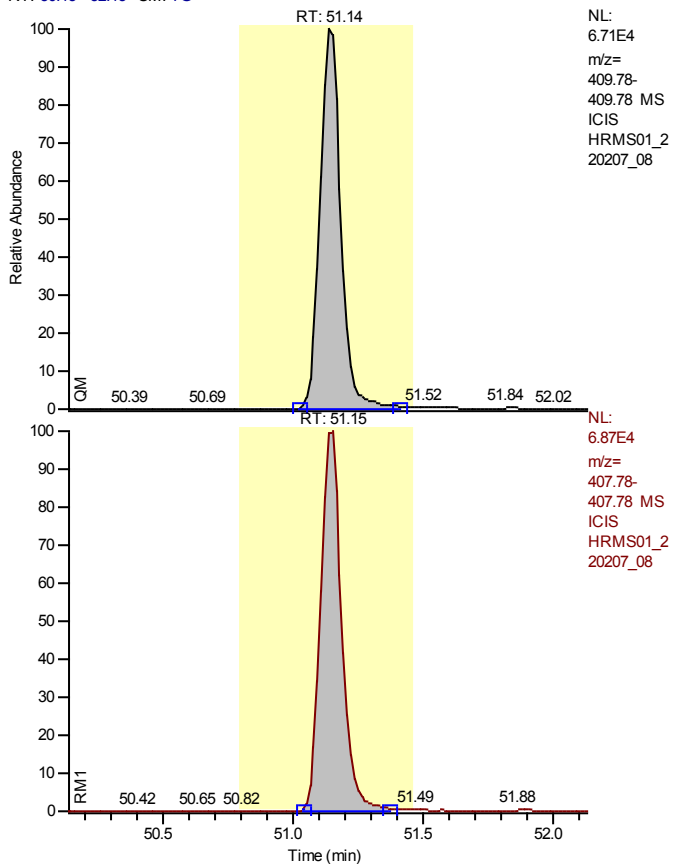
Linear Fit: StdDev = 0.151 RSD = 14.680 CF = 0.000000



Chromatogram

Entry Parameters

RT: 50.13 - 52.13 SM: 7G

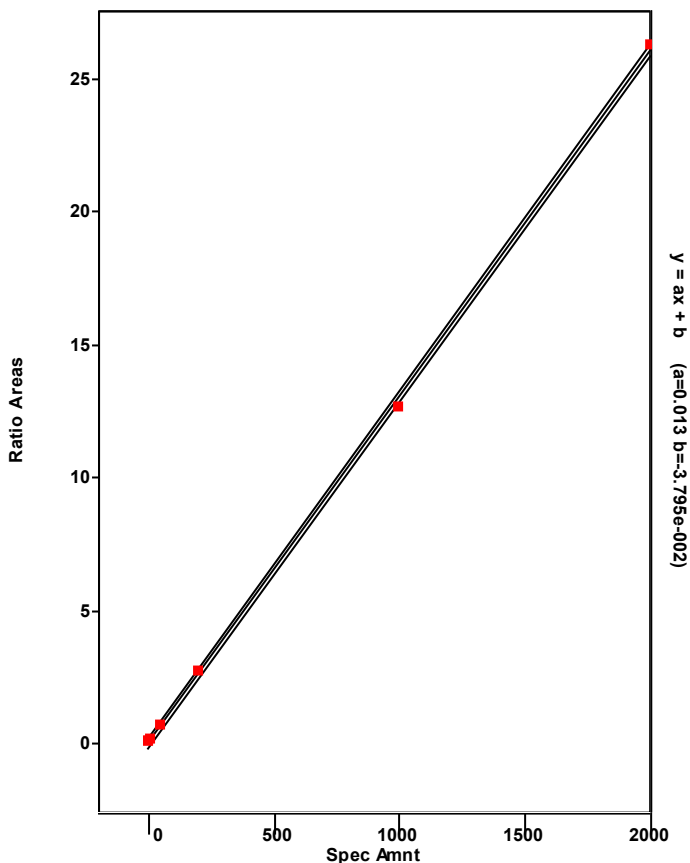


Entry Identifier	1,2,3,4,7,8,9-Heptachlorodibenzofuran
Compound Name	1234789-HpCDF
Label1	CAS# 55673-89-7
QM Area	373273
RM1 Area	386662
RM1 Ratio (A)	1.0359
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	55.68
Percent Recovery (A)	111
TEQ (A)	0.5568
Label2	

Entry: 1,2,3,4,7,8,9-Heptachlorodibenzofuran IS: 13C12-1,2,3,4,7,8,9-Heptachlorodibenzofuran

Calibration Points of 1,2,3,4,7,8,9-Heptachlorodibenzofuran

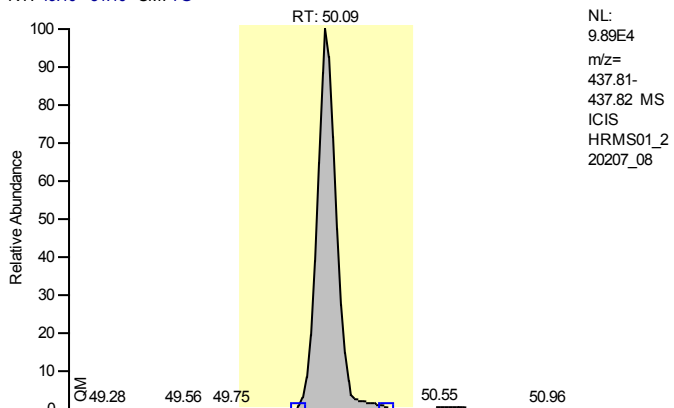
Linear Fit: StdDev = 0.196 RSD = 3.247 CF = 0.999614



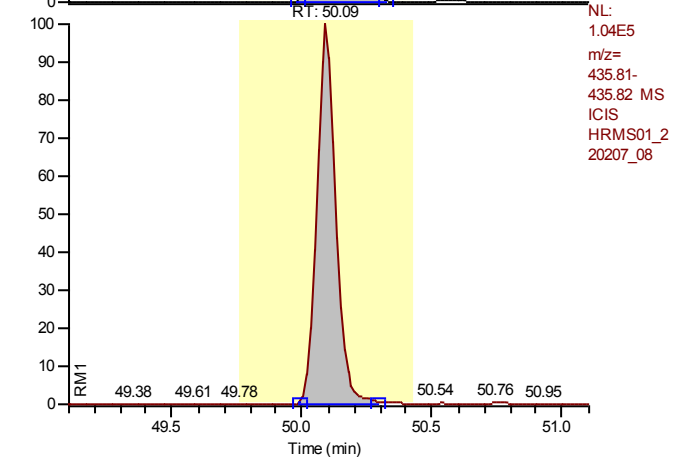
Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

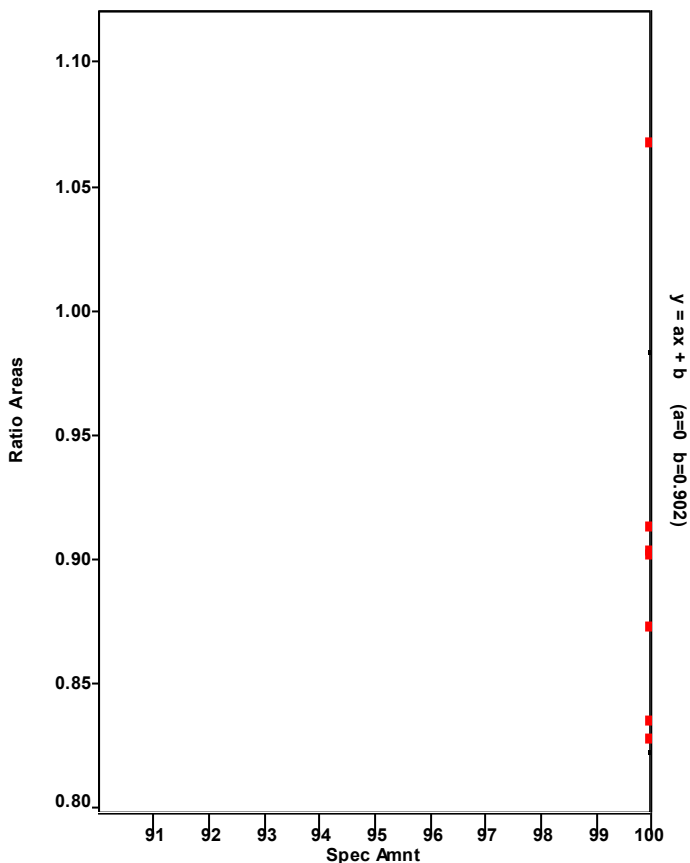


Entry Identifier	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD 13C12 STD
Label1	
QM Area	515971
RM1 Area	534068
RM1 Ratio (A)	1.0351
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	100.00
Calculated Amount (A)	83.14
Percent Recovery (A)	83
TEQ (A)	0.0000
Label2	



Calibration Points of 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

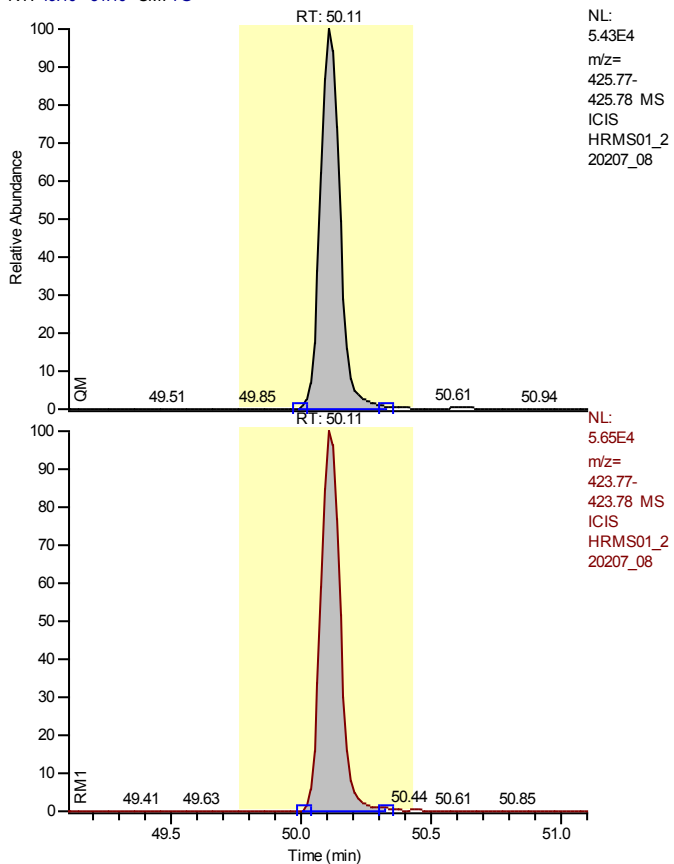
Linear Fit: StdDev = 0.080 RSD = 8.895 CF = 0.000000



Chromatogram

Entry Parameters

RT: 49.10 - 51.10 SM: 7G

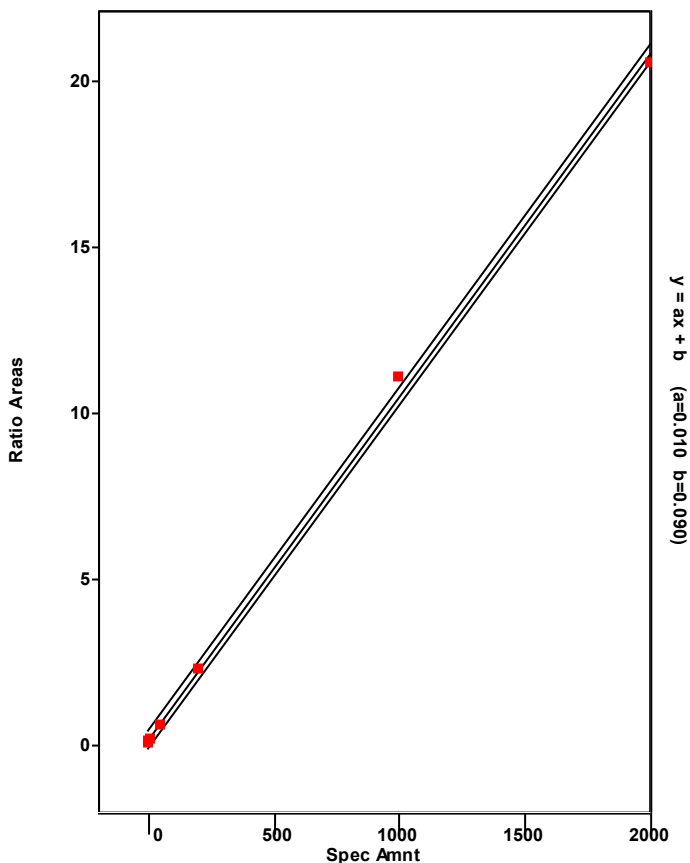


Entry Identifier	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Compound Name	1234678-HpCDD
Label1	CAS# 35822-46-9
QM Area	281310
RM1 Area	289466
RM1 Ratio (A)	1.0290
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.37
Percent Recovery (A)	101
TEQ (A)	0.5037
Label2	

Entry: 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

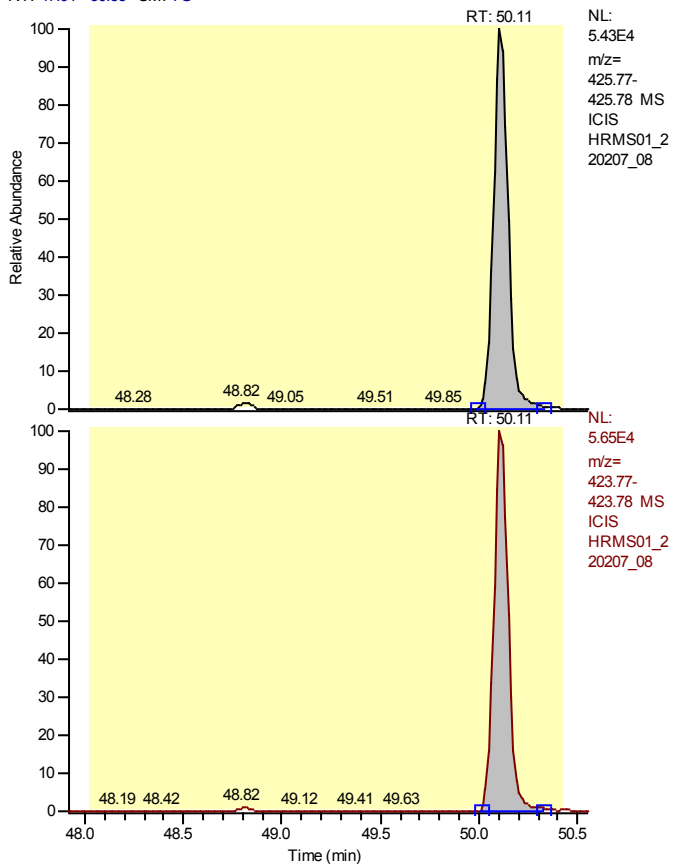
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 47.91 - 50.55 SM: 7G

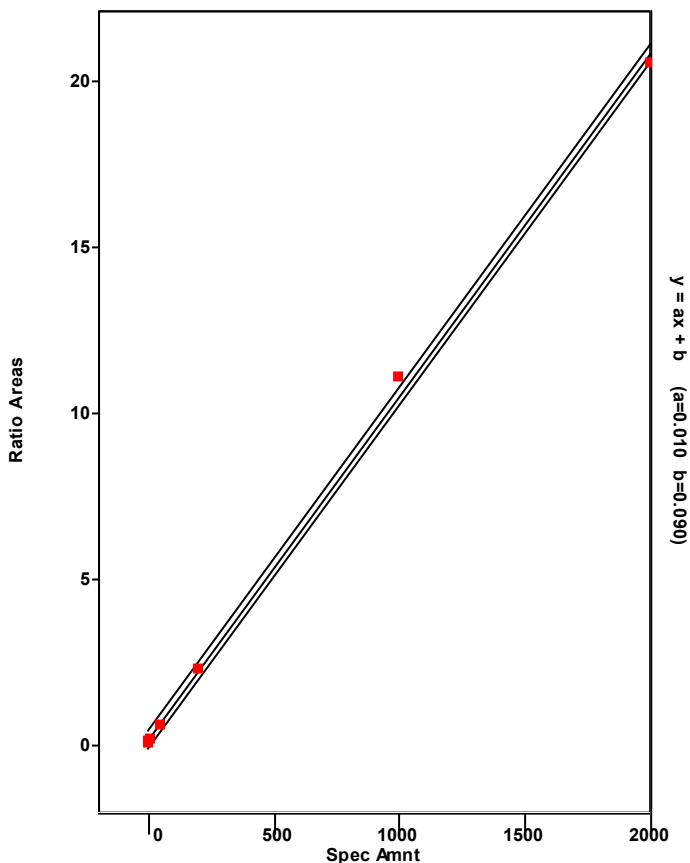


Entry Identifier	Total Heptachlorodibenzo-p-dioxin
Compound Name	Total native HpCDD
Label1	CAS# 37871-00-4
QM Area	281310
RM1 Area	289466
RM1 Ratio (A)	1.0290
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.37
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin IS: 13C-12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin

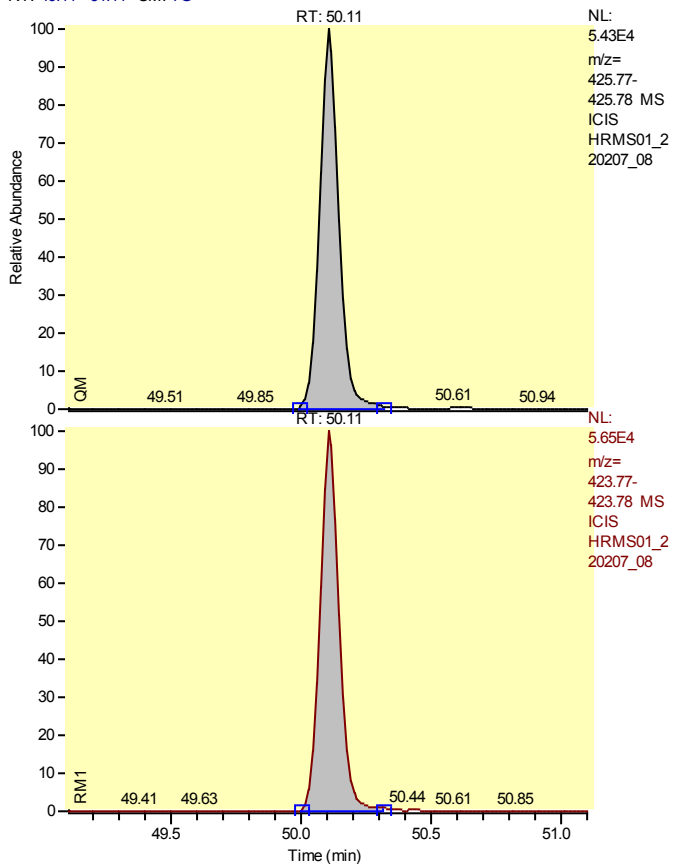
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



Chromatogram

Entry Parameters

RT: 49.11-51.11 SM: 7G

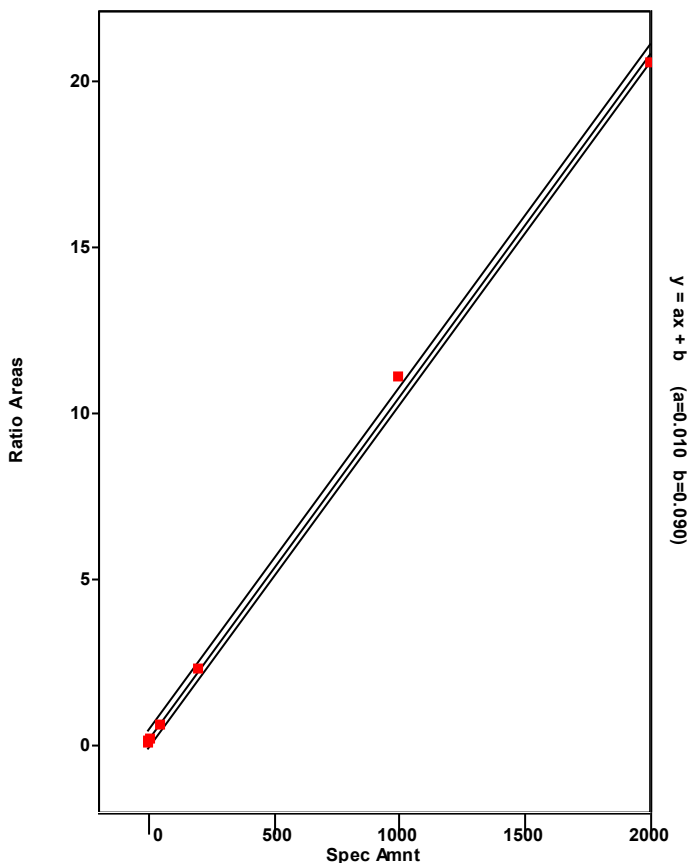


Entry Identifier	Total Heptachlorodibenzo-p-dioxin__1
Compound Name	Single native HpCDD
Label1	CAS# 37871-00-4
QM Area	281310
RM1 Area	289466
RM1 Ratio (A)	1.0290
Ratio1 Limit	0.8800 - 1.2000
Specified Amount	50.00
Calculated Amount (A)	50.37
Percent Recovery (A)	101
TEQ (A)	0.0000
Label2	

Entry: Total Heptachlorodibenzo-p-dioxin__1 IS: 13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin

Calibration Points of Total Heptachlorodibenzo-p-dioxin__1

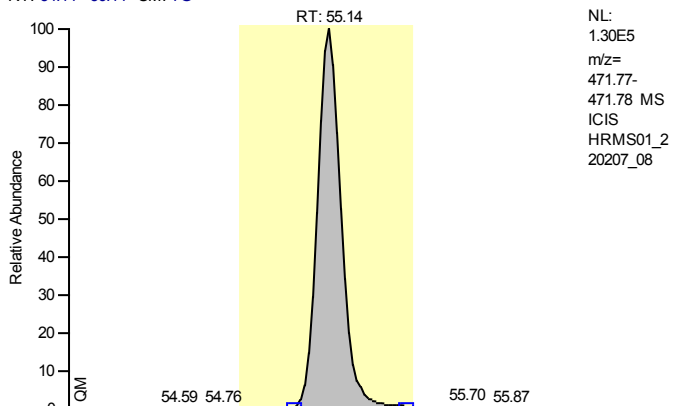
Linear Fit: StdDev = 0.271 RSD = 5.534 CF = 0.998824



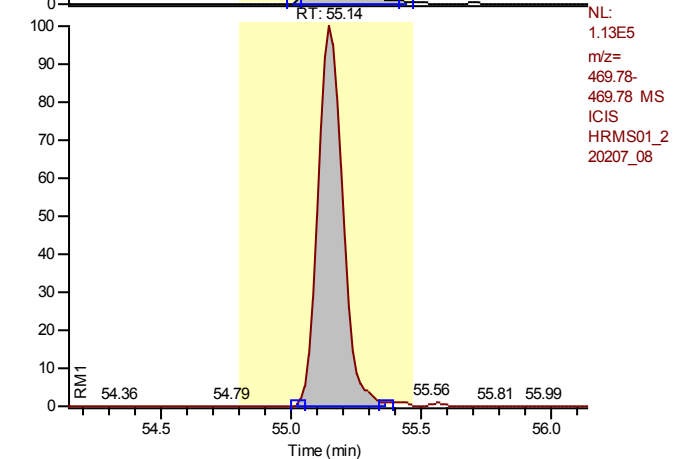
Chromatogram

Entry Parameters

RT: 54.14 - 56.14 SM: 7G



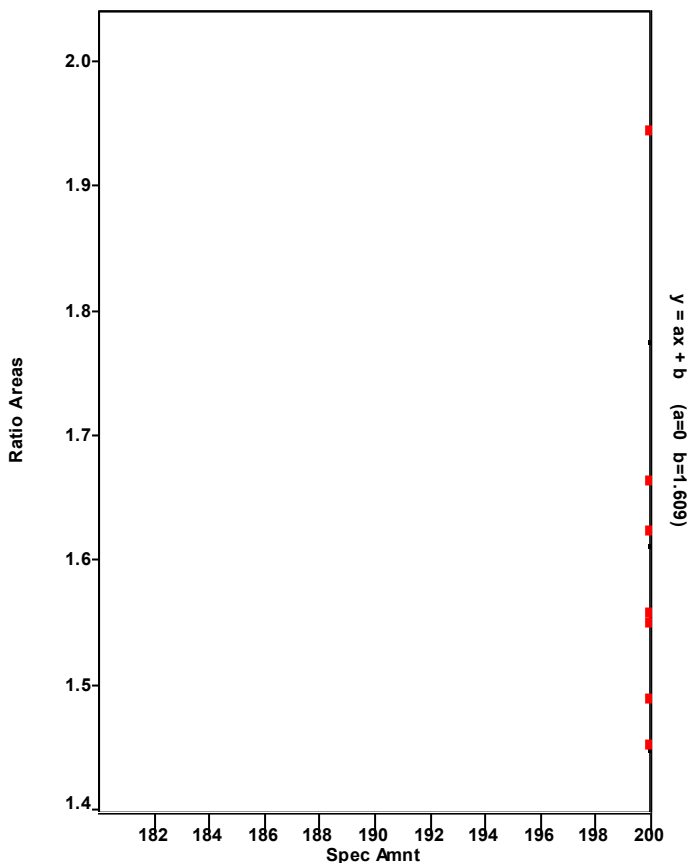
Entry Identifier	13C12-Octachlorodibenzo-p-dioxin
Compound Name	OCDD 13C12 STD
Label1	
QM Area	833339
RM1 Area	752993
RM1 Ratio (A)	0.9036
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	200.00
Calculated Amount (A)	140.76
Percent Recovery (A)	70
TEQ (A)	0.0000
Label2	



Entry: 13C12-Octachlorodibenzo-p-dioxin IS: 13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin

Calibration Points of 13C12-Octachlorodibenzo-p-dioxin

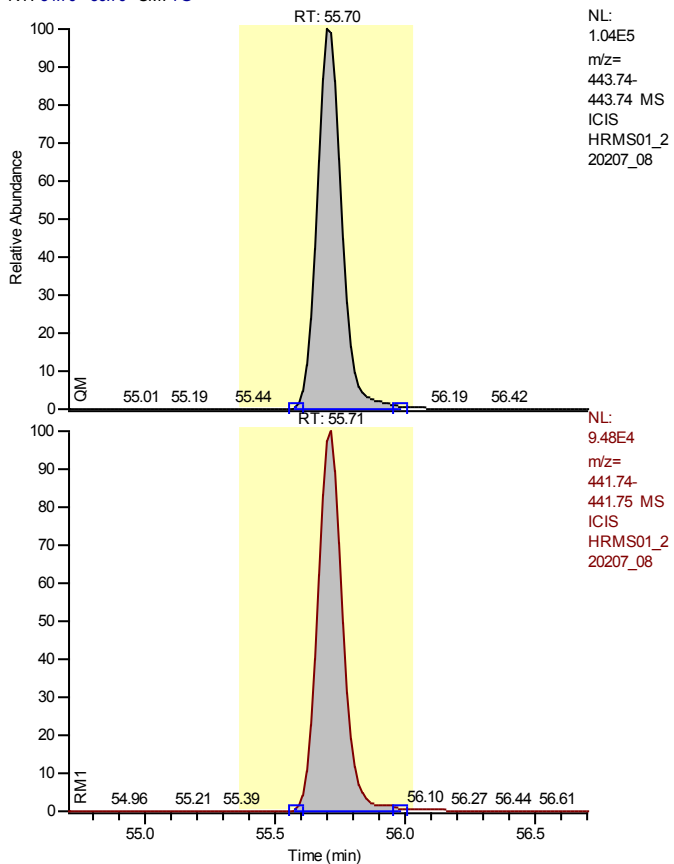
Linear Fit: StdDev = 0.164 RSD = 10.171 CF = 0.000000



Chromatogram

Entry Parameters

RT: 54.70 - 56.70 SM: 7G



NL:
 1.04E5
 m/z=
 443.74-
 443.74 MS
 ICIS
 HRMS01_2
 20207_08

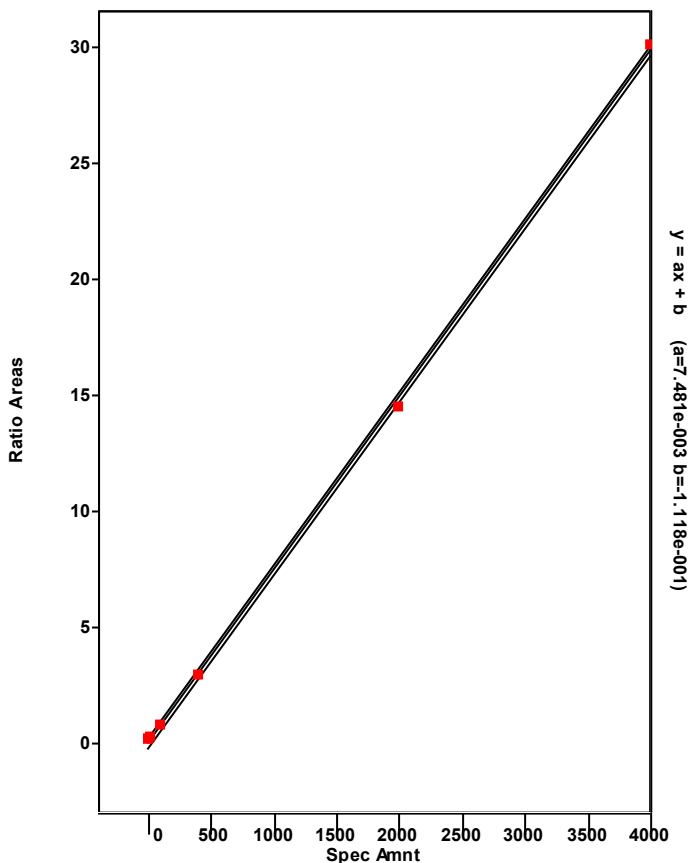
NL:
 9.48E4
 m/z=
 441.74-
 441.75 MS
 ICIS
 HRMS01_2
 20207_08

Entry Identifier	Octachlorodibenzofuran
Compound Name	OCDF
Label1	CAS# 39001-02-0
QM Area	689985
RM1 Area	631876
RM1 Ratio (A)	0.9158
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	119.45
Percent Recovery (A)	119
TEQ (A)	0.0358
Label2	

Entry: Octachlorodibenzofuran IS: 13C12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzofuran

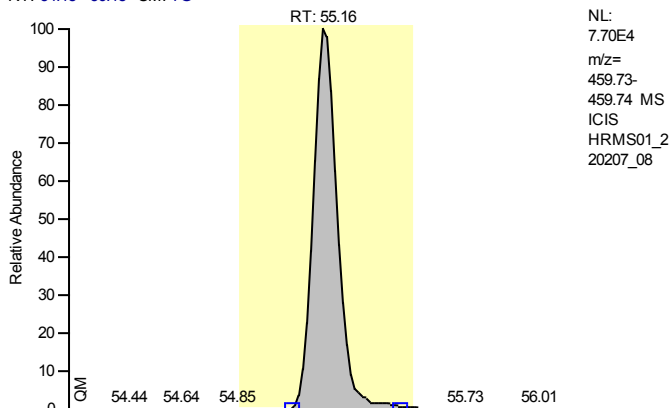
Linear Fit: StdDev = 0.224 RSD = 3.270 CF = 0.999617



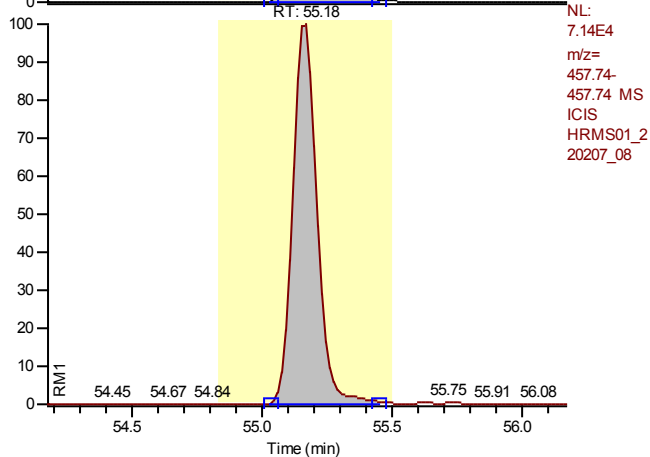
Chromatogram

Entry Parameters

RT: 54.18 - 56.18 SM: 7G



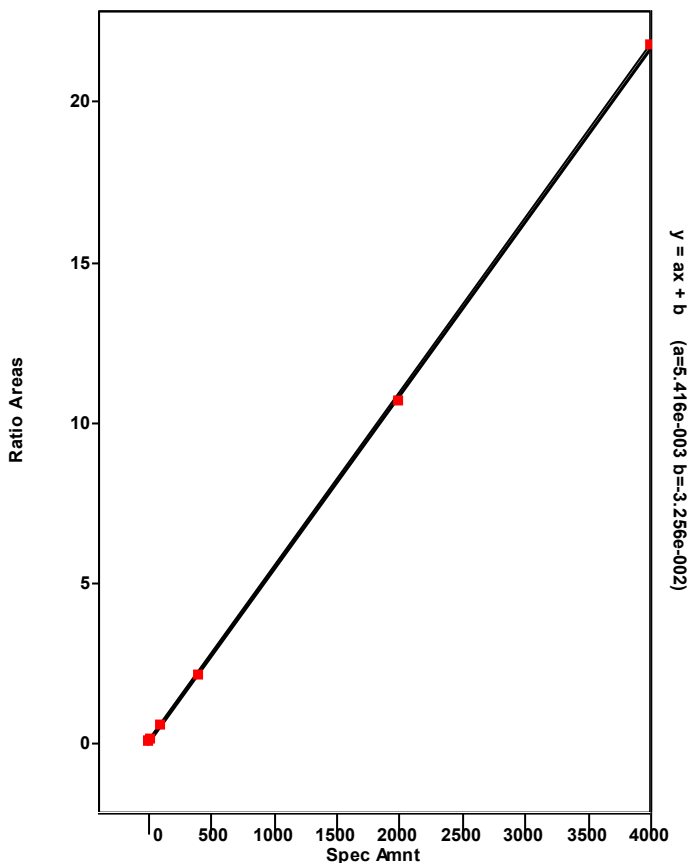
Entry Identifier	Octachlorodibenzo-p-dioxin
Compound Name	OCDD
Label1	CAS# 3268-87-9
QM Area	499968
RM1 Area	463566
RM1 Ratio (A)	0.9272
Ratio1 Limit	0.7600 - 1.0200
Specified Amount	100.00
Calculated Amount (A)	112.29
Percent Recovery (A)	112
TEQ (A)	0.0337
Label2	



Entry: Octachlorodibenzo-p-dioxin IS: 13C-12-Octachlorodibenzo-p-dioxin

Calibration Points of Octachlorodibenzo-p-dioxin

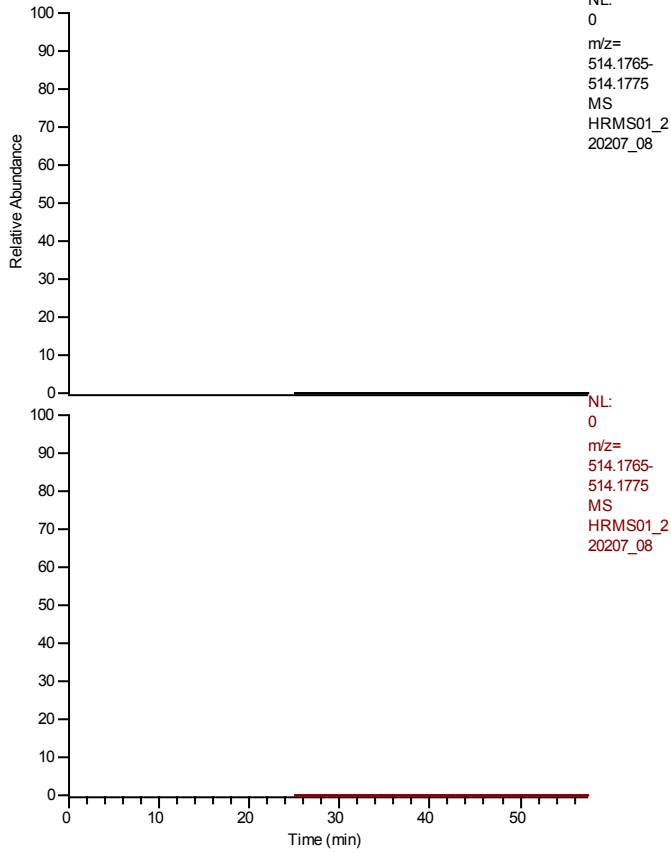
Linear Fit: StdDev = 0.076 RSD = 1.507 CF = 0.999917



Chromatogram

Entry Parameters

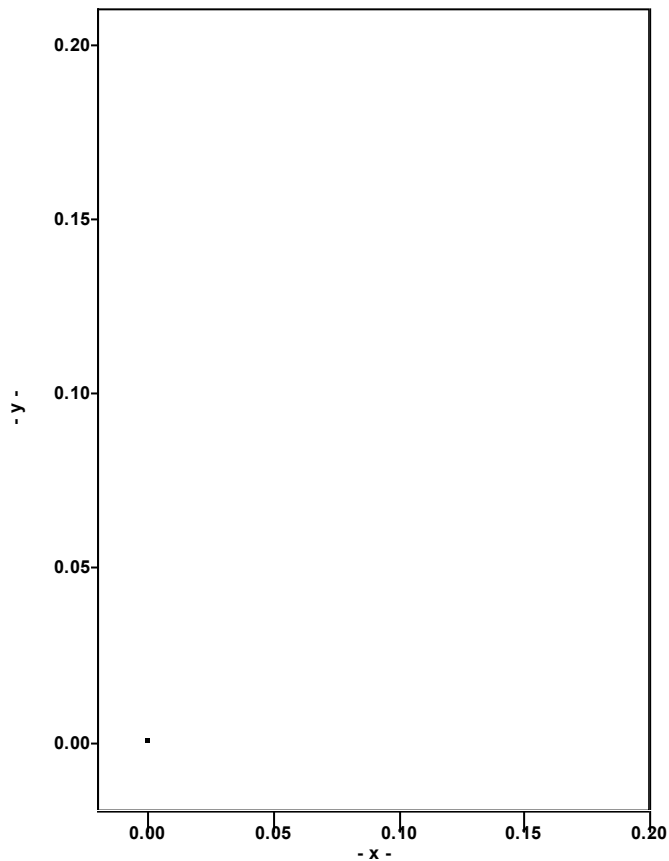
RT: 0.00 - 57.50 SM: 5G



Entry Identifier	overall TEQ
Compound Name	overall TEQ test
Label1	
QM Area	5599103
RM1 Area	6517976
RM1 Ratio (A)	1.1641
Ratio1 Limit	0.0000 - 0.0000
Specified Amount	0.00
Calculated Amount (A)	929.41
Percent Recovery (A)	---
TEQ (A)	115.6070
Label2	

Entry: overall TEQ

Calibration Points of overall TEQ



Sample Preparation

Workgroup: WG1600060

<p>Prep Method: EPA 8290A Solvent Type: Toluene Surrogate Type: DIOXIN Spike Type: DIOXIN Spike Verify by: N/A Lims Spikelot: DIOXIN Additional Reagents/Stdts</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td>Na2SO4</td><td>21J1161019</td></tr> <tr><td>Ottawa Sand</td><td>ON070821B</td></tr> <tr><td>Sodium Sulfate</td><td> </td></tr> </table>			Na2SO4	21J1161019	Ottawa Sand	ON070821B	Sodium Sulfate		<p>Lot #: 2111761025 Lot #: HRMS211108B/C Lot #: HRMS_DIOXIN_LCS_211117</p>	<p>Conc.Method: Zymark Solvent Type: Dodecane Lot #: B0537016</p> <p>Additional Reagents/Stdts</p> <table border="1"> <tr><td>Hexane</td><td>0000283635</td></tr> </table>	Hexane	0000283635	<p>Cleanup 1 Cleanup Method 1: EPA 1613B Cleanup Method 2: Solvent Type: Toluene Lot #: 2111761025</p> <p>Additional Reagents/Stdts</p> <table border="1"> <tr><td>Cln Standard</td><td>HRMS210511A</td></tr> <tr><td>Hexane</td><td>0000283635</td></tr> <tr><td>Nonane</td><td>A0402059</td></tr> <tr><td>IS</td><td>HRMS210615C</td></tr> </table>	Cln Standard	HRMS210511A	Hexane	0000283635	Nonane	A0402059	IS	HRMS210615C
Na2SO4	21J1161019																				
Ottawa Sand	ON070821B																				
Sodium Sulfate																					
Hexane	0000283635																				
Cln Standard	HRMS210511A																				
Hexane	0000283635																				
Nonane	A0402059																				
IS	HRMS210615C																				

Extraction

Concentration

Sample/Type	Extraction							Concentration				
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Ti me	Conc Date	Analyst	Final Vol ml	Conc Unit
L2168782-21 SOIL	02/01/22 16:02	Caroline Parsloe	10.16	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB 50 OVAP 3
L2168782-22 SOIL	02/01/22 16:02	Caroline Parsloe	10.28	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB 50 OVAP 3
L2168782-23 SOIL	02/01/22 16:02	Caroline Parsloe	10.39	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB 50 OVAP 3
L2200947-19 SAMP	02/01/22 16:02	Caroline Parsloe	10.10	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB 50 OVAP 3
L2200947-20 SAMP	02/01/22 16:02	Caroline Parsloe	10.49	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB 50 OVAP 3
L2202953-01 SAMP	02/01/22 16:02	Caroline Parsloe	10.27	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB 50 OVAP 3

Workgroup: WG1600060

Sample/ Type	Extraction							Concentration					
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit	
L2202953-02 SAMP	02/01/22 16:02	Caroline Parsloe	10.35	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB OVAP 3	50
L2202953-03 SAMP	02/01/22 16:02	Caroline Parsloe	10.19	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-04 SAMP	02/01/22 16:02	Caroline Parsloe	10.28	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-05 SAMP	02/01/22 16:02	Caroline Parsloe	10.53	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-06 SAMP	02/01/22 16:02	Caroline Parsloe	10.49	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-07 SAMP	02/01/22 16:02	Caroline Parsloe	10.40	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-08 SAMP	02/01/22 16:02	Caroline Parsloe	10.21	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/02/22 14:10	Caroline Parsloe	4	TURB OVAP 1	50
L2202953-09 SAMP	02/01/22 16:02	Caroline Parsloe	10.14	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50
L2202953-10 SAMP	02/01/22 16:02	Caroline Parsloe	10.35	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50
L2202953-11 SAMP	02/01/22 16:02	Caroline Parsloe	10.23	BAL-30	.01		MICRO WAVE 1	02/01/22 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50

Workgroup: WG1600060

Sample/ Type	Extraction							Concentration					
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Ti me	Conc Date	Analyst	Final Vol ml	Conc Unit	
L2202953-12 SAMP	02/01/22 16:02	Caroline Parsloe	10.21	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50
L2203719-01 SOIL	02/01/22 16:02	Caroline Parsloe	10.34	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50
L2203719-02 SOIL	02/01/22 16:02	Caroline Parsloe	10.19	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/03/22 09:27	Caroline Parsloe	4	TURB OVAP 3	50
L2203719-03 SOIL	02/01/22 16:02	Caroline Parsloe	10.08	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/03/22 09:35	Caroline Parsloe	4	TURB OVAP 1	50
WG1600060- 1 BLANK	02/01/22 16:02	Caroline Parsloe	10.00	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB OVAP 3	50
WG1600060- 2 LCS	02/01/22 16:02	Caroline Parsloe	10.00	BAL-30	.01	.01	MICRO WAVE 1	02/01/2 2 17:02	02/02/22 11:20	Caroline Parsloe	4	TURB OVAP 3	50
WG1600060- 3 DUP	02/01/22 16:02	Caroline Parsloe	10.37	BAL-30	.01		MICRO WAVE 1	02/01/2 2 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB OVAP 3	50
WG1600060- 4 MS	02/01/22 16:02	Caroline Parsloe	10.35	BAL-30	.01	.01	MICRO WAVE 1	02/01/2 2 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB OVAP 3	50
WG1600060- 5 MSD	02/01/22 16:02	Caroline Parsloe	10.36	BAL-30	.01	.01	MICRO WAVE 1	02/01/2 2 17:02	02/02/22 13:30	Caroline Parsloe	4	TURB OVAP 3	50

Workgroup: WG1600060

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Lot: Clnup Cartridge	Lot: Clnup Cartridge	Cleanup Vol ml	Final Cleanup Vol
L2168782-21 SOIL	02/03/22 10:17	Caroline Parsloe	203102	203102	4	0.01
L2168782-22 SOIL	02/03/22 10:17	Caroline Parsloe	203102	203102	4	0.01
L2168782-23 SOIL	02/03/22 10:17	Caroline Parsloe	203102	203102	4	0.01
L2200947-19 SAMP	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01
L2200947-20 SAMP	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01
L2202953-01 SAMP	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01
L2202953-02 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01
L2202953-03 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01
L2202953-04 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01
L2202953-05 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01
L2202953-06 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01
L2202953-07 SAMP	02/03/22 15:35	Caroline Parsloe	203102	203102	4	0.01

Workgroup: WG1600060

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Lot: Clnup Cartridge	Lot: Clnup Cartridge	Cleanup Vol ml	Final Cleanup Vol
L2202953-08 SAMP	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
L2202953-09 SAMP	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
L2202953-10 SAMP	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
L2202953-11 SAMP	02/07/22 09:25	Caroline Parsloe	203102	203102	4	0.01
L2202953-12 SAMP	02/07/22 09:25	Caroline Parsloe	203102	203102	4	0.01
L2203719-01 SOIL	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
L2203719-02 SOIL	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
L2203719-03 SOIL	02/04/22 07:49	Caroline Parsloe	203102	203102	4	0.01
WG1600060-1 BLANK	02/03/22 10:17	Caroline Parsloe	203102	203102	4	0.01
WG1600060-2 LCS	02/03/22 10:17	Caroline Parsloe	203102	203102	4	0.01
WG1600060-3 DUP	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01
WG1600060-4 MS	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01

Workgroup: WG1600060

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Lot: Clnup Cartridge	Lot: Clnup Cartridge	Cleanup Vol ml	Final Cleanup Vol
WG1600060- 5 MSD	02/03/22 11:50	Caroline Parsloe	203102	203102	4	0.01

Wet Chemistry

Total Solids / Percent Moisture Analysis

Sample Raw Data

WorkGroup WG1571375	Temp In (C) 104	Temp In (C) 98	Temp In (C)	Temp In (C)
Title Solids, Total	Temp Out (C) 102	Temp Out (C) 104	Temp Out (C)	Temp Out (C)
Method SM2540G	Time In 15-NOV-21 16:02	Time In 16-NOV-21 12:11	Time In	Time In
Instrument BALANCE#18	Time Out 16-NOV-21 12:07	Time Out 16-NOV-21 18:00	Time Out	Time Out

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2161038-01	15-NOV-21 08:45	ABIGAIL ENOS	1.368	8.525	6.119	6.118			66.37	
L2161038-02	15-NOV-21 08:45	ABIGAIL ENOS	1.36	9.904	7.163	7.16			67.88	
L2161038-03	15-NOV-21 08:45	ABIGAIL ENOS	1.383	9.544	6.981	6.98			68.58	
L2161038-04	15-NOV-21 08:45	ABIGAIL ENOS	1.326	8.021	5.263	5.26			58.76	
L2161038-05	15-NOV-21 08:45	ABIGAIL ENOS	1.343	8.612	6.202	6.205			66.85	
L2161038-06	15-NOV-21 08:45	ABIGAIL ENOS	1.341	8.41	5.744	5.743			62.27	
L2161038-07	15-NOV-21 08:45	ABIGAIL ENOS	1.339	7.67	5.707	5.705			68.96	
L2161038-08	15-NOV-21 08:45	ABIGAIL ENOS	1.378	7.493	6.603	6.602			85.43	
L2161038-09	15-NOV-21 08:45	ABIGAIL ENOS	1.348	8.154	5.034	5.049			54.16	
L2161038-10	15-NOV-21 08:45	ABIGAIL ENOS	1.36	9.094	7.204	7.206			75.56	
L2161038-11	15-NOV-21 08:45	ABIGAIL ENOS	1.359	8.619	6.056	6.057			64.70	
L2161038-12	15-NOV-21 08:45	ABIGAIL ENOS	1.372	9.058	6.065	6.064			61.05	
L2161586-01	15-NOV-21 08:45	ABIGAIL ENOS	1.357	8.313	5.906	5.902			65.34	
L2161586-02	15-NOV-21 08:45	ABIGAIL ENOS	1.36	9.876	8.09	8.084			78.96	
L2161586-03	15-NOV-21 08:45	ABIGAIL ENOS	1.361	9.875	7.994	7.988			77.84	
L2161586-04	15-NOV-21 08:45	ABIGAIL ENOS	1.372	8.81	7.494	7.491			82.27	
L2161586-05	15-NOV-21 08:45	ABIGAIL ENOS	1.363	7.947	3.889	3.882			38.26	
L2161586-06	15-NOV-21 08:45	ABIGAIL ENOS	1.359	9.133	6.977	6.972			72.20	
L2161586-07	15-NOV-21 08:45	ABIGAIL ENOS	1.35	7.427	3.974	3.971			43.13	
L2161586-08	15-NOV-21 08:45	ABIGAIL ENOS	1.338	9.496	7.173	7.171			71.50	
WG1571375-1	15-NOV-21 08:45	ABIGAIL ENOS	1.372	8.1	5.923	5.919			67.58	

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 25 2022, 11:26 am

Work Group: WG1571375 for Department: 7 Wet Chemistry

Created: 15-NOV-21 Due: Operator: AAE

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2161038-01	USMPDI-014SC-A-14-15-201109	S A2-TS	SOIL	DONE	U	1116	0111	S0	Plastic-A-TS
L2161038-02	USMPDI-014SC-A-15-16-201109	S A2-TS	SOIL	DONE	U	1116	0111	S0	Plastic-A-TS
L2161038-03	USMPDI-017SC-A-16-17-210429	S A2-TS	SOIL	DONE	U	0506	0111	S0	Plastic-A-TS
L2161038-04	USMPDI-028SC-A-05-6.3-210504	S A2-TS	SOIL	DONE	U	0511	0111	S0	Plastic-A-TS
L2161038-05	USMPDI-040SC-A-09-10-201103	S A2-TS	SOIL	DONE	U	1110	0111	S0	Plastic-A-TS
L2161038-06	USMPDI-044SC-A-15-16-201104	S A2-TS	SOIL	DONE	U	1111	0111	S0	Plastic-A-TS
L2161038-07	USMPDI-044SC-A-16-17-201104	S A2-TS	SOIL	DONE	U	1111	0111	S0	Plastic-A-TS
L2161038-08	USMPDI-047SC-A-05-06-201030	S A2-TS	SOIL	DONE	U	1106	0111	S0	Plastic-A-TS
L2161038-09	USMPDI-056SC-A-05-06-201107	S A2-TS	SOIL	DONE	U	1114	0111	S0	Plastic-A-TS
L2161038-10	USMPDI-056SC-A-06-07-201107	S A2-TS	SOIL	DONE	U	1114	0111	S0	Plastic-A-TS
L2161038-11	USMPDI-004SC-A-05-06-201111	S A2-TS	SOIL	DONE	U	1118	0111	S0	Plastic-A-TS
L2161038-12	USMPDI-004SC-A-06-07-201111	S A2-TS	SOIL	DONE	U	1116	0111	S0	Plastic-A-TS
L2161586-01	E-DS-1A	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-01	E-DS-1A	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-02	E-DS-1B	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-02	E-DS-1B	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-03	E-DS-2A	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-03	E-DS-2A	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-04	E-DS-2B	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-04	E-DS-2B	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-05	H-DS-1A	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-05	H-DS-1A	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-06	H-DS-1B	C A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-06	H-DS-1B	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-07	H1 (CHEMICAL KIT)	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-07	H1 (CHEMICAL KIT)	S A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2161586-08	E2 (CHEMICAL KIT)	C A2-TS	SOIL	DONE	U	1115	1223	S0	Plastic-A-TS
L2161586-08	E2 (CHEMICAL KIT)	S A2-MOISTURE-2540	SOIL	DONE	U	1115	1223	S0	Glass-A.06
L2202953-01	USMPDI-014SC-A-14-15-201109	S A2-TS	SOIL	DONE	U	1116	0209	S0	Plastic-A-TS
L2202953-02	USMPDI-014SC-A-15-16-201109	S A2-TS	SOIL	DONE	U	1116	0209	S0	Plastic-A-TS
L2202953-03	USMPDI-017SC-A-16-17-210429	S A2-TS	SOIL	DONE	U	0506	0209	S0	Plastic-A-TS
L2202953-04	USMPDI-028SC-A-05-6.3-210504	S A2-TS	SOIL	DONE	U	0511	0209	S0	Plastic-A-TS
L2202953-05	USMPDI-040SC-A-09-10-201103	S A2-TS	SOIL	DONE	U	1110	0209	S0	Plastic-A-TS
L2202953-06	USMPDI-044SC-A-15-16-201104	S A2-TS	SOIL	DONE	U	1111	0209	S0	Plastic-A-TS
L2202953-07	USMPDI-044SC-A-16-17-201104	S A2-TS	SOIL	DONE	U	1111	0209	S0	Plastic-A-TS
L2202953-08	USMPDI-047SC-A-05-06-201030	S A2-TS	SOIL	DONE	U	1106	0209	S0	Plastic-A-TS
L2202953-09	USMPDI-056SC-A-05-06-201107	S A2-TS	SOIL	DONE	U	1114	0209	S0	Plastic-A-TS
L2202953-10	USMPDI-056SC-A-06-07-201107	S A2-TS	SOIL	DONE	U	1114	0209	S0	Plastic-A-TS
L2202953-11	USMPDI-004SC-A-05-06-201111	S A2-TS	SOIL	DONE	U	1118	0209	S0	Plastic-A-TS
L2202953-12	USMPDI-004SC-A-06-07-201111	S A2-TS	SOIL	DONE	U	1116	0209	S0	Plastic-A-TS
WG1571375-1	Duplicate Sample	S A2-TS	SOIL	DONE	U				
Comments:									
WG1571375-1	L2161586-01								

Alpha Report



ANALYTICAL REPORT

Lab Number:	L2202953
Client:	Anchor QEA, LLC 1605 Cornwall Avenue Bellingham, WA 98225
ATTN:	Delaney Peterson
Phone:	(360) 715-2707
Project Name:	US MOORINGS
Project Number:	000029-02
Report Date:	02/09/22

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2202953

Report Date: 02/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2202953-01	USMPDI-014SC-A-14-15-201109	SEDIMENT	Not Specified	11/09/20 14:55	11/05/21
L2202953-02	USMPDI-014SC-A-15-16-201109	SEDIMENT	Not Specified	11/09/20 14:55	11/05/21
L2202953-03	USMPDI-017SC-A-16-17-210429	SEDIMENT	Not Specified	04/29/20 09:45	11/05/21
L2202953-04	USMPDI-028SC-A-05-6.3-210504	SEDIMENT	Not Specified	05/04/20 08:50	11/05/21
L2202953-05	USMPDI-040SC-A-09-10-201103	SEDIMENT	Not Specified	11/03/20 16:30	11/05/21
L2202953-06	USMPDI-044SC-A-15-16-201104	SEDIMENT	Not Specified	11/04/20 08:45	11/05/21
L2202953-07	USMPDI-044SC-A-16-17-201104	SEDIMENT	Not Specified	11/04/20 08:45	11/05/21
L2202953-08	USMPDI-047SC-A-05-06-201030	SEDIMENT	Not Specified	10/30/20 09:30	11/05/21
L2202953-09	USMPDI-056SC-A-05-06-201107	SEDIMENT	Not Specified	11/07/20 13:30	11/05/21
L2202953-10	USMPDI-056SC-A-06-07-201107	SEDIMENT	Not Specified	11/07/20 13:30	11/05/21
L2202953-11	USMPDI-004SC-A-05-06-201111	SEDIMENT	Not Specified	11/11/20 08:35	11/10/21
L2202953-12	USMPDI-004SC-A-06-07-201111	SEDIMENT	Not Specified	11/09/21 10:57	11/10/21

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dioxins & Furans by Isotope Dilution HRMS

L2202953-01 through -12: The samples were extracted and analyzed with the method required holding time exceeded (the samples were beyond 1-year of frozen storage). The analysis was performed at the client's request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Elizabeth Porta

Title: Technical Director/Representative

Date: 02/09/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-01
 Client ID: USMPDI-014SC-A-14-15-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 01:27
 Analyst: PB
 Percent Solids: 66%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.733	0.226	1
1,2,3,7,8-PeCDD	ND			pg/g	3.67	0.538	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.67	0.809	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.67	0.629	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.67	0.562	1
1,2,3,4,6,7,8-HpCDD	1.50	J		pg/g	3.67	0.397	1
OCDD	12.2			pg/g	7.33	0.777	1
2,3,7,8-TCDF	ND			pg/g	0.733	0.202	1
1,2,3,7,8-PeCDF	ND			pg/g	3.67	0.440	1
2,3,4,7,8-PeCDF	ND			pg/g	3.67	0.368	1
1,2,3,4,7,8-HxCDF	ND			pg/g	3.67	0.469	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.67	0.513	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.67	0.416	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.67	0.446	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	3.67	0.581	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.67	0.402	1
OCDF	ND			pg/g	7.33	1.24	1
Total TCDD	ND			pg/g	0.733	0.226	1
Total PeCDD	ND			pg/g	3.67	0.538	1
Total HxCDD	ND			pg/g	3.67	0.809	1
Total HpCDD	ND			pg/g	3.67	0.397	1
Total TCDF	ND			pg/g	0.733	0.202	1
Total PeCDF	ND			pg/g	3.67	0.440	1
Total HxCDF	ND			pg/g	3.67	0.469	1
Total HpCDF	ND			pg/g	3.67	0.581	1
Total PCDD	12.2			pg/g	0.733	0.226	1
Total PCDF	ND			pg/g	0.733	0.202	1
Toxic Equivalency (TEQ)	0.004			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-01
 Client ID: USMPDI-014SC-A-14-15-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	71		24-169
13C12-2,3,7,8-TCDD	70		25-164
13C12-1,2,3,7,8-PeCDF	79		24-185
13C12-2,3,4,7,8-PeCDF	82		21-178
13C12-1,2,3,7,8-PeCDD	82		25-181
13C12-1,2,3,4,7,8-HxCDF	88		26-152
13C12-1,2,3,6,7,8-HxCDF	88		26-123
13C12-2,3,4,6,7,8-HxCDF	83		28-136
13C12-1,2,3,7,8,9-HxCDF	82		29-147
13C12-1,2,3,4,7,8-HxCDD	84		32-141
13C12-1,2,3,6,7,8-HxCDD	83		28-130
13C12-1,2,3,4,6,7,8-HpCDF	74		28-143
13C12-1,2,3,4,7,8,9-HpCDF	64		26-138
13C12-1,2,3,4,6,7,8-HpCDD	80		23-140
13C12-OCDD	71		17-157
37CL4-2,3,7,8-TCDD	92		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-02
 Client ID: USMPDI-014SC-A-15-16-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 02:38
 Analyst: PB
 Percent Solids: 68%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.711	0.219	1
1,2,3,7,8-PeCDD	ND			pg/g	3.56	0.522	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.56	0.785	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.56	0.610	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.56	0.545	1
1,2,3,4,6,7,8-HpCDD	1.27	J		pg/g	3.56	0.386	1
OCDD	9.11			pg/g	7.11	0.754	1
2,3,7,8-TCDF	ND			pg/g	0.711	0.196	1
1,2,3,7,8-PeCDF	ND			pg/g	3.56	0.427	1
2,3,4,7,8-PeCDF	ND			pg/g	3.56	0.357	1
1,2,3,4,7,8-HxCDF	ND			pg/g	3.56	0.455	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.56	0.498	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.56	0.404	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.56	0.432	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	3.56	0.563	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.56	0.390	1
OCDF	ND			pg/g	7.11	1.20	1
Total TCDD	ND			pg/g	0.711	0.219	1
Total PeCDD	ND			pg/g	3.56	0.522	1
Total HxCDD	ND			pg/g	3.56	0.785	1
Total HpCDD	ND			pg/g	3.56	0.386	1
Total TCDF	ND			pg/g	0.711	0.196	1
Total PeCDF	ND			pg/g	3.56	0.427	1
Total HxCDF	ND			pg/g	3.56	0.455	1
Total HpCDF	ND			pg/g	3.56	0.563	1
Total PCDD	9.11			pg/g	0.711	0.219	1
Total PCDF	ND			pg/g	0.711	0.196	1
Toxic Equivalency (TEQ)	0.003			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-02
 Client ID: USMPDI-014SC-A-15-16-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	73		24-169
13C12-2,3,7,8-TCDD	72		25-164
13C12-1,2,3,7,8-PeCDF	73		24-185
13C12-2,3,4,7,8-PeCDF	73		21-178
13C12-1,2,3,7,8-PeCDD	74		25-181
13C12-1,2,3,4,7,8-HxCDF	84		26-152
13C12-1,2,3,6,7,8-HxCDF	81		26-123
13C12-2,3,4,6,7,8-HxCDF	75		28-136
13C12-1,2,3,7,8,9-HxCDF	79		29-147
13C12-1,2,3,4,7,8-HxCDD	81		32-141
13C12-1,2,3,6,7,8-HxCDD	87		28-130
13C12-1,2,3,4,6,7,8-HpCDF	75		28-143
13C12-1,2,3,4,7,8,9-HpCDF	73		26-138
13C12-1,2,3,4,6,7,8-HpCDD	82		23-140
13C12-OCDD	80		17-157
37CL4-2,3,7,8-TCDD	93		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-03
 Client ID: USMPDI-017SC-A-16-17-210429
 Sample Location: Not Specified

Date Collected: 04/29/20 09:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 03:49
 Analyst: PB
 Percent Solids: 69%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.715	0.220	1
1,2,3,7,8-PeCDD	ND			pg/g	3.58	0.525	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.58	0.790	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.58	0.614	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.58	0.548	1
1,2,3,4,6,7,8-HpCDD	ND			pg/g	3.58	0.388	1
OCDD	6.72	J		pg/g	7.15	0.758	1
2,3,7,8-TCDF	ND			pg/g	0.715	0.197	1
1,2,3,7,8-PeCDF	ND			pg/g	3.58	0.429	1
2,3,4,7,8-PeCDF	ND			pg/g	3.58	0.359	1
1,2,3,4,7,8-HxCDF	ND			pg/g	3.58	0.458	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.58	0.501	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.58	0.406	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.58	0.435	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	3.58	0.566	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.58	0.392	1
OCDF	ND			pg/g	7.15	1.21	1
Total TCDD	ND			pg/g	0.715	0.220	1
Total PeCDD	ND			pg/g	3.58	0.525	1
Total HxCDD	ND			pg/g	3.58	0.790	1
Total HpCDD	ND			pg/g	3.58	0.388	1
Total TCDF	ND			pg/g	0.715	0.197	1
Total PeCDF	ND			pg/g	3.58	0.429	1
Total HxCDF	ND			pg/g	3.58	0.458	1
Total HpCDF	ND			pg/g	3.58	0.566	1
Total PCDD	ND			pg/g	0.715	0.220	1
Total PCDF	ND			pg/g	0.715	0.197	1
Toxic Equivalency (TEQ)	ND			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-03
 Client ID: USMPDI-017SC-A-16-17-210429
 Sample Location: Not Specified

Date Collected: 04/29/20 09:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	73		24-169
13C12-2,3,7,8-TCDD	68		25-164
13C12-1,2,3,7,8-PeCDF	69		24-185
13C12-2,3,4,7,8-PeCDF	71		21-178
13C12-1,2,3,7,8-PeCDD	69		25-181
13C12-1,2,3,4,7,8-HxCDF	73		26-152
13C12-1,2,3,6,7,8-HxCDF	65		26-123
13C12-2,3,4,6,7,8-HxCDF	81		28-136
13C12-1,2,3,7,8,9-HxCDF	78		29-147
13C12-1,2,3,4,7,8-HxCDD	79		32-141
13C12-1,2,3,6,7,8-HxCDD	82		28-130
13C12-1,2,3,4,6,7,8-HpCDF	72		28-143
13C12-1,2,3,4,7,8,9-HpCDF	69		26-138
13C12-1,2,3,4,6,7,8-HpCDD	79		23-140
13C12-OCDD	71		17-157
37CL4-2,3,7,8-TCDD	89		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-04
 Client ID: USMPDI-028SC-A-05-6.3-210504
 Sample Location: Not Specified

Date Collected: 05/04/20 08:50
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 05:01
 Analyst: PB
 Percent Solids: 59%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.827	0.255	1
1,2,3,7,8-PeCDD	ND			pg/g	4.14	0.607	1
1,2,3,4,7,8-HxCDD	ND			pg/g	4.14	0.913	1
1,2,3,6,7,8-HxCDD	7.26			pg/g	4.14	0.710	1
1,2,3,7,8,9-HxCDD	3.19	J		pg/g	4.14	0.634	1
1,2,3,4,6,7,8-HpCDD	164			pg/g	4.14	0.448	1
OCDD	3050			pg/g	8.27	0.877	1
2,3,7,8-TCDF	25.1			pg/g	0.827	0.228	1
1,2,3,7,8-PeCDF	65.8			pg/g	4.14	0.496	1
2,3,4,7,8-PeCDF	28.1			pg/g	4.14	0.415	1
1,2,3,4,7,8-HxCDF	115			pg/g	4.14	0.529	1
1,2,3,6,7,8-HxCDF	39.8			pg/g	4.14	0.579	1
1,2,3,7,8,9-HxCDF	11.3			pg/g	4.14	0.470	1
2,3,4,6,7,8-HxCDF	10.3			pg/g	4.14	0.503	1
1,2,3,4,6,7,8-HpCDF	95.9			pg/g	4.14	0.655	1
1,2,3,4,7,8,9-HpCDF	25.4			pg/g	4.14	0.453	1
OCDF	214			pg/g	8.27	1.40	1
Total TCDD	1.12			pg/g	0.827	0.255	1
Total PeCDD	ND			pg/g	4.14	0.607	1
Total HxCDD	57.0			pg/g	4.14	0.913	1
Total HpCDD	387			pg/g	4.14	0.448	1
Total TCDF	91.4			pg/g	0.827	0.228	1
Total PeCDF	156			pg/g	4.14	0.496	1
Total HxCDF	225			pg/g	4.14	0.529	1
Total HpCDF	239			pg/g	4.14	0.655	1
Total PCDD	3500			pg/g	0.827	0.255	1
Total PCDF	925			pg/g	0.827	0.228	1
Toxic Equivalency (TEQ)	35.1			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-04
 Client ID: USMPDI-028SC-A-05-6.3-210504
 Sample Location: Not Specified

Date Collected: 05/04/20 08:50
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	63		24-169
13C12-2,3,7,8-TCDD	60		25-164
13C12-1,2,3,7,8-PeCDF	66		24-185
13C12-2,3,4,7,8-PeCDF	68		21-178
13C12-1,2,3,7,8-PeCDD	65		25-181
13C12-1,2,3,4,7,8-HxCDF	76		26-152
13C12-1,2,3,6,7,8-HxCDF	71		26-123
13C12-2,3,4,6,7,8-HxCDF	67		28-136
13C12-1,2,3,7,8,9-HxCDF	72		29-147
13C12-1,2,3,4,7,8-HxCDD	70		32-141
13C12-1,2,3,6,7,8-HxCDD	76		28-130
13C12-1,2,3,4,6,7,8-HpCDF	60		28-143
13C12-1,2,3,4,7,8,9-HpCDF	68		26-138
13C12-1,2,3,4,6,7,8-HpCDD	77		23-140
13C12-OCDD	68		17-157
37CL4-2,3,7,8-TCDD	85		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-05
 Client ID: USMPDI-040SC-A-09-10-201103
 Sample Location: Not Specified

Date Collected: 11/03/20 16:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 06:12
 Analyst: PB
 Percent Solids: 67%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.711	0.219	1
1,2,3,7,8-PeCDD	ND			pg/g	3.55	0.522	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.55	0.785	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.55	0.610	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.55	0.544	1
1,2,3,4,6,7,8-HpCDD	1.25	J		pg/g	3.55	0.385	1
OCDD	14.8			pg/g	7.11	0.753	1
2,3,7,8-TCDF	ND			pg/g	0.711	0.196	1
1,2,3,7,8-PeCDF	ND			pg/g	3.55	0.426	1
2,3,4,7,8-PeCDF	ND			pg/g	3.55	0.357	1
1,2,3,4,7,8-HxCDF	ND			pg/g	3.55	0.455	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.55	0.498	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.55	0.404	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.55	0.432	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	3.55	0.563	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.55	0.390	1
OCDF	ND			pg/g	7.11	1.20	1
Total TCDD	ND			pg/g	0.711	0.219	1
Total PeCDD	ND			pg/g	3.55	0.522	1
Total HxCDD	ND			pg/g	3.55	0.785	1
Total HpCDD	ND			pg/g	3.55	0.385	1
Total TCDF	ND			pg/g	0.711	0.196	1
Total PeCDF	ND			pg/g	3.55	0.426	1
Total HxCDF	ND			pg/g	3.55	0.455	1
Total HpCDF	ND			pg/g	3.55	0.563	1
Total PCDD	14.8			pg/g	0.711	0.219	1
Total PCDF	ND			pg/g	0.711	0.196	1
Toxic Equivalency (TEQ)	0.004			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-05
 Client ID: USMPDI-040SC-A-09-10-201103
 Sample Location: Not Specified

Date Collected: 11/03/20 16:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	68		24-169
13C12-2,3,7,8-TCDD	67		25-164
13C12-1,2,3,7,8-PeCDF	73		24-185
13C12-2,3,4,7,8-PeCDF	70		21-178
13C12-1,2,3,7,8-PeCDD	74		25-181
13C12-1,2,3,4,7,8-HxCDF	86		26-152
13C12-1,2,3,6,7,8-HxCDF	81		26-123
13C12-2,3,4,6,7,8-HxCDF	78		28-136
13C12-1,2,3,7,8,9-HxCDF	71		29-147
13C12-1,2,3,4,7,8-HxCDD	77		32-141
13C12-1,2,3,6,7,8-HxCDD	86		28-130
13C12-1,2,3,4,6,7,8-HpCDF	82		28-143
13C12-1,2,3,4,7,8,9-HpCDF	71		26-138
13C12-1,2,3,4,6,7,8-HpCDD	85		23-140
13C12-OCDD	74		17-157
37CL4-2,3,7,8-TCDD	90		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-06
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 16:07
 Analyst: PB
 Percent Solids: 62%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.765	0.236	1
1,2,3,7,8-PeCDD	ND			pg/g	3.82	0.562	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.82	0.845	1
1,2,3,6,7,8-HxCDD	6.40			pg/g	3.82	0.656	1
1,2,3,7,8,9-HxCDD	3.03	J		pg/g	3.82	0.586	1
1,2,3,4,6,7,8-HpCDD	168			pg/g	3.82	0.415	1
OCDD	2220			pg/g	7.65	0.811	1
2,3,7,8-TCDF	8.23			pg/g	0.765	0.211	1
1,2,3,7,8-PeCDF	8.98			pg/g	3.82	0.459	1
2,3,4,7,8-PeCDF	7.99			pg/g	3.82	0.384	1
1,2,3,4,7,8-HxCDF	16.6			pg/g	3.82	0.490	1
1,2,3,6,7,8-HxCDF	9.56			pg/g	3.82	0.536	1
1,2,3,7,8,9-HxCDF	3.14	J		pg/g	3.82	0.434	1
2,3,4,6,7,8-HxCDF	4.79			pg/g	3.82	0.465	1
1,2,3,4,6,7,8-HpCDF	70.3			pg/g	3.82	0.606	1
1,2,3,4,7,8,9-HpCDF	6.99			pg/g	3.82	0.419	1
OCDF	158			pg/g	7.65	1.29	1
Total TCDD	7.31			pg/g	0.765	0.236	1
Total PeCDD	ND			pg/g	3.82	0.562	1
Total HxCDD	50.5			pg/g	3.82	0.845	1
Total HpCDD	409			pg/g	3.82	0.415	1
Total TCDF	59.8			pg/g	0.765	0.211	1
Total PeCDF	65.9			pg/g	3.82	0.459	1
Total HxCDF	85.1			pg/g	3.82	0.490	1
Total HpCDF	181			pg/g	3.82	0.606	1
Total PCDD	2690			pg/g	0.765	0.236	1
Total PCDF	550			pg/g	0.765	0.211	1
Toxic Equivalency (TEQ)	10.4			pg/g	0.002	0.002	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-06
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	69		24-169
13C12-2,3,7,8-TCDD	65		25-164
13C12-1,2,3,7,8-PeCDF	72		24-185
13C12-2,3,4,7,8-PeCDF	75		21-178
13C12-1,2,3,7,8-PeCDD	78		25-181
13C12-1,2,3,4,7,8-HxCDF	79		26-152
13C12-1,2,3,6,7,8-HxCDF	76		26-123
13C12-2,3,4,6,7,8-HxCDF	78		28-136
13C12-1,2,3,7,8,9-HxCDF	74		29-147
13C12-1,2,3,4,7,8-HxCDD	72		32-141
13C12-1,2,3,6,7,8-HxCDD	75		28-130
13C12-1,2,3,4,6,7,8-HpCDF	71		28-143
13C12-1,2,3,4,7,8,9-HpCDF	68		26-138
13C12-1,2,3,4,6,7,8-HpCDD	73		23-140
13C12-OCDD	61		17-157
37CL4-2,3,7,8-TCDD	88		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-07
 Client ID: USMPDI-044SC-A-16-17-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 17:07
 Analyst: PB
 Percent Solids: 69%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.697	0.215	1
1,2,3,7,8-PeCDD	ND			pg/g	3.48	0.511	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.48	0.769	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.48	0.598	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.48	0.534	1
1,2,3,4,6,7,8-HpCDD	22.5			pg/g	3.48	0.378	1
OCDD	202			pg/g	6.97	0.738	1
2,3,7,8-TCDF	ND		1.42	pg/g	0.697	0.192	1
1,2,3,7,8-PeCDF	3.51			pg/g	3.48	0.418	1
2,3,4,7,8-PeCDF	ND			pg/g	3.48	0.350	1
1,2,3,4,7,8-HxCDF	6.12			pg/g	3.48	0.446	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.48	0.488	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.48	0.396	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.48	0.424	1
1,2,3,4,6,7,8-HpCDF	6.56			pg/g	3.48	0.552	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.48	0.382	1
OCDF	12.6			pg/g	6.97	1.18	1
Total TCDD	ND		0.878	pg/g	0.697	0.215	1
Total PeCDD	ND			pg/g	3.48	0.511	1
Total HxCDD	ND			pg/g	3.48	0.769	1
Total HpCDD	49.8			pg/g	3.48	0.378	1
Total TCDF	3.95		6.19	pg/g	0.697	0.192	1
Total PeCDF	ND			pg/g	3.48	0.418	1
Total HxCDF	6.01			pg/g	3.48	0.446	1
Total HpCDF	14.5			pg/g	3.48	0.552	1
Total PCDD	252		258	pg/g	0.697	0.215	1
Total PCDF	37.1		39.3	pg/g	0.697	0.192	1
Toxic Equivalency (TEQ)	1.07			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-07
 Client ID: USMPDI-044SC-A-16-17-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	65		24-169
13C12-2,3,7,8-TCDD	72		25-164
13C12-1,2,3,7,8-PeCDF	68		24-185
13C12-2,3,4,7,8-PeCDF	70		21-178
13C12-1,2,3,7,8-PeCDD	74		25-181
13C12-1,2,3,4,7,8-HxCDF	80		26-152
13C12-1,2,3,6,7,8-HxCDF	72		26-123
13C12-2,3,4,6,7,8-HxCDF	74		28-136
13C12-1,2,3,7,8,9-HxCDF	73		29-147
13C12-1,2,3,4,7,8-HxCDD	77		32-141
13C12-1,2,3,6,7,8-HxCDD	77		28-130
13C12-1,2,3,4,6,7,8-HpCDF	67		28-143
13C12-1,2,3,4,7,8,9-HpCDF	69		26-138
13C12-1,2,3,4,6,7,8-HpCDD	79		23-140
13C12-OCDD	70		17-157
37CL4-2,3,7,8-TCDD	98		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-08
 Client ID: USMPDI-047SC-A-05-06-201030
 Sample Location: Not Specified

Date Collected: 10/30/20 09:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 17:42
 Analyst: PB
 Percent Solids: 85%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/04/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.573	0.177	1
1,2,3,7,8-PeCDD	ND			pg/g	2.87	0.421	1
1,2,3,4,7,8-HxCDD	ND			pg/g	2.87	0.633	1
1,2,3,6,7,8-HxCDD	ND			pg/g	2.87	0.492	1
1,2,3,7,8,9-HxCDD	ND			pg/g	2.87	0.439	1
1,2,3,4,6,7,8-HpCDD	3.13			pg/g	2.87	0.311	1
OCDD	42.9			pg/g	5.73	0.608	1
2,3,7,8-TCDF	0.975			pg/g	0.573	0.158	1
1,2,3,7,8-PeCDF	3.43			pg/g	2.87	0.344	1
2,3,4,7,8-PeCDF	1.55	J		pg/g	2.87	0.288	1
1,2,3,4,7,8-HxCDF	9.66			pg/g	2.87	0.367	1
1,2,3,6,7,8-HxCDF	2.41	J		pg/g	2.87	0.401	1
1,2,3,7,8,9-HxCDF	ND			pg/g	2.87	0.326	1
2,3,4,6,7,8-HxCDF	ND			pg/g	2.87	0.349	1
1,2,3,4,6,7,8-HpCDF	4.22			pg/g	2.87	0.454	1
1,2,3,4,7,8,9-HpCDF	1.72	J		pg/g	2.87	0.314	1
OCDF	5.83			pg/g	5.73	0.969	1
Total TCDD	ND			pg/g	0.573	0.177	1
Total PeCDD	ND			pg/g	2.87	0.421	1
Total HxCDD	ND			pg/g	2.87	0.633	1
Total HpCDD	7.84			pg/g	2.87	0.311	1
Total TCDF	0.986		1.81	pg/g	0.573	0.158	1
Total PeCDF	3.37			pg/g	2.87	0.344	1
Total HxCDF	9.31			pg/g	2.87	0.367	1
Total HpCDF	4.34			pg/g	2.87	0.454	1
Total PCDD	50.7			pg/g	0.573	0.177	1
Total PCDF	23.8		34.0	pg/g	0.573	0.158	1
Toxic Equivalency (TEQ)	1.25			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-08
 Client ID: USMPDI-047SC-A-05-06-201030
 Sample Location: Not Specified

Date Collected: 10/30/20 09:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	73		24-169
13C12-2,3,7,8-TCDD	63		25-164
13C12-1,2,3,7,8-PeCDF	62		24-185
13C12-2,3,4,7,8-PeCDF	62		21-178
13C12-1,2,3,7,8-PeCDD	67		25-181
13C12-1,2,3,4,7,8-HxCDF	84		26-152
13C12-1,2,3,6,7,8-HxCDF	85		26-123
13C12-2,3,4,6,7,8-HxCDF	78		28-136
13C12-1,2,3,7,8,9-HxCDF	75		29-147
13C12-1,2,3,4,7,8-HxCDD	72		32-141
13C12-1,2,3,6,7,8-HxCDD	74		28-130
13C12-1,2,3,4,6,7,8-HpCDF	68		28-143
13C12-1,2,3,4,7,8,9-HpCDF	63		26-138
13C12-1,2,3,4,6,7,8-HpCDD	72		23-140
13C12-OCDD	57		17-157
37CL4-2,3,7,8-TCDD	85		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-09
 Client ID: USMPDI-056SC-A-05-06-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 18:19
 Analyst: PB
 Percent Solids: 54%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/04/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND		1.06	pg/g	0.910	0.280	1
1,2,3,7,8-PeCDD	3.09	J		pg/g	4.55	0.668	1
1,2,3,4,7,8-HxCDD	3.42	J		pg/g	4.55	1.00	1
1,2,3,6,7,8-HxCDD	25.7			pg/g	4.55	0.780	1
1,2,3,7,8,9-HxCDD	10.3			pg/g	4.55	0.697	1
1,2,3,4,6,7,8-HpCDD	418			pg/g	4.55	0.493	1
OCDD	4240			pg/g	9.10	0.964	1
2,3,7,8-TCDF	31.3			pg/g	0.910	0.251	1
1,2,3,7,8-PeCDF	41.4			pg/g	4.55	0.546	1
2,3,4,7,8-PeCDF	21.6			pg/g	4.55	0.457	1
1,2,3,4,7,8-HxCDF	91.3			pg/g	4.55	0.582	1
1,2,3,6,7,8-HxCDF	22.4			pg/g	4.55	0.637	1
1,2,3,7,8,9-HxCDF	9.52			pg/g	4.55	0.517	1
2,3,4,6,7,8-HxCDF	9.13			pg/g	4.55	0.553	1
1,2,3,4,6,7,8-HpCDF	102			pg/g	4.55	0.720	1
1,2,3,4,7,8,9-HpCDF	22.3			pg/g	4.55	0.498	1
OCDF	216			pg/g	9.10	1.54	1
Total TCDD	2.76		8.34	pg/g	0.910	0.280	1
Total PeCDD	7.24			pg/g	4.55	0.668	1
Total HxCDD	149			pg/g	4.55	1.00	1
Total HpCDD	839			pg/g	4.55	0.493	1
Total TCDF	111		116	pg/g	0.910	0.251	1
Total PeCDF	128			pg/g	4.55	0.546	1
Total HxCDF	211			pg/g	4.55	0.582	1
Total HpCDF	264			pg/g	4.55	0.720	1
Total PCDD	5240		5240	pg/g	0.910	0.280	1
Total PCDF	930		943	pg/g	0.910	0.251	1
Toxic Equivalency (TEQ)	34.5			pg/g	0.003	0.003	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-09
 Client ID: USMPDI-056SC-A-05-06-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	57		24-169
13C12-2,3,7,8-TCDD	56		25-164
13C12-1,2,3,7,8-PeCDF	60		24-185
13C12-2,3,4,7,8-PeCDF	59		21-178
13C12-1,2,3,7,8-PeCDD	62		25-181
13C12-1,2,3,4,7,8-HxCDF	66		26-152
13C12-1,2,3,6,7,8-HxCDF	57		26-123
13C12-2,3,4,6,7,8-HxCDF	58		28-136
13C12-1,2,3,7,8,9-HxCDF	57		29-147
13C12-1,2,3,4,7,8-HxCDD	62		32-141
13C12-1,2,3,6,7,8-HxCDD	64		28-130
13C12-1,2,3,4,6,7,8-HpCDF	54		28-143
13C12-1,2,3,4,7,8,9-HpCDF	54		26-138
13C12-1,2,3,4,6,7,8-HpCDD	64		23-140
13C12-OCDD	61		17-157
37CL4-2,3,7,8-TCDD	106		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-10
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/08/22 18:54
 Analyst: PB
 Percent Solids: 76%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/04/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.639	0.197	1
1,2,3,7,8-PeCDD	ND			pg/g	3.20	0.469	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.20	0.705	1
1,2,3,6,7,8-HxCDD	1.76	J		pg/g	3.20	0.548	1
1,2,3,7,8,9-HxCDD	1.98	J		pg/g	3.20	0.489	1
1,2,3,4,6,7,8-HpCDD	32.8			pg/g	3.20	0.346	1
OCDD	336			pg/g	6.39	0.677	1
2,3,7,8-TCDF	2.63			pg/g	0.639	0.176	1
1,2,3,7,8-PeCDF	3.09	J		pg/g	3.20	0.383	1
2,3,4,7,8-PeCDF	2.40	J		pg/g	3.20	0.321	1
1,2,3,4,7,8-HxCDF	5.46			pg/g	3.20	0.409	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.20	0.447	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.20	0.363	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.20	0.388	1
1,2,3,4,6,7,8-HpCDF	6.67			pg/g	3.20	0.506	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.20	0.350	1
OCDF	10.7			pg/g	6.39	1.08	1
Total TCDD	132			pg/g	0.639	0.197	1
Total PeCDD	42.3			pg/g	3.20	0.469	1
Total HxCDD	83.8			pg/g	3.20	0.705	1
Total HpCDD	109			pg/g	3.20	0.346	1
Total TCDF	6.76			pg/g	0.639	0.176	1
Total PeCDF	ND			pg/g	3.20	0.383	1
Total HxCDF	5.25			pg/g	3.20	0.409	1
Total HpCDF	14.1			pg/g	3.20	0.506	1
Total PCDD	703			pg/g	0.639	0.197	1
Total PCDF	36.8			pg/g	0.639	0.176	1
Toxic Equivalency (TEQ)	1.31			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-10
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	52		24-169
13C12-2,3,7,8-TCDD	52		25-164
13C12-1,2,3,7,8-PeCDF	50		24-185
13C12-2,3,4,7,8-PeCDF	52		21-178
13C12-1,2,3,7,8-PeCDD	56		25-181
13C12-1,2,3,4,7,8-HxCDF	68		26-152
13C12-1,2,3,6,7,8-HxCDF	64		26-123
13C12-2,3,4,6,7,8-HxCDF	61		28-136
13C12-1,2,3,7,8,9-HxCDF	58		29-147
13C12-1,2,3,4,7,8-HxCDD	58		32-141
13C12-1,2,3,6,7,8-HxCDD	63		28-130
13C12-1,2,3,4,6,7,8-HpCDF	54		28-143
13C12-1,2,3,4,7,8,9-HpCDF	49		26-138
13C12-1,2,3,4,6,7,8-HpCDD	56		23-140
13C12-OCDD	47		17-157
37CL4-2,3,7,8-TCDD	88		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-11
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/09/22 08:05
 Analyst: PB
 Percent Solids: 65%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/07/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	0.755			pg/g	0.755	0.233	1
1,2,3,7,8-PeCDD	1.74	J		pg/g	3.78	0.554	1
1,2,3,4,7,8-HxCDD	1.62	J		pg/g	3.78	0.834	1
1,2,3,6,7,8-HxCDD	7.68			pg/g	3.78	0.648	1
1,2,3,7,8,9-HxCDD	3.08	J		pg/g	3.78	0.579	1
1,2,3,4,6,7,8-HpCDD	234			pg/g	3.78	0.409	1
OCDD	2780			pg/g	7.55	0.801	1
2,3,7,8-TCDF	16.9			pg/g	0.755	0.208	1
1,2,3,7,8-PeCDF	27.2			pg/g	3.78	0.453	1
2,3,4,7,8-PeCDF	12.0			pg/g	3.78	0.379	1
1,2,3,4,7,8-HxCDF	45.9			pg/g	3.78	0.483	1
1,2,3,6,7,8-HxCDF	14.3			pg/g	3.78	0.529	1
1,2,3,7,8,9-HxCDF	6.77			pg/g	3.78	0.429	1
2,3,4,6,7,8-HxCDF	6.77			pg/g	3.78	0.459	1
1,2,3,4,6,7,8-HpCDF	111			pg/g	3.78	0.598	1
1,2,3,4,7,8,9-HpCDF	10.5			pg/g	3.78	0.414	1
OCDF	146			pg/g	7.55	1.28	1
Total TCDD	3.90		4.65	pg/g	0.755	0.233	1
Total PeCDD	3.79			pg/g	3.78	0.554	1
Total HxCDD	59.4			pg/g	3.78	0.834	1
Total HpCDD	509			pg/g	3.78	0.409	1
Total TCDF	84.9		85.8	pg/g	0.755	0.208	1
Total PeCDF	121			pg/g	3.78	0.453	1
Total HxCDF	152			pg/g	3.78	0.483	1
Total HpCDF	255			pg/g	3.78	0.598	1
Total PCDD	3360		3360	pg/g	0.755	0.233	1
Total PCDF	759		760	pg/g	0.755	0.208	1
Toxic Equivalency (TEQ)	19.4			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-11
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	67		24-169
13C12-2,3,7,8-TCDD	67		25-164
13C12-1,2,3,7,8-PeCDF	71		24-185
13C12-2,3,4,7,8-PeCDF	72		21-178
13C12-1,2,3,7,8-PeCDD	72		25-181
13C12-1,2,3,4,7,8-HxCDF	75		26-152
13C12-1,2,3,6,7,8-HxCDF	69		26-123
13C12-2,3,4,6,7,8-HxCDF	73		28-136
13C12-1,2,3,7,8,9-HxCDF	71		29-147
13C12-1,2,3,4,7,8-HxCDD	74		32-141
13C12-1,2,3,6,7,8-HxCDD	76		28-130
13C12-1,2,3,4,6,7,8-HpCDF	65		28-143
13C12-1,2,3,4,7,8,9-HpCDF	69		26-138
13C12-1,2,3,4,6,7,8-HpCDD	75		23-140
13C12-OCDD	69		17-157
37CL4-2,3,7,8-TCDD	95		35-197

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-12
 Client ID: USMPDI-004SC-A-06-07-201111
 Sample Location: Not Specified

Date Collected: 11/09/21 10:57
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 132,1613B
 Analytical Date: 02/09/22 09:05
 Analyst: PB
 Percent Solids: 61%

Extraction Method: EPA 8290A
 Extraction Date: 02/01/22 16:02
 Cleanup Method: EPA 1613B
 Cleanup Date: 02/07/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab							
2,3,7,8-TCDD	ND			pg/g	0.803	0.247	1
1,2,3,7,8-PeCDD	ND			pg/g	4.01	0.589	1
1,2,3,4,7,8-HxCDD	ND			pg/g	4.01	0.886	1
1,2,3,6,7,8-HxCDD	ND			pg/g	4.01	0.689	1
1,2,3,7,8,9-HxCDD	ND			pg/g	4.01	0.615	1
1,2,3,4,6,7,8-HpCDD	2.95	J		pg/g	4.01	0.435	1
OCDD	28.7			pg/g	8.03	0.851	1
2,3,7,8-TCDF	ND			pg/g	0.803	0.222	1
1,2,3,7,8-PeCDF	ND			pg/g	4.01	0.482	1
2,3,4,7,8-PeCDF	ND			pg/g	4.01	0.403	1
1,2,3,4,7,8-HxCDF	ND			pg/g	4.01	0.514	1
1,2,3,6,7,8-HxCDF	ND			pg/g	4.01	0.562	1
1,2,3,7,8,9-HxCDF	ND			pg/g	4.01	0.456	1
2,3,4,6,7,8-HxCDF	ND			pg/g	4.01	0.488	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	4.01	0.636	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	4.01	0.440	1
OCDF	ND			pg/g	8.03	1.36	1
Total TCDD	ND			pg/g	0.803	0.247	1
Total PeCDD	ND			pg/g	4.01	0.589	1
Total HxCDD	ND			pg/g	4.01	0.886	1
Total HpCDD	4.11			pg/g	4.01	0.435	1
Total TCDF	0.803			pg/g	0.803	0.222	1
Total PeCDF	ND			pg/g	4.01	0.482	1
Total HxCDF	ND			pg/g	4.01	0.514	1
Total HpCDF	ND			pg/g	4.01	0.636	1
Total PCDD	32.8			pg/g	0.803	0.247	1
Total PCDF	0.803			pg/g	0.803	0.222	1
Toxic Equivalency (TEQ)	0.009			pg/g	0.002	0.002	1

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-12
 Client ID: USMPDI-004SC-A-06-07-201111
 Sample Location: Not Specified

Date Collected: 11/09/21 10:57
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	67		24-169
13C12-2,3,7,8-TCDD	60		25-164
13C12-1,2,3,7,8-PeCDF	56		24-185
13C12-2,3,4,7,8-PeCDF	60		21-178
13C12-1,2,3,7,8-PeCDD	61		25-181
13C12-1,2,3,4,7,8-HxCDF	76		26-152
13C12-1,2,3,6,7,8-HxCDF	72		26-123
13C12-2,3,4,6,7,8-HxCDF	74		28-136
13C12-1,2,3,7,8,9-HxCDF	66		29-147
13C12-1,2,3,4,7,8-HxCDD	63		32-141
13C12-1,2,3,6,7,8-HxCDD	66		28-130
13C12-1,2,3,4,6,7,8-HpCDF	59		28-143
13C12-1,2,3,4,7,8,9-HpCDF	54		26-138
13C12-1,2,3,4,6,7,8-HpCDD	61		23-140
13C12-OCDD	44		17-157
37CL4-2,3,7,8-TCDD	98		35-197

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 132,1613B
Analytical Date: 02/07/22 20:06
Analyst: PB

Extraction Method: EPA 8290A
Extraction Date: 02/01/22 16:02
Cleanup Method: EPA 1613B
Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01-12 Batch: WG1600060-1						
2,3,7,8-TCDD	ND			pg/g	0.500	0.154
1,2,3,7,8-PeCDD	ND			pg/g	2.50	0.367
1,2,3,4,7,8-HxCDD	ND			pg/g	2.50	0.552
1,2,3,6,7,8-HxCDD	ND			pg/g	2.50	0.429
1,2,3,7,8,9-HxCDD	ND			pg/g	2.50	0.383
1,2,3,4,6,7,8-HpCDD	ND			pg/g	2.50	0.271
OCDD	ND			pg/g	5.00	0.530
2,3,7,8-TCDF	ND			pg/g	0.500	0.138
1,2,3,7,8-PeCDF	ND			pg/g	2.50	0.300
2,3,4,7,8-PeCDF	ND			pg/g	2.50	0.251
1,2,3,4,7,8-HxCDF	ND			pg/g	2.50	0.320
1,2,3,6,7,8-HxCDF	ND			pg/g	2.50	0.350
1,2,3,7,8,9-HxCDF	ND			pg/g	2.50	0.284
2,3,4,6,7,8-HxCDF	ND			pg/g	2.50	0.304
1,2,3,4,6,7,8-HpCDF	ND			pg/g	2.50	0.396
1,2,3,4,7,8,9-HpCDF	ND			pg/g	2.50	0.274
OCDF	ND			pg/g	5.00	0.845
Total TCDD	ND			pg/g	0.500	0.154
Total PeCDD	ND			pg/g	2.50	0.367
Total HxCDD	ND			pg/g	2.50	0.552
Total HpCDD	ND			pg/g	2.50	0.271
Total TCDF	ND			pg/g	0.500	0.138
Total PeCDF	ND			pg/g	2.50	0.300
Total HxCDF	ND			pg/g	2.50	0.320
Total HpCDF	ND			pg/g	2.50	0.396
Total PCDD	ND			pg/g	0.500	0.154
Total PCDF	ND			pg/g	0.500	0.138
Toxic Equivalency (TEQ)	ND			pg/g	0.002	0.002

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 132,1613B
Analytical Date: 02/07/22 20:06
Analyst: PB

Extraction Method: EPA 8290A
Extraction Date: 02/01/22 16:02
Cleanup Method: EPA 1613B
Cleanup Date: 02/03/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01-12 Batch: WG1600060-1						

Surrogate/Cleanup Standard	%Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	82		24-169
13C12-2,3,7,8-TCDD	76		25-164
13C12-1,2,3,7,8-PeCDF	62		24-185
13C12-2,3,4,7,8-PeCDF	62		21-178
13C12-1,2,3,7,8-PeCDD	66		25-181
13C12-1,2,3,4,7,8-HxCDF	74		26-152
13C12-1,2,3,6,7,8-HxCDF	75		26-123
13C12-2,3,4,6,7,8-HxCDF	76		28-136
13C12-1,2,3,7,8,9-HxCDF	91		29-147
13C12-1,2,3,4,7,8-HxCDD	67		32-141
13C12-1,2,3,6,7,8-HxCDD	79		28-130
13C12-1,2,3,4,6,7,8-HpCDF	75		28-143
13C12-1,2,3,4,7,8,9-HpCDF	68		26-138
13C12-1,2,3,4,6,7,8-HpCDD	79		23-140
13C12-OCDD	56		17-157
37CL4-2,3,7,8-TCDD	84		35-197

Lab Control Sample Analysis

Batch Quality Control

Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2202953

Report Date: 02/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01-12 Batch: WG1600060-2								
2,3,7,8-TCDD	103		-		67-158	-		25
1,2,3,7,8-PeCDD	101		-		70-142	-		25
1,2,3,4,7,8-HxCDD	105		-		70-164	-		25
1,2,3,6,7,8-HxCDD	107		-		76-134	-		25
1,2,3,7,8,9-HxCDD	109		-		64-162	-		25
1,2,3,4,6,7,8-HpCDD	101		-		70-140	-		25
OCDD	112		-		78-144	-		25
2,3,7,8-TCDF	105		-		75-158	-		25
1,2,3,7,8-PeCDF	99		-		80-134	-		25
2,3,4,7,8-PeCDF	90		-		68-160	-		25
1,2,3,4,7,8-HxCDF	106		-		72-134	-		25
1,2,3,6,7,8-HxCDF	102		-		84-130	-		25
1,2,3,7,8,9-HxCDF	110		-		78-130	-		25
2,3,4,6,7,8-HxCDF	101		-		70-156	-		25
1,2,3,4,6,7,8-HpCDF	110		-		82-122	-		25
1,2,3,4,7,8,9-HpCDF	111		-		78-138	-		25
OCDF	119		-		63-170	-		25

Lab Control Sample Analysis Batch Quality Control

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01-12 Batch: WG1600060-2								

<i>Surrogate/Cleanup Standard</i>	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDF	76				24-169
13C12-2,3,7,8-TCDD	94				25-164
13C12-1,2,3,7,8-PeCDF	76				24-185
13C12-2,3,4,7,8-PeCDF	73				21-178
13C12-1,2,3,7,8-PeCDD	77				25-181
13C12-1,2,3,4,7,8-HxCDF	95				26-152
13C12-1,2,3,6,7,8-HxCDF	95				26-123
13C12-2,3,4,6,7,8-HxCDF	85				28-136
13C12-1,2,3,7,8,9-HxCDF	77				29-147
13C12-1,2,3,4,7,8-HxCDD	85				32-141
13C12-1,2,3,6,7,8-HxCDD	85				28-130
13C12-1,2,3,4,6,7,8-HpCDF	78				28-143
13C12-1,2,3,4,7,8,9-HpCDF	73				26-138
13C12-1,2,3,4,6,7,8-HpCDD	83				23-140
13C12-OCDD	70				17-157
37CL4-2,3,7,8-TCDD	107				35-197

INORGANICS & MISCELLANEOUS

Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-01

Date Collected: 11/09/20 14:55

Client ID: USMPDI-014SC-A-14-15-201109

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	66.4		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-02

Date Collected: 11/09/20 14:55

Client ID: USMPDI-014SC-A-15-16-201109

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	67.9		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-03

Date Collected: 04/29/20 09:45

Client ID: USMPDI-017SC-A-16-17-210429

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	68.6		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-04

Date Collected: 05/04/20 08:50

Client ID: USMPDI-028SC-A-05-6.3-210504

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	58.8		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-05

Date Collected: 11/03/20 16:30

Client ID: USMPDI-040SC-A-09-10-201103

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	66.8		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-06

Date Collected: 11/04/20 08:45

Client ID: USMPDI-044SC-A-15-16-201104

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	62.3		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2202953

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-07

Client ID: USMPDI-044SC-A-16-17-201104

Sample Location: Not Specified

Date Collected: 11/04/20 08:45

Date Received: 11/05/21

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	69.0		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-08

Date Collected: 10/30/20 09:30

Client ID: USMPDI-047SC-A-05-06-201030

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	85.4		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-09

Date Collected: 11/07/20 13:30

Client ID: USMPDI-056SC-A-05-06-201107

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	54.2		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-10

Date Collected: 11/07/20 13:30

Client ID: USMPDI-056SC-A-06-07-201107

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	75.6		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-11

Date Collected: 11/11/20 08:35

Client ID: USMPDI-004SC-A-05-06-201111

Date Received: 11/10/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	64.7		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2202953

Project Number: 000029-02

Report Date: 02/09/22

SAMPLE RESULTS

Lab ID: L2202953-12

Date Collected: 11/09/21 10:57

Client ID: USMPDI-004SC-A-06-07-201111

Date Received: 11/10/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	61.0		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Lab Duplicate Analysis
Batch Quality Control

Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2202953

Report Date: 02/09/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1571375-1 QC Sample: L2161586-01 Client ID: DUP Sample						
Solids, Total	65.3	67.6	%	3		10

Project Name: US MOORINGS**Lab Number:** L2202953**Project Number:** 000029-02**Report Date:** 02/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2202953-01A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-01X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-02A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-02X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-03A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-03X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-04A	Glass 500ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-04X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-05A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-05X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-06A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-06X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-07A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-07X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-08A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-08X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-09A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-09X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-10A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-DIOXIN-1613(365)
L2202953-10X	Glass 60ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ARCHIVE()
L2202953-11A	Glass 250ml/8oz unpreserved	B	NA		2.4	Y	Absent		A2-DIOXIN-1613(365)
L2202953-11X	Glass 60ml unpreserved split	B	NA		2.4	Y	Absent		A2-ARCHIVE()

Project Name: US MOORINGS

Project Number: 000029-02

Serial_No:02092217:44

Lab Number: L2202953

Report Date: 02/09/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2202953-12A	Glass 250ml/8oz unpreserved	B	NA		2.4	Y	Absent		A2-DIOXIN-1613(365)
L2202953-12X	Glass 60ml unpreserved split	B	NA		2.4	Y	Absent		A2-ARCHIVE()

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2202953
Report Date: 02/09/22

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 132 Method 1613 Revision B: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS. USEPA Office of Water, October 1994.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SUBCONTRACT ORDER

~~L2161038~~

Apex Laboratories

A1K0116

15

SENDING LABORATORY:

RECEIVING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

Analytical Resources, INC
4611 S. 134th Place
Tukwila, WA 98168
Phone: (206) 695-6200
Fax: (206) 695-6201

01 * Sample Name: A1K0116-01 / Sedimen / Copy/relog of A0K0402-31 / Sampled: 11/09/20 14:55 / 14SC-A-14-15-201109)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

02 * Sample Name: A1K0116-02 / Sedimen / Copy/relog of A0K0402-32 / Sampled: 11/09/20 14:55 / 14SC-A-15-16-201109)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

03 * Sample Name: A1K0116-03 / Sedimen / Copy/relog of A1D1275-17 / Sampled: 04/29/20 09:45 / 17SC-A-16-17-210429)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/13/20 09:45	ARI Frozen 5/3/21 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

04 * Sample Name: A1K0116-04 / Sedimen / Copy/relog of A1E0179-06 / Sampled: 05/04/21 08:50 / 8SC-A-05-6.3-210504)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/18/21 08:50	ARI Frozen 5/5/21 Thawed 11/3/21
Containers Supplied: (1A) 8 oz Glass Jar			

* Samples placed in frozen storage 11/4/2021 SLF

Released By: *Hannah Surrup* 11/3/21

UPS (Shipper)

Released By: *Jacob Walte* 11/04/2021 1400

Received By: *Jacob Walte* 11/04/2021 1102

Released By: *Jacob Walte* 11/04/2021 1400

Received By: *[Signature]* 11/5/21 1042

SUBCONTRACT ORDER
 Apex Laboratories
 A1K0116

~~L2161038~~

05

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/17/20 16:30	ARI Frozen 11/5/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

06

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/10/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

07

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/10/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

08

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/13/20 09:30	ARI Frozen 10/31/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

09

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/19/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

10

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/12/20 Thawed 11/3/21

Containers Supplied:
 (A) 8 oz Glass Jar

Annalee Struggs 11/3/21
 Released By Date
 UPS (Shipper)
 Received By Date
 Jacob Walte 11/04/2021 1102
 Received By Date
 11/5/21 1042

SUBCONTRACT ORDER

Apex Laboratories

A1K0354

L2202953

~~L2161035~~

8

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

-11
Sample Name: USMPDI-004SC-A-05-06-201111 SE Copy/relog of A0K0538-22 Sampled: 11/11/20 08:35 AKK Nam (A1K0354-01)

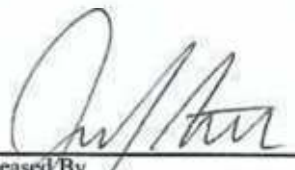

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/25/20 08:35	

-12
Sample Name: USMPDI-004SC-A-06-07-201111 SE Copy/relog of A0K0538-23 Sampled: 11/09/21 10:57 (A1K0354-02)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/23/21 10:57	

Standard TAT

Samples frozen 11/13/20
thawed 11/8/21

Released By:  Date: 11/9/21
 Received By: UPS (Shipper) Date: 11/10/21 11:26
 Released By: UPS (Shipper) Date: _____
 Received By:  Date: _____

SUBCONTRACT ORDER

Apex Laboratories
A1K0354

~~L2161035~~

L2202953 kb 01/19/22

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

Sample Name: USMPDI-004SC-A-05-06-201111 SE Copy/relog of A0K0538-22 Sampled: 11/11/20 08:35 (A1K0354-01) *AKK Wiam*

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List <i>Containers Supplied: (A)8 oz Glass Jar</i>	11/22/21 17:00	11/25/20 08:35	

Sample Name: USMPDI-004SC-A-06-07-201111 SE Copy/relog of A0K0538-23 Sampled: 11/09/21 10:57 (A1K0354-02)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List <i>Containers Supplied: (A)8 oz Glass Jar</i>	11/22/21 17:00	11/23/21 10:57	

Standard TAT

Samples frozen 11/13/20

thawed 11/8/21

[Signature] 11/9/21

Released By UPS (Shipper)

UPS (Shipper)

Received By _____ Date _____

[Signature] 11/10/21 11:26

Released By _____ Date _____ Received By _____ Date _____

PHILIP NERENBERG 5037182323 APEX LABORATORIES LLC 6700 SW SANDBURG ST. TIGARD OR 97223		25 LBS DWT: 18.16,13	1 OF 1
SHIP TO: RECEIVING 5088229300 ALPHA ANALYTICAL, INC. 320 FORBES BOULEVARD MANSFIELD MA 02048			
	MA 024 9-02 		
UPS NEXT DAY AIR TRACKING #: 1Z X47 20R 01 9250 4915			1
			
BILLING: P/P			
Reference No.1: Sub			
<small>XOL 21-11.05 NV45 40.0A 11/2021*</small>			

Alpha Summary Forms

Organic Summary Forms

Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-01
 Client ID : USMPDI-014SC-A-14-15-201109
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_15_seq
 Sample Amount : 10.27 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/09/20 14:55
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 01:27
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 66
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.733	0.226	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.67	0.538	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.67	0.809	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		3.67	0.629	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		3.67	0.562	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1.50		3.67	0.397	J
3268-87-9	OCDD	12.2		7.33	0.777	
51207-31-9	2,3,7,8-TCDF	ND		0.733	0.202	U
57117-41-6	1,2,3,7,8-PeCDF	ND		3.67	0.440	U
57117-31-4	2,3,4,7,8-PeCDF	ND		3.67	0.368	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		3.67	0.469	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.67	0.513	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.67	0.416	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.67	0.446	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		3.67	0.581	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.67	0.402	U
39001-02-0	OCDF	ND		7.33	1.24	U
41903-57-5	Total TCDD	ND		0.733	0.226	U
36088-22-9	Total PeCDD	ND		3.67	0.538	U
34465-46-8	Total HxCDD	ND		3.67	0.809	U
37871-00-4	Total HpCDD	ND		3.67	0.397	U
55722-27-5	Total TCDF	ND		0.733	0.202	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-01	Date Collected : 11/09/20 14:55
Client ID : USMPDI-014SC-A-14-15-201109	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 01:27
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_15_seq	Analyst : PB
Sample Amount : 10.27 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 66
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		3.67	0.440	U
55684-94-1	Total HxCDF	ND		3.67	0.469	U
38998-75-3	Total HpCDF	ND		3.67	0.581	U
NONE	Total PCDD	12.2		0.733	0.226	
NONE	Total PCDF	ND		0.733	0.202	U
NONE	Toxic Equivalency (TEQ)	0.004		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-02
 Client ID : USMPDI-014SC-A-15-16-201109
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_17_seq
 Sample Amount : 10.35 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/09/20 14:55
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 02:38
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 68
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.711	0.219	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.56	0.522	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.56	0.785	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		3.56	0.610	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		3.56	0.545	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1.27		3.56	0.386	J
3268-87-9	OCDD	9.11		7.11	0.754	
51207-31-9	2,3,7,8-TCDF	ND		0.711	0.196	U
57117-41-6	1,2,3,7,8-PeCDF	ND		3.56	0.427	U
57117-31-4	2,3,4,7,8-PeCDF	ND		3.56	0.357	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		3.56	0.455	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.56	0.498	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.56	0.404	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.56	0.432	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		3.56	0.563	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.56	0.390	U
39001-02-0	OCDF	ND		7.11	1.20	U
41903-57-5	Total TCDD	ND		0.711	0.219	U
36088-22-9	Total PeCDD	ND		3.56	0.522	U
34465-46-8	Total HxCDD	ND		3.56	0.785	U
37871-00-4	Total HpCDD	ND		3.56	0.386	U
55722-27-5	Total TCDF	ND		0.711	0.196	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-02	Date Collected : 11/09/20 14:55
Client ID : USMPDI-014SC-A-15-16-201109	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 02:38
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_17_seq	Analyst : PB
Sample Amount : 10.35 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 68
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		3.56	0.427	U
55684-94-1	Total HxCDF	ND		3.56	0.455	U
38998-75-3	Total HpCDF	ND		3.56	0.563	U
NONE	Total PCDD	9.11		0.711	0.219	
NONE	Total PCDF	ND		0.711	0.196	U
NONE	Toxic Equivalency (TEQ)	0.003		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-03
 Client ID : USMPDI-017SC-A-16-17-210429
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_19_seq
 Sample Amount : 10.19 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 04/29/20 09:45
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 03:49
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 69
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.715	0.220	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.58	0.525	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.58	0.790	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		3.58	0.614	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		3.58	0.548	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	ND		3.58	0.388	U
3268-87-9	OCDD	6.72		7.15	0.758	J
51207-31-9	2,3,7,8-TCDF	ND		0.715	0.197	U
57117-41-6	1,2,3,7,8-PeCDF	ND		3.58	0.429	U
57117-31-4	2,3,4,7,8-PeCDF	ND		3.58	0.359	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		3.58	0.458	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.58	0.501	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.58	0.406	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.58	0.435	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		3.58	0.566	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.58	0.392	U
39001-02-0	OCDF	ND		7.15	1.21	U
41903-57-5	Total TCDD	ND		0.715	0.220	U
36088-22-9	Total PeCDD	ND		3.58	0.525	U
34465-46-8	Total HxCDD	ND		3.58	0.790	U
37871-00-4	Total HpCDD	ND		3.58	0.388	U
55722-27-5	Total TCDF	ND		0.715	0.197	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-03	Date Collected : 04/29/20 09:45
Client ID : USMPDI-017SC-A-16-17-210429	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 03:49
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_19_seq	Analyst : PB
Sample Amount : 10.19 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 69
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		3.58	0.429	U
55684-94-1	Total HxCDF	ND		3.58	0.458	U
38998-75-3	Total HpCDF	ND		3.58	0.566	U
NONE	Total PCDD	ND		0.715	0.220	U
NONE	Total PCDF	ND		0.715	0.197	U
NONE	Toxic Equivalency (TEQ)	ND		0.002	0.002	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-04
 Client ID : USMPDI-028SC-A-05-6.3-210504
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_21_seq
 Sample Amount : 10.28 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 05/04/20 08:50
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 05:01
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 59
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.827	0.255	U
40321-76-4	1,2,3,7,8-PeCDD	ND		4.14	0.607	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		4.14	0.913	U
57653-85-7	1,2,3,6,7,8-HxCDD	7.26		4.14	0.710	
19408-74-3	1,2,3,7,8,9-HxCDD	3.19		4.14	0.634	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	164		4.14	0.448	
3268-87-9	OCDD	3050		8.27	0.877	
51207-31-9	2,3,7,8-TCDF	25.1		0.827	0.228	
57117-41-6	1,2,3,7,8-PeCDF	65.8		4.14	0.496	
57117-31-4	2,3,4,7,8-PeCDF	28.1		4.14	0.415	
70648-26-9	1,2,3,4,7,8-HxCDF	115		4.14	0.529	
57117-44-9	1,2,3,6,7,8-HxCDF	39.8		4.14	0.579	
72918-21-9	1,2,3,7,8,9-HxCDF	11.3		4.14	0.470	
60851-34-5	2,3,4,6,7,8-HxCDF	10.3		4.14	0.503	
67562-39-4	1,2,3,4,6,7,8-HpCDF	95.9		4.14	0.655	
55673-89-7	1,2,3,4,7,8,9-HpCDF	25.4		4.14	0.453	
39001-02-0	OCDF	214		8.27	1.40	
41903-57-5	Total TCDD	1.12		0.827	0.255	
36088-22-9	Total PeCDD	ND		4.14	0.607	U
34465-46-8	Total HxCDD	57.0		4.14	0.913	
37871-00-4	Total HpCDD	387		4.14	0.448	
55722-27-5	Total TCDF	91.4		0.827	0.228	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-04	Date Collected : 05/04/20 08:50
Client ID : USMPDI-028SC-A-05-6.3-210504	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 05:01
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_21_seq	Analyst : PB
Sample Amount : 10.28 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 59
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL	
30402-15-4	Total PeCDF	156		4.14	0.496
55684-94-1	Total HxCDF	225		4.14	0.529
38998-75-3	Total HpCDF	239		4.14	0.655
NONE	Total PCDD	3500		0.827	0.255
NONE	Total PCDF	925		0.827	0.228
NONE	Toxic Equivalency (TEQ)	35.1		0.002	0.002



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-05
 Client ID : USMPDI-040SC-A-09-10-201103
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_23_seq
 Sample Amount : 10.53 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/03/20 16:30
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 06:12
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 67
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.711	0.219	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.55	0.522	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.55	0.785	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		3.55	0.610	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		3.55	0.544	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1.25		3.55	0.385	J
3268-87-9	OCDD	14.8		7.11	0.753	
51207-31-9	2,3,7,8-TCDF	ND		0.711	0.196	U
57117-41-6	1,2,3,7,8-PeCDF	ND		3.55	0.426	U
57117-31-4	2,3,4,7,8-PeCDF	ND		3.55	0.357	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		3.55	0.455	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.55	0.498	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.55	0.404	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.55	0.432	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		3.55	0.563	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.55	0.390	U
39001-02-0	OCDF	ND		7.11	1.20	U
41903-57-5	Total TCDD	ND		0.711	0.219	U
36088-22-9	Total PeCDD	ND		3.55	0.522	U
34465-46-8	Total HxCDD	ND		3.55	0.785	U
37871-00-4	Total HpCDD	ND		3.55	0.385	U
55722-27-5	Total TCDF	ND		0.711	0.196	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-05	Date Collected : 11/03/20 16:30
Client ID : USMPDI-040SC-A-09-10-201103	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 06:12
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_23_seq	Analyst : PB
Sample Amount : 10.53 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 67
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		3.55	0.426	U
55684-94-1	Total HxCDF	ND		3.55	0.455	U
38998-75-3	Total HpCDF	ND		3.55	0.563	U
NONE	Total PCDD	14.8		0.711	0.219	
NONE	Total PCDF	ND		0.711	0.196	U
NONE	Toxic Equivalency (TEQ)	0.004		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-06
 Client ID : USMPDI-044SC-A-15-16-201104
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_34_seq
 Sample Amount : 10.49 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/04/20 08:45
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 16:07
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01B
 GC Column : RTX-Dioxin2
 %Solids : 62
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.765	0.236	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.82	0.562	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.82	0.845	U
57653-85-7	1,2,3,6,7,8-HxCDD	6.40		3.82	0.656	
19408-74-3	1,2,3,7,8,9-HxCDD	3.03		3.82	0.586	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	168		3.82	0.415	
3268-87-9	OCDD	2220		7.65	0.811	
51207-31-9	2,3,7,8-TCDF	8.23		0.765	0.211	
57117-41-6	1,2,3,7,8-PeCDF	8.98		3.82	0.459	
57117-31-4	2,3,4,7,8-PeCDF	7.99		3.82	0.384	
70648-26-9	1,2,3,4,7,8-HxCDF	16.6		3.82	0.490	
57117-44-9	1,2,3,6,7,8-HxCDF	9.56		3.82	0.536	
72918-21-9	1,2,3,7,8,9-HxCDF	3.14		3.82	0.434	J
60851-34-5	2,3,4,6,7,8-HxCDF	4.79		3.82	0.465	
67562-39-4	1,2,3,4,6,7,8-HpCDF	70.3		3.82	0.606	
55673-89-7	1,2,3,4,7,8,9-HpCDF	6.99		3.82	0.419	
39001-02-0	OCDF	158		7.65	1.29	
41903-57-5	Total TCDD	7.31		0.765	0.236	
36088-22-9	Total PeCDD	ND		3.82	0.562	U
34465-46-8	Total HxCDD	50.5		3.82	0.845	
37871-00-4	Total HpCDD	409		3.82	0.415	
55722-27-5	Total TCDF	59.8		0.765	0.211	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-06	Date Collected : 11/04/20 08:45
Client ID : USMPDI-044SC-A-15-16-201104	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 16:07
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_34_seq	Analyst : PB
Sample Amount : 10.49 g	Instrument ID : HRMS01B
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 62
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL	
30402-15-4	Total PeCDF	65.9		3.82	0.459
55684-94-1	Total HxCDF	85.1		3.82	0.490
38998-75-3	Total HpCDF	181		3.82	0.606
NONE	Total PCDD	2690		0.765	0.236
NONE	Total PCDF	550		0.765	0.211
NONE	Toxic Equivalency (TEQ)	10.4		0.002	0.002



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-07
 Client ID : USMPDI-044SC-A-16-17-201104
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_35_seq
 Sample Amount : 10.4 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/04/20 08:45
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 17:07
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 69
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.697	0.215	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.48	0.511	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.48	0.769	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		3.48	0.598	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		3.48	0.534	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	22.5		3.48	0.378	
3268-87-9	OCDD	202		6.97	0.738	
51207-31-9	2,3,7,8-TCDF	ND	1.42	0.697	0.192	U
57117-41-6	1,2,3,7,8-PeCDF	3.51		3.48	0.418	
57117-31-4	2,3,4,7,8-PeCDF	ND		3.48	0.350	U
70648-26-9	1,2,3,4,7,8-HxCDF	6.12		3.48	0.446	
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.48	0.488	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.48	0.396	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.48	0.424	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	6.56		3.48	0.552	
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.48	0.382	U
39001-02-0	OCDF	12.6		6.97	1.18	
41903-57-5	Total TCDD	ND	0.878	0.697	0.215	U
36088-22-9	Total PeCDD	ND		3.48	0.511	U
34465-46-8	Total HxCDD	ND		3.48	0.769	U
37871-00-4	Total HpCDD	49.8		3.48	0.378	
55722-27-5	Total TCDF	3.95	6.19	0.697	0.192	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-07
 Client ID : USMPDI-044SC-A-16-17-201104
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_35_seq
 Sample Amount : 10.4 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/04/20 08:45
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 17:07
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 69
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g				Qualifier
		Results	EMPC	RL	MDL	
30402-15-4	Total PeCDF	ND		3.48	0.418	U
55684-94-1	Total HxCDF	6.01		3.48	0.446	
38998-75-3	Total HpCDF	14.5		3.48	0.552	
NONE	Total PCDD	252	258	0.697	0.215	
NONE	Total PCDF	37.1	39.3	0.697	0.192	
NONE	Toxic Equivalency (TEQ)	1.07		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-08
 Client ID : USMPDI-047SC-A-05-06-201030
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_36_seq
 Sample Amount : 10.21 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 10/30/20 09:30
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 17:42
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01B
 GC Column : RTX-Dioxin2
 %Solids : 85
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL MDL	
1746-01-6	2,3,7,8-TCDD	ND		0.573 0.177	U
40321-76-4	1,2,3,7,8-PeCDD	ND		2.87 0.421	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		2.87 0.633	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		2.87 0.492	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		2.87 0.439	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	3.13		2.87 0.311	
3268-87-9	OCDD	42.9		5.73 0.608	
51207-31-9	2,3,7,8-TCDF	0.975		0.573 0.158	
57117-41-6	1,2,3,7,8-PeCDF	3.43		2.87 0.344	
57117-31-4	2,3,4,7,8-PeCDF	1.55		2.87 0.288	J
70648-26-9	1,2,3,4,7,8-HxCDF	9.66		2.87 0.367	
57117-44-9	1,2,3,6,7,8-HxCDF	2.41		2.87 0.401	J
72918-21-9	1,2,3,7,8,9-HxCDF	ND		2.87 0.326	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		2.87 0.349	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	4.22		2.87 0.454	
55673-89-7	1,2,3,4,7,8,9-HpCDF	1.72		2.87 0.314	J
39001-02-0	OCDF	5.83		5.73 0.969	
41903-57-5	Total TCDD	ND		0.573 0.177	U
36088-22-9	Total PeCDD	ND		2.87 0.421	U
34465-46-8	Total HxCDD	ND		2.87 0.633	U
37871-00-4	Total HpCDD	7.84		2.87 0.311	
55722-27-5	Total TCDF	0.986	1.81	0.573 0.158	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-08	Date Collected : 10/30/20 09:30
Client ID : USMPDI-047SC-A-05-06-201030	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 17:42
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_36_seq	Analyst : PB
Sample Amount : 10.21 g	Instrument ID : HRMS01B
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 85
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL	
30402-15-4	Total PeCDF	3.37		2.87	0.344
55684-94-1	Total HxCDF	9.31		2.87	0.367
38998-75-3	Total HpCDF	4.34		2.87	0.454
NONE	Total PCDD	50.7		0.573	0.177
NONE	Total PCDF	23.8	34.0	0.573	0.158
NONE	Toxic Equivalency (TEQ)	1.25		0.002	0.002



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-09
 Client ID : USMPDI-056SC-A-05-06-201107
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_37_seq
 Sample Amount : 10.14 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/07/20 13:30
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 18:19
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 54
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g				Qualifier
		Results	EMPC	RL	MDL	
1746-01-6	2,3,7,8-TCDD	ND	1.06	0.910	0.280	U
40321-76-4	1,2,3,7,8-PeCDD	3.09		4.55	0.668	J
39227-28-6	1,2,3,4,7,8-HxCDD	3.42		4.55	1.00	J
57653-85-7	1,2,3,6,7,8-HxCDD	25.7		4.55	0.780	
19408-74-3	1,2,3,7,8,9-HxCDD	10.3		4.55	0.697	
35822-46-9	1,2,3,4,6,7,8-HpCDD	418		4.55	0.493	
3268-87-9	OCDD	4240		9.10	0.964	
51207-31-9	2,3,7,8-TCDF	31.3		0.910	0.251	
57117-41-6	1,2,3,7,8-PeCDF	41.4		4.55	0.546	
57117-31-4	2,3,4,7,8-PeCDF	21.6		4.55	0.457	
70648-26-9	1,2,3,4,7,8-HxCDF	91.3		4.55	0.582	
57117-44-9	1,2,3,6,7,8-HxCDF	22.4		4.55	0.637	
72918-21-9	1,2,3,7,8,9-HxCDF	9.52		4.55	0.517	
60851-34-5	2,3,4,6,7,8-HxCDF	9.13		4.55	0.553	
67562-39-4	1,2,3,4,6,7,8-HpCDF	102		4.55	0.720	
55673-89-7	1,2,3,4,7,8,9-HpCDF	22.3		4.55	0.498	
39001-02-0	OCDF	216		9.10	1.54	
41903-57-5	Total TCDD	2.76	8.34	0.910	0.280	
36088-22-9	Total PeCDD	7.24		4.55	0.668	
34465-46-8	Total HxCDD	149		4.55	1.00	
37871-00-4	Total HpCDD	839		4.55	0.493	
55722-27-5	Total TCDF	111	116	0.910	0.251	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-09	Date Collected : 11/07/20 13:30
Client ID : USMPDI-056SC-A-05-06-201107	Date Received : 11/05/21
Sample Location :	Date Analyzed : 02/08/22 18:19
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_37_seq	Analyst : PB
Sample Amount : 10.14 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 54
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g				Qualifier
		Results	EMPC	RL	MDL	
30402-15-4	Total PeCDF	128		4.55	0.546	
55684-94-1	Total HxCDF	211		4.55	0.582	
38998-75-3	Total HpCDF	264		4.55	0.720	
NONE	Total PCDD	5240	5240	0.910	0.280	
NONE	Total PCDF	930	943	0.910	0.251	
NONE	Toxic Equivalency (TEQ)	34.5		0.003	0.003	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-10
 Client ID : USMPDI-056SC-A-06-07-201107
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_38_seq
 Sample Amount : 10.35 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/07/20 13:30
 Date Received : 11/05/21
 Date Analyzed : 02/08/22 18:54
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01B
 GC Column : RTX-Dioxin2
 %Solids : 76
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL MDL	
1746-01-6	2,3,7,8-TCDD	ND		0.639 0.197	U
40321-76-4	1,2,3,7,8-PeCDD	ND		3.20 0.469	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		3.20 0.705	U
57653-85-7	1,2,3,6,7,8-HxCDD	1.76		3.20 0.548	J
19408-74-3	1,2,3,7,8,9-HxCDD	1.98		3.20 0.489	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	32.8		3.20 0.346	
3268-87-9	OCDD	336		6.39 0.677	
51207-31-9	2,3,7,8-TCDF	2.63		0.639 0.176	
57117-41-6	1,2,3,7,8-PeCDF	3.09		3.20 0.383	J
57117-31-4	2,3,4,7,8-PeCDF	2.40		3.20 0.321	J
70648-26-9	1,2,3,4,7,8-HxCDF	5.46		3.20 0.409	
57117-44-9	1,2,3,6,7,8-HxCDF	ND		3.20 0.447	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		3.20 0.363	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		3.20 0.388	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	6.67		3.20 0.506	
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		3.20 0.350	U
39001-02-0	OCDF	10.7		6.39 1.08	
41903-57-5	Total TCDD	132		0.639 0.197	
36088-22-9	Total PeCDD	42.3		3.20 0.469	
34465-46-8	Total HxCDD	83.8		3.20 0.705	
37871-00-4	Total HpCDD	109		3.20 0.346	
55722-27-5	Total TCDF	6.76		0.639 0.176	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC Project Name : US MOORINGS Lab ID : L2202953-10 Client ID : USMPDI-056SC-A-06-07-201107 Sample Location : Sample Matrix : Sediment Analytical Method : 132,1613B Lab File ID : hrms01_220207_38_seq Sample Amount : 10.35 g Extraction Method : EPA 8290A Extract Volume : 4000 uL GPC Cleanup : N	Lab Number : L2202953 Project Number : 000029-02 Date Collected : 11/07/20 13:30 Date Received : 11/05/21 Date Analyzed : 02/08/22 18:54 Date Extracted : 02/01/22 Dilution Factor : 1 Analyst : PB Instrument ID : HRMS01B GC Column : RTX-Dioxin2 %Solids : 76 Injection Volume : 1 uL
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CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		3.20	0.383	U
55684-94-1	Total HxCDF	5.25		3.20	0.409	
38998-75-3	Total HpCDF	14.1		3.20	0.506	
NONE	Total PCDD	703		0.639	0.197	
NONE	Total PCDF	36.8		0.639	0.176	
NONE	Toxic Equivalency (TEQ)	1.31		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-11
 Client ID : USMPDI-004SC-A-05-06-201111
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_39_seq
 Sample Amount : 10.23 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/11/20 08:35
 Date Received : 11/10/21
 Date Analyzed : 02/09/22 08:05
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01A
 GC Column : RTX-Dioxin2
 %Solids : 65
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	0.755		0.755	0.233	
40321-76-4	1,2,3,7,8-PeCDD	1.74		3.78	0.554	J
39227-28-6	1,2,3,4,7,8-HxCDD	1.62		3.78	0.834	J
57653-85-7	1,2,3,6,7,8-HxCDD	7.68		3.78	0.648	
19408-74-3	1,2,3,7,8,9-HxCDD	3.08		3.78	0.579	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	234		3.78	0.409	
3268-87-9	OCDD	2780		7.55	0.801	
51207-31-9	2,3,7,8-TCDF	16.9		0.755	0.208	
57117-41-6	1,2,3,7,8-PeCDF	27.2		3.78	0.453	
57117-31-4	2,3,4,7,8-PeCDF	12.0		3.78	0.379	
70648-26-9	1,2,3,4,7,8-HxCDF	45.9		3.78	0.483	
57117-44-9	1,2,3,6,7,8-HxCDF	14.3		3.78	0.529	
72918-21-9	1,2,3,7,8,9-HxCDF	6.77		3.78	0.429	
60851-34-5	2,3,4,6,7,8-HxCDF	6.77		3.78	0.459	
67562-39-4	1,2,3,4,6,7,8-HpCDF	111		3.78	0.598	
55673-89-7	1,2,3,4,7,8,9-HpCDF	10.5		3.78	0.414	
39001-02-0	OCDF	146		7.55	1.28	
41903-57-5	Total TCDD	3.90	4.65	0.755	0.233	
36088-22-9	Total PeCDD	3.79		3.78	0.554	
34465-46-8	Total HxCDD	59.4		3.78	0.834	
37871-00-4	Total HpCDD	509		3.78	0.409	
55722-27-5	Total TCDF	84.9	85.8	0.755	0.208	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-11	Date Collected : 11/11/20 08:35
Client ID : USMPDI-004SC-A-05-06-201111	Date Received : 11/10/21
Sample Location :	Date Analyzed : 02/09/22 08:05
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_39_seq	Analyst : PB
Sample Amount : 10.23 g	Instrument ID : HRMS01A
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 65
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier
		Results	EMPC	RL	
30402-15-4	Total PeCDF	121		3.78	0.453
55684-94-1	Total HxCDF	152		3.78	0.483
38998-75-3	Total HpCDF	255		3.78	0.598
NONE	Total PCDD	3360	3360	0.755	0.233
NONE	Total PCDF	759	760	0.755	0.208
NONE	Toxic Equivalency (TEQ)	19.4		0.002	0.002



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : L2202953-12
 Client ID : USMPDI-004SC-A-06-07-201111
 Sample Location :
 Sample Matrix : Sediment
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_40_seq
 Sample Amount : 10.21 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : 11/09/21 10:57
 Date Received : 11/10/21
 Date Analyzed : 02/09/22 09:05
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01B
 GC Column : RTX-Dioxin2
 %Solids : 61
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
1746-01-6	2,3,7,8-TCDD	ND		0.803	0.247	U
40321-76-4	1,2,3,7,8-PeCDD	ND		4.01	0.589	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		4.01	0.886	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		4.01	0.689	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		4.01	0.615	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	2.95		4.01	0.435	J
3268-87-9	OCDD	28.7		8.03	0.851	
51207-31-9	2,3,7,8-TCDF	ND		0.803	0.222	U
57117-41-6	1,2,3,7,8-PeCDF	ND		4.01	0.482	U
57117-31-4	2,3,4,7,8-PeCDF	ND		4.01	0.403	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		4.01	0.514	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		4.01	0.562	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		4.01	0.456	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		4.01	0.488	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		4.01	0.636	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		4.01	0.440	U
39001-02-0	OCDF	ND		8.03	1.36	U
41903-57-5	Total TCDD	ND		0.803	0.247	U
36088-22-9	Total PeCDD	ND		4.01	0.589	U
34465-46-8	Total HxCDD	ND		4.01	0.886	U
37871-00-4	Total HpCDD	4.11		4.01	0.435	
55722-27-5	Total TCDF	0.803		0.803	0.222	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : L2202953-12	Date Collected : 11/09/21 10:57
Client ID : USMPDI-004SC-A-06-07-201111	Date Received : 11/10/21
Sample Location :	Date Analyzed : 02/09/22 09:05
Sample Matrix : Sediment	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_40_seq	Analyst : PB
Sample Amount : 10.21 g	Instrument ID : HRMS01B
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : 61
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		4.01	0.482	U
55684-94-1	Total HxCDF	ND		4.01	0.514	U
38998-75-3	Total HpCDF	ND		4.01	0.636	U
NONE	Total PCDD	32.8		0.803	0.247	
NONE	Total PCDF	0.803		0.803	0.222	
NONE	Toxic Equivalency (TEQ)	0.009		0.002	0.002	



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Lab ID : WG1600060-1
 Client ID : WG1600060-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 132,1613B
 Lab File ID : hrms01_220207_06_seq
 Sample Amount : 10 g
 Extraction Method : EPA 8290A
 Extract Volume : 4000 uL
 GPC Cleanup : N

Lab Number : L2202953
 Project Number : 000029-02
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/07/22 20:06
 Date Extracted : 02/01/22
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : HRMS01B
 GC Column : RTX-Dioxin2
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	pg/g				Qualifier
		Results	EMPC	RL	MDL	
1746-01-6	2,3,7,8-TCDD	ND		0.500	0.154	U
40321-76-4	1,2,3,7,8-PeCDD	ND		2.50	0.367	U
39227-28-6	1,2,3,4,7,8-HxCDD	ND		2.50	0.552	U
57653-85-7	1,2,3,6,7,8-HxCDD	ND		2.50	0.429	U
19408-74-3	1,2,3,7,8,9-HxCDD	ND		2.50	0.383	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	ND		2.50	0.271	U
3268-87-9	OCDD	ND		5.00	0.530	U
51207-31-9	2,3,7,8-TCDF	ND		0.500	0.138	U
57117-41-6	1,2,3,7,8-PeCDF	ND		2.50	0.300	U
57117-31-4	2,3,4,7,8-PeCDF	ND		2.50	0.251	U
70648-26-9	1,2,3,4,7,8-HxCDF	ND		2.50	0.320	U
57117-44-9	1,2,3,6,7,8-HxCDF	ND		2.50	0.350	U
72918-21-9	1,2,3,7,8,9-HxCDF	ND		2.50	0.284	U
60851-34-5	2,3,4,6,7,8-HxCDF	ND		2.50	0.304	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	ND		2.50	0.396	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	ND		2.50	0.274	U
39001-02-0	OCDF	ND		5.00	0.845	U
41903-57-5	Total TCDD	ND		0.500	0.154	U
36088-22-9	Total PeCDD	ND		2.50	0.367	U
34465-46-8	Total HxCDD	ND		2.50	0.552	U
37871-00-4	Total HpCDD	ND		2.50	0.271	U
55722-27-5	Total TCDF	ND		0.500	0.138	U



Results Summary
Form 1
Dioxins & Furans by Isotope Dilution HRMS

Client : Anchor QEA, LLC	Lab Number : L2202953
Project Name : US MOORINGS	Project Number : 000029-02
Lab ID : WG1600060-1	Date Collected : NA
Client ID : WG1600060-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 02/07/22 20:06
Sample Matrix : SOIL	Date Extracted : 02/01/22
Analytical Method : 132,1613B	Dilution Factor : 1
Lab File ID : hrms01_220207_06_seq	Analyst : PB
Sample Amount : 10 g	Instrument ID : HRMS01B
Extraction Method : EPA 8290A	GC Column : RTX-Dioxin2
Extract Volume : 4000 uL	%Solids : NA
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	pg/g			Qualifier	
		Results	EMPC	RL		MDL
30402-15-4	Total PeCDF	ND		2.50	0.300	U
55684-94-1	Total HxCDF	ND		2.50	0.320	U
38998-75-3	Total HpCDF	ND		2.50	0.396	U
NONE	Total PCDD	ND		0.500	0.154	U
NONE	Total PCDF	ND		0.500	0.138	U
NONE	Toxic Equivalency (TEQ)	ND		0.002	0.002	U



Surrogate Recovery Summary

Form 2

Semivolatiles

Client: Anchor QEA, LLC
Project Name: US MOORINGS

Lab Number: L2202953
Project Number: 000029-02
Matrix: Sediment

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
USMPDI-014SC-A-14-15-201109 (L2202953-01)	71	70	79	82	82	88	88
USMPDI-014SC-A-15-16-201109 (L2202953-02)	73	72	73	73	74	84	81
USMPDI-017SC-A-16-17-210429 (L2202953-03)	73	68	69	71	69	73	65
USMPDI-028SC-A-05-6.3-210504 (L2202953-04)	63	60	66	68	65	76	71
USMPDI-040SC-A-09-10-201103 (L2202953-05)	68	67	73	70	74	86	81
USMPDI-044SC-A-15-16-201104 (L2202953-06)	69	65	72	75	78	79	76
USMPDI-044SC-A-16-17-201104 (L2202953-07)	65	72	68	70	74	80	72
USMPDI-047SC-A-05-06-201030 (L2202953-08)	73	63	62	62	67	84	85
USMPDI-056SC-A-05-06-201107 (L2202953-09)	57	56	60	59	62	66	57
USMPDI-056SC-A-06-07-201107 (L2202953-10)	52	52	50	52	56	68	64
USMPDI-004SC-A-05-06-201111 (L2202953-11)	67	67	71	72	72	75	69
USMPDI-004SC-A-06-07-201111 (L2202953-12)	67	60	56	60	61	76	72
WG1600060-1BLANK	82	76	62	62	66	74	75
WG1600060-2LCS	76	94	76	73	77	95	95

QC LIMITS

- (24-169) S1 = 13C12-2,3,7,8-TCDF
- (25-164) S2 = 13C12-2,3,7,8-TCDD
- (24-185) S3 = 13C12-1,2,3,7,8-PECDF
- (21-178) S4 = 13C12-2,3,4,7,8-PECDF
- (25-181) S5 = 13C12-1,2,3,7,8-PECDD
- (26-152) S6 = 13C12-1,2,3,4,7,8-HXCDF
- (26-152) S7 = 13C12-1,2,3,6,7,8-HXCDF

* Values outside of QC limits

FORM II A2-DIOXIN-1613



Surrogate Recovery Summary

Form 2

Semivolatiles

Client: Anchor QEA, LLC
Project Name: US MOORINGS

Lab Number: L2202953
Project Number: 000029-02
Matrix: Sediment

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
USMPDI-014SC-A-14-15-201109 (L2202953-01)	83	82	84	83	74	64	80
USMPDI-014SC-A-15-16-201109 (L2202953-02)	75	79	81	87	75	73	82
USMPDI-017SC-A-16-17-210429 (L2202953-03)	81	78	79	82	72	69	79
USMPDI-028SC-A-05-6.3-210504 (L2202953-04)	67	72	70	76	60	68	77
USMPDI-040SC-A-09-10-201103 (L2202953-05)	78	71	77	86	82	71	85
USMPDI-044SC-A-15-16-201104 (L2202953-06)	78	74	72	75	71	68	73
USMPDI-044SC-A-16-17-201104 (L2202953-07)	74	73	77	77	67	69	79
USMPDI-047SC-A-05-06-201030 (L2202953-08)	78	75	72	74	68	63	72
USMPDI-056SC-A-05-06-201107 (L2202953-09)	58	57	62	64	54	54	64
USMPDI-056SC-A-06-07-201107 (L2202953-10)	61	58	58	63	54	49	56
USMPDI-004SC-A-05-06-201111 (L2202953-11)	73	71	74	76	65	69	75
USMPDI-004SC-A-06-07-201111 (L2202953-12)	74	66	63	66	59	54	61
WG1600060-1BLANK	76	91	67	79	75	68	79
WG1600060-2LCS	85	77	85	85	78	73	83

QC LIMITS

(28-136) S8 = 13C12-2,3,4,6,7,8-HXCDF
 (29-147) S9 = 13C12-1,2,3,7,8,9-HXCDF
 (32-141) S10 = 13C12-1,2,3,4,7,8-HXCDD
 (28-130) S11 = 13C12-1,2,3,6,7,8-HXCDD
 (28-143) S12 = 13C12-1,2,3,4,6,7,8-HPCDF
 (26-138) S13 = 13C12-1,2,3,4,7,8,9-HPCDF
 (26-138) S14 = 13C12-1,2,3,4,6,7,8-HPCDD

* Values outside of QC limits

FORM II A2-DIOXIN-1613 (Continued)



Surrogate Recovery Summary

Form 2

Semivolatiles

Client: Anchor QEA, LLC
Project Name: US MOORINGS

Lab Number: L2202953
Project Number: 000029-02
Matrix: Sediment

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()	TOT OUT
USMPDI-014SC-A-14-15-201109 (L2202953-01)	71	92	--	--	--	--	--	0
USMPDI-014SC-A-15-16-201109 (L2202953-02)	80	93	--	--	--	--	--	0
USMPDI-017SC-A-16-17-210429 (L2202953-03)	71	89	--	--	--	--	--	0
USMPDI-028SC-A-05-6.3-210504 (L2202953-04)	68	85	--	--	--	--	--	0
USMPDI-040SC-A-09-10-201103 (L2202953-05)	74	90	--	--	--	--	--	0
USMPDI-044SC-A-15-16-201104 (L2202953-06)	61	88	--	--	--	--	--	0
USMPDI-044SC-A-16-17-201104 (L2202953-07)	70	98	--	--	--	--	--	0
USMPDI-047SC-A-05-06-201030 (L2202953-08)	57	85	--	--	--	--	--	0
USMPDI-056SC-A-05-06-201107 (L2202953-09)	61	106	--	--	--	--	--	0
USMPDI-056SC-A-06-07-201107 (L2202953-10)	47	88	--	--	--	--	--	0
USMPDI-004SC-A-05-06-201111 (L2202953-11)	69	95	--	--	--	--	--	0
USMPDI-004SC-A-06-07-201111 (L2202953-12)	44	98	--	--	--	--	--	0
WG1600060-1BLANK	56	84	--	--	--	--	--	0
WG1600060-2LCS	70	107	--	--	--	--	--	0

QC LIMITS

(17-157) S15 = 13C12-OCDD

(35-197) S16 = 37CL4-2,3,7,8-TCDD

* Values outside of QC limits

FORM II A2-DIOXIN-1613 (Continued)



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Anchor QEA, LLC **Lab Number** : L2202953
Project Name : US MOORINGS **Project Number** : 000029-02
Matrix : SOIL
LCS Sample ID : WG1600060-2 **Analysis Date** : 02/07/22 21:17 **File ID** : hrms01_220207_08_seq
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (pg/g)	Found (pg/g)	%R	True (pg/g)	Found (pg/g)	%R			
2,3,7,8-TCDD	10	10.3	103				-	67-158	25
1,2,3,7,8-PeCDD	50	50.5	101				-	70-142	25
1,2,3,4,7,8-HxCDD	50	52.6	105				-	70-164	25
1,2,3,6,7,8-HxCDD	50	53.3	107				-	76-134	25
1,2,3,7,8,9-HxCDD	50	54.6	109				-	64-162	25
1,2,3,4,6,7,8-HpCDD	50	50.4	101				-	70-140	25
OCDD	100	112	112				-	78-144	25
2,3,7,8-TCDF	10	10.5	105				-	75-158	25
1,2,3,7,8-PeCDF	50	49.5	99				-	80-134	25
2,3,4,7,8-PeCDF	50	45.1	90				-	68-160	25
1,2,3,4,7,8-HxCDF	50	53.3	106				-	72-134	25
1,2,3,6,7,8-HxCDF	50	51.2	102				-	84-130	25
1,2,3,7,8,9-HxCDF	50	54.9	110				-	78-130	25
2,3,4,6,7,8-HxCDF	50	50.7	101				-	70-156	25
1,2,3,4,6,7,8-HpCDF	50	55.1	110				-	82-122	25
1,2,3,4,7,8,9-HpCDF	50	55.7	111				-	78-138	25
OCDF	100	119	119				-	63-170	25



Method Blank Summary

Form 4

Semivolatiles

Client	: Anchor QEA, LLC	Lab Number	: L2202953
Project Name	: US MOORINGS	Project Number	: 000029-02
Lab Sample ID	: WG1600060-1	Lab File ID	: hrms01_220207_06_seq
Instrument ID	: HRMS01B	Extraction Date	: 02/01/22
Matrix	: SOIL	Analysis Date	: 02/07/22 20:06
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1600060-2LCS	WG1600060-2	02/07/22 21:17
USMPDI-014SC-A-14-15-201109	L2202953-01	02/08/22 01:27
USMPDI-014SC-A-15-16-201109	L2202953-02	02/08/22 02:38
USMPDI-017SC-A-16-17-210429	L2202953-03	02/08/22 03:49
USMPDI-028SC-A-05-6.3-210504	L2202953-04	02/08/22 05:01
USMPDI-040SC-A-09-10-201103	L2202953-05	02/08/22 06:12
USMPDI-044SC-A-15-16-201104	L2202953-06	02/08/22 16:07
USMPDI-044SC-A-16-17-201104	L2202953-07	02/08/22 17:07
USMPDI-047SC-A-05-06-201030	L2202953-08	02/08/22 17:42
USMPDI-056SC-A-05-06-201107	L2202953-09	02/08/22 18:19
USMPDI-056SC-A-06-07-201107	L2202953-10	02/08/22 18:54
USMPDI-004SC-A-05-06-201111	L2202953-11	02/09/22 08:05
USMPDI-004SC-A-06-07-201111	L2202953-12	02/09/22 09:05



Initial Calibration Summary

Form 6

Semivolatiles

Client : Anchor QEA, LLC
Project Name : US MOORINGS
Instrument ID : HRMS01B
Calibration dates : 02/05/22 02:18 02/05/22 09:26

Lab Number : L2202953
Project Number : 000029-02
Ical Ref : ICAL18730

File : C:\Xcalibur\data\2022\February 2022\220204\220204_1613B_GCB.resp

Entry	Compound Name	RF Area [HRMS01_220204_17]	RF Area [HRMS01_220204_19]	RF Area [HRMS01_220204_21]	RF Area [HRMS01_220204_23]	RF Area [HRMS01_220204_25]	RF Area [HRMS01_220204_27]	RF Area [HRMS01_220204_29]	Average	Std. Deviation	RSD (%)	Correlation
1	2378-TCDF 13C12 STD	1.65	1.54	1.75	1.54	1.57	1.60	1.74	1.62	0.09	5.35	0.03
2	2378-TCDF	0.99	0.81	0.94	0.99	0.92	0.94	1.01	0.93	0.06	6.83	0.12
3	2378-TCDD 13C12 STD	1.20	1.07	1.12	1.24	1.09	1.15	1.18	1.16	0.09	7.56	0.00
4	1234-TCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
5	2378-TCDD 3704 STD	2.29	2.64	2.54	2.86	2.36	2.34	---	2.50	0.22	8.73	0.00
6	2378-TCDD	0.90	0.93	1.15	1.15	1.09	1.08	1.10	1.06	0.08	7.43	0.40
7	12378-PeCDF 13C12 STD	1.41	1.47	1.38	1.43	1.43	1.45	1.57	1.45	0.05	3.26	0.42
8	23478-PeCDF 13C12 STD	1.35	1.27	1.24	1.40	1.46	1.43	1.40	1.36	0.06	4.52	0.43
9	12378-PeCDF	1.00	1.02	1.00	0.97	0.97	1.00	1.00	0.99	0.02	1.79	0.32
10	23478-PeCDF	1.15	1.14	1.11	1.08	1.07	1.05	1.00	1.08	0.01	0.99	0.96
11	12378-PeCDD 13C12 STD	0.88	0.86	0.84	0.92	0.98	0.97	0.93	0.91	0.04	4.06	0.54
12	12378-PeCDD	1.11	0.97	0.94	1.01	0.99	0.99	1.01	1.00	0.05	4.83	0.09
13	123478-HxCDF 13C12 STD	1.19	1.17	0.93	1.03	1.20	1.23	1.10	1.12	0.11	9.63	0.01
14	123678-HxCDF 13C12 STD	1.24	1.21	1.00	1.16	1.26	1.35	1.24	1.21	0.10	8.20	0.15
15	234678-HxCDF 13C12 STD	1.25	1.21	0.99	1.15	1.25	1.21	1.19	1.18	0.09	7.52	0.01
16	123789-HxCDF 13C12 STD	1.15	1.16	1.12	1.06	1.18	1.21	1.14	1.15	0.05	4.15	0.04
17	123478-HxCDF	1.17	1.17	1.11	1.16	1.17	1.13	1.16	1.15	0.02	1.94	0.03
18	123678-HxCDF	1.27	1.21	1.12	1.09	1.16	1.10	1.05	1.14	0.04	3.53	0.71
19	234678-HxCDF	1.14	1.29	1.26	1.13	1.22	1.17	1.15	1.19	0.06	5.17	0.10
20	123789-HxCDF	1.21	1.12	1.08	1.05	1.14	1.08	1.15	1.12	0.05	4.72	0.10
21	123478-HxCDD 13C12 STD	0.87	0.91	0.89	0.89	0.90	0.94	0.85	0.89	0.03	3.47	0.00
22	123678-HxCDD 13C12 STD	0.95	0.95	0.87	0.95	0.91	1.00	0.90	0.93	0.04	4.46	0.00
23	123789-HxCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
24	123478-HxCDD	1.03	1.09	1.03	1.01	1.04	1.00	1.10	1.04	0.04	3.76	0.00
25	123678-HxCDD	1.15	1.09	1.07	1.03	1.07	0.96	1.06	1.06	0.04	3.84	0.51
26	123789-HxCDD	1.15	1.06	1.12	1.00	1.09	1.10	1.10	1.06	0.07	6.13	0.21
27	1234678-HpCDF 13C12 STD	1.04	1.22	1.03	0.94	1.10	1.19	1.11	1.09	0.10	8.77	0.03
28	1234789-HpCDF 13C12 STD	0.88	1.12	0.87	0.99	1.05	1.31	1.00	1.03	0.13	12.98	0.22
29	1234678-HpCDF	1.27	1.29	1.29	1.28	1.26	1.28	1.33	1.29	0.02	1.63	0.19
30	1234789-HpCDF	1.28	1.32	1.29	1.26	1.33	1.26	1.31	1.29	0.03	2.26	0.00
31	1234678-HpCDD 13C12 STD	0.83	0.91	0.83	0.87	0.90	1.07	0.90	0.90	0.07	7.33	0.32
32	1234678-HpCDD	1.07	1.08	1.10	1.08	1.10	1.10	1.02	1.08	0.03	2.37	0.11
33	OCDF	1.30	1.50	1.30	1.28	1.39	1.44	1.40	1.40	0.08	5.91	0.16
34	OCDD 13C12 STD	0.78	0.81	0.77	0.83	0.74	0.97	0.73	0.80	0.08	10.09	0.02
35	OCDD	1.14	1.15	1.04	1.04	1.05	1.06	1.09	1.08	0.04	3.79	0.29
36	Total native TCDF	0.99	0.81	0.94	0.89	0.92	0.94	1.01	0.93	0.06	6.83	0.12
37	Total native TCDD	0.90	0.93	1.15	1.15	1.09	1.08	1.10	1.06	0.08	7.43	0.40
38	Total native PeCDF	1.05	1.00	1.00	1.01	1.03	1.00	0.94	1.01	0.05	4.92	0.21
39	Total native PeCDD	1.11	0.97	0.94	1.01	0.99	0.99	1.01	1.00	0.05	4.83	0.09
40	Total native HxCDF	1.21	1.22	1.24	1.18	1.20	1.13	1.19	1.20	0.07	5.78	0.11
41	Total native HxCDD	1.18	1.12	1.06	1.06	1.08	1.00	1.13	1.09	0.07	6.23	0.14
42	Total native HpCDF	1.17	1.25	1.19	1.30	1.26	1.33	1.25	1.25	0.08	6.50	0.13
43	Total native HpCDD	1.07	1.08	1.10	1.08	1.10	1.10	1.02	1.08	0.03	2.37	0.11



Initial Calibration Summary

Form 6

Semivolatiles

Client : Anchor QEA, LLC
Project Name : US MOORINGS
Instrument ID : HRMS01A
Calibration dates : 02/05/22 01:43 02/05/22 08:51

Lab Number : L2202953
Project Number : 000029-02
Ical Ref : ICAL18729

File : C:\Users\Administrator\AppData\Roaming\TargetQuan3\sequence\220204_1613B_GCA.resp

Entry	Compound Name	RF Area [HRMS01_220204_16]	RF Area [HRMS01_220204_20]	RF Area [HRMS01_220204_22]	RF Area [HRMS01_220204_24]	RF Area [HRMS01_220204_26]	RF Area [HRMS01_220204_28]	RF Area [HRMS01_220204_16]	Average	Std. Deviation	RSD (%)	Correlation
1	2378-TCDF 13C12 STD	1.71	1.74	1.68	1.60	1.71	1.67	1.72	1.69	0.04	2.61	0.01
2	2378-TCDF	1.69	1.11	1.05	0.99	1.64	1.00	0.95	1.03	0.03	2.59	0.77
3	2378-TCDD 13C12 STD	1.14	1.22	1.16	1.17	1.18	1.27	1.19	1.19	0.04	3.00	0.31
4	1234-TCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
5	2378-TCDD 3704 STD	2.31	2.34	2.35	2.40	2.35	---	2.71	2.41	0.10	4.07	0.57
6	2378-TCDD	0.99	1.11	1.14	1.08	1.11	1.09	1.19	1.10	0.04	3.98	0.45
7	12378-PeCDF 13C12 STD	1.40	1.40	1.34	1.48	1.40	1.28	1.37	1.38	0.06	4.16	0.11
8	23478-PeCDF 13C12 STD	1.39	1.36	1.31	1.52	1.38	1.36	1.33	1.38	0.07	5.03	0.01
9	12378-PeCDF	0.99	1.03	1.01	0.98	1.01	1.01	1.00	1.01	0.02	1.60	0.01
10	23478-PeCDF	1.16	1.13	1.11	1.08	1.13	0.99	1.22	1.12	0.07	6.31	0.01
11	12378-PeCDD 13C12 STD	0.90	0.89	0.91	1.07	0.95	0.92	0.91	0.93	0.06	6.58	0.03
12	12378-PeCDD	1.12	1.01	0.99	0.95	0.95	0.95	1.01	1.00	0.05	4.77	0.38
13	123478-HxCDF 13C12 STD	1.18	1.18	1.17	1.15	1.16	1.09	1.11	1.15	0.02	1.59	0.76
14	123678-HxCDF 13C12 STD	1.29	1.30	1.26	1.37	1.25	1.24	1.19	1.27	0.05	3.68	0.34
15	234678-HxCDF 13C12 STD	1.29	1.22	1.24	1.25	1.22	1.22	1.16	1.23	0.02	1.83	0.66
16	123789-HxCDF 13C12 STD	1.20	1.17	1.18	1.16	1.22	1.23	1.09	1.18	0.05	4.02	0.07
17	123478-HxCDF	1.30	1.24	1.25	1.17	1.24	1.25	1.28	1.25	0.04	3.28	0.01
18	123678-HxCDF	1.20	1.16	1.21	1.18	1.16	1.11	1.28	1.19	0.05	4.41	0.03
19	234678-HxCDF	1.29	1.25	1.25	1.18	1.22	1.17	1.28	1.24	0.04	3.51	0.15
20	123789-HxCDF	1.18	1.18	1.16	1.16	1.12	1.14	1.26	1.17	0.04	3.70	0.05
21	123478-HxCDD 13C12 STD	0.89	0.90	0.86	0.91	0.92	0.83	0.86	0.88	0.03	3.07	0.14
22	123678-HxCDD 13C12 STD	0.89	0.90	0.86	0.91	0.92	0.83	0.86	0.88	0.03	3.07	0.14
23	123789-HxCDD 13C12 STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
24	123478-HxCDD	1.17	1.07	1.11	1.03	1.05	1.10	1.14	1.10	0.05	4.64	0.01
25	123678-HxCDD	1.17	1.07	1.11	1.03	1.05	1.10	1.14	1.10	0.05	4.64	0.01
26	123789-HxCDD	1.16	1.18	1.18	1.07	1.08	1.19	1.24	1.16	0.06	5.25	0.03
27	1234678-HpCDF 13C12 STD	1.14	1.13	1.16	1.19	1.16	1.04	1.08	1.13	0.04	3.77	0.29
28	1234789-HpCDF 13C12 STD	1.06	1.07	1.02	1.06	1.06	1.00	1.00	1.05	0.04	3.46	0.23
29	1234678-HpCDF	1.36	1.37	1.34	1.31	1.32	1.34	1.40	1.35	0.03	2.27	0.02
30	1234789-HpCDF	1.35	1.34	1.32	1.28	1.30	1.28	1.33	1.32	0.03	1.92	0.23
31	1234678-HpCDD 13C12 STD	0.89	0.89	0.88	0.94	0.90	0.86	0.90	0.90	0.02	2.60	0.00
32	1234678-HpCDD	1.17	1.12	1.10	1.09	1.10	1.06	1.12	1.11	0.03	2.60	0.33
33	OCDF	1.43	1.44	1.43	1.36	1.41	1.45	1.34	1.41	0.04	2.64	0.28
34	OCDD 13C12 STD	0.78	0.78	0.76	0.83	0.85	0.74	0.82	0.79	0.04	4.75	0.06
35	OCDD	1.10	1.08	1.05	1.05	1.03	1.03	1.08	1.06	0.02	2.20	0.31
36	Total native TCDF	1.09	1.11	1.05	0.99	1.04	1.00	0.95	1.03	0.03	2.59	0.77
37	Total native TCDD	0.99	1.11	1.14	1.08	1.11	1.09	1.19	1.10	0.04	3.98	0.45
38	Total native PeCDF	1.07	1.06	1.05	1.05	1.06	1.03	1.09	1.06	0.06	6.00	0.01
39	Total native PeCDD	1.12	1.01	0.99	0.95	0.95	0.95	1.01	1.00	0.05	4.77	0.38
40	Total native HxCDF	1.30	1.24	1.26	1.25	1.24	1.28	1.31	1.27	0.07	5.40	0.00
41	Total native HxCDD	1.16	1.11	1.14	1.05	1.06	1.12	1.17	1.11	0.06	5.05	0.00
42	Total native HpCDF	1.31	1.31	1.25	1.25	1.26	1.29	1.32	1.28	0.07	5.74	0.02
43	Total native HpCDD	1.17	1.12	1.10	1.09	1.10	1.06	1.12	1.11	0.03	2.60	0.33



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Instrument ID : HRMS01A
 Lab File ID : hrms01_220207_01_seq
 Sample No : WG1602294-1
 Channel :

Lab Number : L2202953
 Project Number : 000029-02
 Calibration Date : 02/07/22 14:49
 Init. Calib. Date(s) : 02/05/22 02/05/22
 Init. Calib. Times : 01:43 08:51

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	8.870	10.000	89	78-129
1,2,3,7,8-PeCDD	47.160	50.000	94	78-130
1,2,3,4,7,8-HxCDD	47.920	50.000	96	78-128
1,2,3,6,7,8-HxCDD	47.920	50.000	96	78-128
1,2,3,7,8,9-HxCDD	48.610	50.000	97	82-122
1,2,3,4,6,7,8-HpCDD	47.110	50.000	94	86-116
OCDD	91.380	100.000	91	79-126
2,3,7,8-TCDF	8.870	10.000	89	84-120
1,2,3,7,8-PeCDF	45.740	50.000	91	82-120
2,3,4,7,8-PeCDF	47.680	50.000	95	82-122
1,2,3,4,7,8-HxCDF	45.140	50.000	90	90-112
1,2,3,6,7,8-HxCDF	45.600	50.000	91	88-114
1,2,3,7,8,9-HxCDF	46.150	50.000	92	90-112
2,3,4,6,7,8-HxCDF	45.990	50.000	92	88-114
1,2,3,4,6,7,8-HpCDF	45.000	50.000	90	90-110
1,2,3,4,7,8,9-HpCDF	47.500	50.000	95	86-116
OCDF	81.590	100.000	82	63-159
13C12-2,3,7,8-TCDF	90.360	100.000	90	71-140
13C12-2,3,7,8-TCDD	103.610	100.000	104	82-121
13C12-1,2,3,7,8-PeCDF	107.610	100.000	108	76-130
13C12-2,3,4,7,8-PeCDF	102.290	100.000	102	77-130
13C12-1,2,3,7,8-PeCDD	112.830	100.000	113	62-160
13C12-1,2,3,4,7,8-HxCDF	95.760	100.000	96	76-131
13C12-1,2,3,6,7,8-HxCDF	91.890	100.000	92	70-143
13C12-2,3,4,6,7,8-HxCDF	87.450	100.000	87	73-137
13C12-1,2,3,7,8,9-HxCDF	91.620	100.000	92	74-135
13C12-1,2,3,4,7,8-HxCDD	97.140	100.000	97	85-117
13C12-1,2,3,6,7,8-HxCDD	97.140	100.000	97	85-118
13C12-1,2,3,4,6,7,8-HpCDF	88.830	100.000	89	78-129
13C12-1,2,3,4,7,8,9-HpCDF	93.000	100.000	93	77-129
13C12-1,2,3,4,6,7,8-HpCDD	103.110	100.000	103	72-138
13C12-OCDD	241.830	100.000	121	48-208
37CL4-2,3,7,8-TCDD	9.510	10.000	95	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	106.775			

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Instrument ID : HRMS01B
 Lab File ID : hrms01_220207_02_seq
 Sample No : WG1602307-1
 Channel :

Lab Number : L2202953
 Project Number : 000029-02
 Calibration Date : 02/07/22 17:18
 Init. Calib. Date(s) : 02/05/22 02/05/22
 Init. Calib. Times : 02:18 09:26

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	8.810	10.000	88	78-129
1,2,3,7,8-PeCDD	48.400	50.000	97	78-130
1,2,3,4,7,8-HxCDD	46.740	50.000	93	78-128
1,2,3,6,7,8-HxCDD	47.170	50.000	94	78-128
1,2,3,7,8,9-HxCDD	48.430	50.000	97	82-122
1,2,3,4,6,7,8-HpCDD	45.490	50.000	91	86-116
OCDD	87.360	100.000	87	79-126
2,3,7,8-TCDF	8.590	10.000	86	84-120
1,2,3,7,8-PeCDF	47.290	50.000	95	82-120
2,3,4,7,8-PeCDF	45.310	50.000	91	82-122
1,2,3,4,7,8-HxCDF	46.280	50.000	93	90-112
1,2,3,6,7,8-HxCDF	46.410	50.000	93	88-114
1,2,3,7,8,9-HxCDF	46.320	50.000	93	90-112
2,3,4,6,7,8-HxCDF	45.120	50.000	90	88-114
1,2,3,4,6,7,8-HpCDF	47.360	50.000	95	90-110
1,2,3,4,7,8,9-HpCDF	48.650	50.000	97	86-116
OCDF	83.380	100.000	83	63-159
13C12-2,3,7,8-TCDF	85.780	100.000	86	71-140
13C12-2,3,7,8-TCDD	108.120	100.000	108	82-121
13C12-1,2,3,7,8-PeCDF	106.480	100.000	106	76-130
13C12-2,3,4,7,8-PeCDF	105.960	100.000	106	77-130
13C12-1,2,3,7,8-PeCDD	107.710	100.000	108	62-160
13C12-1,2,3,4,7,8-HxCDF	90.960	100.000	91	76-131
13C12-1,2,3,6,7,8-HxCDF	95.610	100.000	96	70-143
13C12-2,3,4,6,7,8-HxCDF	90.830	100.000	91	73-137
13C12-1,2,3,7,8,9-HxCDF	81.690	100.000	82	74-135
13C12-1,2,3,4,7,8-HxCDD	95.670	100.000	96	85-117
13C12-1,2,3,6,7,8-HxCDD	97.310	100.000	97	85-118
13C12-1,2,3,4,6,7,8-HpCDF	90.200	100.000	90	78-129
13C12-1,2,3,4,7,8,9-HpCDF	80.110	100.000	80	77-129
13C12-1,2,3,4,6,7,8-HpCDD	93.790	100.000	94	72-138
13C12-OCDD	194.310	100.000	97	48-208
37CL4-2,3,7,8-TCDD	9.530	10.000	95	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	107.190			

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
Project Name : US MOORINGS
Instrument ID : HRMS01A
Lab File ID : hrms01_220207_25_seq
Sample No : WG1602294-2
Channel :

Lab Number : L2202953
Project Number : 000029-02
Calibration Date : 02/08/22 07:27
Init. Calib. Date(s) : 02/05/22 02/05/22
Init. Calib. Times : 01:43 08:51

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	8.780	10.000	88	78-129
1,2,3,7,8-PeCDD	50.630	50.000	101	78-130
1,2,3,4,7,8-HxCDD	46.560	50.000	93	78-128
1,2,3,6,7,8-HxCDD	46.560	50.000	93	78-128
1,2,3,7,8,9-HxCDD	48.990	50.000	98	82-122
1,2,3,4,6,7,8-HpCDD	47.580	50.000	95	86-116
OCDD	95.030	100.000	95	79-126
2,3,7,8-TCDF	8.950	10.000	90	84-120
1,2,3,7,8-PeCDF	52.250	50.000	105	82-120
2,3,4,7,8-PeCDF	46.990	50.000	94	82-122
1,2,3,4,7,8-HxCDF	46.940	50.000	94	90-112
1,2,3,6,7,8-HxCDF	47.320	50.000	95	88-114
1,2,3,7,8,9-HxCDF	48.700	50.000	97	90-112
2,3,4,6,7,8-HxCDF	49.160	50.000	98	88-114
1,2,3,4,6,7,8-HpCDF	49.080	50.000	98	90-110
1,2,3,4,7,8,9-HpCDF	50.630	50.000	101	86-116
OCDF	86.850	100.000	87	63-159
13C12-2,3,7,8-TCDF	95.710	100.000	96	71-140
13C12-2,3,7,8-TCDD	110.870	100.000	111	82-121
13C12-1,2,3,7,8-PeCDF	129.880	100.000	130	76-130
13C12-2,3,4,7,8-PeCDF	123.030	100.000	123	77-130
13C12-1,2,3,7,8-PeCDD	123.470	100.000	123	62-160
13C12-1,2,3,4,7,8-HxCDF	88.330	100.000	88	76-131
13C12-1,2,3,6,7,8-HxCDF	85.040	100.000	85	70-143
13C12-2,3,4,6,7,8-HxCDF	87.880	100.000	88	73-137
13C12-1,2,3,7,8,9-HxCDF	89.720	100.000	90	74-135
13C12-1,2,3,4,7,8-HxCDD	98.650	100.000	99	85-117
13C12-1,2,3,6,7,8-HxCDD	98.650	100.000	99	85-118
13C12-1,2,3,4,6,7,8-HpCDF	95.750	100.000	96	78-129
13C12-1,2,3,4,7,8,9-HpCDF	94.790	100.000	95	77-129
13C12-1,2,3,4,6,7,8-HpCDD	103.850	100.000	104	72-138
13C12-OCDD	230.800	100.000	115	48-208
37CL4-2,3,7,8-TCDD	9.980	10.000	100	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	110.917			

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Instrument ID : HRMS01B
 Lab File ID : hrms01_220207_26_seq
 Sample No : WG1602307-2
 Channel :

Lab Number : L2202953
 Project Number : 000029-02
 Calibration Date : 02/08/22 08:30
 Init. Calib. Date(s) : 02/05/22 02/05/22
 Init. Calib. Times : 02:18 09:26

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	10.550	10.000	106	78-129
1,2,3,7,8-PeCDD	48.560	50.000	97	78-130
1,2,3,4,7,8-HxCDD	47.610	50.000	95	78-128
1,2,3,6,7,8-HxCDD	45.400	50.000	91	78-128
1,2,3,7,8,9-HxCDD	41.230	50.000	82	82-122
1,2,3,4,6,7,8-HpCDD	48.930	50.000	98	86-116
OCDD	92.740	100.000	93	79-126
2,3,7,8-TCDF	10.490	10.000	105	84-120
1,2,3,7,8-PeCDF	45.210	50.000	90	82-120
2,3,4,7,8-PeCDF	47.290	50.000	95	82-122
1,2,3,4,7,8-HxCDF	50.290	50.000	101	90-112
1,2,3,6,7,8-HxCDF	50.170	50.000	100	88-114
1,2,3,7,8,9-HxCDF	46.180	50.000	92	90-112
2,3,4,6,7,8-HxCDF	47.450	50.000	95	88-114
1,2,3,4,6,7,8-HpCDF	48.260	50.000	97	90-110
1,2,3,4,7,8,9-HpCDF	46.800	50.000	94	86-116
OCDF	85.250	100.000	85	63-159
13C12-2,3,7,8-TCDF	103.470	100.000	103	71-140
13C12-2,3,7,8-TCDD	95.410	100.000	95	82-121
13C12-1,2,3,7,8-PeCDF	80.860	100.000	81	76-130
13C12-2,3,4,7,8-PeCDF	87.450	100.000	87	77-130
13C12-1,2,3,7,8-PeCDD	89.510	100.000	90	62-160
13C12-1,2,3,4,7,8-HxCDF	121.150	100.000	121	76-131
13C12-1,2,3,6,7,8-HxCDF	113.180	100.000	113	70-143
13C12-2,3,4,6,7,8-HxCDF	91.010	100.000	91	73-137
13C12-1,2,3,7,8,9-HxCDF	86.130	100.000	86	74-135
13C12-1,2,3,4,7,8-HxCDD	102.500	100.000	103	85-117
13C12-1,2,3,6,7,8-HxCDD	110.130	100.000	110	85-118
13C12-1,2,3,4,6,7,8-HpCDF	94.020	100.000	94	78-129
13C12-1,2,3,4,7,8,9-HpCDF	95.160	100.000	95	77-129
13C12-1,2,3,4,6,7,8-HpCDD	98.720	100.000	99	72-138
13C12-OCDD	224.290	100.000	112	48-208
37CL4-2,3,7,8-TCDD	8.860	10.000	89	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	110.026			

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
 Project Name : US MOORINGS
 Instrument ID : HRMS01A
 Lab File ID : hrms01_220207_41_seq
 Sample No : WG1602294-3
 Channel :

Lab Number : L2202953
 Project Number : 000029-02
 Calibration Date : 02/09/22 09:41
 Init. Calib. Date(s) : 02/05/22 02/05/22
 Init. Calib. Times : 01:43 08:51

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	9.820	10.000	98	78-129
1,2,3,7,8-PeCDD	50.230	50.000	100	78-130
1,2,3,4,7,8-HxCDD	48.850	50.000	98	78-128
1,2,3,6,7,8-HxCDD	48.850	50.000	98	78-128
1,2,3,7,8,9-HxCDD	48.590	50.000	97	82-122
1,2,3,4,6,7,8-HpCDD	49.850	50.000	100	86-116
OCDD	96.860	100.000	97	79-126
2,3,7,8-TCDF	10.060	10.000	101	84-120
1,2,3,7,8-PeCDF	52.550	50.000	105	82-120
2,3,4,7,8-PeCDF	51.430	50.000	103	82-122
1,2,3,4,7,8-HxCDF	48.570	50.000	97	90-112
1,2,3,6,7,8-HxCDF	50.020	50.000	100	88-114
1,2,3,7,8,9-HxCDF	48.280	50.000	97	90-112
2,3,4,6,7,8-HxCDF	50.060	50.000	100	88-114
1,2,3,4,6,7,8-HpCDF	48.940	50.000	98	90-110
1,2,3,4,7,8,9-HpCDF	49.610	50.000	99	86-116
OCDF	89.070	100.000	89	63-159
13C12-2,3,7,8-TCDF	98.540	100.000	99	71-140
13C12-2,3,7,8-TCDD	99.430	100.000	99	82-121
13C12-1,2,3,7,8-PeCDF	92.080	100.000	92	76-130
13C12-2,3,4,7,8-PeCDF	89.530	100.000	90	77-130
13C12-1,2,3,7,8-PeCDD	91.220	100.000	91	62-160
13C12-1,2,3,4,7,8-HxCDF	100.750	100.000	101	76-131
13C12-1,2,3,6,7,8-HxCDF	94.960	100.000	95	70-143
13C12-2,3,4,6,7,8-HxCDF	93.820	100.000	94	73-137
13C12-1,2,3,7,8,9-HxCDF	95.080	100.000	95	74-135
13C12-1,2,3,4,7,8-HxCDD	99.650	100.000	100	85-117
13C12-1,2,3,6,7,8-HxCDD	99.650	100.000	100	85-118
13C12-1,2,3,4,6,7,8-HpCDF	96.020	100.000	96	78-129
13C12-1,2,3,4,7,8,9-HpCDF	89.870	100.000	90	77-129
13C12-1,2,3,4,6,7,8-HpCDD	98.200	100.000	98	72-138
13C12-OCDD	198.240	100.000	99	48-208
37CL4-2,3,7,8-TCDD	9.900	10.000	99	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	113.917			

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Anchor QEA, LLC
Project Name : US MOORINGS
Instrument ID : HRMS01B
Lab File ID : hrms01_220207_42_seq
Sample No : WG1602307-3
Channel :

Lab Number : L2202953
Project Number : 000029-02
Calibration Date : 02/09/22 10:17
Init. Calib. Date(s) : 02/05/22 02/05/22
Init. Calib. Times : 02:18 09:26

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
2,3,7,8-TCDD	9.940	10.000	99	78-129
1,2,3,7,8-PeCDD	51.050	50.000	102	78-130
1,2,3,4,7,8-HxCDD	49.880	50.000	100	78-128
1,2,3,6,7,8-HxCDD	48.760	50.000	98	78-128
1,2,3,7,8,9-HxCDD	47.210	50.000	94	82-122
1,2,3,4,6,7,8-HpCDD	49.200	50.000	98	86-116
OCDD	93.420	100.000	93	79-126
2,3,7,8-TCDF	10.500	10.000	105	84-120
1,2,3,7,8-PeCDF	50.510	50.000	101	82-120
2,3,4,7,8-PeCDF	49.550	50.000	99	82-122
1,2,3,4,7,8-HxCDF	54.280	50.000	109	90-112
1,2,3,6,7,8-HxCDF	50.780	50.000	102	88-114
1,2,3,7,8,9-HxCDF	50.640	50.000	101	90-112
2,3,4,6,7,8-HxCDF	50.740	50.000	101	88-114
1,2,3,4,6,7,8-HpCDF	51.790	50.000	104	90-110
1,2,3,4,7,8,9-HpCDF	48.400	50.000	97	86-116
OCDF	90.660	100.000	91	63-159
13C12-2,3,7,8-TCDF	98.980	100.000	99	71-140
13C12-2,3,7,8-TCDD	100.720	100.000	101	82-121
13C12-1,2,3,7,8-PeCDF	96.130	100.000	96	76-130
13C12-2,3,4,7,8-PeCDF	104.250	100.000	104	77-130
13C12-1,2,3,7,8-PeCDD	100.330	100.000	100	62-160
13C12-1,2,3,4,7,8-HxCDF	105.970	100.000	106	76-131
13C12-1,2,3,6,7,8-HxCDF	110.740	100.000	111	70-143
13C12-2,3,4,6,7,8-HxCDF	107.760	100.000	108	73-137
13C12-1,2,3,7,8,9-HxCDF	96.380	100.000	96	74-135
13C12-1,2,3,4,7,8-HxCDD	103.150	100.000	103	85-117
13C12-1,2,3,6,7,8-HxCDD	105.030	100.000	105	85-118
13C12-1,2,3,4,6,7,8-HpCDF	95.590	100.000	96	78-129
13C12-1,2,3,4,7,8,9-HpCDF	94.390	100.000	94	77-129
13C12-1,2,3,4,6,7,8-HpCDD	97.580	100.000	98	72-138
13C12-OCDD	182.650	100.000	91	48-208
37CL4-2,3,7,8-TCDD	8.580	10.000	86	79-127
13C12-1,2,3,4-TCDD	100.000		100	
13C12-1,2,3,7,8,9-HxCDD	100.000		100	
Toxic Equivalency (TEQ)	115.202			

* Value outside of QC limits.

