CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

June 29, 2023

Mr. Alan Sprott
Vigor Industrial, LLC
5555 North Channel Avenue
Portland, Oregon 97217

Re: Swan Island Basin Portland Harbor
Work Order: 21423

Dear Mr. Sprott:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 05, 2023. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynde Larkins
Project Manager

Enclosures

problem solved

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Kurt Clarkson

Project Number: K2303248
Project Manager: Kurt Clarkson
QAP: LAB QAP

CFA WO#21423

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Relinquish None Dioxin/Furans
K2303248-001	SIB-SW-WR198-102122	1	Storm Water	10/21/22	1450	Cape Fear	X
K2303248-002	SIB-SW-WR186-102122	1	Storm Water	10/21/22	1542	Cape Fear	X
K2303248-003	SIB-SW-WR15-102122	1	Storm Water	10/21/22	1525	Cape Fear	X
K2303248-004	SIB-SW-WR428-102122	1	Storm Water	10/21/22	1648	Cape Fear	X
K2303248-005	SIB-SW-WR71-102122	1	Storm Water	10/21/22	1431	Cape Fear	X

Folder Comments:
Reissued from K2212522

temp. = 5.7°C

Special Instructions/Comments Relinquish
Please provide the electronic (PDF and EDD) report to the following e-mail address:
~~ALS.KLS.Data@alsglobal.com~~
Contact HGL!
Andrea Fletcher
afletcher@hgl.com

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____**RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ **STANDARD**
Requested FAX Date: _____
Requested Report Date: 04/07/23

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO# 51K2303248
Bill to

Relinquished By: 4/4 Received By: 4/5/23 11:00 Airbill Number:

K2303248

WO#21423

X **Ship To: Cape Fear Analytical**
Cape Fear Analytical
3306 Kitty Hawk Rd
Suite 120
Wilmington, NC 28405

PC KC Date 4/3/23
SMO VM Date 4/4

Instructions:
Ice X
Dry Ice ____
No Ice ____

Shipping:
Overnight X
2nd Day ____
Ground ____

Bill to Client Account ____

Comments:

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: ALJ	Work Order: 21423
Shipping Company: Fedex	Date/Time Received: 4/5/23 11:00

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		✓	
Samples < 2x background?		✓	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			✓

Air Witness: _____

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?	✓			Seal intact? (Yes) No
3	Chain of Custody documents included with shipment?	✓			
4	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: ice bags loose ice blue ice dry ice none (other)(describe) icepacks 5.6 to 5.7° Temperature Blank present: (Yes) No ✓ 4/6/23
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: all aqueous solids
5	Samples requiring chemical preservation at proper pH?	✓			Sample IDs, containers affected and pH observed: all pH=7 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	✓			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?			✓	Sample IDs, containers affected: No date or time on sample/ders
11	Number of containers received match number indicated on COC?			✓	List type and number of containers / Sample IDs, containers affected: 1 container not listed on COC received S-1L NM4W
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

Checklist performed by: Initials: KA Date: 4/6/23

CF-UD-F-7

Cape Fear Analytical LLC - Login Review Report - Chain of Custody

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
(910) 795 - 0421 (Phone) ~ www.cfanalytical.com

CFA Work Order:	21423 1613B Water	**Work Order Due Date:**	04-JUN-23	**Collector:**	G
SDG:	21423	**Package Due Date:**	01-JUN-23	**Prelogin #:**	20230462679
Project Manager:	Cynde Larkins	**EDD Due Date:**	04-JUN-23	**Project ID:**	1224519
Project Name:	HYGL00122			**SDG Status:**	Closed
	Swan Island Basin Portland Harbor			**Logged By:**	CGL
Purchase Order:				**Project Type:**	HRMS
Package Level:	LEVEL6				
EDD Name:	EQEDD_HGL	**Days to Process:**	60		

Prelogin Group	QC Requirements	CFA Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	PM Comments?
1		21423001	SIB-SW-WR198-102122	1613B Water	21-OCT-22 14:50	05-APR-23 11:00	WATER		1	
1		21423002	SIB-SW-WR186-102122	1613B Water	21-OCT-22 15:42	05-APR-23 11:00	WATER		1	
1		21423003	SIB-SW-WR15-102122	1613B Water	21-OCT-22 15:25	05-APR-23 11:00	WATER		1	
1		21423004	SIB-SW-WR428-102122	1613B Water	21-OCT-22 16:48	05-APR-23 11:00	WATER		1	
1		21423005	SIB-SW-WR71-102122	1613B Water	21-OCT-22 14:31	05-APR-23 11:00	WATER		1	

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
HydroGeoLogic, Incorporated (HYGL)
SDG 21423

Method/Analysis Information

Product:	**Dioxins/Furans by EPA Method 1613B in Liquids**
Analytical Method:	EPA Method 1613B
Extraction Method:	SW846 3520C
Analytical Batch Number:	52698
Clean Up Batch Number:	52696
Extraction Batch Number:	52695

Sample Analysis

Samples were received within temperature requirements at 5.7°C (21423001, 21423002, 21423003, 21423004, 21423005). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12034325	Method Blank (MB)
12034326	Laboratory Control Sample (LCS)
12034327	Laboratory Control Sample Duplicate (LCSD)
21423001	SIB-SW-WR198-102122
21423002	SIB-SW-WR186-102122
21423003	SIB-SW-WR15-102122
21423004	SIB-SW-WR428-102122
21423005	SIB-SW-WR71-102122

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 21.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP722_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report
for

HYGL001 HydroGeoLogic, Incorporated

Client SDG: 21423 CFA Work Order: 21423

The Qualifiers in this report are defined as follows:

*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
B	The target analyte was detected in the associated blank.
J	Value is estimated
K	Estimated Maximum Possible Concentration
U	Analyte was analyzed for, but not detected above the specified detection limit.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: **Name: Alexis Finks**

Date: 29 JUN 2023 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423001**	**Date Collected:**	**10/21/2022 14:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR198-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 11:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-4**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**970.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.94	pg/L	3.94	5.15
40321-76-4	1,2,3,7,8-PeCDD	U	3.05	pg/L	3.05	25.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.50	pg/L	3.50	51.5
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.36	pg/L	3.36	51.5
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.42	pg/L	3.42	51.5
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.74	pg/L	4.74	51.5
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	7.42	pg/L	7.42	103
51207-31-9	2,3,7,8-TCDF	U	3.87	pg/L	3.87	10.3
57117-41-6	1,2,3,7,8-PeCDF	U	1.88	pg/L	1.88	51.5
57117-31-4	2,3,4,7,8-PeCDF	U	1.64	pg/L	1.64	51.5
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.54	pg/L	1.54	51.5
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.57	pg/L	1.57	51.5
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.79	pg/L	1.79	51.5
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.68	pg/L	2.68	51.5
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.31	pg/L	2.31	51.5
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.54	pg/L	3.54	51.5
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	9.52	pg/L	9.52	103
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.94	pg/L	3.94	10.3
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.05	pg/L	3.05	51.5
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.36	pg/L	3.36	51.5
TCDF	Total Tetrachlorodibenzofuran	U	3.87	pg/L	3.87	10.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	4.74	pg/L	4.74	51.5
30402-15-4	Total Pentachlorodibenzofuran	U	1.64	pg/L	1.64	51.5
55684-94-1	Total Hexachlorodibenzofuran	U	1.54	pg/L	1.54	51.5
38998-75-3	Total Heptachlorodibenzofuran	U	2.31	pg/L	2.31	51.5
TEQ	TEQ WHO2005 ND=0		0.000	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.91	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1270	2060	pg/L	61.6	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	2060	pg/L	66.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1380	2060	pg/L	67.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1490	2060	pg/L	72.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1420	2060	pg/L	68.9	(23%-140%)
13C-OCDD		2400	4120	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1240	2060	pg/L	60.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1250	2060	pg/L	60.7	(24%-185%)
13C-2,3,4,7,8-PeCDF		1300	2060	pg/L	63.0	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2060	pg/L	67.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1460	2060	pg/L	70.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1400	2060	pg/L	68.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	2060	pg/L	61.6	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423001**	**Date Collected:**	**10/21/2022 14:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR198-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 11:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-4**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**970.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1350	2060	pg/L	65.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1380	2060	pg/L	66.9	(26%-138%)
37Cl-2,3,7,8-TCDD		153	206	pg/L	74.5	(35%-197%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423002**	**Date Collected:**	**10/21/2022 15:42**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR186-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-5**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1003.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.47	pg/L	3.47	4.98
40321-76-4	1,2,3,7,8-PeCDD	U	3.07	pg/L	3.07	24.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.49	pg/L	2.49	49.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.35	pg/L	2.35	49.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.41	pg/L	2.41	49.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.90	pg/L	4.90	49.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	11.2	pg/L	9.19	99.6
51207-31-9	2,3,7,8-TCDF	U	3.39	pg/L	3.39	9.96
57117-41-6	1,2,3,7,8-PeCDF	U	1.66	pg/L	1.66	49.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.44	pg/L	1.44	49.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.16	pg/L	1.16	49.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.14	pg/L	1.14	49.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.13	pg/L	1.13	49.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.87	pg/L	1.87	49.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.77	pg/L	1.77	49.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.63	pg/L	2.63	49.8
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.07	pg/L	7.07	99.6
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.47	pg/L	3.47	9.96
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.07	pg/L	3.07	49.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.35	pg/L	2.35	49.8
TCDF	Total Tetrachlorodibenzofuran	U	3.39	pg/L	3.39	9.96
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	4.90	pg/L	4.90	49.8
30402-15-4	Total Pentachlorodibenzofuran	U	1.44	pg/L	1.44	49.8
55684-94-1	Total Hexachlorodibenzofuran	U	1.13	pg/L	1.13	49.8
38998-75-3	Total Heptachlorodibenzofuran	U	1.77	pg/L	1.77	49.8
TEQ	TEQ WHO2005 ND=0		0.00335	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.36	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1220	1990	pg/L	61.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1330	1990	pg/L	66.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1280	1990	pg/L	64.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1410	1990	pg/L	70.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1330	1990	pg/L	66.7	(23%-140%)
13C-OCDD		2300	3980	pg/L	57.8	(17%-157%)
13C-2,3,7,8-TCDF		1230	1990	pg/L	61.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1180	1990	pg/L	59.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1310	1990	pg/L	65.8	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1290	1990	pg/L	65.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1360	1990	pg/L	68.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1410	1990	pg/L	70.7	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1250	1990	pg/L	63.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423002**	**Date Collected:**	**10/21/2022 15:42**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR186-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-5**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1003.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	1990	pg/L	65.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1300	1990	pg/L	65.4	(26%-138%)
37Cl-2,3,7,8-TCDD		155	199	pg/L	78.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423003**	**Date Collected:**	**10/21/2022 15:25**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR15-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:52**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-6**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.74	pg/L	2.74	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	1.66	pg/L	1.66	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.60	pg/L	2.60	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.38	pg/L	2.38	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.48	pg/L	2.48	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	3.28	pg/L	3.28	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	10.6	pg/L	7.26	100
51207-31-9	2,3,7,8-TCDF	U	2.74	pg/L	2.74	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	1.58	pg/L	1.58	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.40	pg/L	1.40	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.28	pg/L	1.28	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.21	pg/L	1.21	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.27	pg/L	1.27	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.92	pg/L	1.92	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.55	pg/L	1.55	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.18	pg/L	2.18	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.04	pg/L	7.04	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.74	pg/L	2.74	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.66	pg/L	1.66	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.38	pg/L	2.38	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.74	pg/L	2.74	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	3.28	pg/L	3.28	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.792	pg/L	0.792	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.21	pg/L	1.21	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.55	pg/L	1.55	50.0
TEQ	TEQ WHO2005 ND=0		0.00319	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.27	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1260	2000	pg/L	63.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	2000	pg/L	68.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1290	2000	pg/L	64.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	69.1	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1330	2000	pg/L	66.6	(23%-140%)
13C-OCDD		2330	4000	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1270	2000	pg/L	63.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2000	pg/L	61.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1330	2000	pg/L	66.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1270	2000	pg/L	63.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1380	2000	pg/L	69.1	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1350	2000	pg/L	67.6	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1260	2000	pg/L	63.1	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423003**	**Date Collected:**	**10/21/2022 15:25**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR15-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:52**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-6**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2000	pg/L	65.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1360	2000	pg/L	68.2	(26%-138%)
37Cl-2,3,7,8-TCDD		150	200	pg/L	75.2	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423004**	**Date Collected:**	**10/21/2022 16:48**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR428-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 13:41**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-7**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**960.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.62	pg/L	2.62	5.20
40321-76-4	1,2,3,7,8-PeCDD	U	2.08	pg/L	2.08	26.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.21	pg/L	3.21	52.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.98	pg/L	2.98	52.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.08	pg/L	3.08	52.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	14.1	pg/L	9.01	52.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	88.6	pg/L	14.4	104
51207-31-9	2,3,7,8-TCDF	U	2.77	pg/L	2.77	10.4
57117-41-6	1,2,3,7,8-PeCDF	U	2.02	pg/L	2.02	52.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.93	pg/L	1.93	52.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.10	pg/L	1.10	52.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.00	pg/L	1.00	52.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.16	pg/L	1.16	52.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.79	pg/L	1.79	52.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.29	pg/L	2.29	52.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.60	pg/L	3.60	52.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.83	pg/L	7.83	104
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.62	pg/L	2.62	10.4
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.08	pg/L	2.08	52.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	J	4.50	pg/L	2.98	52.0
TCDF	Total Tetrachlorodibenzofuran	U	2.77	pg/L	2.77	10.4
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	33.8	pg/L	9.01	52.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.808	pg/L	0.808	52.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.00	pg/L	1.00	52.0
38998-75-3	Total Heptachlorodibenzofuran	JK	3.25	pg/L	2.29	52.0
TEQ	TEQ WHO2005 ND=0		0.168	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.72	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1420	2080	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1420	2080	pg/L	68.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1280	2080	pg/L	61.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1440	2080	pg/L	69.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1360	2080	pg/L	65.2	(23%-140%)
13C-OCDD		2390	4160	pg/L	57.4	(17%-157%)
13C-2,3,7,8-TCDF		1350	2080	pg/L	65.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1310	2080	pg/L	63.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1380	2080	pg/L	66.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1340	2080	pg/L	64.5	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1440	2080	pg/L	69.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1460	2080	pg/L	70.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	2080	pg/L	61.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423004**	**Date Collected:**	**10/21/2022 16:48**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR428-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 13:41**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-7**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**960.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2080	pg/L	63.0	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1350	2080	pg/L	64.7	(26%-138%)
37Cl-2,3,7,8-TCDD		170	208	pg/L	81.5	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423005**	**Date Collected:**	**10/21/2022 14:31**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR71-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 14:29**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-8**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**916.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.08	pg/L	3.08	5.45
40321-76-4	1,2,3,7,8-PeCDD	U	1.86	pg/L	1.86	27.3
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.95	pg/L	3.95	54.5
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.62	pg/L	3.62	54.5
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.77	pg/L	3.77	54.5
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	9.08	pg/L	8.07	54.5
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	64.0	pg/L	19.7	109
51207-31-9	2,3,7,8-TCDF	U	2.97	pg/L	2.97	10.9
57117-41-6	1,2,3,7,8-PeCDF	U	1.94	pg/L	1.94	54.5
57117-31-4	2,3,4,7,8-PeCDF	U	1.64	pg/L	1.64	54.5
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.85	pg/L	1.85	54.5
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.83	pg/L	1.83	54.5
60851-34-5	2,3,4,6,7,8-HxCDF	U	2.01	pg/L	2.01	54.5
72918-21-9	1,2,3,7,8,9-HxCDF	U	3.10	pg/L	3.10	54.5
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	3.88	pg/L	2.33	54.5
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.36	pg/L	3.36	54.5
39001-02-0	1,2,3,4,6,7,8,9-OCDF	JK	17.5	pg/L	8.99	109
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.08	pg/L	3.08	10.9
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.86	pg/L	1.86	54.5
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.62	pg/L	3.62	54.5
TCDF	Total Tetrachlorodibenzofuran	U	2.97	pg/L	2.97	10.9
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	9.08	pg/L	8.07	54.5
30402-15-4	Total Pentachlorodibenzofuran	U	0.772	pg/L	0.772	54.5
55684-94-1	Total Hexachlorodibenzofuran	U	1.83	pg/L	1.83	54.5
38998-75-3	Total Heptachlorodibenzofuran	JK	8.57	pg/L	2.33	54.5
TEQ	TEQ WHO2005 ND=0		0.154	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.07	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1520	2180	pg/L	69.7	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2180	pg/L	71.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1440	2180	pg/L	65.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1500	2180	pg/L	69.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1430	2180	pg/L	65.5	(23%-140%)
13C-OCDD		2500	4360	pg/L	57.3	(17%-157%)
13C-2,3,7,8-TCDF		1490	2180	pg/L	68.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1400	2180	pg/L	64.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1570	2180	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2180	pg/L	63.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1480	2180	pg/L	67.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1510	2180	pg/L	69.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1350	2180	pg/L	61.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423005**	**Date Collected:**	**10/21/2022 14:31**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR71-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 14:29**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-8**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**916.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1410	2180	pg/L	64.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1580	2180	pg/L	72.3	(26%-138%)
37Cl-2,3,7,8-TCDD		185	218	pg/L	84.8	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quality Control Summary

Hi-Res Dioxins/Furans

Surrogate Recovery Report

SDG Number: 21423

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12034326	LCS for batch 52695	13C-2,3,7,8-TCDD		62.5	(20%-175%)
		13C-1,2,3,7,8-PeCDD		71.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		63.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		68.9	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		66.6	(22%-166%)
		13C-OCDD		58.6	(13%-199%)
		13C-2,3,7,8-TCDF		64.5	(22%-152%)
		13C-1,2,3,7,8-PeCDF		64.8	(21%-192%)
		13C-2,3,4,7,8-PeCDF		72.3	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		65.7	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		64.6	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		66.6	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		64.4	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.6	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		67.3	(20%-186%)
		37Cl-2,3,7,8-TCDD		73.9	(31%-191%)
12034327	LCSD for batch 52695	13C-2,3,7,8-TCDD		66.2	(20%-175%)
		13C-1,2,3,7,8-PeCDD		69.2	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		67.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		69.0	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		65.3	(22%-166%)
		13C-OCDD		57.4	(13%-199%)
		13C-2,3,7,8-TCDF		65.6	(22%-152%)
		13C-1,2,3,7,8-PeCDF		65.2	(21%-192%)
		13C-2,3,4,7,8-PeCDF		69.5	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		67.0	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		65.1	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		69.4	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		63.9	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.9	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		66.1	(20%-186%)
		37Cl-2,3,7,8-TCDD		89.7	(31%-191%)
12034325	MB for batch 52695	13C-2,3,7,8-TCDD		53.5	(25%-164%)
		13C-1,2,3,7,8-PeCDD		56.5	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		62.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		58.8	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		57.8	(23%-140%)
		13C-OCDD		50.0	(17%-157%)
		13C-2,3,7,8-TCDF		52.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		49.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		54.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		61.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		60.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		62.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		53.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		55.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		73.7	(35%-197%)
21423001	SIB-SW-WR198-102122	13C-2,3,7,8-TCDD		61.6	(25%-164%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21423

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21423001	SIB-SW-WR198-102122	13C-1,2,3,7,8-PeCDD		66.2	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		67.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		72.3	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		68.9	(23%-140%)
		13C-OCDD		58.3	(17%-157%)
		13C-2,3,7,8-TCDF		60.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		60.7	(24%-185%)
		13C-2,3,4,7,8-PeCDF		63.0	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		67.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		70.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		68.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		61.6	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		65.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		66.9	(26%-138%)
		37Cl-2,3,7,8-TCDD		74.5	(35%-197%)
21423002	SIB-SW-WR186-102122	13C-2,3,7,8-TCDD		61.4	(25%-164%)
		13C-1,2,3,7,8-PeCDD		66.8	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		64.0	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		70.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		66.7	(23%-140%)
		13C-OCDD		57.8	(17%-157%)
		13C-2,3,7,8-TCDF		61.7	(24%-169%)
		13C-1,2,3,7,8-PeCDF		59.1	(24%-185%)
		13C-2,3,4,7,8-PeCDF		65.8	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		65.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		68.4	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		70.7	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		63.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		65.6	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		65.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		78.0	(35%-197%)
21423003	SIB-SW-WR15-102122	13C-2,3,7,8-TCDD		63.0	(25%-164%)
		13C-1,2,3,7,8-PeCDD		68.3	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		64.5	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.1	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		66.6	(23%-140%)
		13C-OCDD		58.3	(17%-157%)
		13C-2,3,7,8-TCDF		63.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		61.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		66.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		63.3	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		69.1	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		67.6	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		63.1	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		65.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		68.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		75.2	(35%-197%)
21423004	SIB-SW-WR428-102122	13C-2,3,7,8-TCDD		68.4	(25%-164%)
		13C-1,2,3,7,8-PeCDD		68.4	(25%-181%)

Hi-Res Dioxins/Furans

Surrogate Recovery Report

SDG Number: 21423

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21423004	SIB-SW-WR428-102122	13C-1,2,3,4,7,8-HxCDD		61.5	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.3	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		65.2	(23%-140%)
		13C-OCDD		57.4	(17%-157%)
		13C-2,3,7,8-TCDF		65.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		63.1	(24%-185%)
		13C-2,3,4,7,8-PeCDF		66.4	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		64.5	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		69.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		70.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		61.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		63.0	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		64.7	(26%-138%)
		37Cl-2,3,7,8-TCDD		81.5	(35%-197%)
21423005	SIB-SW-WR71-102122	13C-2,3,7,8-TCDD		69.7	(25%-164%)
		13C-1,2,3,7,8-PeCDD		71.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		65.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.0	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		65.5	(23%-140%)
		13C-OCDD		57.3	(17%-157%)
		13C-2,3,7,8-TCDF		68.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		64.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		71.9	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		63.1	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		67.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		69.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		61.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		64.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		72.3	(26%-138%)
		37Cl-2,3,7,8-TCDD		84.8	(35%-197%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21423**
Client ID: **LCS for batch 52695**
Lab Sample ID: **12034326**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample**
Matrix: **WATER**
Analysis Date: **06/24/2023 08:48**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	231	116	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	986	98.6	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1130	113	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	988	98.8	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1090	109	64-162
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	1100	110	70-140
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	2150	107	78-144
51207-31-9	LCS	2,3,7,8-TCDF	200	224	112	75-158
57117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1080	108	80-134
57117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1090	109	68-160
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1070	107	72-134
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1080	108	84-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1090	109	70-156
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1060	106	78-130
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1150	115	82-122
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1160	116	78-138
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2430	122	63-170

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21423**
Client ID: **LCSD for batch 52695**
Lab Sample ID: **12034327**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample Duplicate**
Matrix: **WATER**
Analysis Date: **06/24/2023 09:36**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	213	106	67-158	8.30	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	998	99.8	70-142	1.23	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	991	99.1	70-164	13.4	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	993	99.3	76-134	0.541	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1050	105	64-162	4.24	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	1020	102	70-140	7.71	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1980	98.9	78-144	8.13	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	224	112	75-158	0.00894	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1040	104	80-134	3.77	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	1080	108	68-160	0.973	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1010	101	72-134	5.48	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1000	100	84-130	7.42	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1030	103	70-156	5.76	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	1080	108	78-130	1.39	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	1090	109	82-122	4.76	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	1070	107	78-138	8.11	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	2240	112	63-170	8.11	0-20

Method Blank Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 52695**	**Instrument ID:**	**HRP722**	**Data File:**	**f23jun23a_3-3**
Lab Sample ID:	**12034325**	**Prep Date:**	**23-MAY-23**	**Analyzed:**	**06/24/23 10:25**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 52695	12034326	f23jun23a_3-1	06/24/23	0848
02	LCSD for batch 52695	12034327	f23jun23a_3-2	06/24/23	0936
03	SIB-SW-WR198-102122	21423001	f23jun23a_3-4	06/24/23	1114
04	SIB-SW-WR186-102122	21423002	f23jun23a_3-5	06/24/23	1203
05	SIB-SW-WR15-102122	21423003	f23jun23a_3-6	06/24/23	1252
06	SIB-SW-WR428-102122	21423004	f23jun23a_3-7	06/24/23	1341
07	SIB-SW-WR71-102122	21423005	f23jun23a_3-8	06/24/23	1429

Sample Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423001**	**Date Collected:**	**10/21/2022 14:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR198-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 11:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-4**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**970.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.94	pg/L	3.94	5.15
40321-76-4	1,2,3,7,8-PeCDD	U	3.05	pg/L	3.05	25.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.50	pg/L	3.50	51.5
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.36	pg/L	3.36	51.5
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.42	pg/L	3.42	51.5
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.74	pg/L	4.74	51.5
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	7.42	pg/L	7.42	103
51207-31-9	2,3,7,8-TCDF	U	3.87	pg/L	3.87	10.3
57117-41-6	1,2,3,7,8-PeCDF	U	1.88	pg/L	1.88	51.5
57117-31-4	2,3,4,7,8-PeCDF	U	1.64	pg/L	1.64	51.5
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.54	pg/L	1.54	51.5
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.57	pg/L	1.57	51.5
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.79	pg/L	1.79	51.5
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.68	pg/L	2.68	51.5
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.31	pg/L	2.31	51.5
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.54	pg/L	3.54	51.5
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	9.52	pg/L	9.52	103
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.94	pg/L	3.94	10.3
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.05	pg/L	3.05	51.5
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.36	pg/L	3.36	51.5
TCDF	Total Tetrachlorodibenzofuran	U	3.87	pg/L	3.87	10.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	4.74	pg/L	4.74	51.5
30402-15-4	Total Pentachlorodibenzofuran	U	1.64	pg/L	1.64	51.5
55684-94-1	Total Hexachlorodibenzofuran	U	1.54	pg/L	1.54	51.5
38998-75-3	Total Heptachlorodibenzofuran	U	2.31	pg/L	2.31	51.5
TEQ	TEQ WHO2005 ND=0		0.000	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.91	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1270	2060	pg/L	61.6	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	2060	pg/L	66.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1380	2060	pg/L	67.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1490	2060	pg/L	72.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1420	2060	pg/L	68.9	(23%-140%)
13C-OCDD		2400	4120	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1240	2060	pg/L	60.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1250	2060	pg/L	60.7	(24%-185%)
13C-2,3,4,7,8-PeCDF		1300	2060	pg/L	63.0	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2060	pg/L	67.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1460	2060	pg/L	70.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1400	2060	pg/L	68.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	2060	pg/L	61.6	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423001**	**Date Collected:**	**10/21/2022 14:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR198-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 11:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-4**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**970.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1350	2060	pg/L	65.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1380	2060	pg/L	66.9	(26%-138%)
37Cl-2,3,7,8-TCDD		153	206	pg/L	74.5	(35%-197%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 3:05:04 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:03 PM Eastern Daylight Time

06/29/2023

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.191		2802			1054			
2	12378-PeCDD							NO		0.148		2353			648			
3	123478-HxCDD							NO		0.170		1107			1468			
4	123678-HxCDD							NO		0.163		1107			1468			
5	123789-HxCDD							NO		0.166		1107			1468			
6	1234678-HpCDD							NO		0.230		1128			1353			
7	OCDD	1.76e2	2.98e2	4.74e2	44.32	0.999	0.59	YES	0.320	0.360	6.95e3	886	7.8	5.16e3	885	5.8	MM	MM
8	2378-TCDF							NO		0.188		1560			3503			
9	12378-PeCDF							NO		0.0912		1188			2959			
10	23478-PeCDF							NO		0.0795		1188			2959			
11	123478-HxCDF							NO		0.0749		1441			980			
12	123678-HxCDF							NO		0.0764		1441			980			
13	234678-HxCDF							NO		0.0868		1441			980			
14	123789-HxCDF							NO		0.130		1441			980			
15	1234678-HpCDF	8.72e1	6.72e1	1.54e2	38.91	1.001	1.30	YES	0.031	0.112	3.38e3	1449	2.3	2.83e3	1523	1.9	bb	bb
16	1234789-HpCDF							NO		0.172		1449			1523			
17	OCDF							NO		0.462		1324			2275			
18	13C-2378-TCDD	1.42e5	1.79e5	3.21e5	31.28	1.017	0.79	NO	61.553	0.369	2.03e6	6159	329.4	2.56e6	3126	819.6	bd	bd
19	13C-12378-PeCDD	1.52e5	9.39e4	2.46e5	34.15	1.110	1.62	NO	66.180	0.420	2.69e6	4226	635.8	1.66e6	3314	500.2	bd	bd
20	13C-123478-HxCDD	1.13e5	8.75e4	2.00e5	36.76	0.991	1.29	NO	67.066	0.935	1.98e6	7560	262.4	1.59e6	7448	213.7	bd	bd
21	13C-123678-HxCDD	1.47e5	1.15e5	2.62e5	36.85	0.994	1.28	NO	72.332	0.772	2.09e6	7560	275.9	1.72e6	7448	230.7	dd	dd
22	13C-1234678-HpCDD	1.00e5	9.39e4	1.94e5	40.14	1.082	1.07	NO	68.943	0.542	1.14e6	3390	335.2	1.06e6	4817	220.1	bd	bd
23	13C-OCDD	1.27e5	1.41e5	2.68e5	44.37	1.196	0.90	NO	116.574	0.857	1.05e6	5217	201.4	1.21e6	5364	225.6	bd	bd
24	13C-2378-TCDF	2.13e5	2.66e5	4.79e5	30.58	0.994	0.80	NO	60.296	0.197	2.21e6	4070	542.7	2.78e6	3473	799.7	bd	bd
25	13C-12378-PeCDF	2.98e5	1.80e5	4.77e5	33.35	1.084	1.66	NO	60.686	0.963	5.57e6	26364	211.2	3.38e6	10208	331.5	bd	bd
26	13C-23478-PeCDF	2.91e5	1.75e5	4.67e5	33.97	1.104	1.66	NO	62.963	1.02	5.84e6	26364	221.5	3.36e6	10208	329.5	bb	bb
27	13C-123478-HxCDF	1.06e5	1.99e5	3.05e5	36.05	0.972	0.54	NO	67.035	0.711	1.99e6	7355	270.3	3.50e6	10032	349.1	bd	bd
28	13C-123678-HxCDF	1.39e5	2.59e5	3.98e5	36.14	0.975	0.54	NO	70.722	0.575	2.01e6	7355	273.8	3.94e6	10032	392.8	dd	dd
29	13C-234678-HxCDF	1.14e5	2.06e5	3.21e5	36.63	0.988	0.55	NO	68.105	0.687	1.75e6	7355	238.0	3.28e6	10032	327.0	bd	bd
30	13C-123789-HxCDF	9.12e4	1.67e5	2.58e5	37.42	1.009	0.55	NO	61.610	0.772	1.27e6	7355	172.4	2.25e6	10032	224.3	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 3:05:04 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:03 PM Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.15e5	2.41e5	3.56e5	38.88	1.048	0.47	NO	65.735	0.966	1.54e6	12516	123.4	3.18e6	15590	204.2	bb	bb
32	13C-1234789-HpCDF	8.59e4	1.96e5	2.82e5	40.81	1.101	0.44	NO	66.886	1.24	9.67e5	12516	77.3	2.14e6	15590	137.5	bd	bb
33	13C-1234-TCDD	2.08e5	2.50e5	4.58e5	30.77	0.000	0.83	NO	100.000	0.420	2.51e6	6159	407.8	3.08e6	3126	985.2	bd	bb
34	13C-123789-HxCDD	1.98e5	1.54e5	3.52e5	37.08	0.000	1.28	NO	100.000	0.793	2.66e6	7560	351.5	2.10e6	7448	282.0	dd	dd
35	37Cl-2378-TCDD	3.83e4		3.83e4	31.30	1.017			7.445	0.0915	5.81e5	2272	255.9				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-4, ID:21423001-1, Description: 52698

M	M2
7 OCDD 44.32 - AB	7 OCDD 44.32 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW
06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 3:05:04 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:03 PM Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.05e2	9.75e1	2.03e2	26.95	1.08	YES	0.057	0.191	6.90e3	2802	2.5	2.72e3	1054	2.6	bb	bb
2	Total-tetradioxins	2.52e2	1.07e2	3.59e2	26.34	2.36	YES	0.102	0.191	3.71e3	2802	1.3	2.39e3	1054	2.3	db	db
3	Total-tetradioxins	1.29e2	5.09e1	1.80e2	26.19	2.54	YES	0.051	0.191	3.07e3	2802	1.1	1.12e3	1054	1.1	dd	bd
4	Total-tetradioxins	8.17e1	8.44e1	1.66e2	26.03	0.97	YES	0.047	0.191	3.15e3	2802	1.1	3.31e3	1054	3.1	bd	bb
5	Total-tetradioxins	8.79e1	6.08e1	1.49e2	31.91	1.45	YES	0.042	0.191	2.55e3	2802	0.9	3.05e3	1054	2.9	bb	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentadioxins	6.72e1	5.50e1	1.22e2	32.83	1.22	YES	0.043	0.148	2.15e3	2353	0.9	5.37e3	648	8.3	db	bb

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	1.09e2	9.14e1	2.00e2	36.63	1.19	NO	0.081	0.166	2.56e3	1107	2.3	4.42e3	1468	3.0	bb	bb
2	Total-hexadioxins	8.56e1	1.16e2	2.02e2	36.19	0.74	YES	0.082	0.166	6.31e3	1107	5.7	4.05e3	1468	2.8	bb	bd
3	Total-hexadioxins	7.06e1	9.09e1	1.61e2	36.05	0.78	YES	0.065	0.166	1.50e3	1107	1.4	6.58e3	1468	4.5	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	1.33e2	5.33e1	1.86e2	40.11	2.49	YES	0.078	0.230	5.80e3	1128	5.1	3.19e3	1353	2.4	bb	bb
2	Total-heptadioxins	6.16e1	5.02e1	1.12e2	38.93	1.23	YES	0.047	0.230	3.16e3	1128	2.8	1.61e3	1353	1.2	db	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 3:05:04 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:03 PM Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.54e1	7.58e1	1.31e2	28.64	0.73	NO	0.020	0.188	3.27e3	1560	2.1	3.29e3	3503	0.9	bd	bb
2	Total-tetrafurans	7.71e1	2.18e2	2.95e2	27.80	0.35	YES	0.046	0.188	2.88e3	1560	1.8	6.01e3	3503	1.7	bb	bb
3	Total-tetrafurans	1.12e2	1.12e2	2.24e2	27.36	1.01	YES	0.035	0.188	4.00e3	1560	2.6	6.32e3	3503	1.8	bb	bb
4	Total-tetrafurans	5.30e1	8.67e1	1.40e2	27.00	0.61	YES	0.022	0.188	2.41e3	1560	1.5	3.44e3	3503	1.0	bb	db
5	Total-tetrafurans	6.53e1	1.91e2	2.56e2	26.87	0.34	YES	0.040	0.188	3.67e3	1560	2.4	5.01e3	3503	1.4	bb	bd
6	Total-tetrafurans	6.40e1	1.26e2	1.90e2	26.60	0.51	YES	0.029	0.188	3.52e3	1560	2.3	3.80e3	3503	1.1	db	bb
7	Total-tetrafurans	6.53e1	1.60e2	2.25e2	25.94	0.41	YES	0.035	0.188	1.72e3	1560	1.1	1.10e4	3503	3.1	bb	bb
8	Total-tetrafurans	1.45e2	1.73e2	3.18e2	31.30	0.84	NO	0.049	0.188	3.78e3	1560	2.4	4.69e3	3503	1.3	bb	dd
9	Total-tetrafurans	5.59e1	5.84e1	1.14e2	30.73	0.96	YES	0.018	0.188	1.92e3	1560	1.2	3.53e3	3503	1.0	bb	bb
10	Total-tetrafurans	5.71e1	8.39e1	1.41e2	30.34	0.68	NO	0.022	0.188	3.86e3	1560	2.5	4.04e3	3503	1.2	bb	bb
11	Total-tetrafurans	5.13e1	5.73e1	1.09e2	30.20	0.90	YES	0.017	0.188	1.81e3	1560	1.2	2.99e3	3503	0.9	bb	bb
12	Total-tetrafurans	7.16e1	1.25e2	1.96e2	29.26	0.57	YES	0.030	0.188	3.63e3	1560	2.3	5.08e3	3503	1.5	db	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	8.26e1	8.89e1	1.72e2	33.98	0.93	YES	0.027	0.0851	3.06e3	1188	2.6	5.04e3	2959	1.7	bb	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

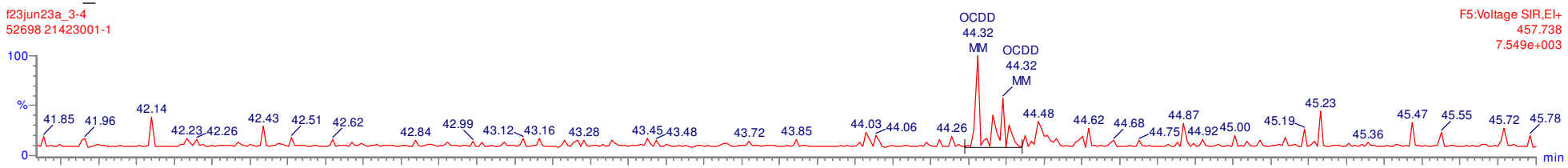
Last Altered: Wednesday, June 28, 2023 3:05:04 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:03 PM Eastern Daylight Time

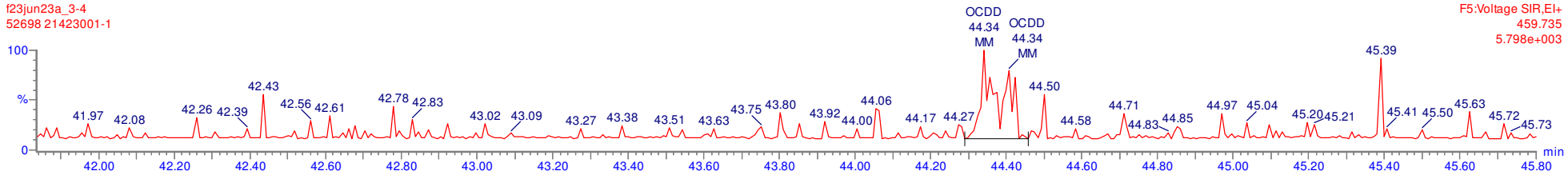
Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	6.26e1	5.35e1	1.16e2	41.42	1.17	NO	0.027	0.138	6.06e3	1449	4.2	5.13e3	1523	3.4	bb	bb
2	1234678-HpCDF	8.72e1	6.72e1	1.54e2	38.91	1.30	YES	0.031	0.112	3.38e3	1449	2.3	2.83e3	1523	1.9	bb	bb

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

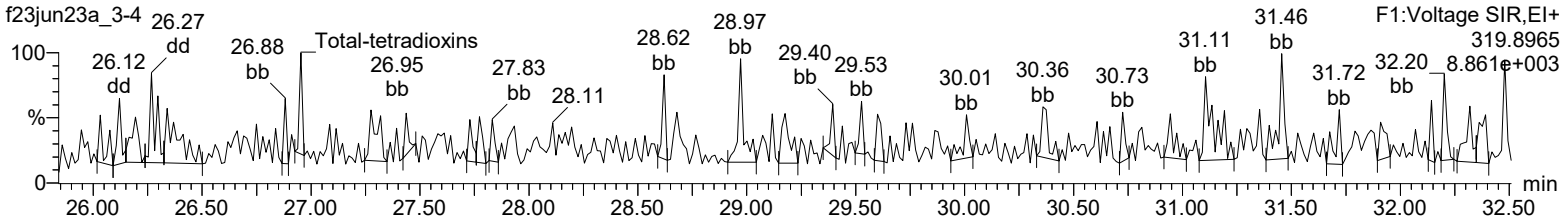
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

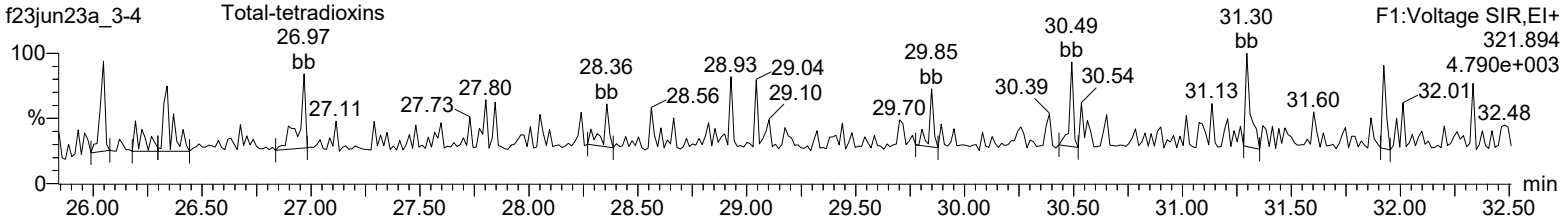
AMA 06/29/2023

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

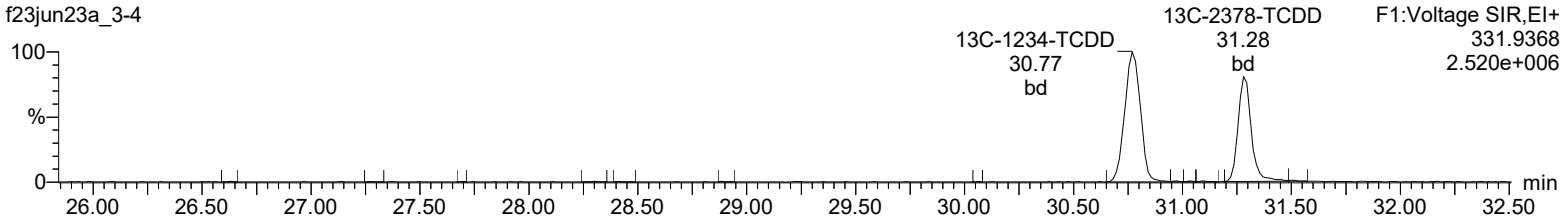
Total-tetradioxins



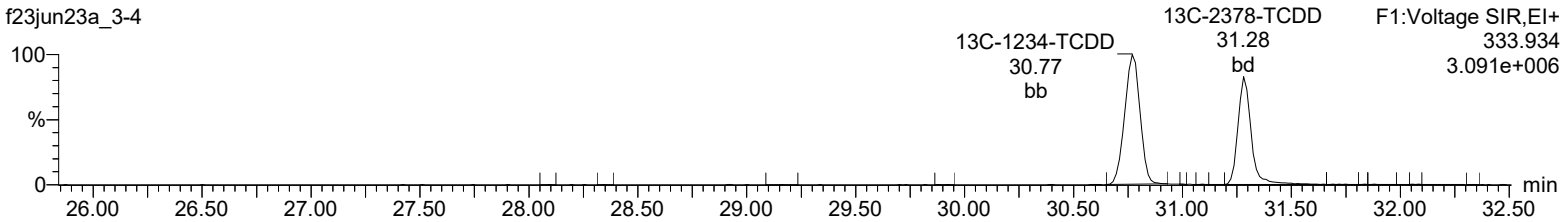
Total-tetradioxins



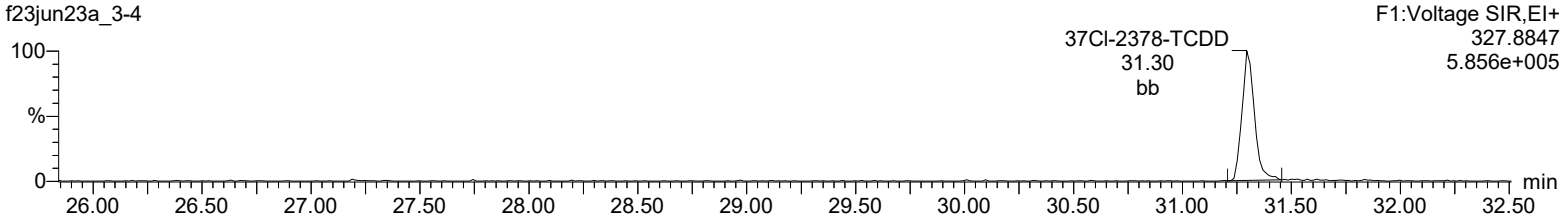
13C-2378-TCDD



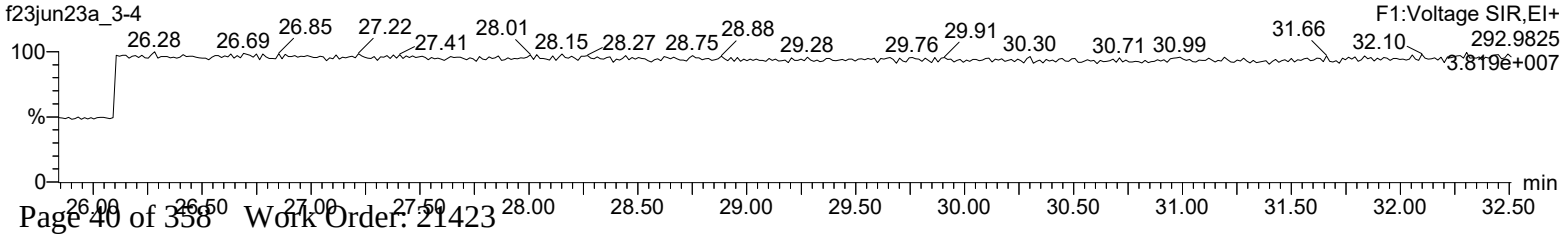
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



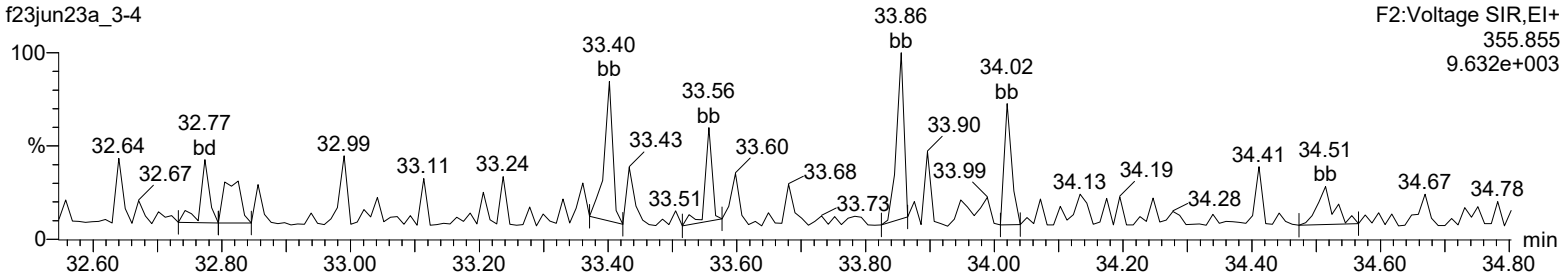
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

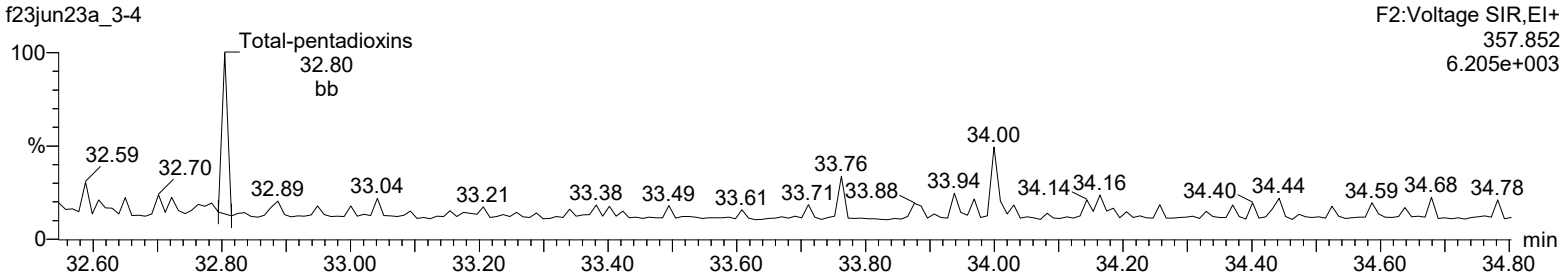
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

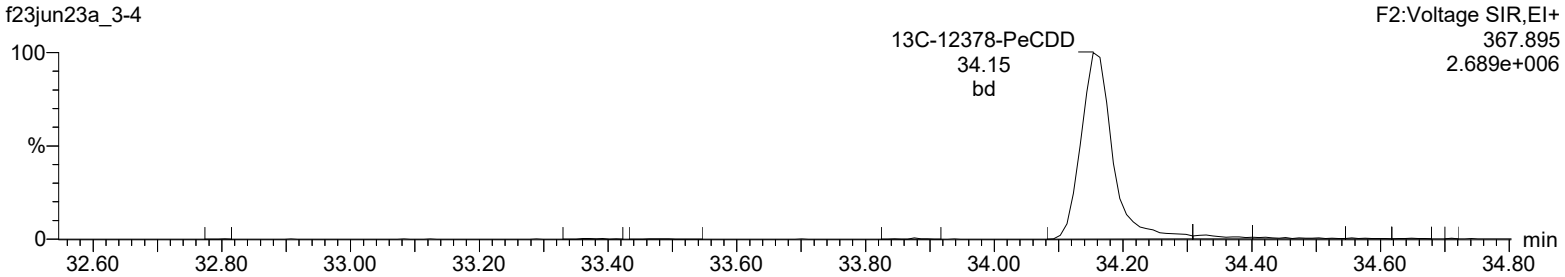
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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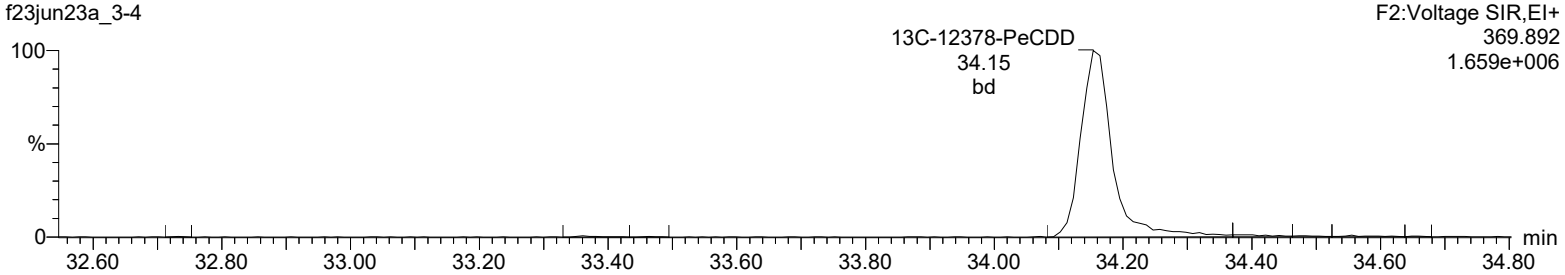
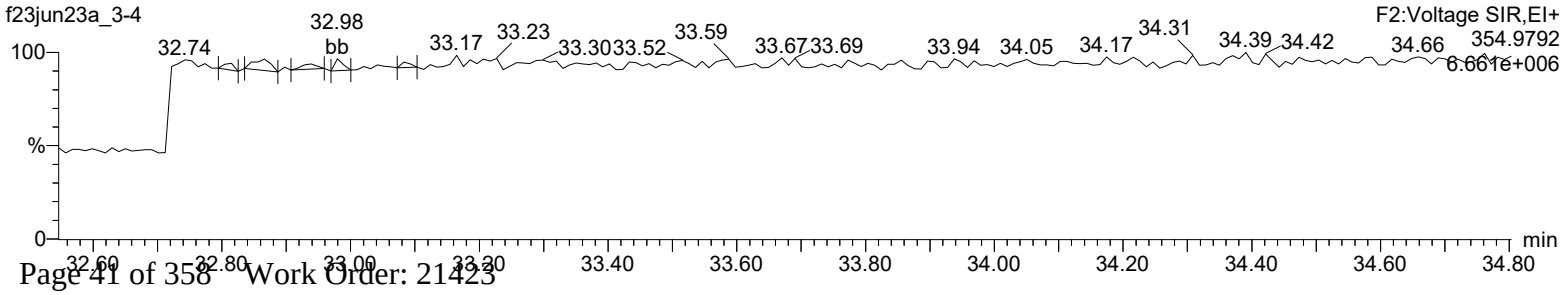


Lock Mass F2



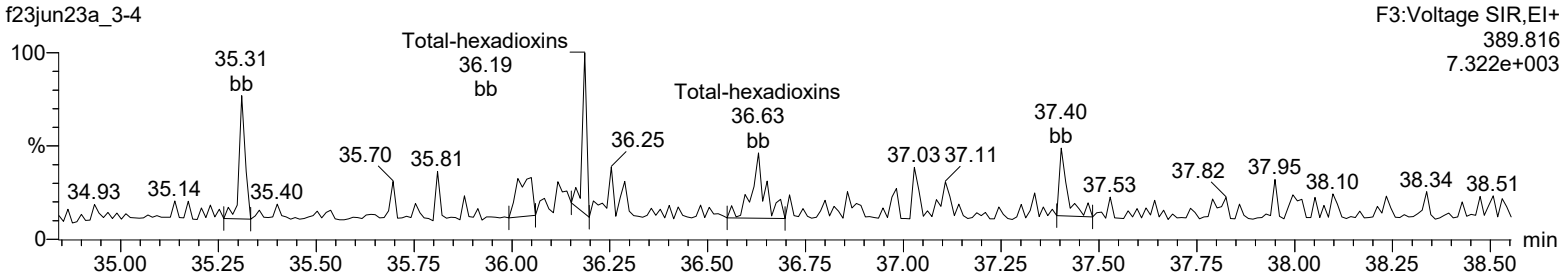
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

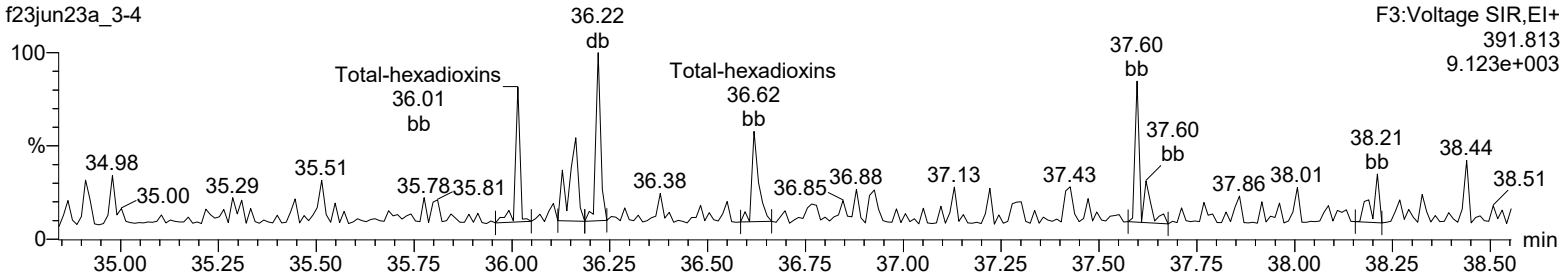
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

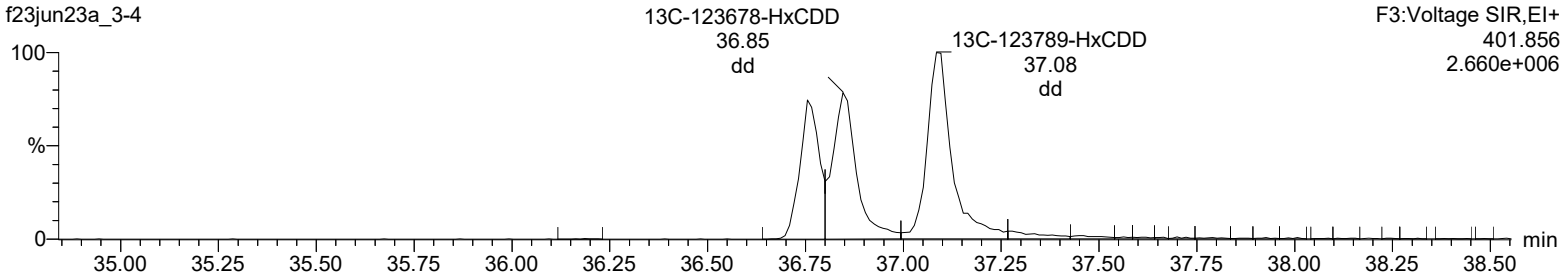
Total-hexadioxins



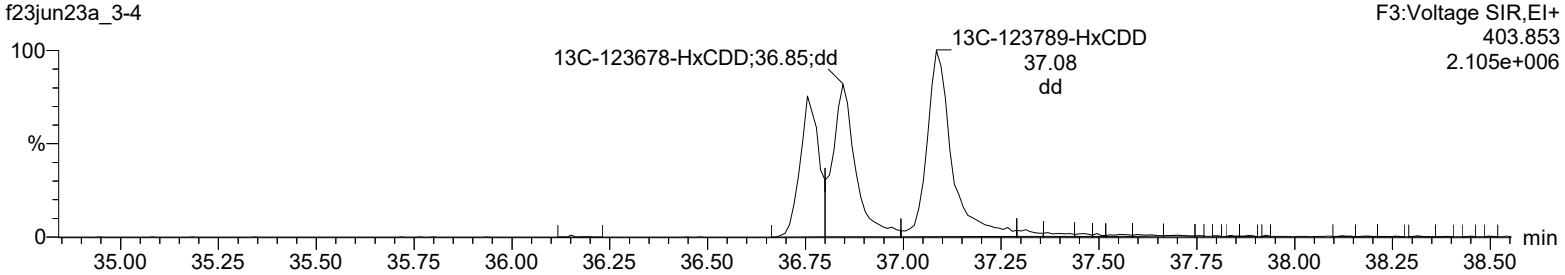
Total-hexadioxins



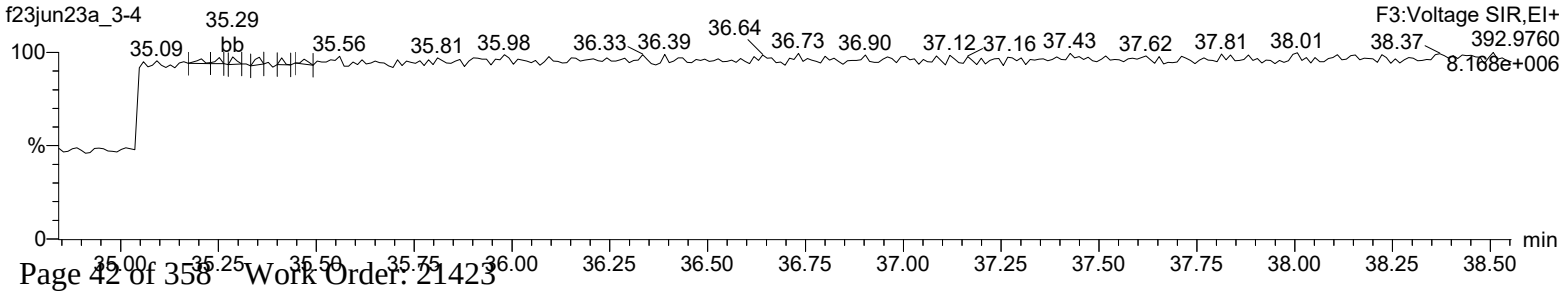
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



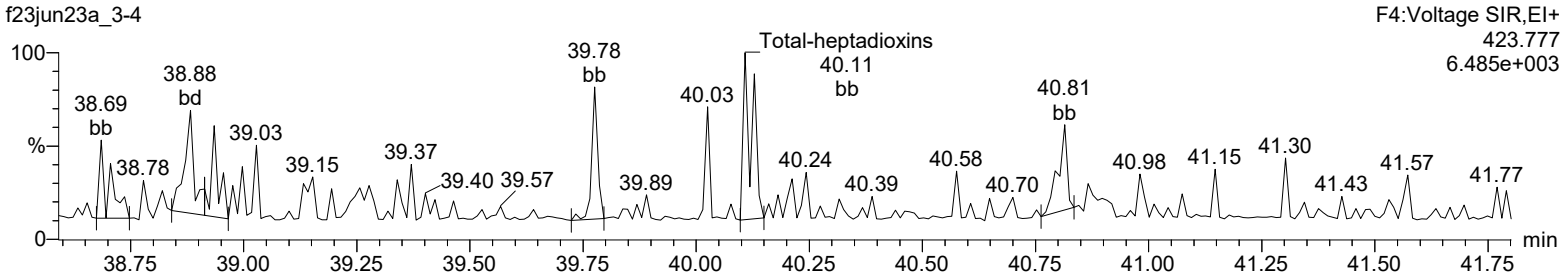
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

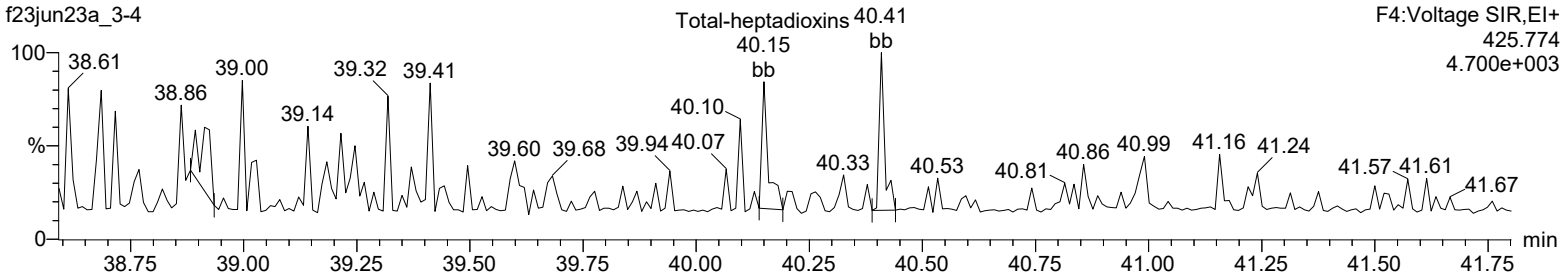
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

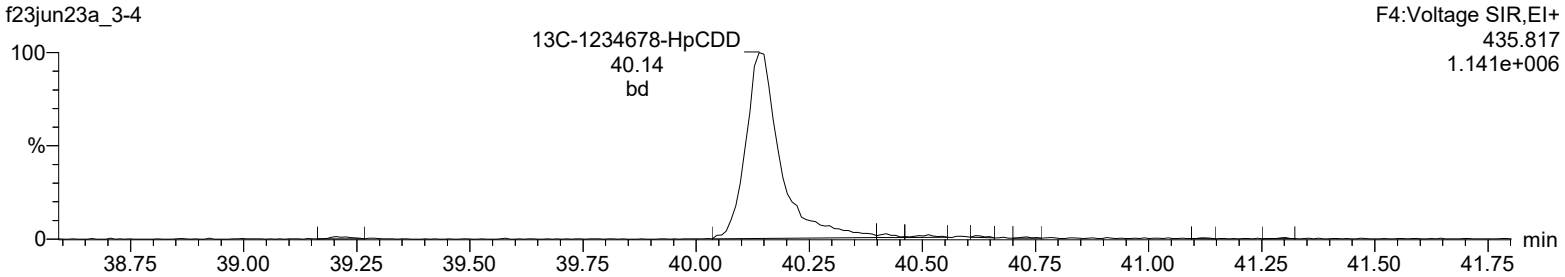
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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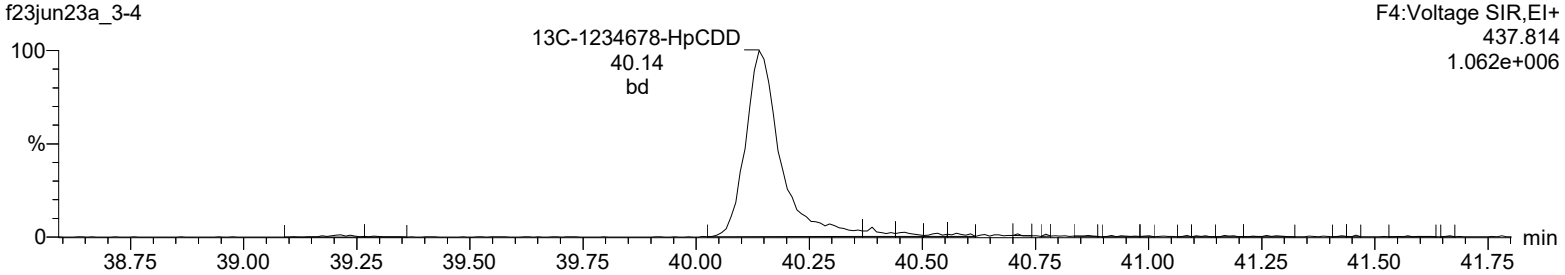
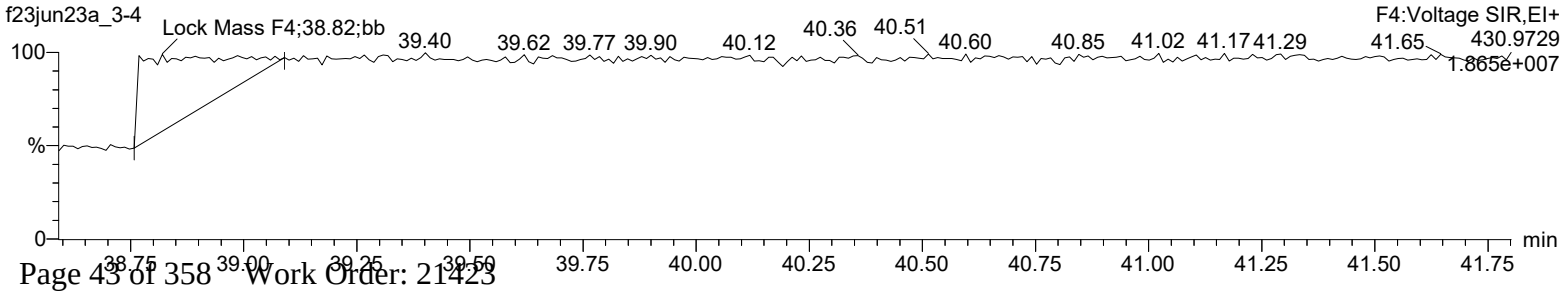


Lock Mass F4



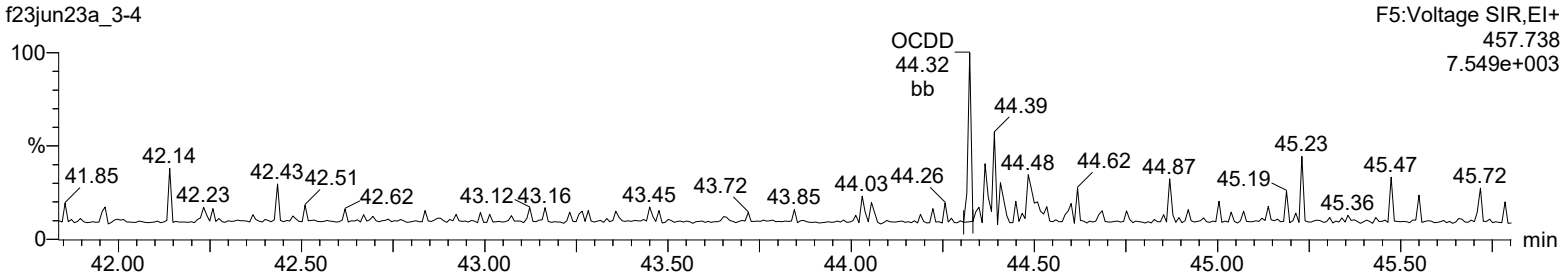
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

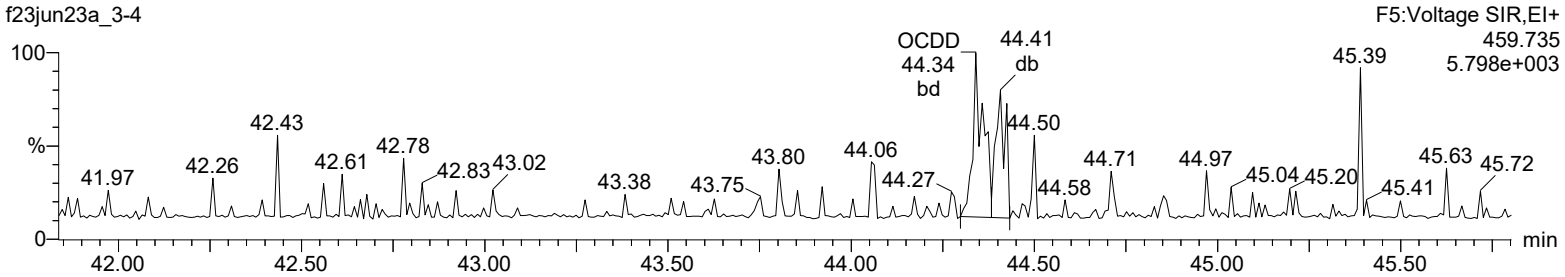
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

OCDD



OCDD



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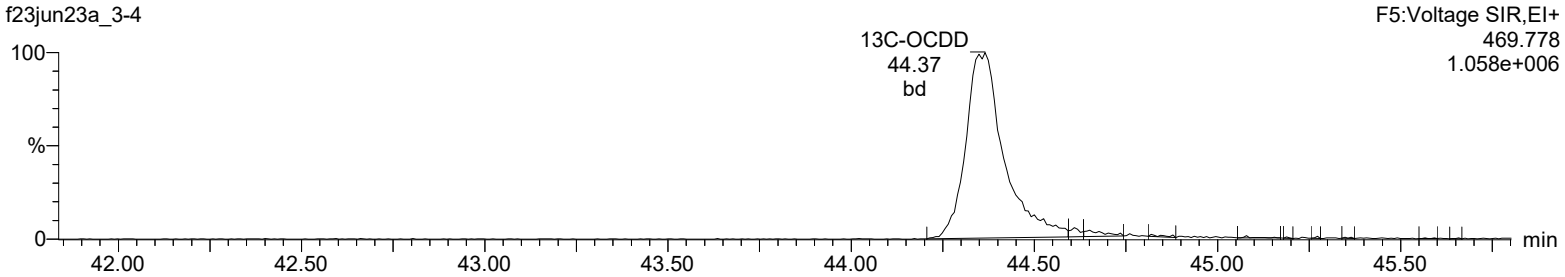
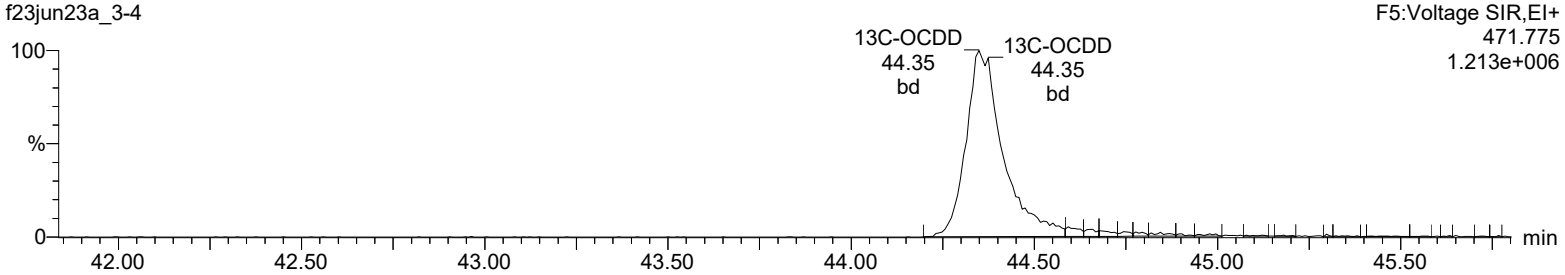
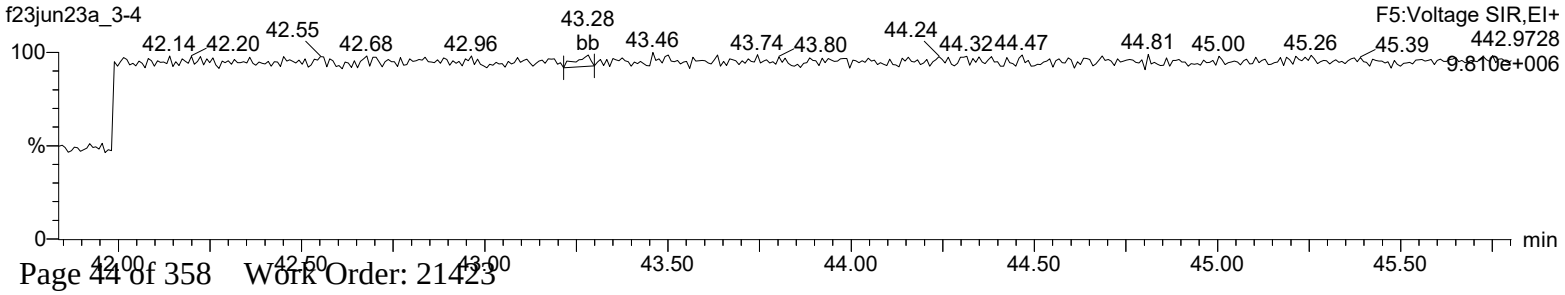


13C-OCDD



Lock Mass F5



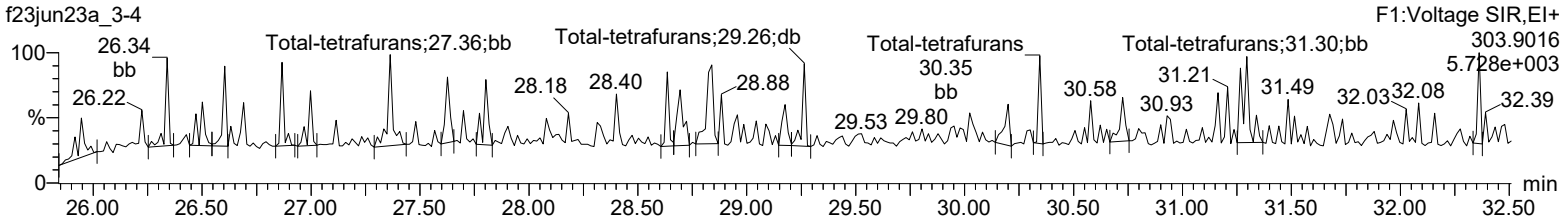
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

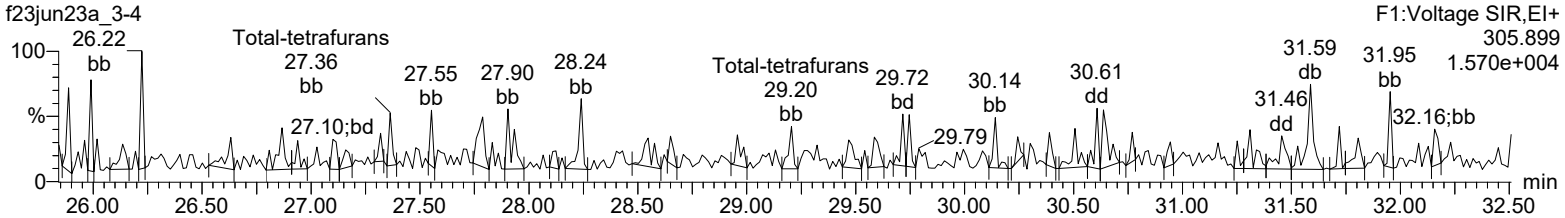
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

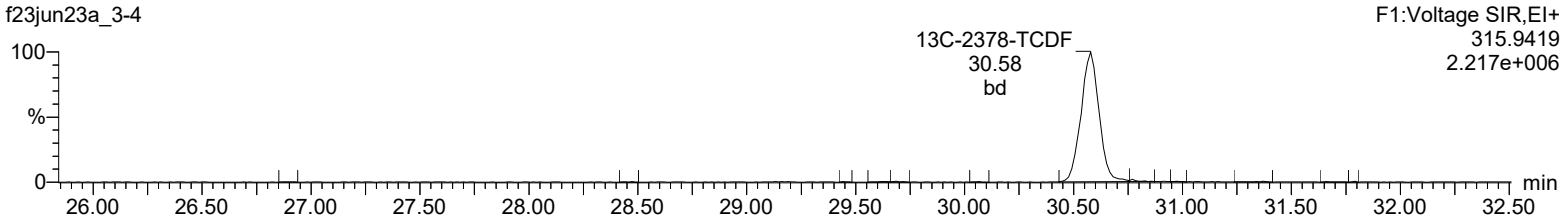
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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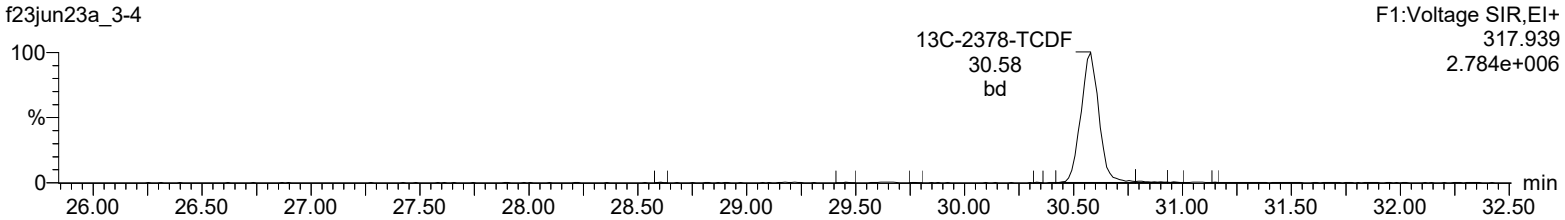
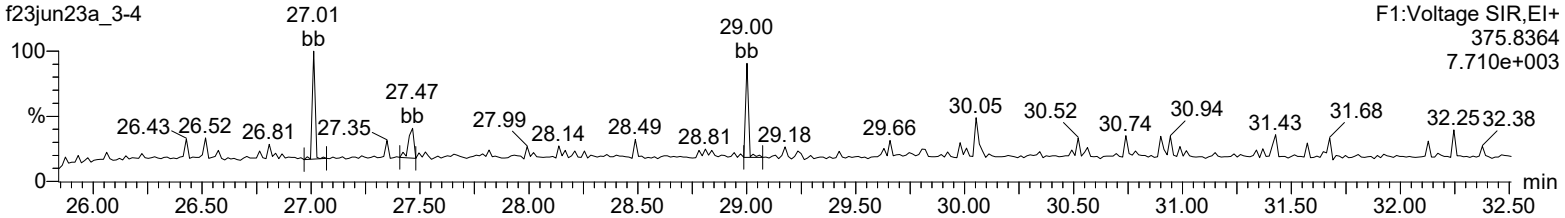
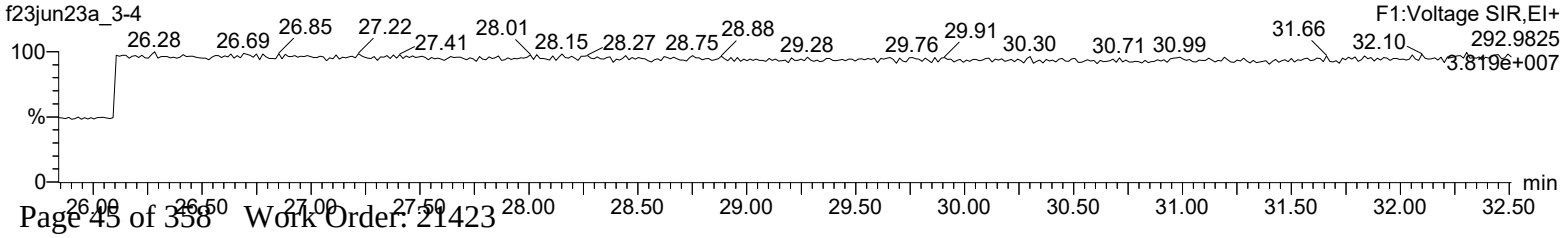


HxDPE



Lock Mass F1



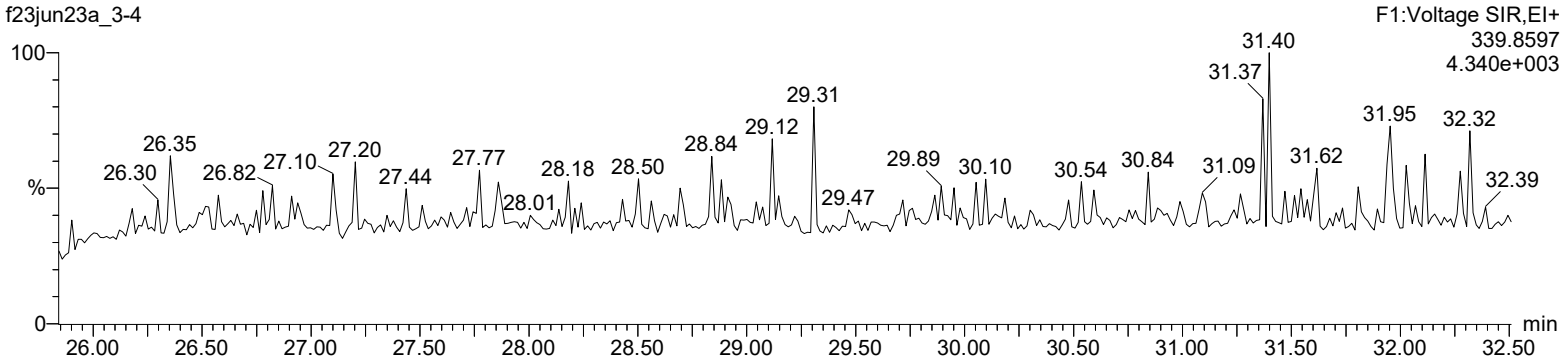
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

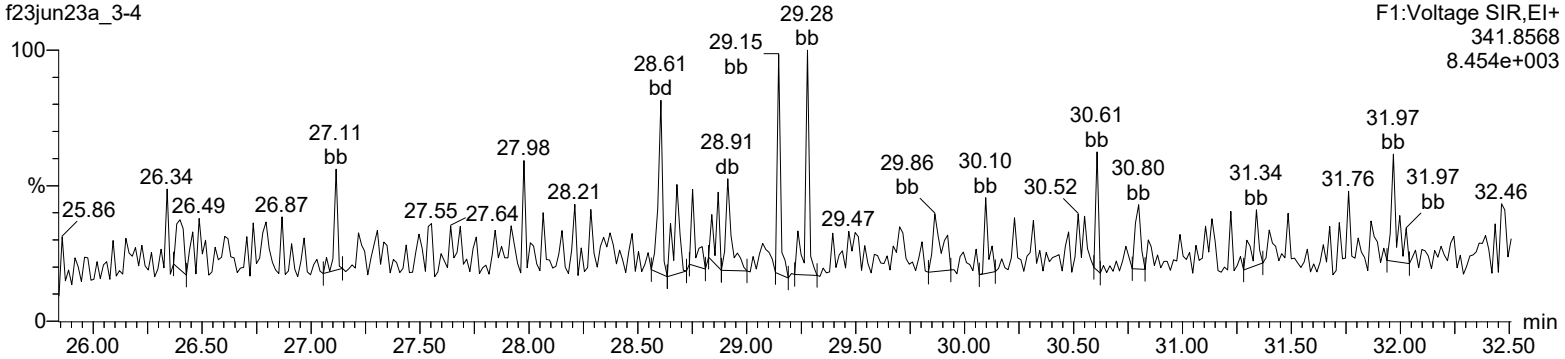
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentafurans (F1)



Total-pentafurans (F1)



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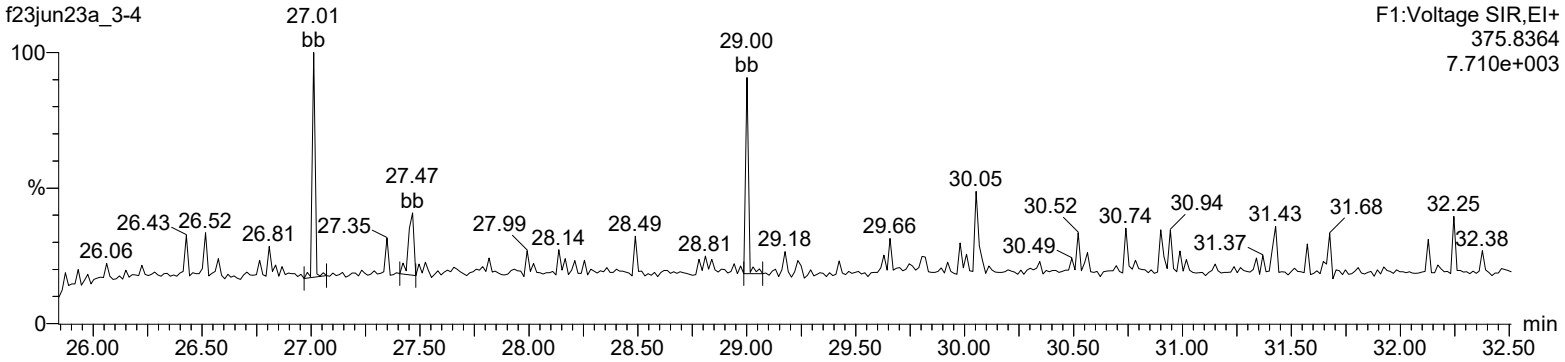
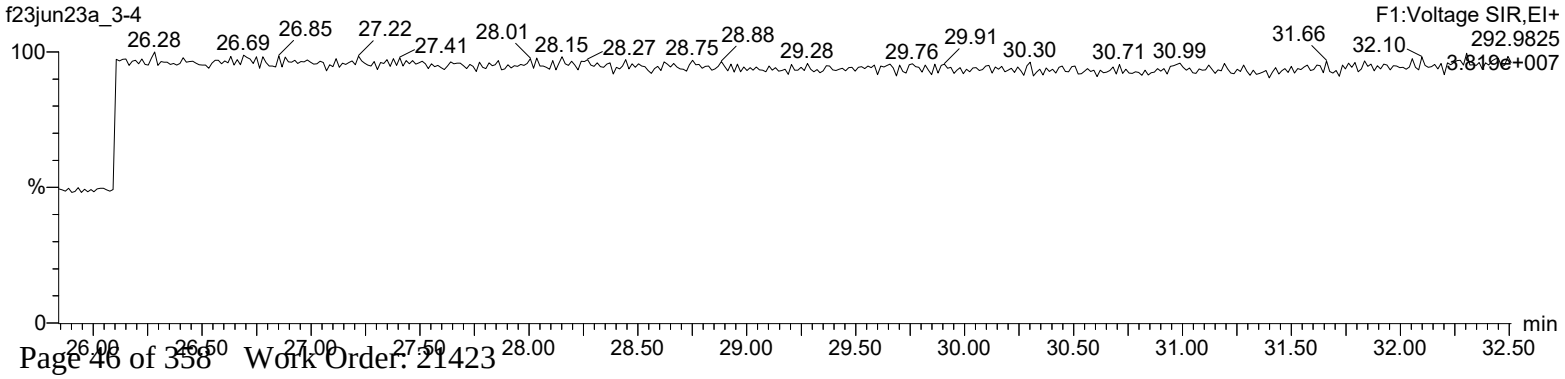


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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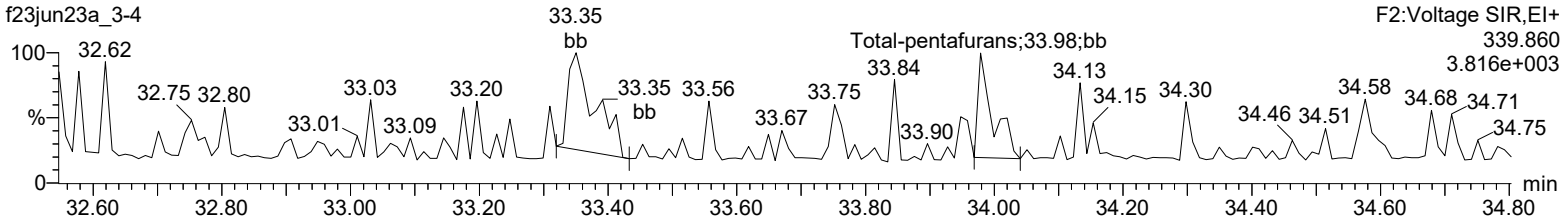
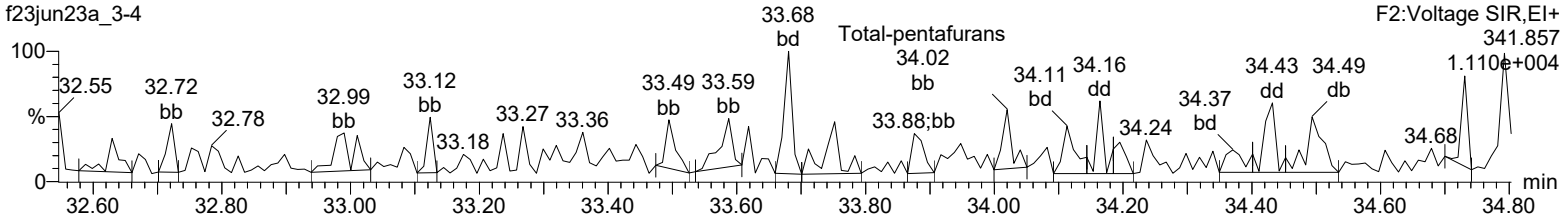
Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

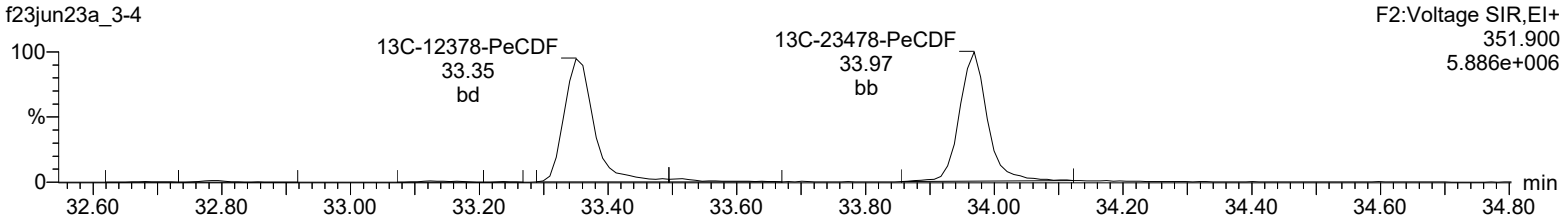
Total-pentafurans



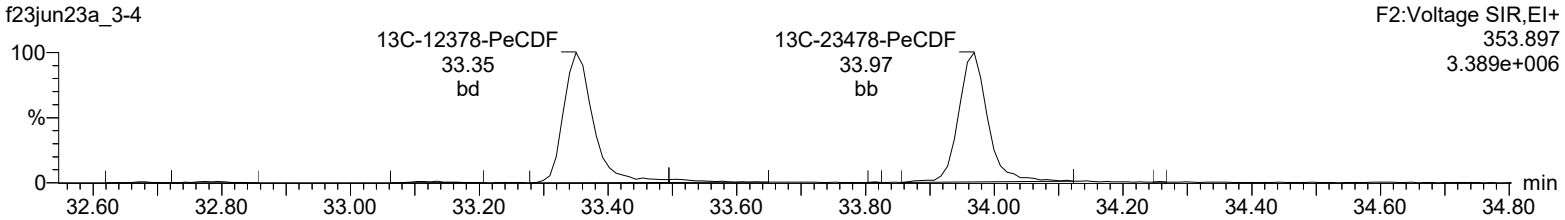
Total-pentafurans



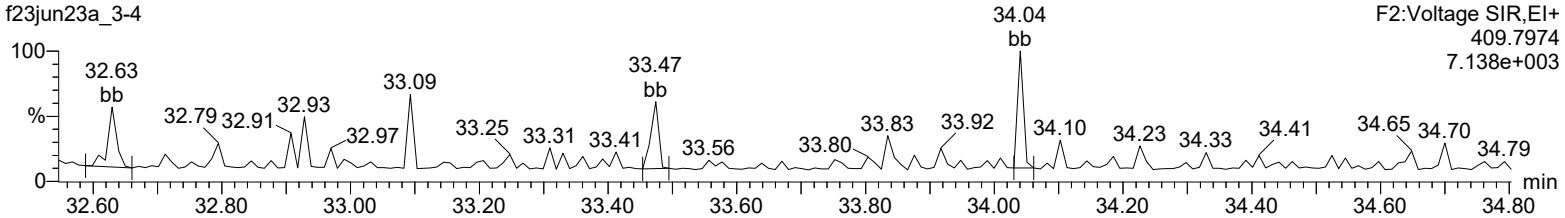
13C-12378-PeCDF



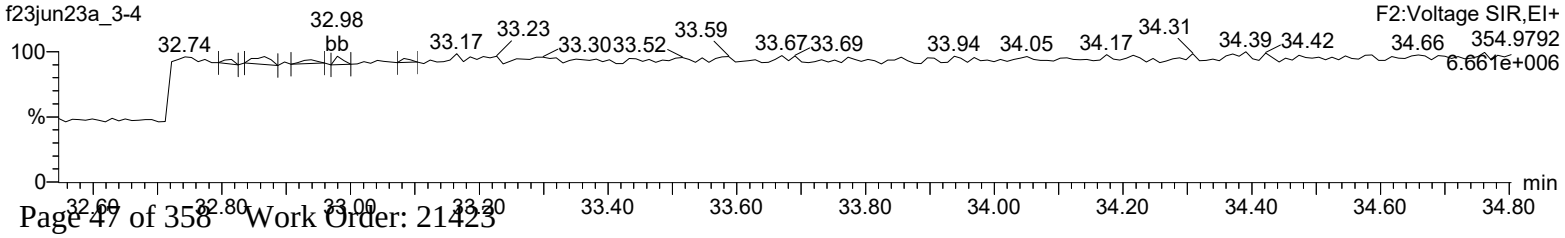
13C-12378-PeCDF



HpDPE



Lock Mass F2



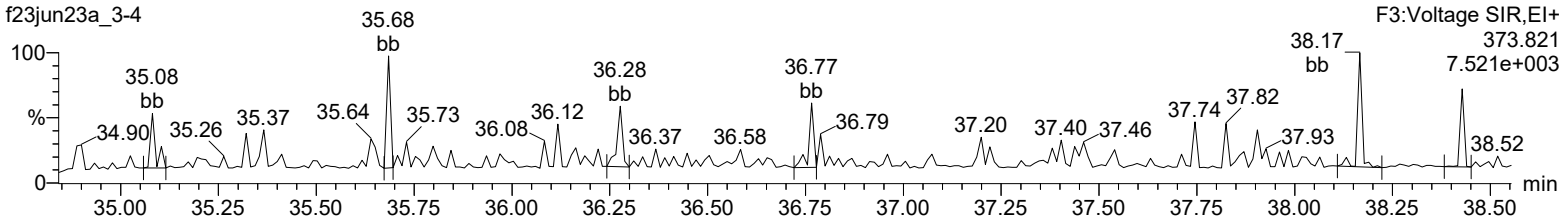
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

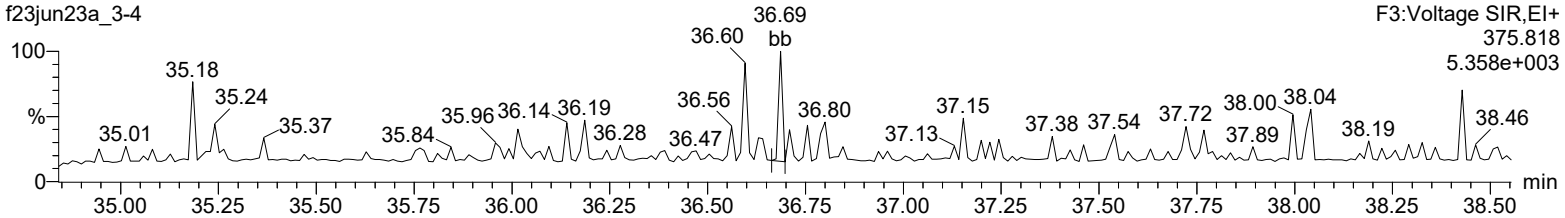
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

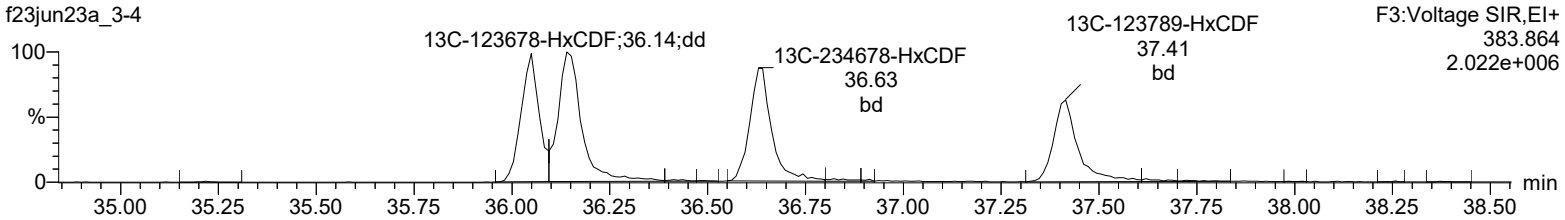
Total-hexafurans



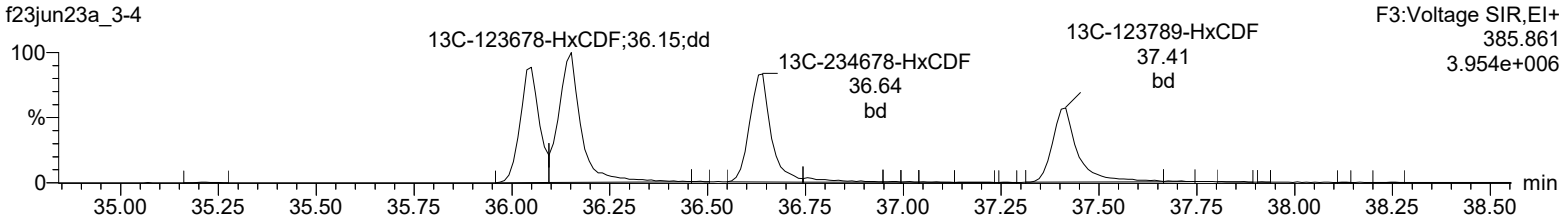
Total-hexafurans



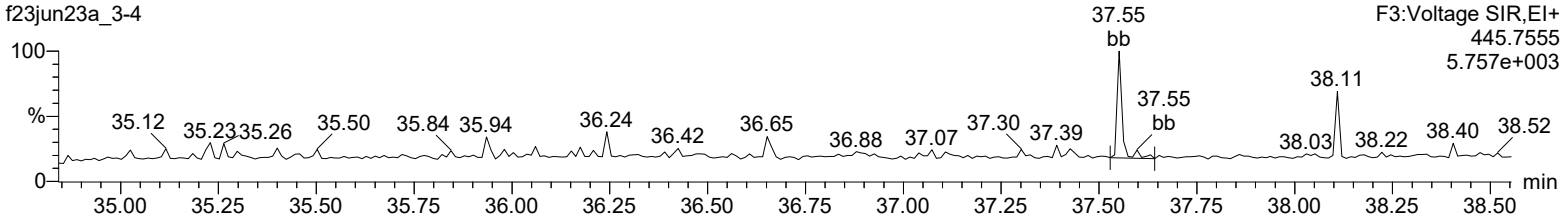
13C-123478-HxCDF



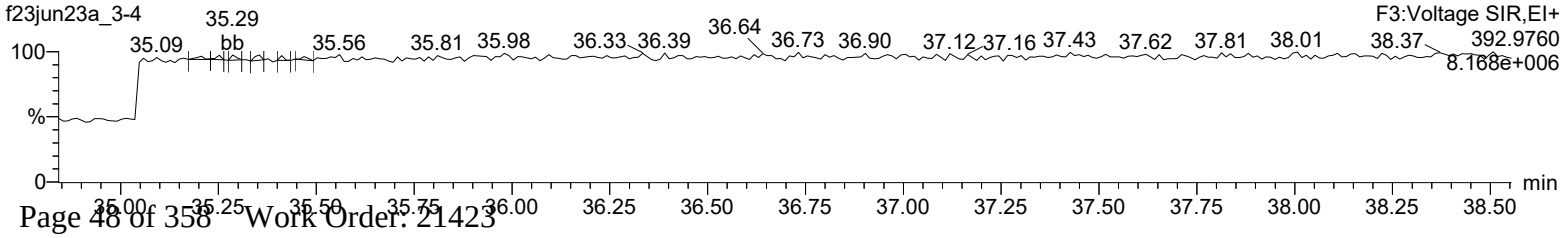
13C-123478-HxCDF



OcDPE



Lock Mass F3



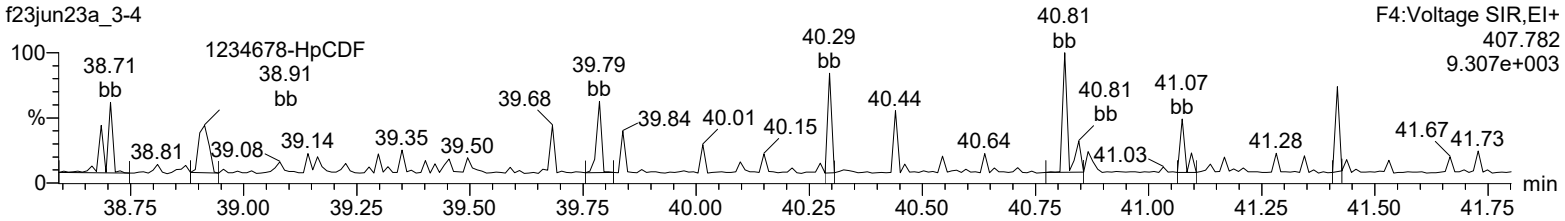
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

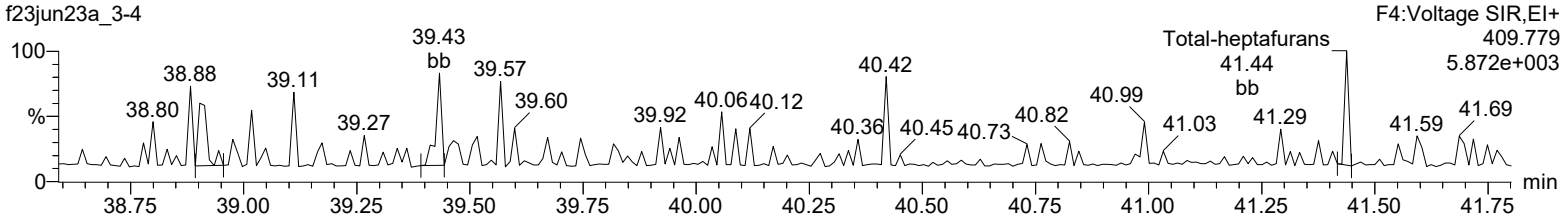
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

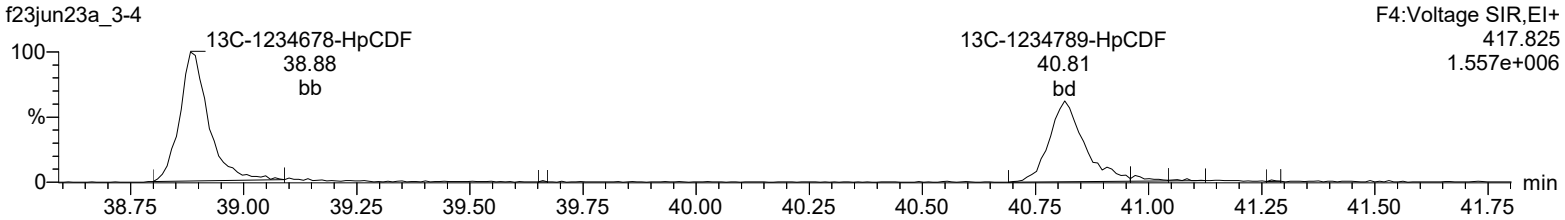
Total-heptafurans



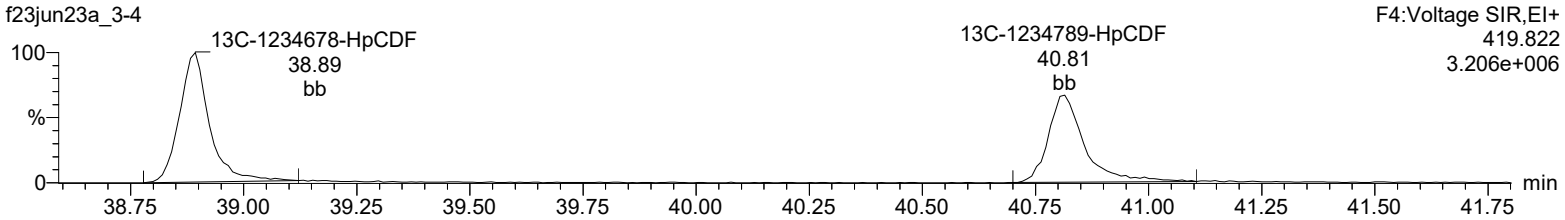
Total-heptafurans



13C-1234678-HpCDF



13C-1234678-HpCDF



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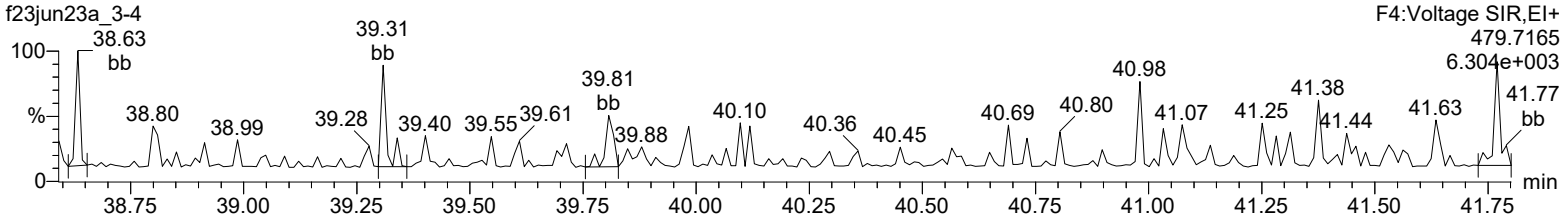
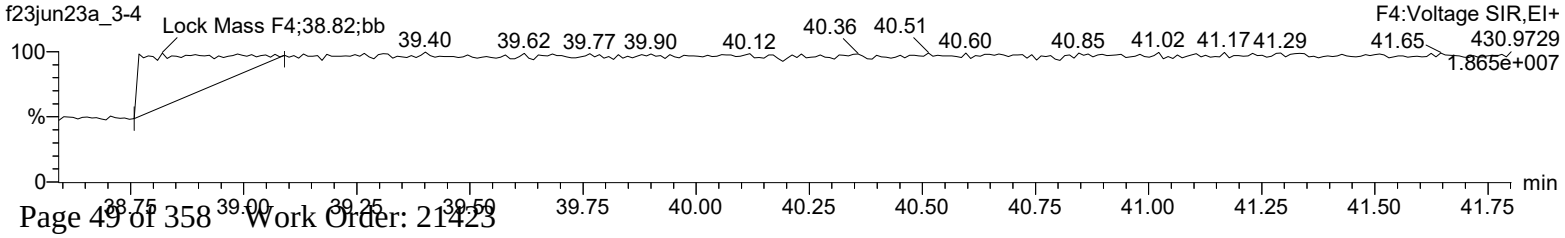


Lock Mass F4



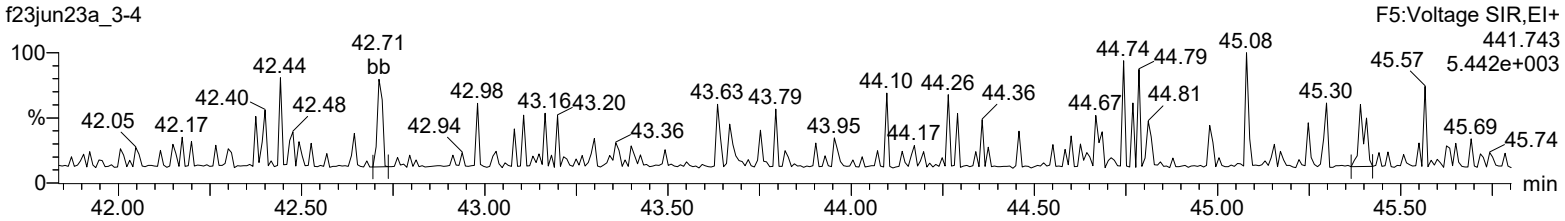
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

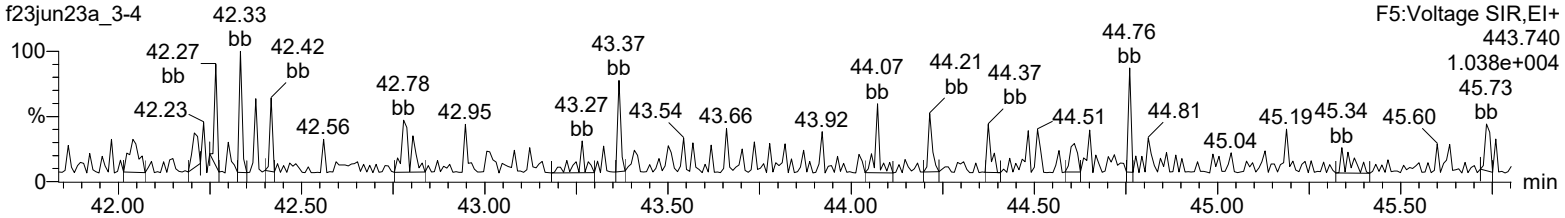
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-4, Date: 24-Jun-2023, Time: 11:14:10, ID: 21423001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

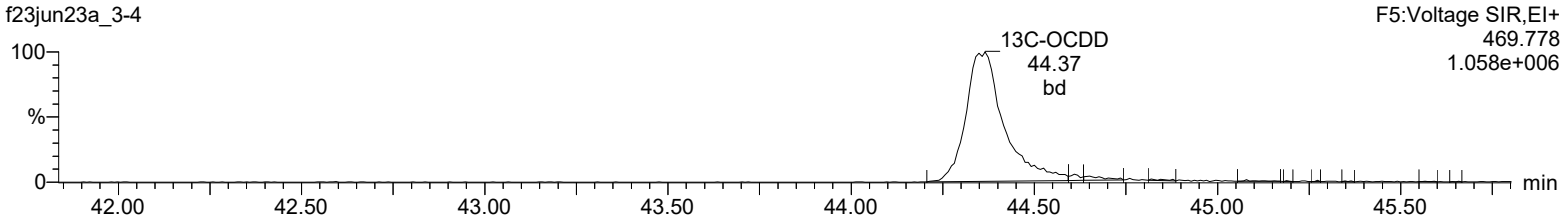
OCDF



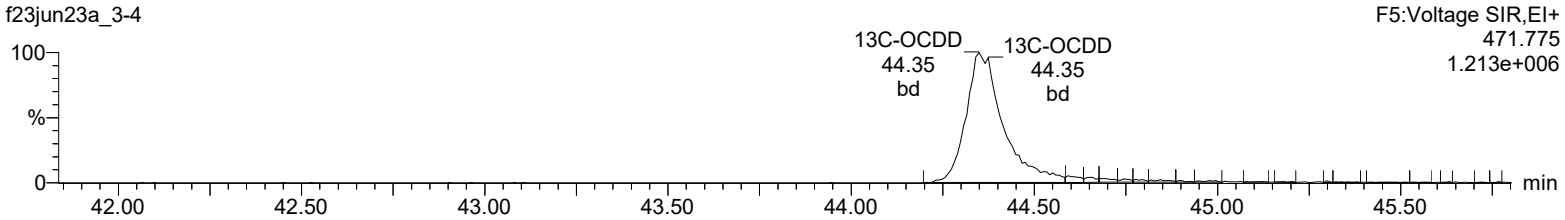
OCDF



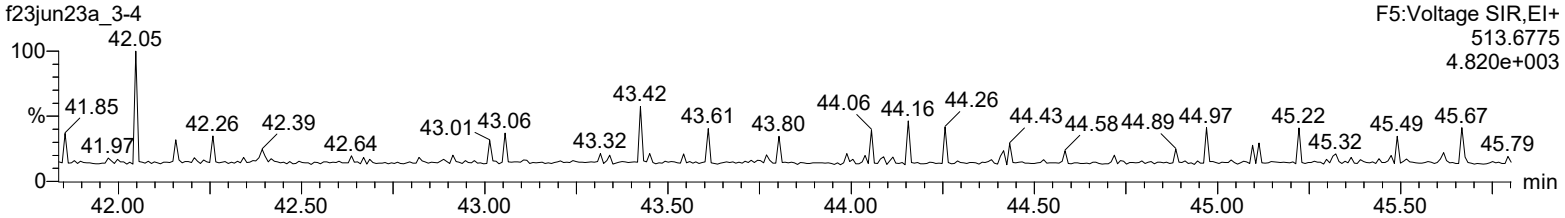
13C-OCDD



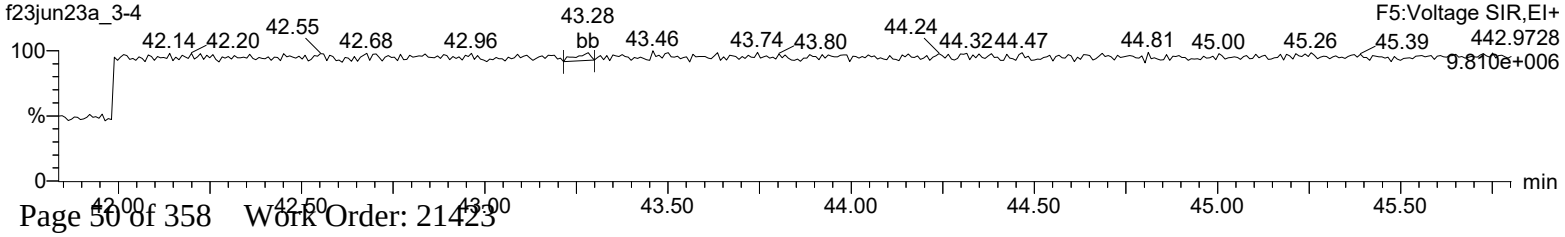
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423002**	**Date Collected:**	**10/21/2022 15:42**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR186-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-5**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1003.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.47	pg/L	3.47	4.98
40321-76-4	1,2,3,7,8-PeCDD	U	3.07	pg/L	3.07	24.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.49	pg/L	2.49	49.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.35	pg/L	2.35	49.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.41	pg/L	2.41	49.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.90	pg/L	4.90	49.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	11.2	pg/L	9.19	99.6
51207-31-9	2,3,7,8-TCDF	U	3.39	pg/L	3.39	9.96
57117-41-6	1,2,3,7,8-PeCDF	U	1.66	pg/L	1.66	49.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.44	pg/L	1.44	49.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.16	pg/L	1.16	49.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.14	pg/L	1.14	49.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.13	pg/L	1.13	49.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.87	pg/L	1.87	49.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.77	pg/L	1.77	49.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.63	pg/L	2.63	49.8
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.07	pg/L	7.07	99.6
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.47	pg/L	3.47	9.96
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.07	pg/L	3.07	49.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.35	pg/L	2.35	49.8
TCDF	Total Tetrachlorodibenzofuran	U	3.39	pg/L	3.39	9.96
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	4.90	pg/L	4.90	49.8
30402-15-4	Total Pentachlorodibenzofuran	U	1.44	pg/L	1.44	49.8
55684-94-1	Total Hexachlorodibenzofuran	U	1.13	pg/L	1.13	49.8
38998-75-3	Total Heptachlorodibenzofuran	U	1.77	pg/L	1.77	49.8
TEQ	TEQ WHO2005 ND=0		0.00335	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.36	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1220	1990	pg/L	61.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1330	1990	pg/L	66.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1280	1990	pg/L	64.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1410	1990	pg/L	70.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1330	1990	pg/L	66.7	(23%-140%)
13C-OCDD		2300	3980	pg/L	57.8	(17%-157%)
13C-2,3,7,8-TCDF		1230	1990	pg/L	61.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1180	1990	pg/L	59.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1310	1990	pg/L	65.8	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1290	1990	pg/L	65.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1360	1990	pg/L	68.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1410	1990	pg/L	70.7	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1250	1990	pg/L	63.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423002**	**Date Collected:**	**10/21/2022 15:42**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR186-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-5**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1003.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	1990	pg/L	65.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1300	1990	pg/L	65.4	(26%-138%)
37Cl-2,3,7,8-TCDD		155	199	pg/L	78.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:26 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.174		2975			893			
2	12378-PeCDD							NO		0.154		1992			1326			
3	123478-HxCDD							NO		0.125		867			1188			
4	123678-HxCDD							NO		0.118		867			1188			
5	123789-HxCDD							NO		0.121		867			1188			
6	1234678-HpCDD							NO		0.246		1673			1122			
7	OCDD	4.31e2	4.71e2	9.02e2	44.32	0.999	0.91	NO	0.561	0.461	8.75e3	1682	5.2	5.57e3	962	5.8	MM	MM
8	2378-TCDF							NO		0.170		1768			3102			
9	12378-PeCDF	8.60e1	1.02e2	1.88e2	33.38	1.001	0.84	YES	0.031	0.0834	4.03e3	1250	3.2	5.78e3	2676	2.2	bb	bd
10	23478-PeCDF							NO		0.0725		1250			2676			
11	123478-HxCDF							NO		0.0580		1136			789			
12	123678-HxCDF							NO		0.0570		1136			789			
13	234678-HxCDF							NO		0.0568		1136			789			
14	123789-HxCDF							NO		0.0937		1136			789			
15	1234678-HpCDF							NO		0.0888		1118			1384			
16	1234789-HpCDF							NO		0.132		1118			1384			
17	OCDF	1.30e2	5.84e1	1.89e2	44.68	1.008	2.23	YES	0.074	0.355	6.87e3	1187	5.8	2.62e3	2033	1.3	bb	bb
18	13C-2378-TCDD	1.47e5	1.84e5	3.31e5	31.28	1.017	0.80	NO	61.351	0.361	2.24e6	5779	387.0	2.70e6	3656	738.6	bd	bd
19	13C-12378-PeCDD	1.59e5	9.90e4	2.58e5	34.15	1.110	1.60	NO	66.775	0.478	2.84e6	4680	606.7	1.71e6	4255	402.0	bd	bd
20	13C-123478-HxCDD	1.18e5	9.12e4	2.09e5	36.77	0.991	1.29	NO	64.014	0.813	2.16e6	6005	359.5	1.57e6	7547	208.7	bd	bd
21	13C-123678-HxCDD	1.58e5	1.22e5	2.80e5	36.85	0.994	1.30	NO	70.855	0.671	2.32e6	6005	386.3	1.72e6	7547	227.6	dd	dd
22	13C-1234678-HpCDD	1.05e5	1.01e5	2.05e5	40.15	1.083	1.04	NO	66.698	0.859	1.18e6	4920	239.0	1.14e6	8606	132.6	bd	bd
23	13C-OCDD	1.34e5	1.57e5	2.90e5	44.35	1.196	0.85	NO	115.565	0.683	1.19e6	4082	292.3	1.32e6	4678	282.7	bd	bd
24	13C-2378-TCDF	2.27e5	2.80e5	5.07e5	30.58	0.994	0.81	NO	61.679	0.199	2.36e6	3970	595.7	2.93e6	3934	743.7	bd	bb
25	13C-12378-PeCDF	3.02e5	1.80e5	4.82e5	33.35	1.084	1.68	NO	59.127	0.536	5.78e6	11507	502.7	3.55e6	9665	367.6	bd	bd
26	13C-23478-PeCDF	3.18e5	1.87e5	5.05e5	33.97	1.104	1.70	NO	65.784	0.569	6.11e6	11507	531.1	3.65e6	9665	377.4	bb	bb
27	13C-123478-HxCDF	1.09e5	2.14e5	3.23e5	36.05	0.972	0.51	NO	64.961	0.745	1.98e6	8832	223.8	3.65e6	10079	361.7	bd	bd
28	13C-123678-HxCDF	1.40e5	2.80e5	4.21e5	36.15	0.975	0.50	NO	68.367	0.602	2.05e6	8832	231.6	4.04e6	10079	400.9	db	dd
29	13C-234678-HxCDF	1.22e5	2.42e5	3.64e5	36.63	0.988	0.50	NO	70.661	0.719	1.99e6	8832	225.5	3.66e6	10079	363.0	bb	dd
30	13C-123789-HxCDF	1.00e5	1.88e5	2.88e5	37.42	1.009	0.53	NO	62.988	0.808	1.37e6	8832	155.4	2.54e6	10079	251.7	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:26 PM Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.20e5	2.68e5	3.88e5	38.88	1.048	0.45	NO	65.578	0.851	1.57e6	10437	150.4	3.49e6	15265	228.9	bd	bd
32	13C-1234789-HpCDF	9.25e4	2.09e5	3.02e5	40.81	1.101	0.44	NO	65.450	1.09	1.07e6	10437	102.3	2.20e6	15265	144.2	bb	bd
33	13C-1234-TCDD	2.10e5	2.64e5	4.74e5	30.77	0.000	0.80	NO	100.000	0.411	2.55e6	5779	440.5	3.26e6	3656	892.2	bb	bb
34	13C-123789-HxCDD	2.15e5	1.70e5	3.85e5	37.08	0.000	1.26	NO	100.000	0.689	2.74e6	6005	456.3	2.22e6	7547	294.8	dd	dd
35	37Cl-2378-TCDD	4.16e4		4.16e4	31.30	1.017			7.803	0.0879	5.99e5	2268	264.3				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-5, ID:21423002-1, Description: 52698

M	M2
7 OCDD 44.32 - AB	7 OCDD 44.32 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:26 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.80e2	8.22e1	2.62e2	27.04	2.19	YES	0.072	0.174	7.49e3	2975	2.5	1.64e3	893	1.8	bb	bb
2	Total-tetradioxins	1.52e2	5.59e1	2.08e2	27.96	2.73	YES	0.057	0.174	6.67e3	2975	2.2	2.32e3	893	2.6	bb	bd

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	8.82e1	5.14e1	1.40e2	40.28	1.72	YES	0.055	0.246	5.78e3	1673	3.5	3.29e3	1122	2.9	bb	bb

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.85e1	2.18e2	2.77e2	28.30	0.27	YES	0.040	0.170	3.26e3	1768	1.8	6.10e3	3102	2.0	bb	bd
2	Total-tetrafurans	5.27e1	6.71e1	1.20e2	28.59	0.79	NO	0.017	0.170	2.47e3	1768	1.4	4.60e3	3102	1.5	bb	bb
3	Total-tetrafurans	5.74e1	1.23e2	1.81e2	29.72	0.47	YES	0.026	0.170	3.88e3	1768	2.2	7.39e3	3102	2.4	bb	bb
4	Total-tetrafurans	1.14e2	2.93e2	4.07e2	30.05	0.39	YES	0.059	0.170	4.57e3	1768	2.6	1.21e4	3102	3.9	bd	db
5	Total-tetrafurans	6.16e1	2.83e2	3.45e2	30.27	0.22	YES	0.050	0.170	2.44e3	1768	1.4	3.62e3	3102	1.2	db	bb
6	Total-tetrafurans	5.02e1	9.95e1	1.50e2	31.57	0.50	YES	0.022	0.170	1.73e3	1768	1.0	5.32e3	3102	1.7	bb	db

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:26 PM Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	6.18e1	9.10e1	1.53e2	32.75	0.68	YES	0.023	0.0777	4.37e3	1250	3.5	2.61e3	2676	1.0	bb	bb
2	12378-PeCDF	8.60e1	1.02e2	1.88e2	33.38	0.84	YES	0.031	0.0834	4.03e3	1250	3.2	5.78e3	2676	2.2	bb	bd

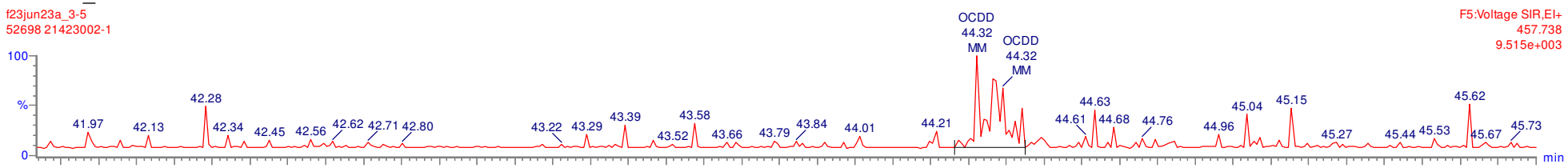
HF

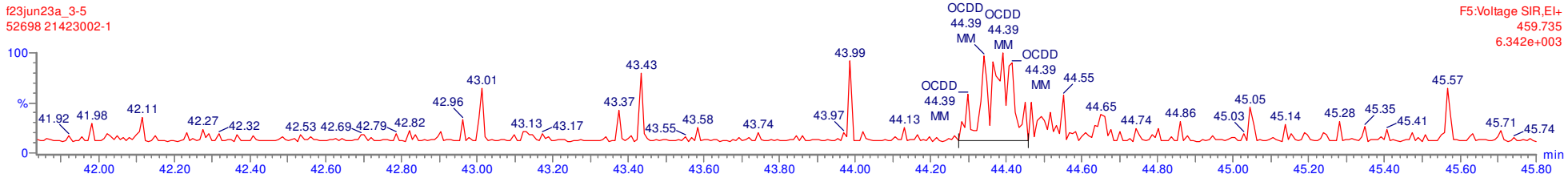
	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

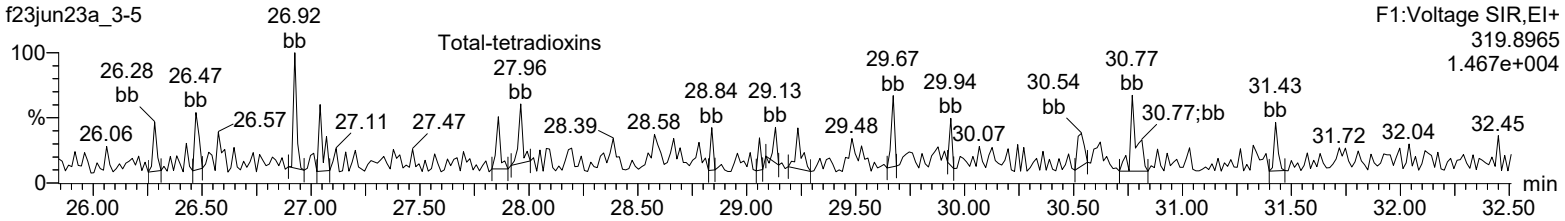
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

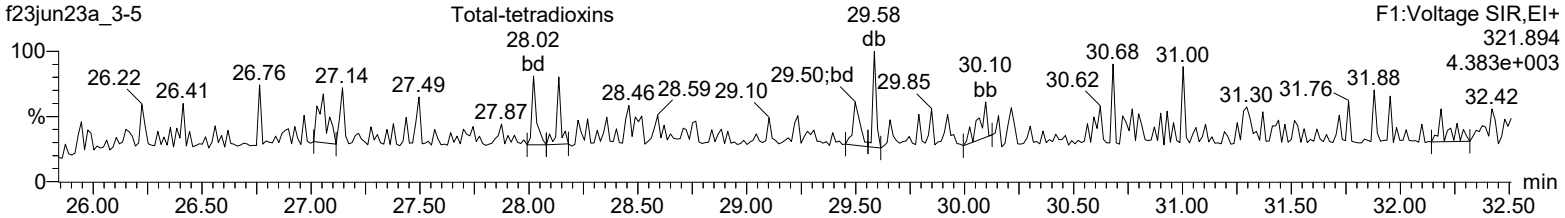
AMA 06/29/2023

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

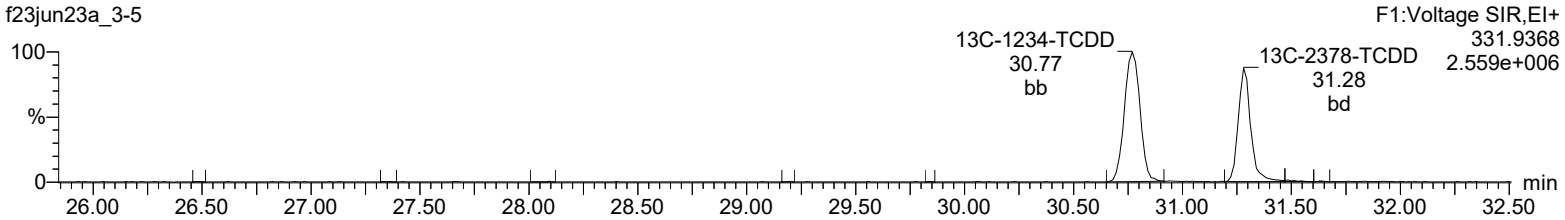
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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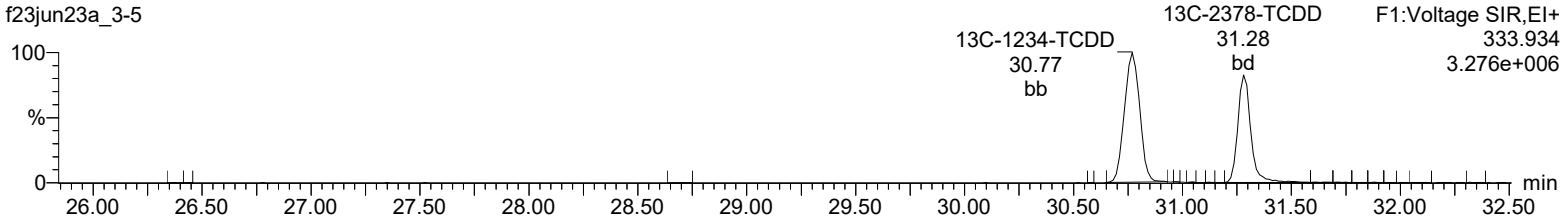
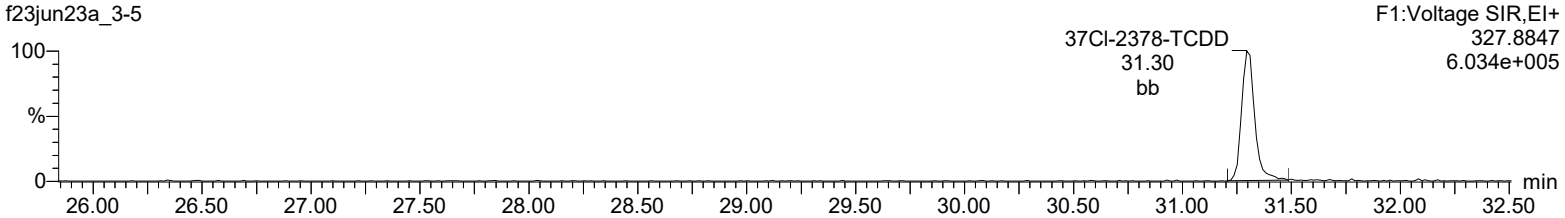
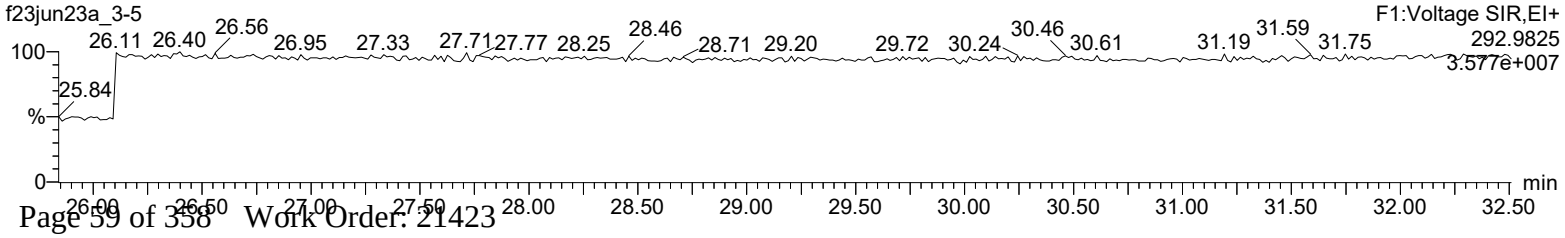


37Cl-2378-TCDD



Lock Mass F1



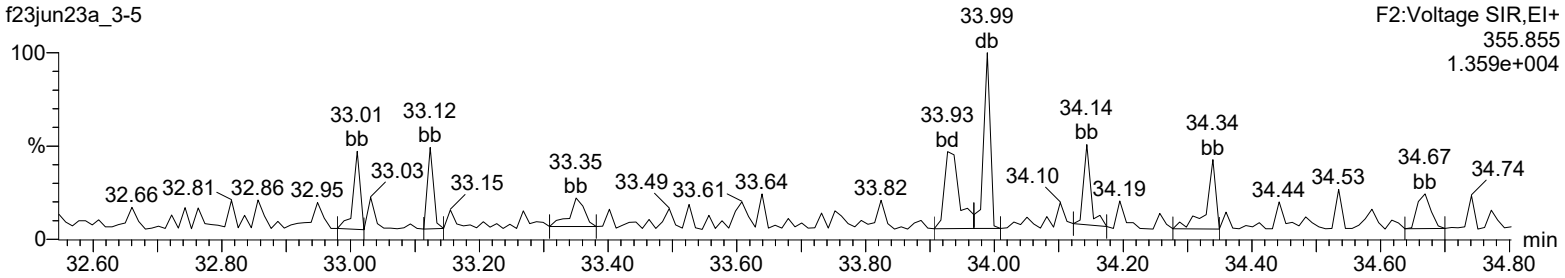
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

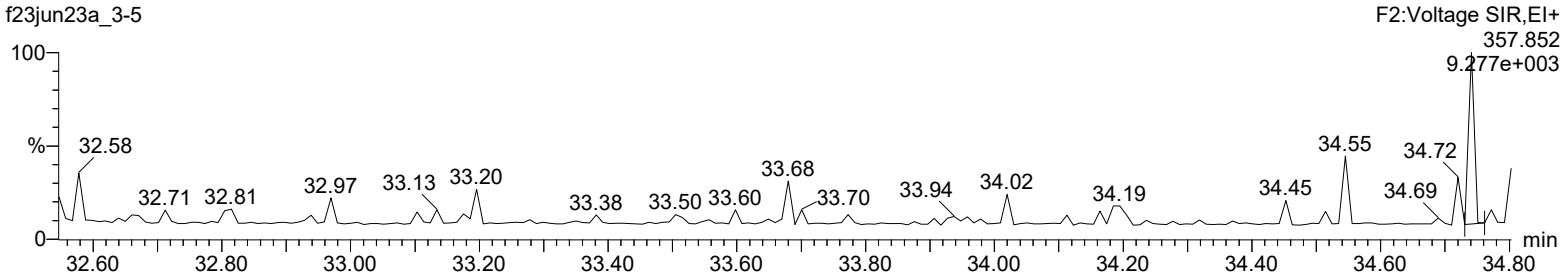
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

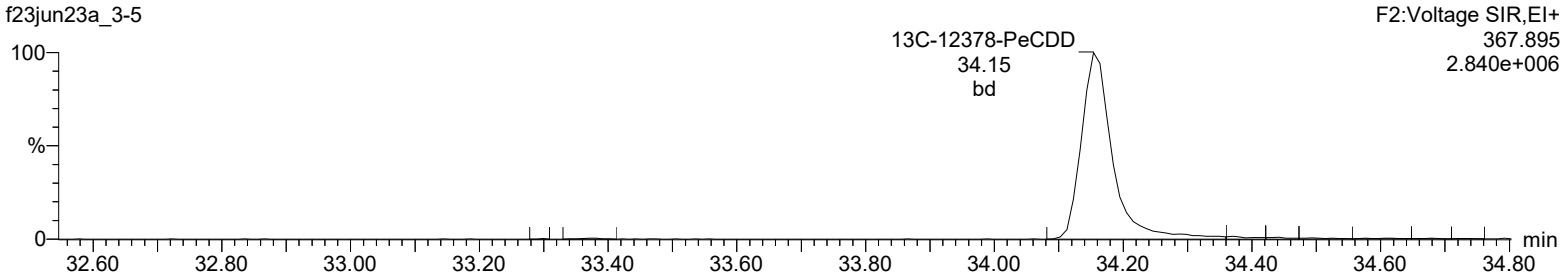
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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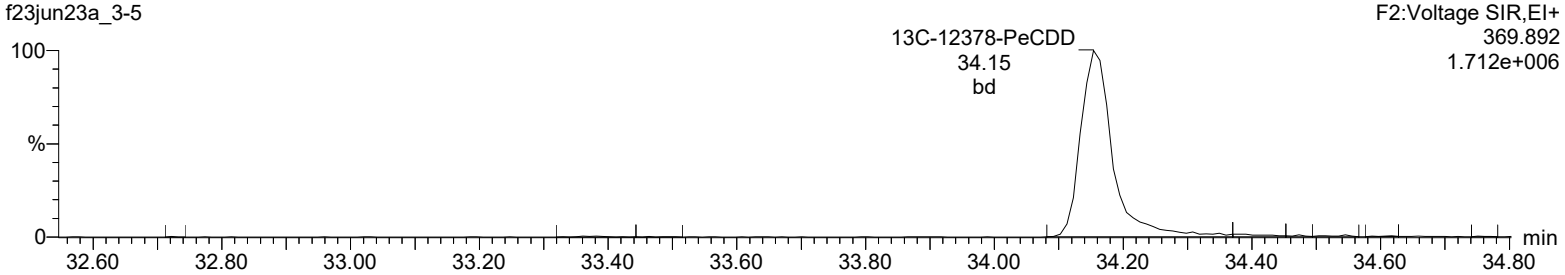
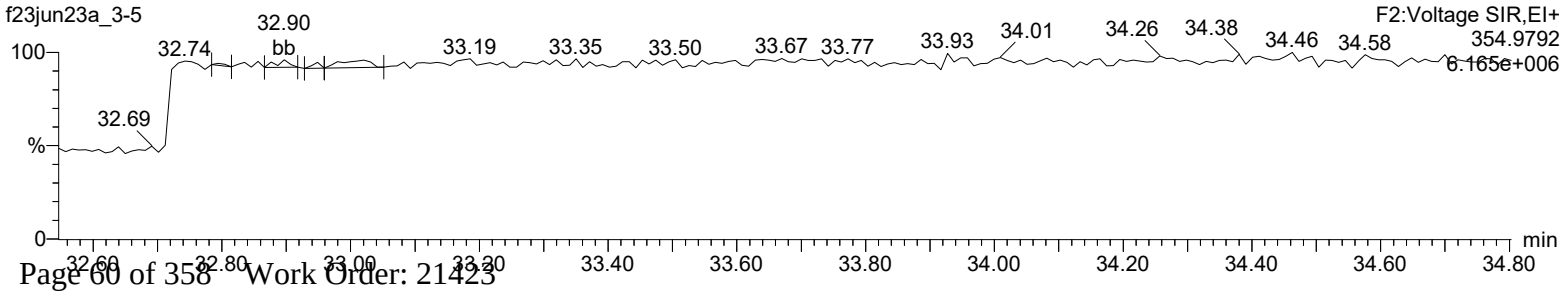


Lock Mass F2



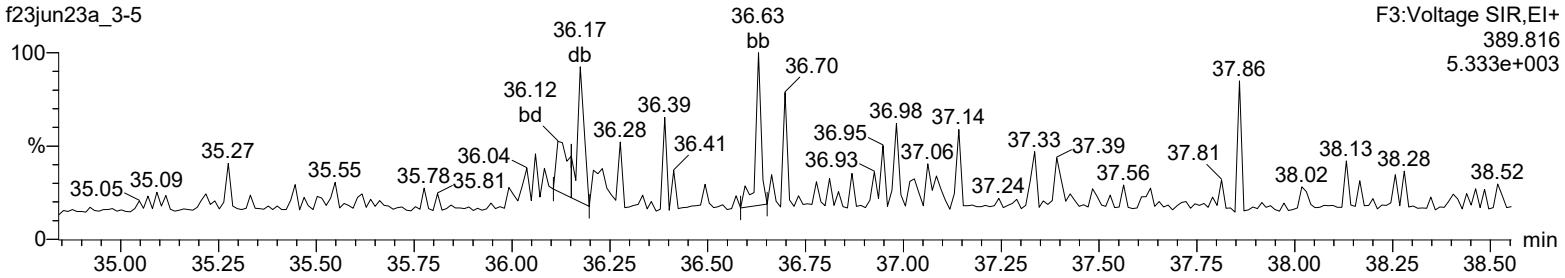
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

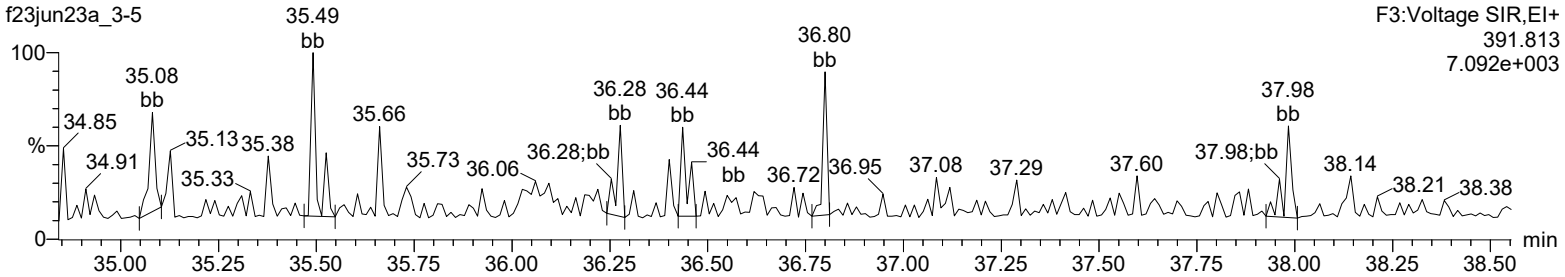
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

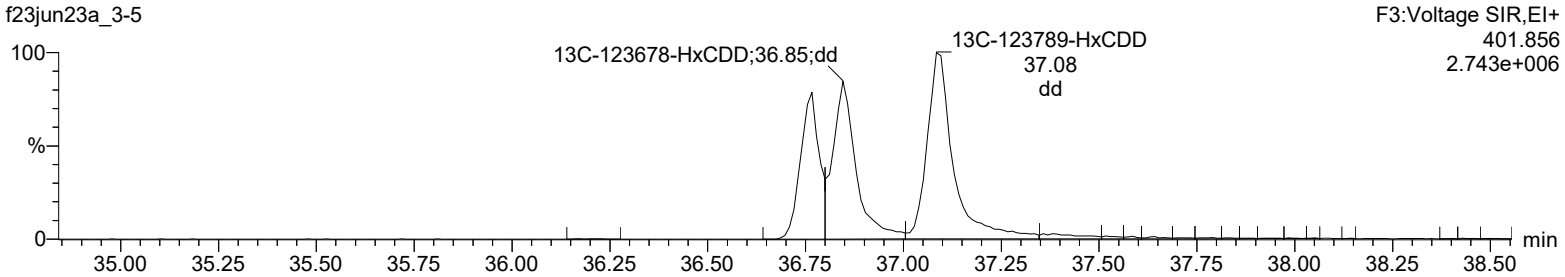
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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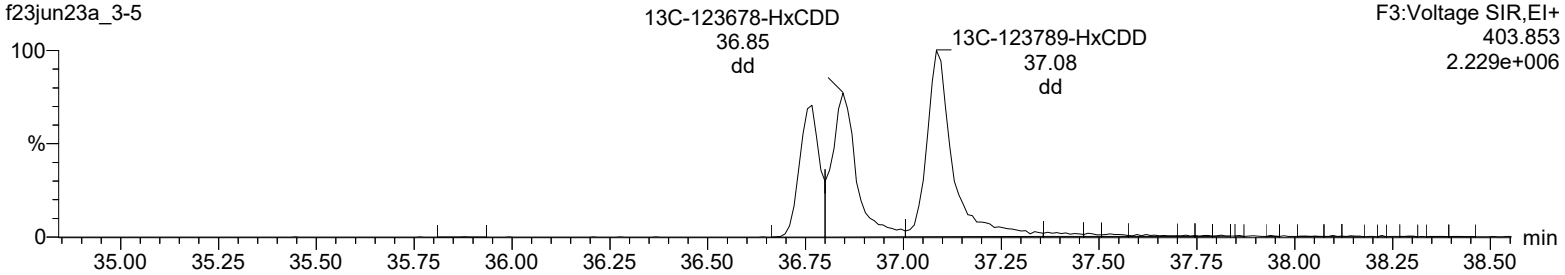
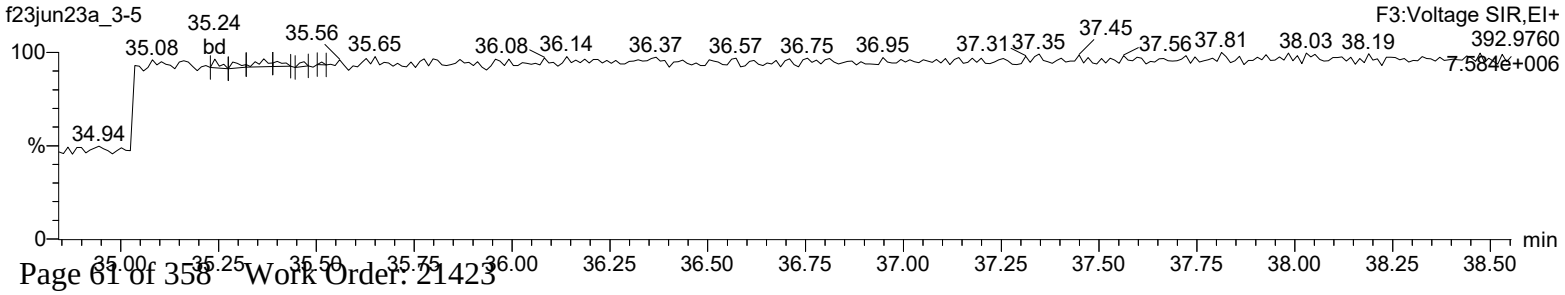


Lock Mass F3



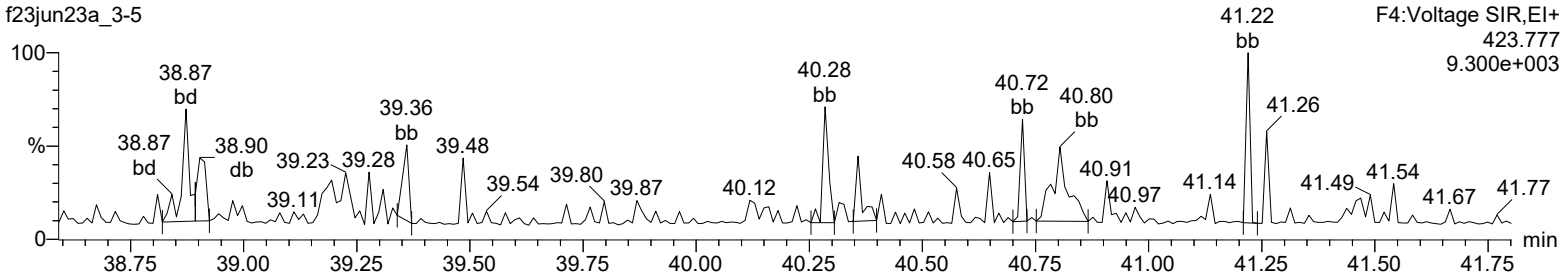
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

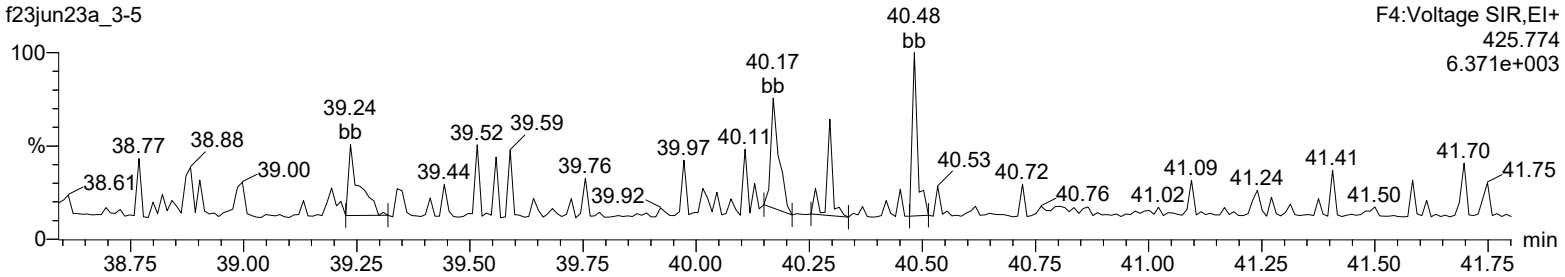
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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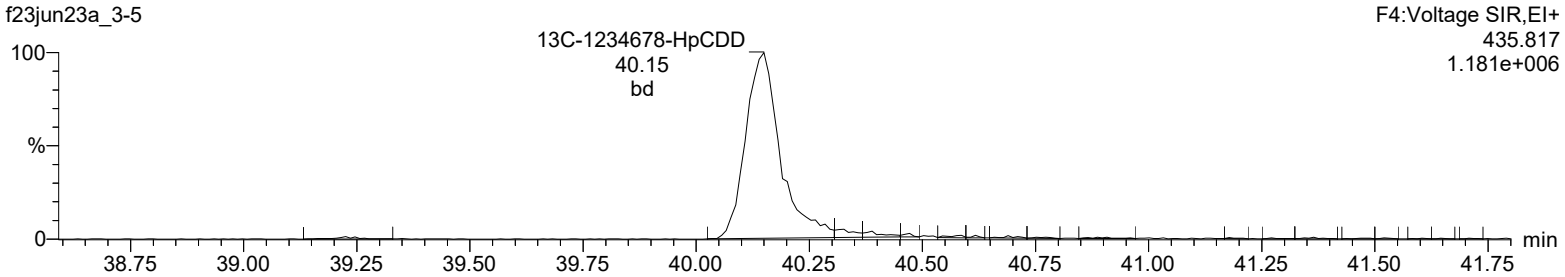
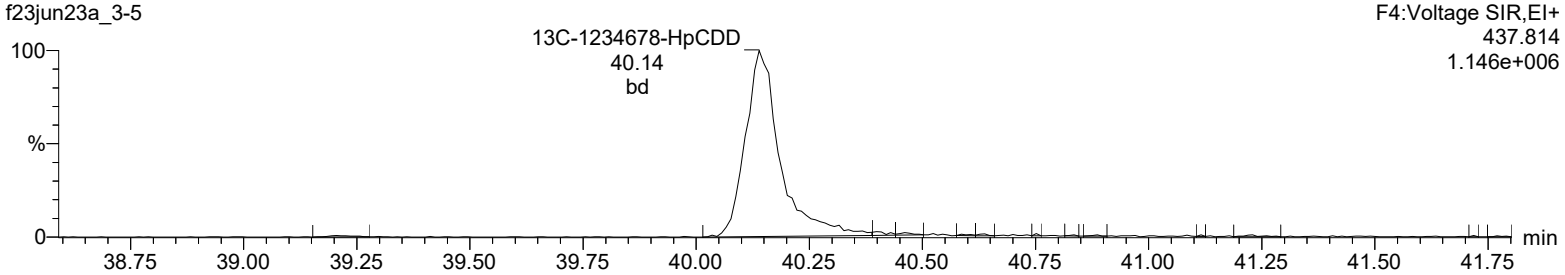
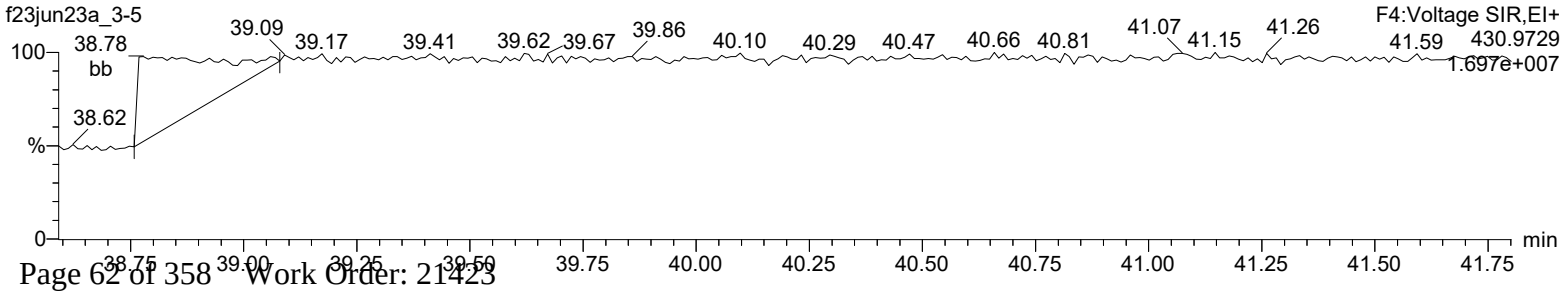


13C-1234678-HpCDD



Lock Mass F4



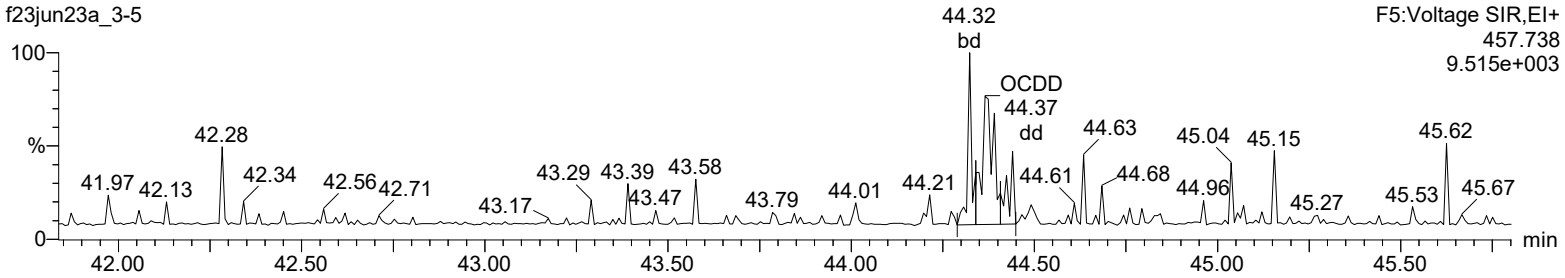
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

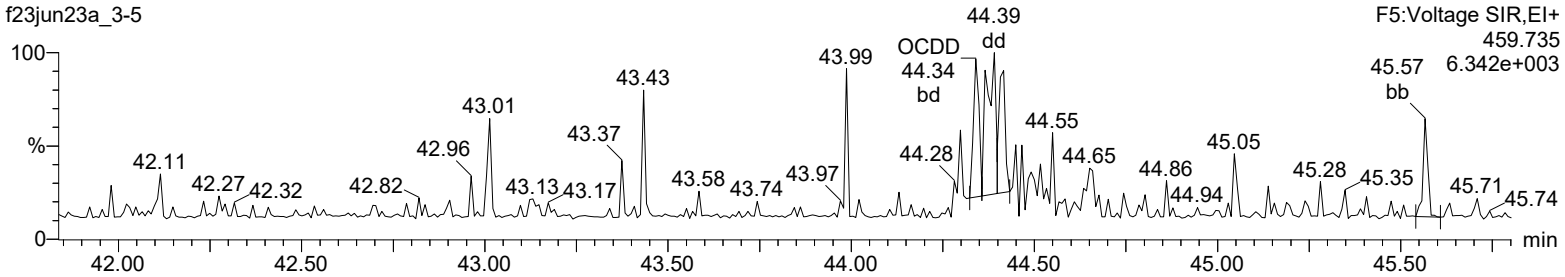
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

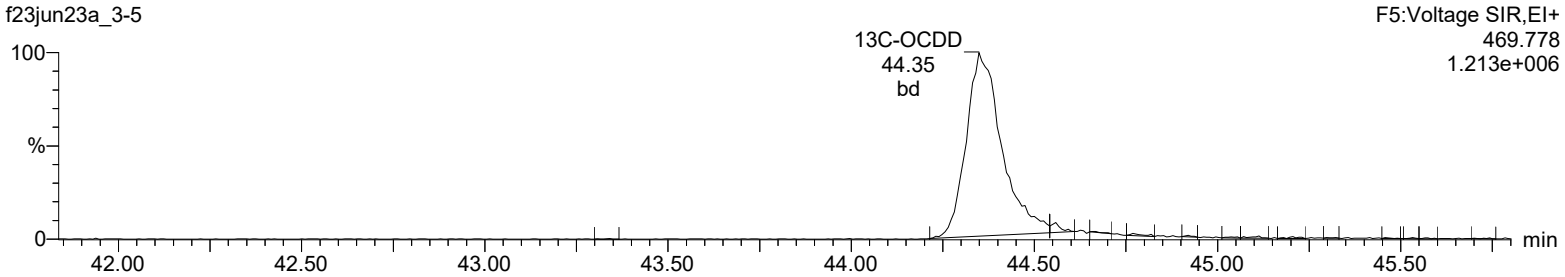
OCDD



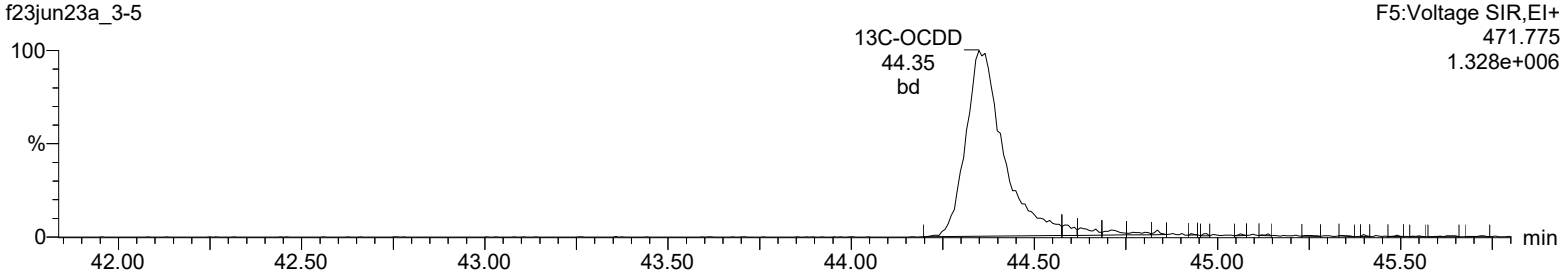
OCDD



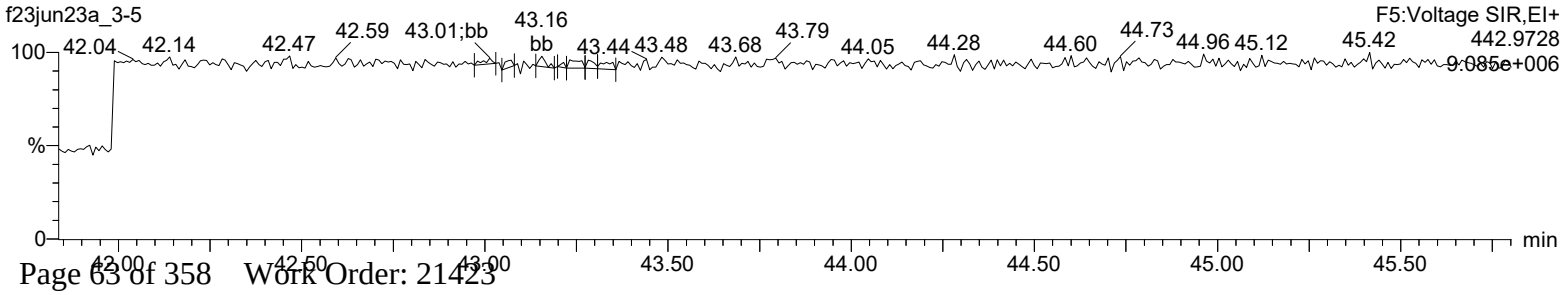
13C-OCDD



13C-OCDD



Lock Mass F5



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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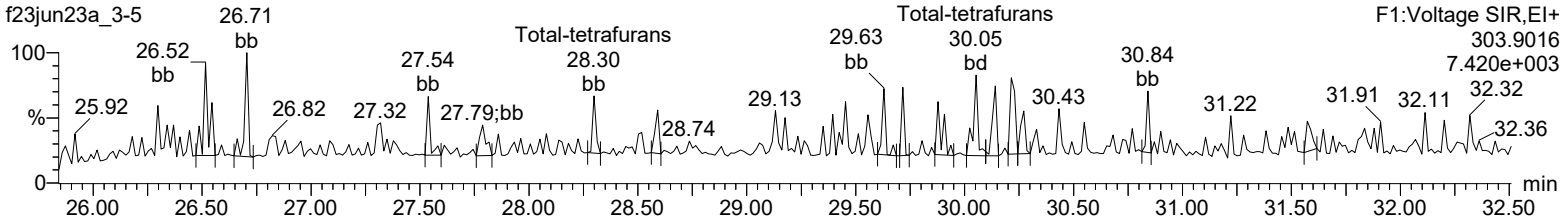
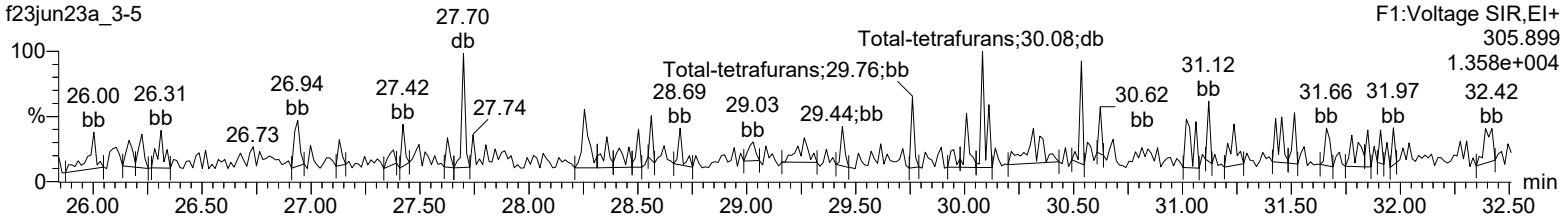
Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

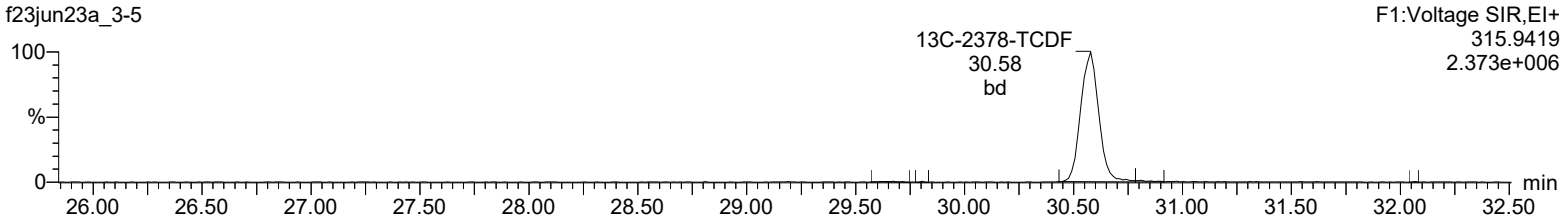
Total-tetrafurans



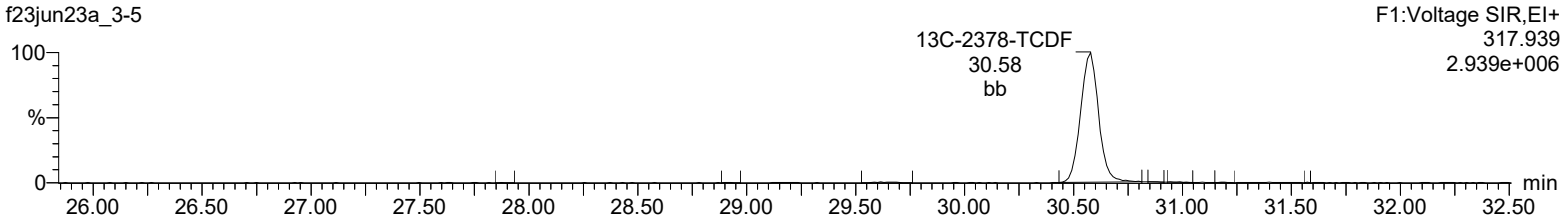
Total-tetrafurans



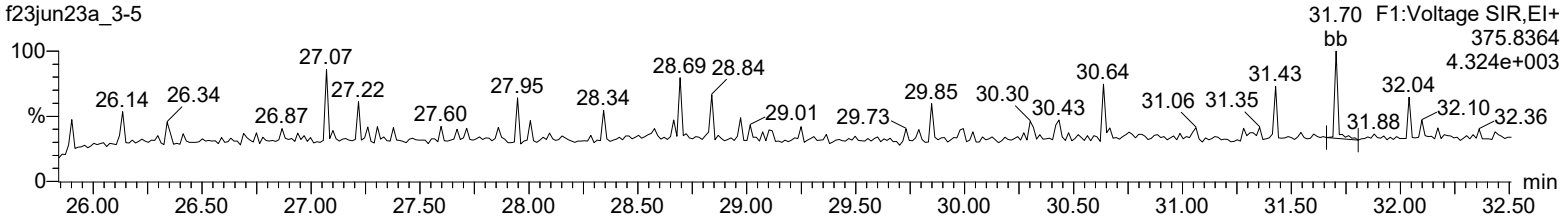
13C-2378-TCDF



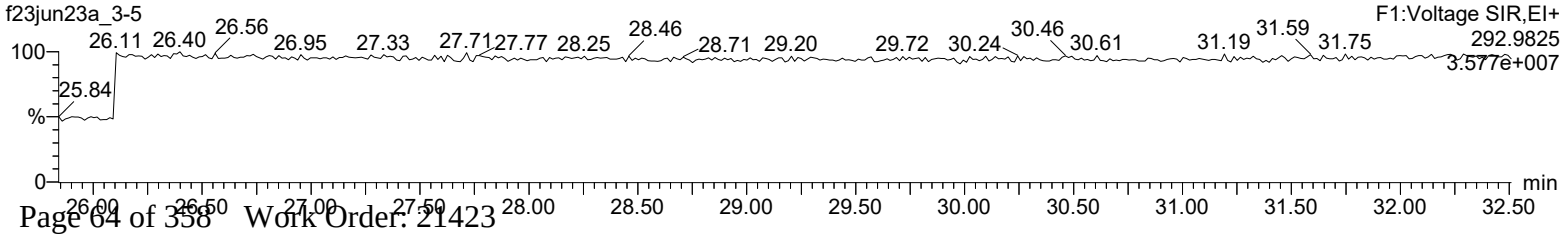
13C-2378-TCDF



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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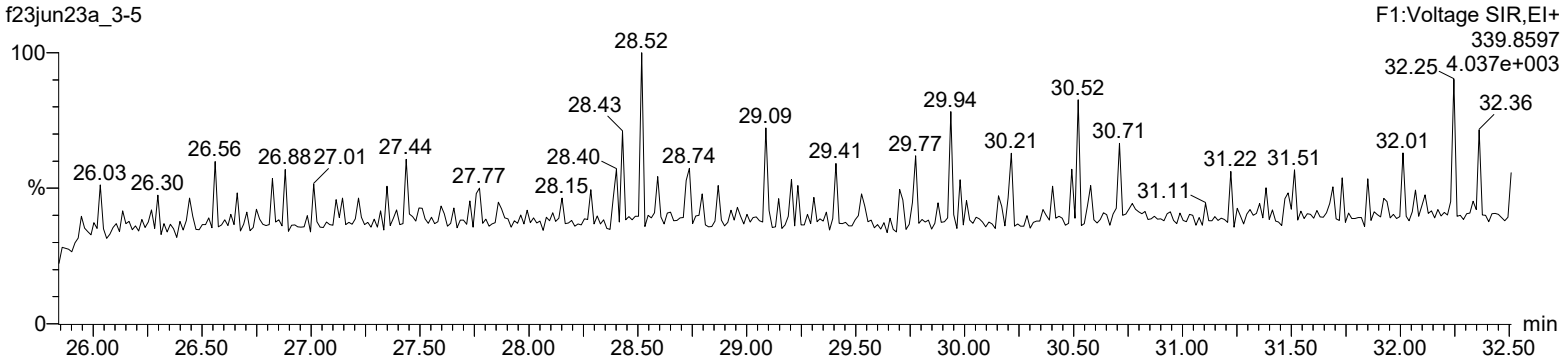
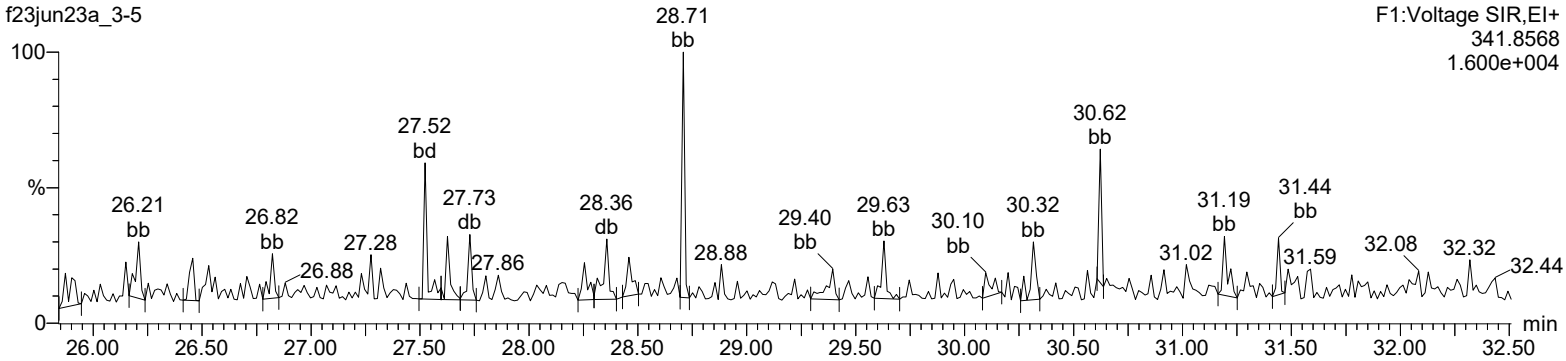
Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

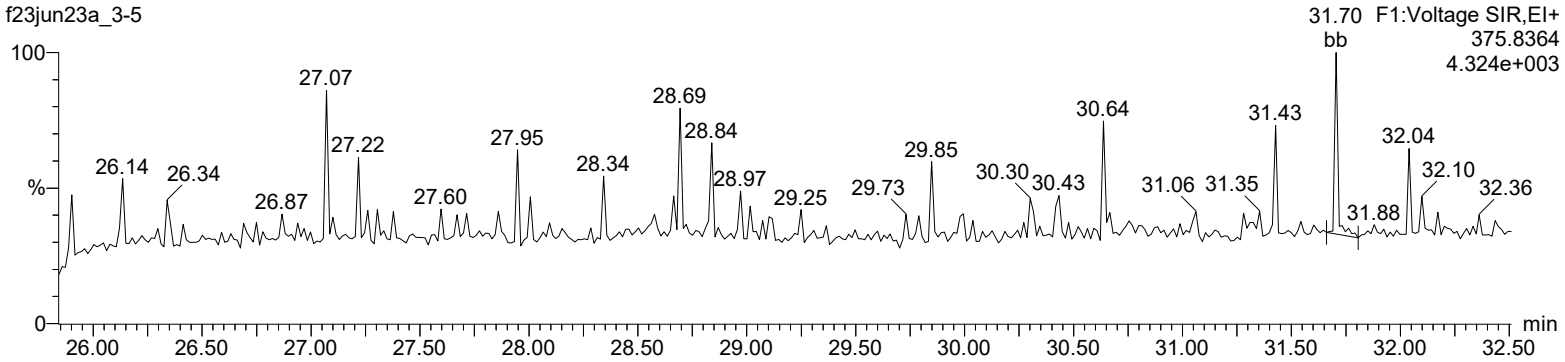
Total-pentafurans (F1)



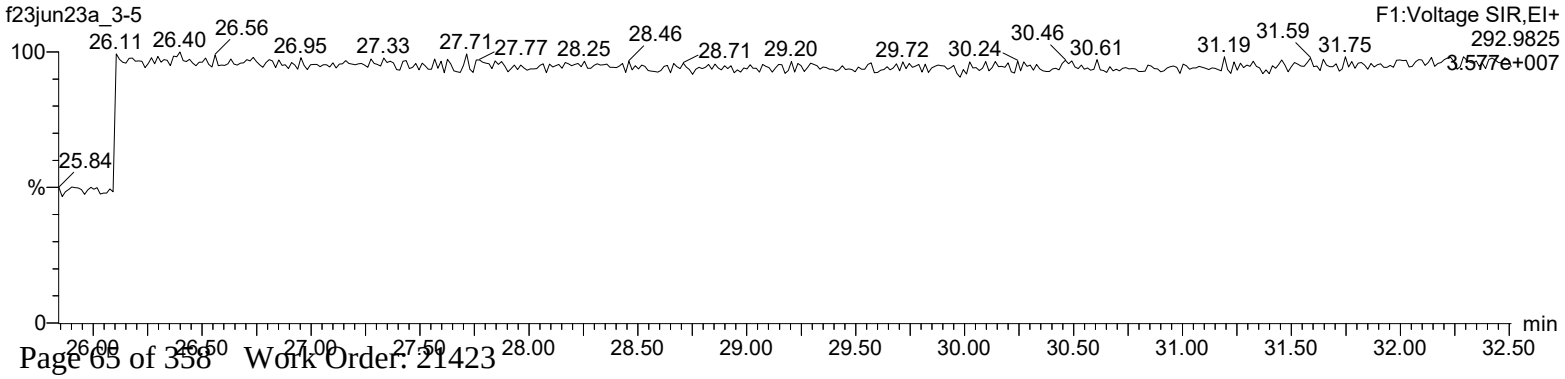
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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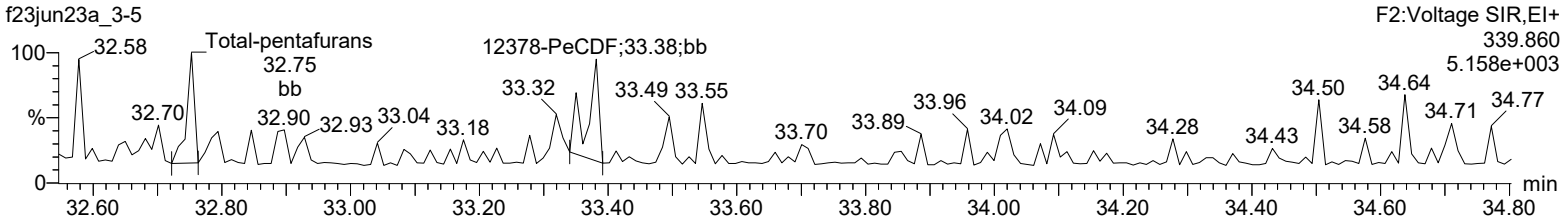
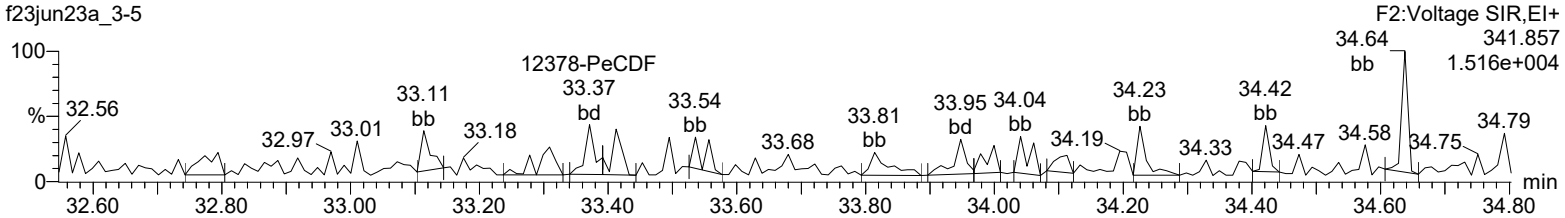
Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

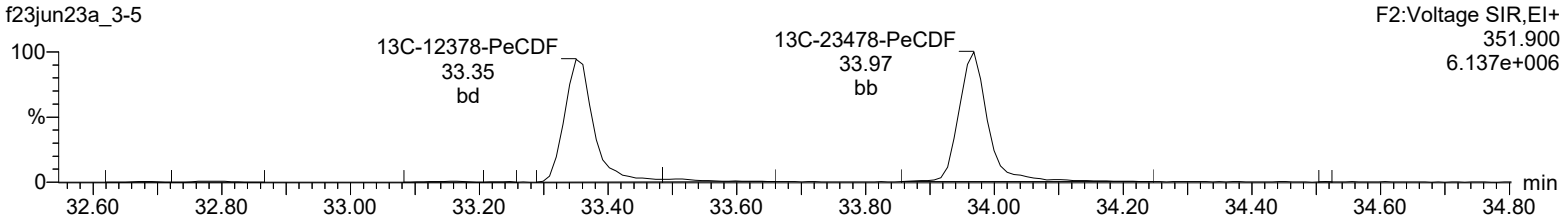
Total-pentafurans



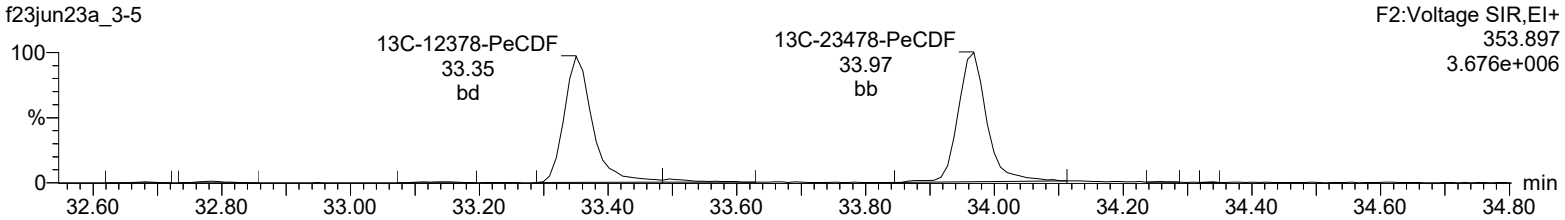
Total-pentafurans



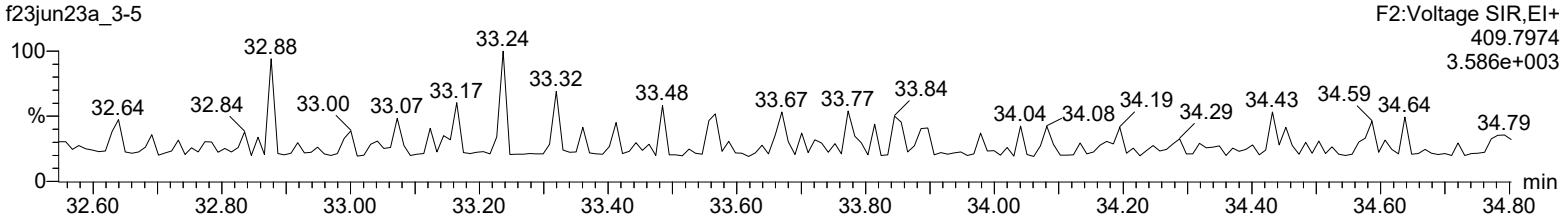
13C-12378-PeCDF



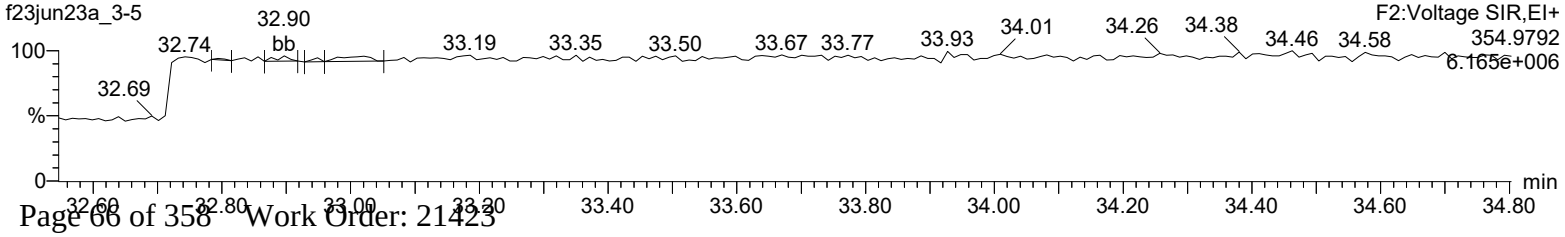
13C-12378-PeCDF



HpDPE



Lock Mass F2



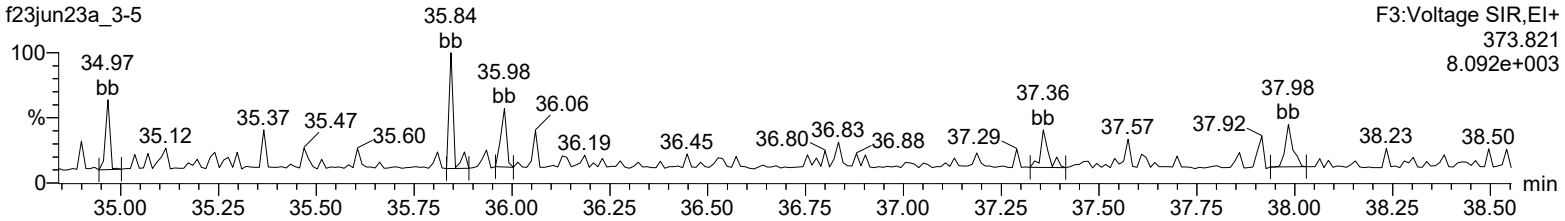
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

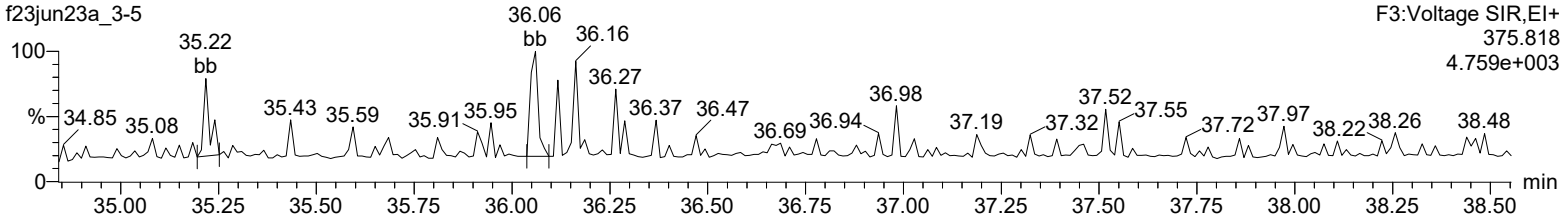
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

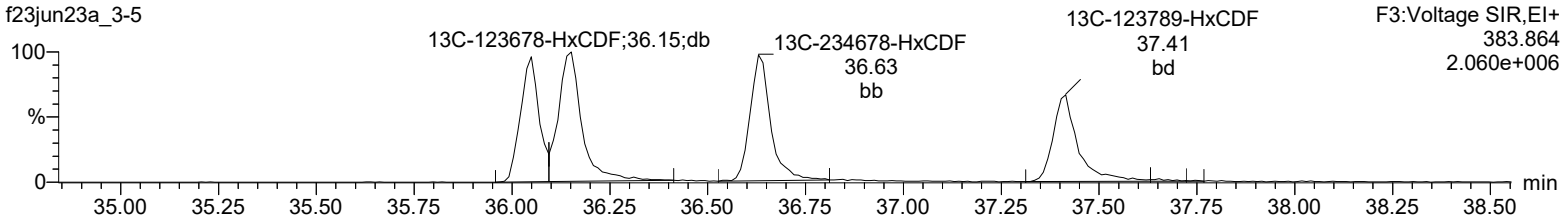
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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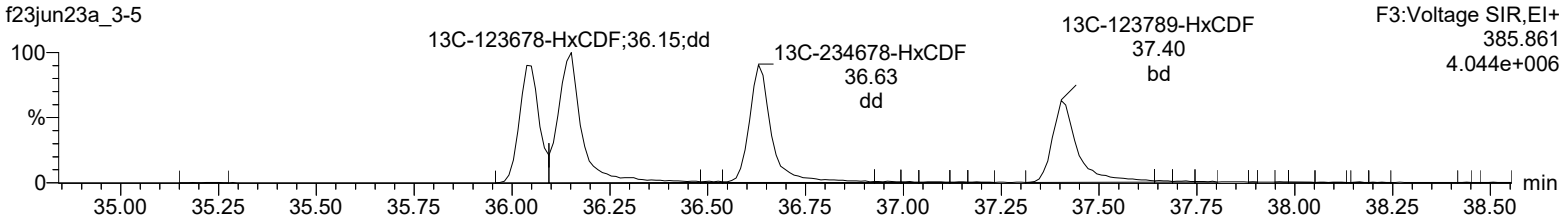
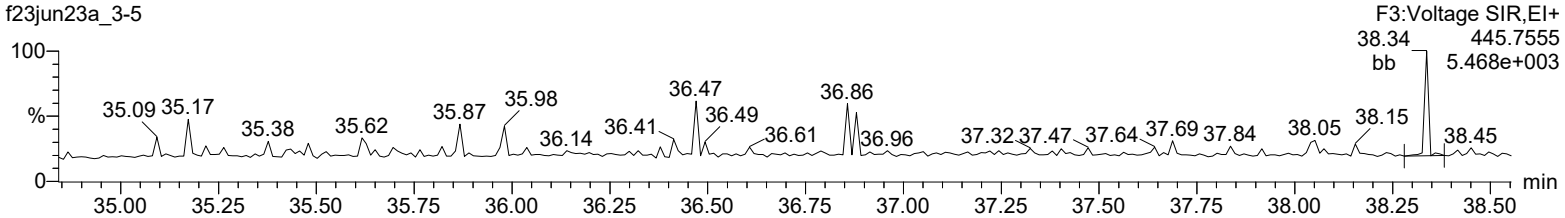
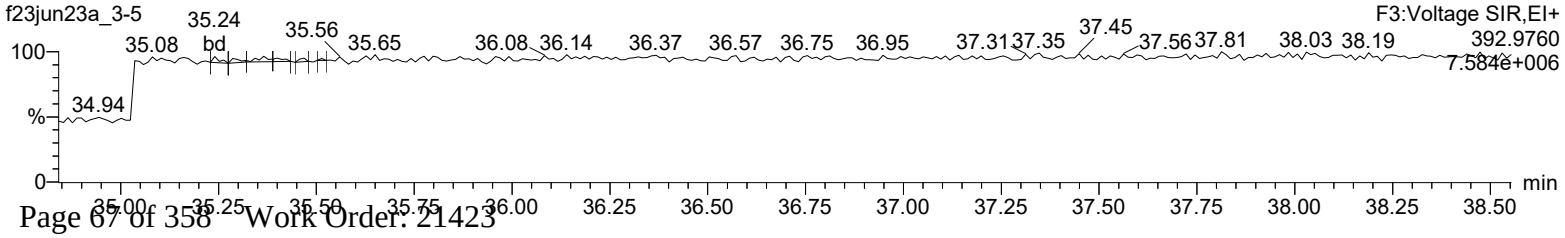


OcDPE



Lock Mass F3



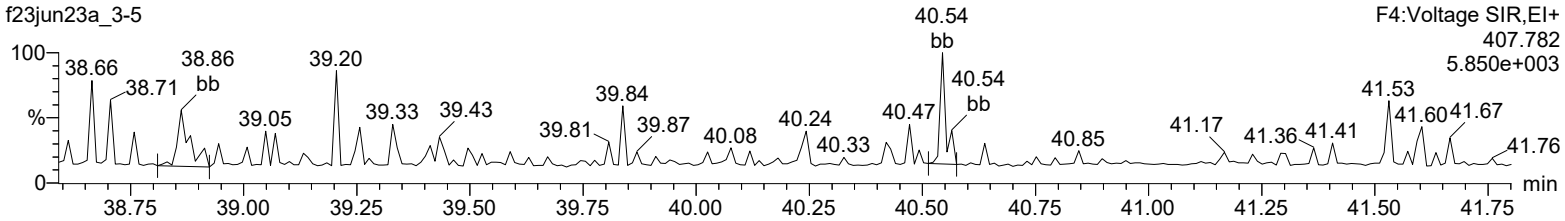
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

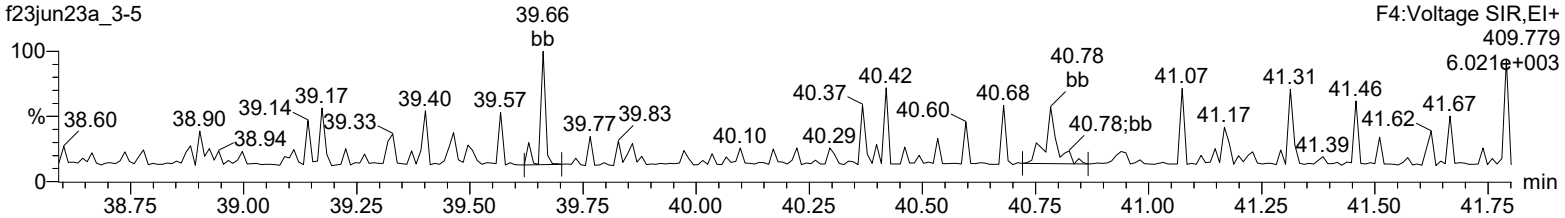
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

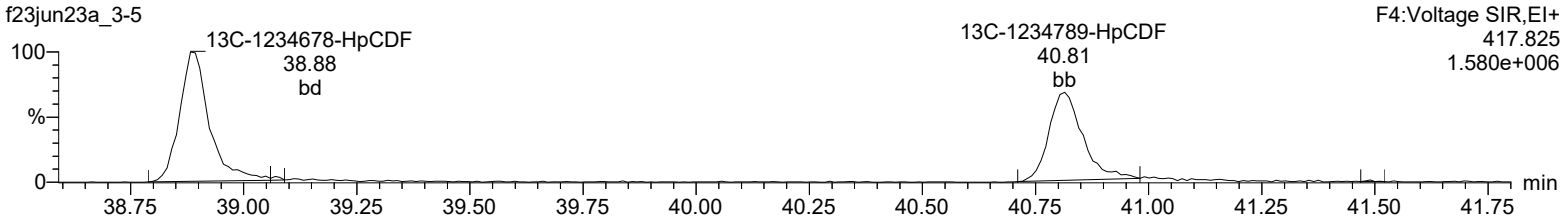
Total-heptafurans



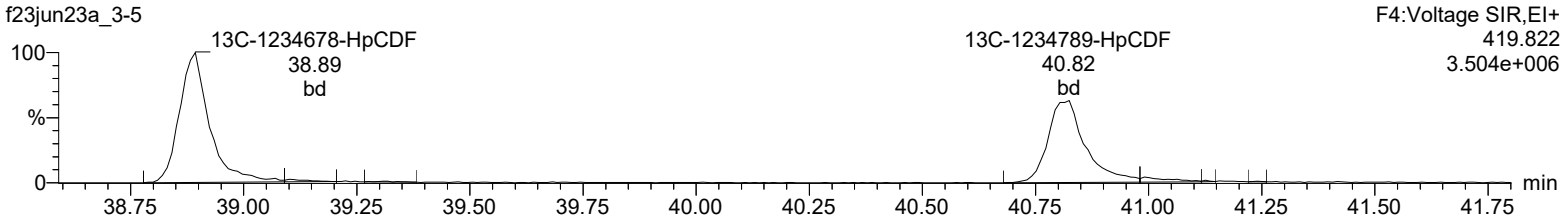
Total-heptafurans



13C-1234678-HpCDF



13C-1234678-HpCDF



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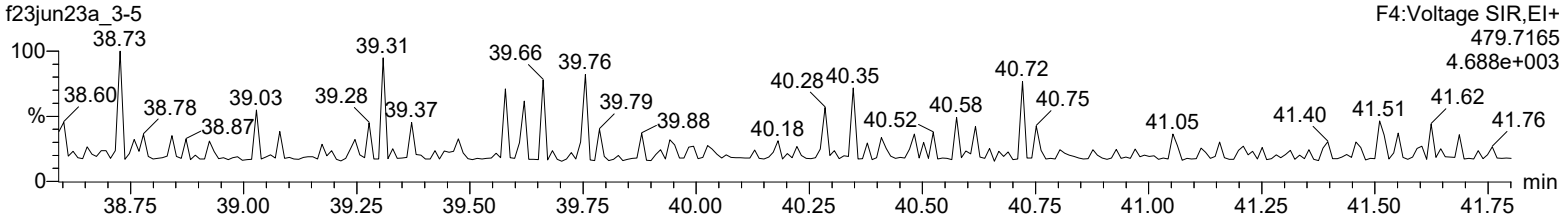
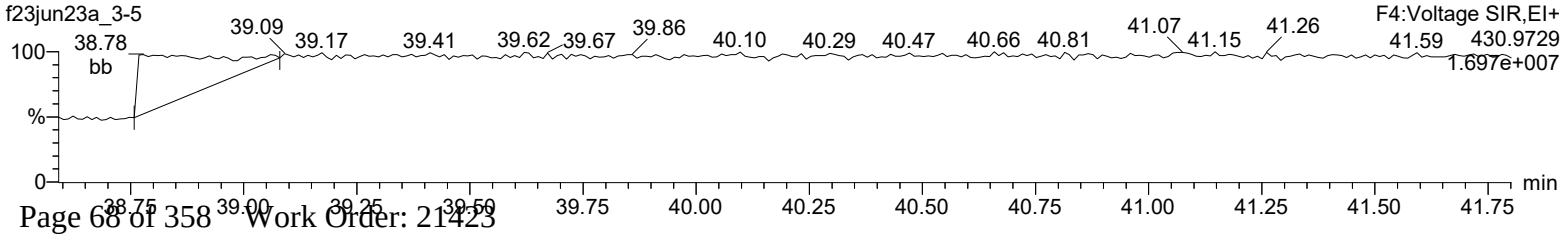


Lock Mass F4



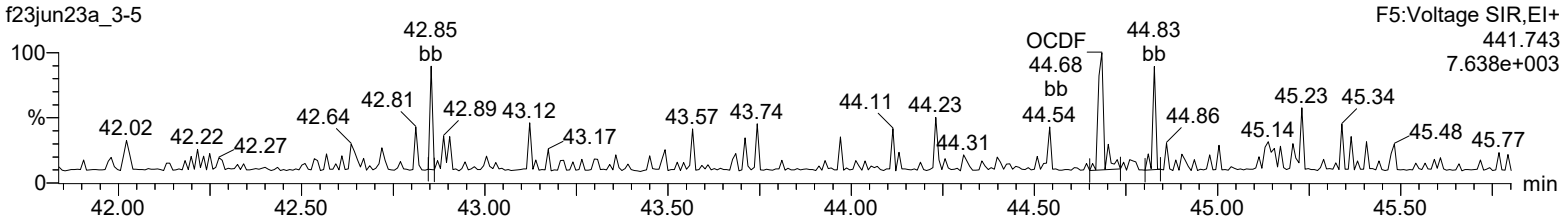
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

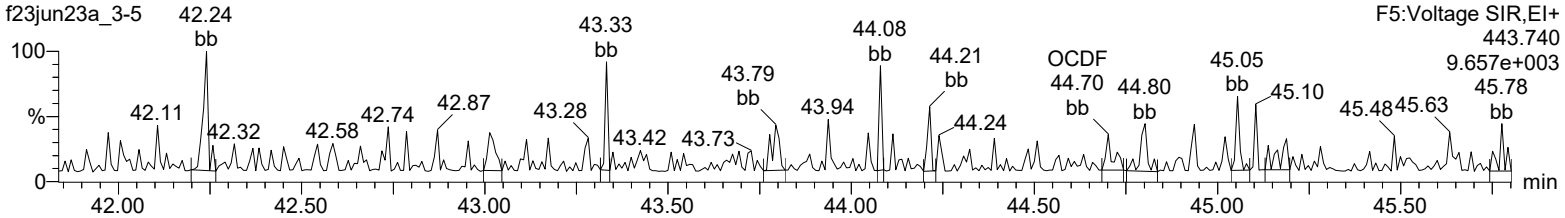
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-5, Date: 24-Jun-2023, Time: 12:03:04, ID: 21423002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

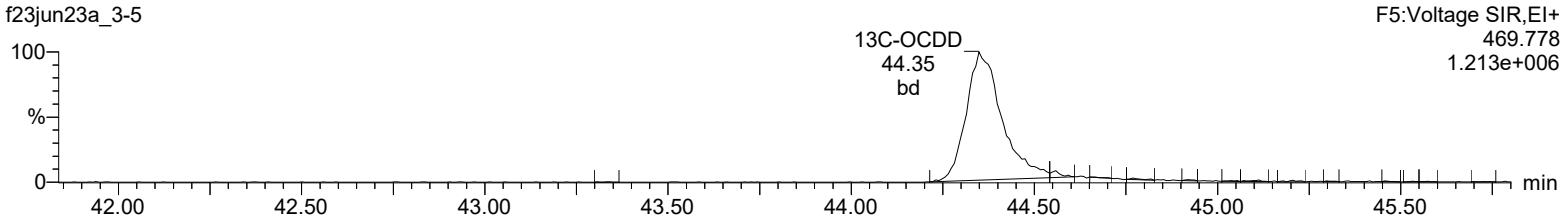
OCDF



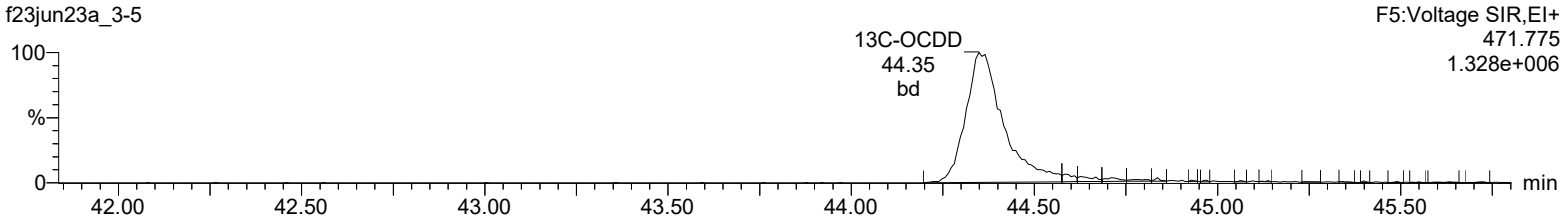
OCDF



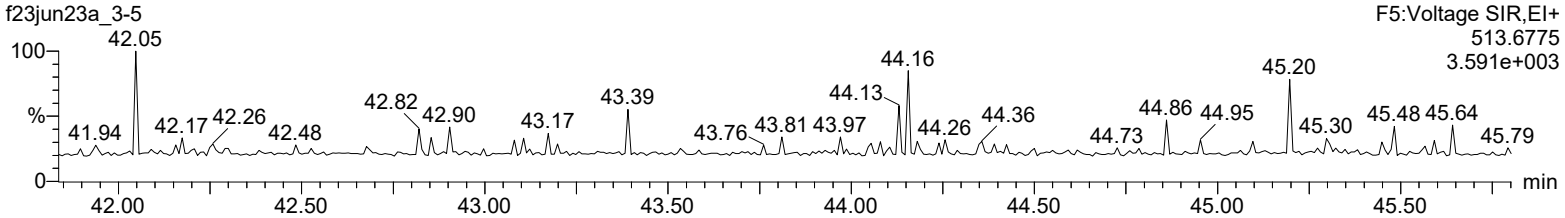
13C-OCDD



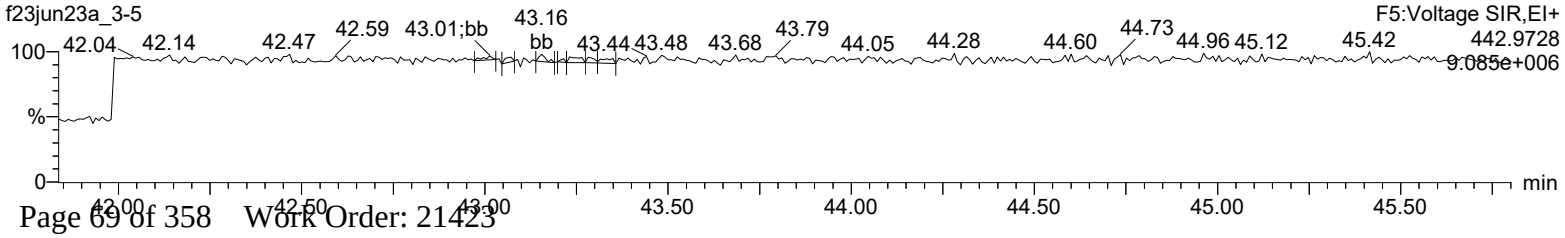
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423003**	**Date Collected:**	**10/21/2022 15:25**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR15-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:52**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-6**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.74	pg/L	2.74	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	1.66	pg/L	1.66	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.60	pg/L	2.60	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.38	pg/L	2.38	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.48	pg/L	2.48	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	3.28	pg/L	3.28	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	10.6	pg/L	7.26	100
51207-31-9	2,3,7,8-TCDF	U	2.74	pg/L	2.74	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	1.58	pg/L	1.58	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.40	pg/L	1.40	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.28	pg/L	1.28	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.21	pg/L	1.21	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.27	pg/L	1.27	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.92	pg/L	1.92	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.55	pg/L	1.55	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.18	pg/L	2.18	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.04	pg/L	7.04	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.74	pg/L	2.74	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.66	pg/L	1.66	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.38	pg/L	2.38	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.74	pg/L	2.74	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	3.28	pg/L	3.28	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.792	pg/L	0.792	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.21	pg/L	1.21	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.55	pg/L	1.55	50.0
TEQ	TEQ WHO2005 ND=0		0.00319	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.27	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1260	2000	pg/L	63.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	2000	pg/L	68.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1290	2000	pg/L	64.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	69.1	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1330	2000	pg/L	66.6	(23%-140%)
13C-OCDD		2330	4000	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1270	2000	pg/L	63.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2000	pg/L	61.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1330	2000	pg/L	66.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1270	2000	pg/L	63.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1380	2000	pg/L	69.1	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1350	2000	pg/L	67.6	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1260	2000	pg/L	63.1	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423003**	**Date Collected:**	**10/21/2022 15:25**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR15-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 12:52**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-6**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2000	pg/L	65.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1360	2000	pg/L	68.2	(26%-138%)
37Cl-2,3,7,8-TCDD		150	200	pg/L	75.2	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:55 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	7.01e1	1.14e2	1.84e2	31.28	1.000	0.62	YES	0.041	0.137	3.10e3	2473	1.3	1.90e3	1042	1.8	bd	bb
2	12378-PeCDD							NO		0.0832		1518			667			
3	123478-HxCDD							NO		0.130		1295			1104			
4	123678-HxCDD							NO		0.119		1295			1104			
5	123789-HxCDD							NO		0.124		1295			1104			
6	1234678-HpCDD							NO		0.164		1200			1087			
7	OCDD	5.35e2	5.25e2	1.06e3	44.38	1.000	1.02	NO	0.531	0.363	9.12e3	1513	6.0	7.69e3	963	8.0	MM	MM
8	2378-TCDF							NO		0.137		1408			3316			
9	12378-PeCDF	8.65e1	8.36e1	1.70e2	33.36	1.000	1.03	YES	0.022	0.0790	2.55e3	1277	2.0	6.10e3	3381	1.8	bb	bb
10	23478-PeCDF							NO		0.0700		1277			3381			
11	123478-HxCDF							NO		0.0638		1224			1234			
12	123678-HxCDF							NO		0.0605		1224			1234			
13	234678-HxCDF							NO		0.0633		1224			1234			
14	123789-HxCDF							NO		0.0959		1224			1234			
15	1234678-HpCDF							NO		0.0776		976			1599			
16	1234789-HpCDF							NO		0.109		976			1599			
17	OCDF	1.16e2	9.99e1	2.15e2	44.73	1.008	1.16	YES	0.068	0.352	6.90e3	1429	4.8	4.63e3	2371	2.0	bd	bb
18	13C-2378-TCDD	1.84e5	2.28e5	4.11e5	31.28	1.017	0.81	NO	63.019	0.286	2.60e6	6593	393.7	3.11e6	2804	1110.7	bb	bd
19	13C-12378-PeCDD	1.99e5	1.19e5	3.18e5	34.16	1.110	1.67	NO	68.260	0.483	3.53e6	7901	447.0	2.12e6	3445	616.7	bd	bd
20	13C-123478-HxCDD	1.51e5	1.09e5	2.59e5	36.77	0.991	1.38	NO	64.455	0.750	2.50e6	6723	371.5	1.96e6	8646	227.2	bd	bd
21	13C-123678-HxCDD	1.84e5	1.53e5	3.37e5	36.86	0.994	1.20	NO	69.134	0.619	2.57e6	6723	382.3	2.04e6	8646	235.6	dd	dd
22	13C-1234678-HpCDD	1.32e5	1.21e5	2.53e5	40.15	1.082	1.10	NO	66.638	0.586	1.48e6	5839	253.9	1.38e6	5510	250.1	bd	bd
23	13C-OCDD	1.70e5	1.91e5	3.61e5	44.37	1.196	0.89	NO	116.522	0.887	1.45e6	5663	256.3	1.62e6	8333	194.4	bd	bd
24	13C-2378-TCDF	2.82e5	3.47e5	6.29e5	30.58	0.994	0.81	NO	63.291	0.159	2.87e6	4273	670.5	3.58e6	3684	971.5	bd	bd
25	13C-12378-PeCDF	3.75e5	2.32e5	6.07e5	33.36	1.084	1.61	NO	61.625	0.406	7.15e6	8492	841.7	4.50e6	11677	385.0	bd	bb
26	13C-23478-PeCDF	3.81e5	2.34e5	6.15e5	33.97	1.104	1.63	NO	66.306	0.431	7.39e6	8492	870.0	4.28e6	11677	366.6	bb	bd
27	13C-123478-HxCDF	1.33e5	2.55e5	3.88e5	36.05	0.972	0.52	NO	63.295	0.596	2.33e6	9825	237.5	4.31e6	8781	491.3	bd	bd
28	13C-123678-HxCDF	1.83e5	3.41e5	5.24e5	36.15	0.975	0.54	NO	69.083	0.482	2.58e6	9825	262.1	4.86e6	8781	553.2	dd	dd
29	13C-234678-HxCDF	1.50e5	2.79e5	4.29e5	36.64	0.988	0.54	NO	67.621	0.575	2.39e6	9825	243.4	4.28e6	8781	487.0	bb	bb
30	13C-123789-HxCDF	1.20e5	2.36e5	3.56e5	37.42	1.009	0.51	NO	63.109	0.647	1.66e6	9825	169.1	3.03e6	8781	344.6	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:55 PM Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.50e5	3.29e5	4.79e5	38.89	1.048	0.46	NO	65.676	0.759	1.88e6	9751	193.0	4.19e6	18430	227.1	bd	bb
32	13C-1234789-HpCDF	1.22e5	2.66e5	3.88e5	40.83	1.100	0.46	NO	68.164	0.973	1.36e6	9751	139.3	2.85e6	18430	154.8	bb	bd
33	13C-1234-TCDD	2.54e5	3.19e5	5.73e5	30.77	0.000	0.80	NO	100.000	0.325	3.20e6	6593	484.9	3.87e6	2804	1378.8	bb	bb
34	13C-123789-HxCDD	2.64e5	2.11e5	4.75e5	37.10	0.000	1.25	NO	100.000	0.636	3.36e6	6723	499.9	2.66e6	8646	308.2	dd	dd
35	37Cl-2378-TCDD	4.85e4		4.85e4	31.30	1.017			7.522	0.0688	7.05e5	2232	316.0				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-6, ID:21423003-1, Description: 52698

M	M2
7 OCDD 44.38 - AB	7 OCDD 44.38 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:55 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	8.02e1	6.57e1	1.46e2	27.93	1.22	YES	0.032	0.137	4.98e3	2473	2.0	1.66e3	1042	1.6	bb	bb
2	Total-tetradioxins	1.67e2	6.57e1	2.32e2	28.97	2.54	YES	0.051	0.137	4.08e3	2473	1.6	4.39e3	1042	4.2	bb	bb
3	Total-tetradioxins	1.04e2	6.76e1	1.72e2	30.74	1.54	YES	0.038	0.137	4.12e3	2473	1.7	4.51e3	1042	4.3	bb	bb
4	2378-TCDD	7.01e1	1.14e2	1.84e2	31.28	0.62	YES	0.041	0.137	3.10e3	2473	1.3	1.90e3	1042	1.8	bd	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	9.52e1	5.15e1	1.47e2	36.07	1.85	YES	0.046	0.124	4.02e3	1295	3.1	2.17e3	1104	2.0	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	5.76e1	6.08e1	1.18e2	39.25	0.95	NO	0.038	0.164	2.54e3	1200	2.1	2.19e3	1087	2.0	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:55 PM Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	1.05e2	1.37e2	2.42e2	26.24	0.77	NO	0.028	0.137	3.40e3	1408	2.4	3.29e3	3316	1.0	bb	bd
2	Total-tetrafurans	8.11e1	1.11e2	1.92e2	26.75	0.73	NO	0.023	0.137	4.53e3	1408	3.2	3.09e3	3316	0.9	bb	bb
3	Total-tetrafurans	6.41e1	5.76e1	1.22e2	27.89	1.11	YES	0.014	0.137	3.76e3	1408	2.7	3.15e3	3316	0.9	bd	bb
4	Total-tetrafurans	5.41e1	5.20e1	1.06e2	27.96	1.04	YES	0.012	0.137	3.00e3	1408	2.1	2.69e3	3316	0.8	db	bb
5	Total-tetrafurans	1.10e2	1.38e2	2.49e2	28.71	0.80	NO	0.029	0.137	5.30e3	1408	3.8	4.24e3	3316	1.3	bd	bb
6	Total-tetrafurans	9.12e1	1.34e2	2.25e2	29.58	0.68	NO	0.027	0.137	1.99e3	1408	1.4	5.77e3	3316	1.7	bb	db
7	Total-tetrafurans	5.17e1	6.95e1	1.21e2	30.26	0.74	NO	0.014	0.137	3.15e3	1408	2.2	3.63e3	3316	1.1	bb	db
8	Total-tetrafurans	5.83e1	1.62e2	2.20e2	30.39	0.36	YES	0.026	0.137	1.63e3	1408	1.2	3.83e3	3316	1.2	bb	bb
9	Total-tetrafurans	7.48e1	8.47e1	1.59e2	30.78	0.88	NO	0.019	0.137	3.69e3	1408	2.6	4.00e3	3316	1.2	bb	bb
10	Total-tetrafurans	5.34e1	7.42e1	1.28e2	31.54	0.72	NO	0.015	0.137	3.64e3	1408	2.6	4.47e3	3316	1.3	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	8.64e1	5.52e1	1.42e2	27.20	1.56	NO	0.017	0.0396	4.80e3	679	7.1	1.37e3	1807	0.8	bb	bb
2	Total-pentafurans (F1)	5.27e1	6.76e1	1.20e2	32.03	0.78	YES	0.015	0.0396	3.58e3	679	5.3	1.93e3	1807	1.1	bb	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	5.62e1	1.01e2	1.57e2	32.75	0.56	YES	0.019	0.0743	3.05e3	1277	2.4	7.92e3	3381	2.3	bd	bb
2	Total-pentafurans	7.05e1	5.70e1	1.27e2	32.81	1.24	YES	0.016	0.0743	3.11e3	1277	2.4	2.97e3	3381	0.9	db	bb
3	12378-PeCDF	8.65e1	8.36e1	1.70e2	33.36	1.03	YES	0.022	0.0790	2.55e3	1277	2.0	6.10e3	3381	1.8	bb	bb
4	Total-pentafurans	6.68e1	5.13e1	1.18e2	34.08	1.30	YES	0.014	0.0743	3.61e3	1277	2.8	1.80e3	3381	0.5	db	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-5.qld

Last Altered: Wednesday, June 28, 2023 3:18:01 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:37:55 PM Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	5.12e1	7.48e1	1.26e2	38.91	0.69	YES	0.021	0.0916	3.30e3	976	3.4	3.72e3	1599	2.3	bb	bb
2	Total-heptafurans	1.38e2	1.20e2	2.57e2	39.42	1.15	NO	0.043	0.0916	5.90e3	976	6.0	5.10e3	1599	3.2	MM	db

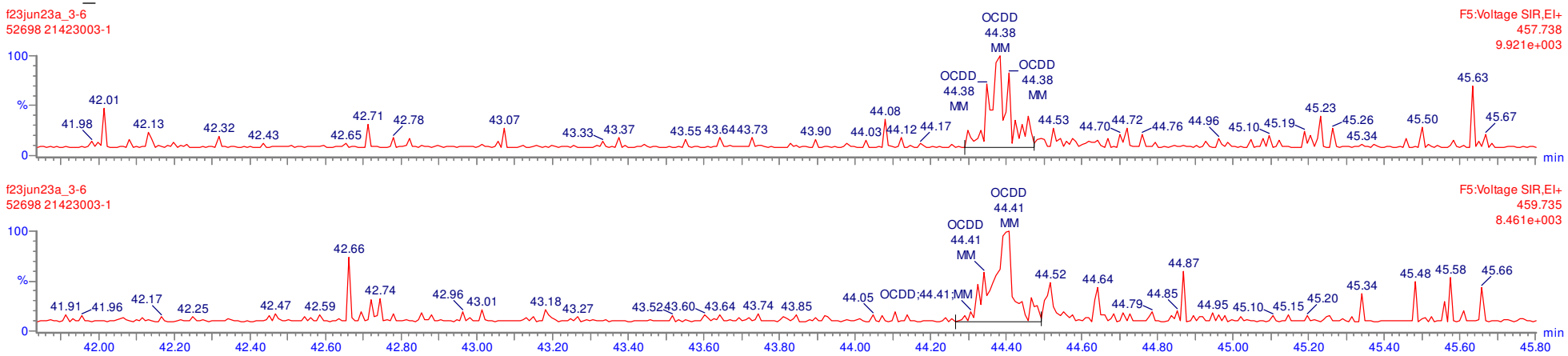
Reasons for Analyst Intervention

Name:f23jun23a_3-6, ID:21423003-1, Description: 52698

M	M2
2 Total-heptafurans 39.42 - AB	

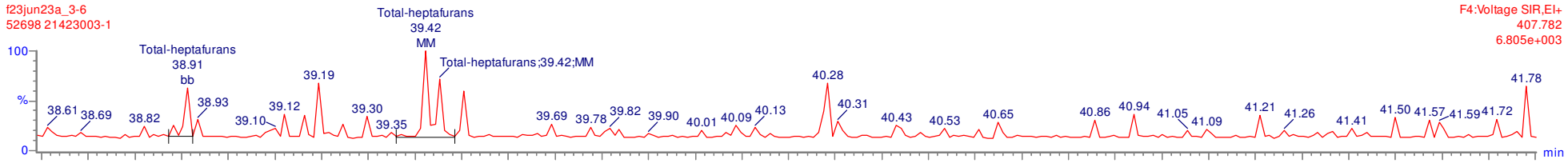
Reason Codes assigned by MW1 on 28-JUN-23

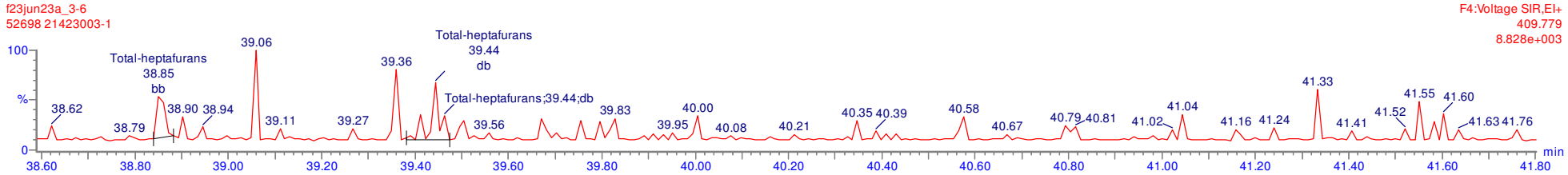
MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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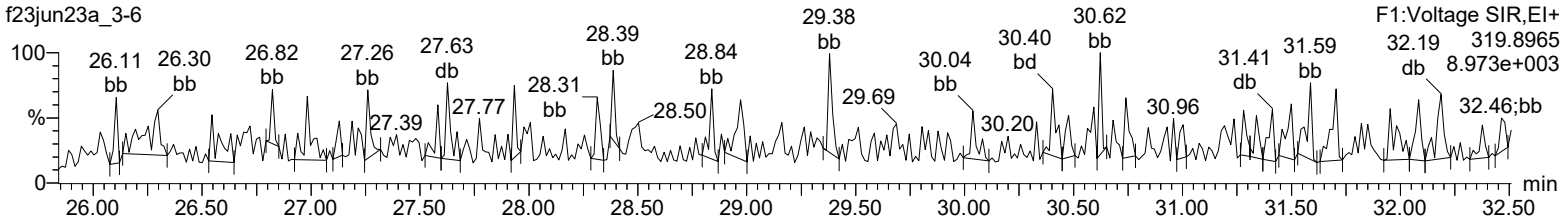
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

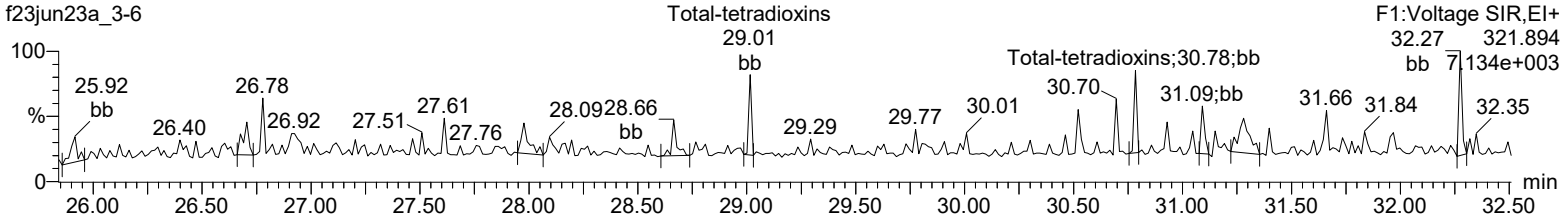
AMA 06/29/2023

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-tetradioxins



Total-tetradioxins



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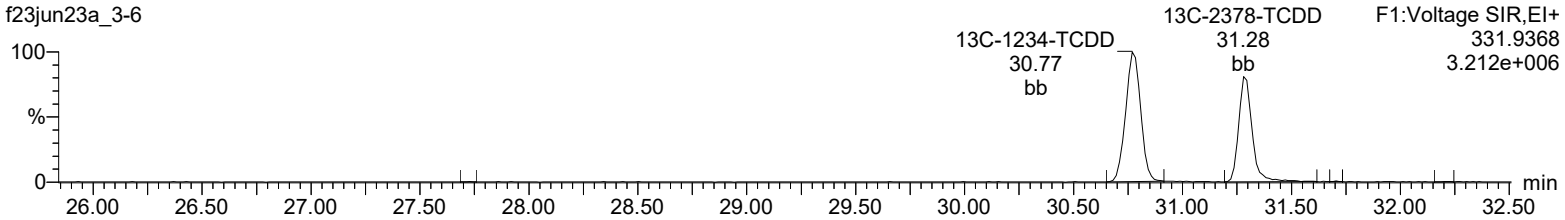

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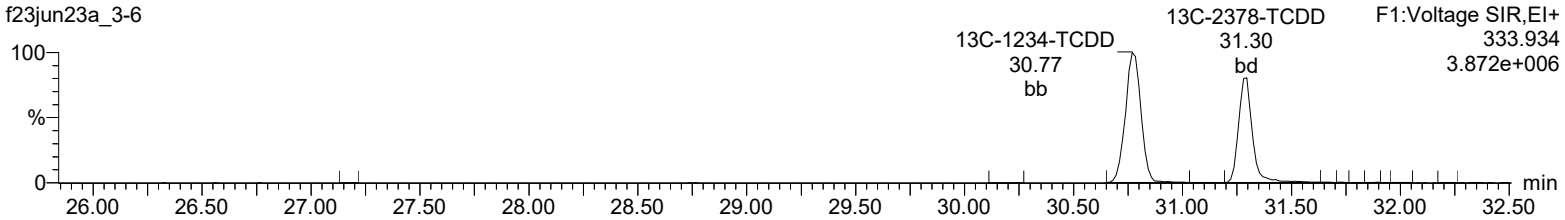

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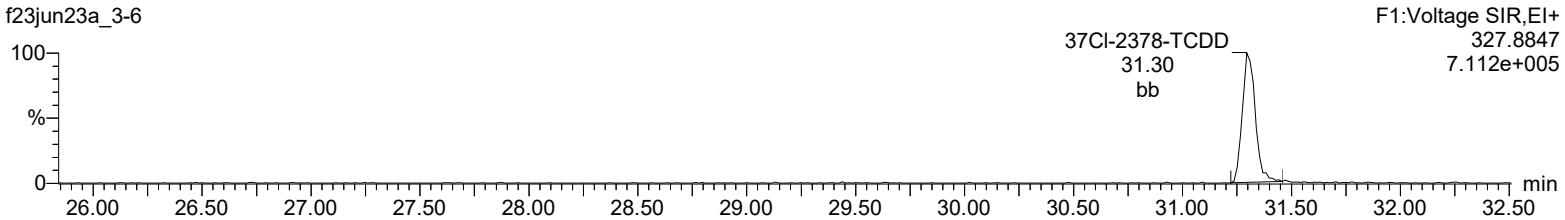

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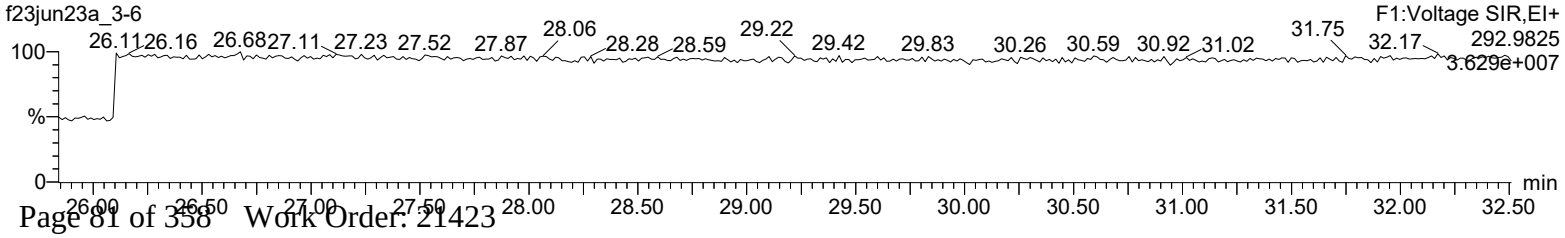


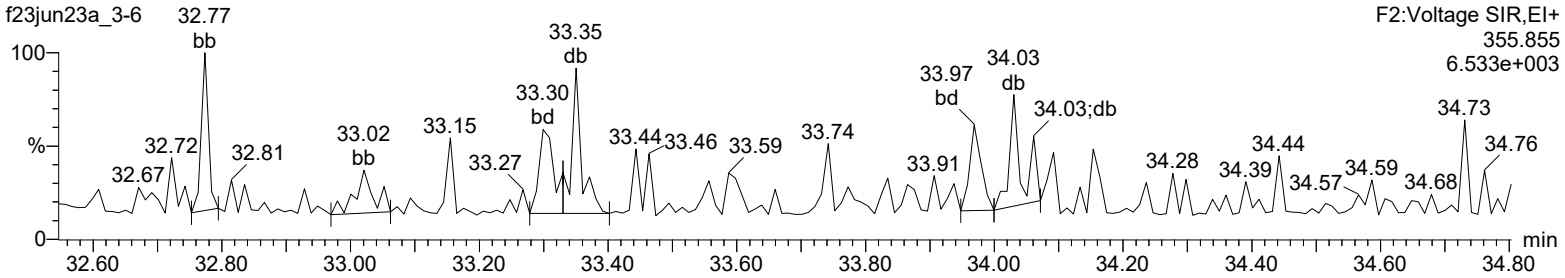
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

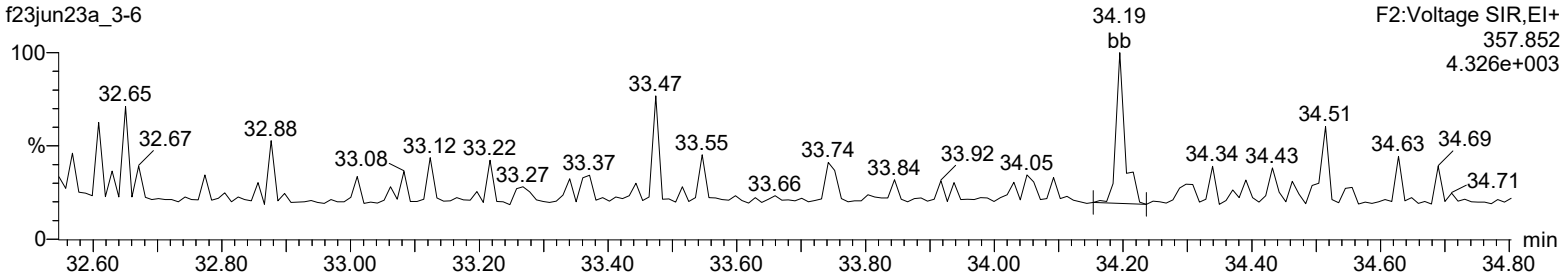
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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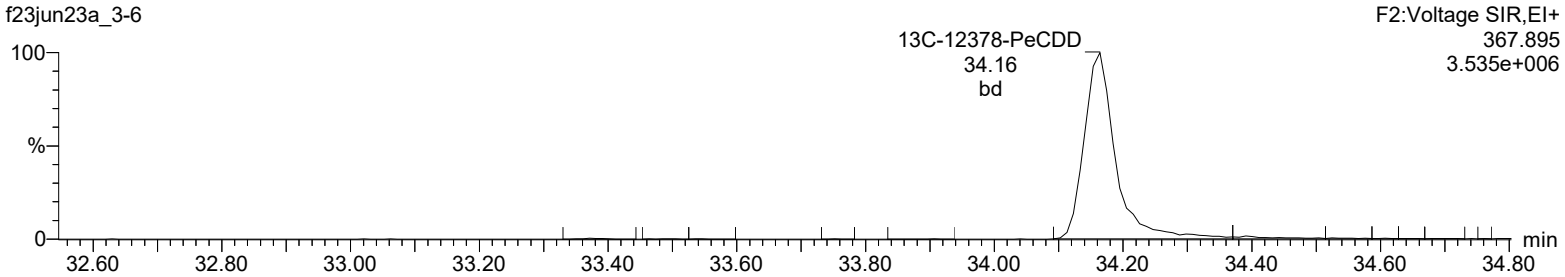

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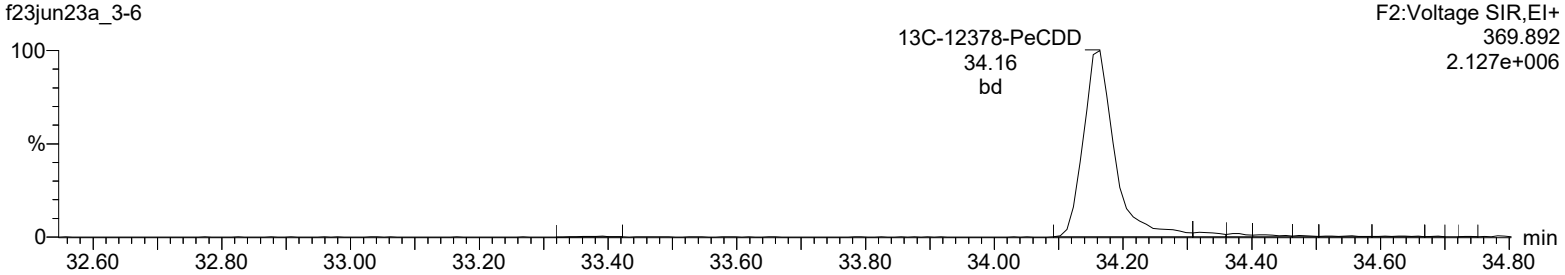
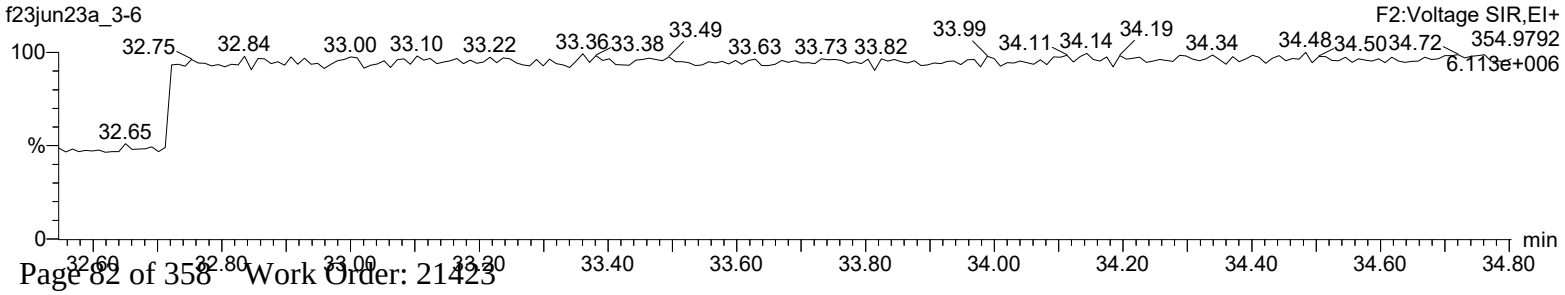


Lock Mass F2



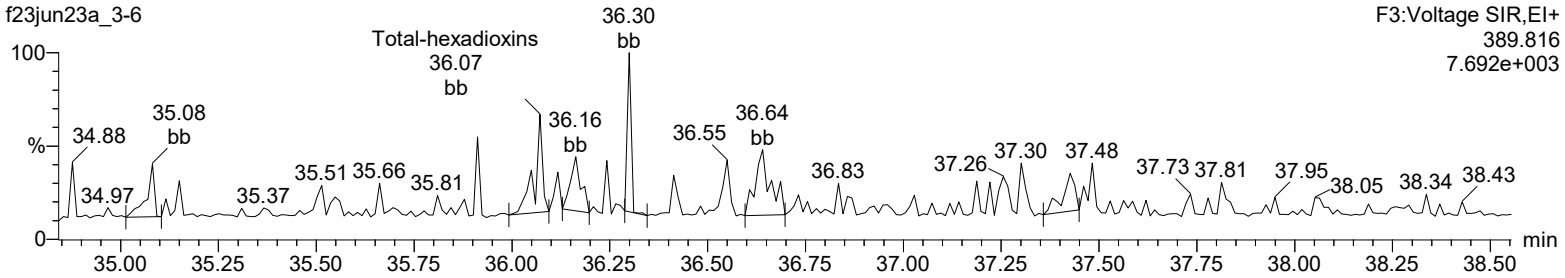
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

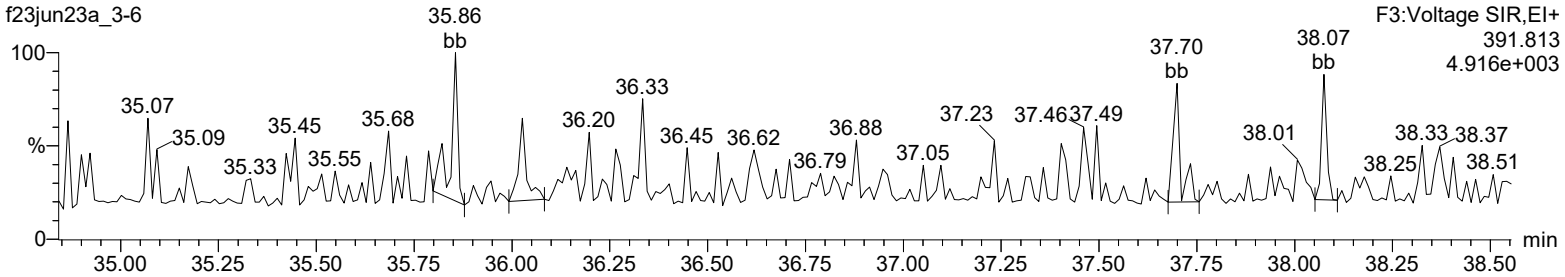
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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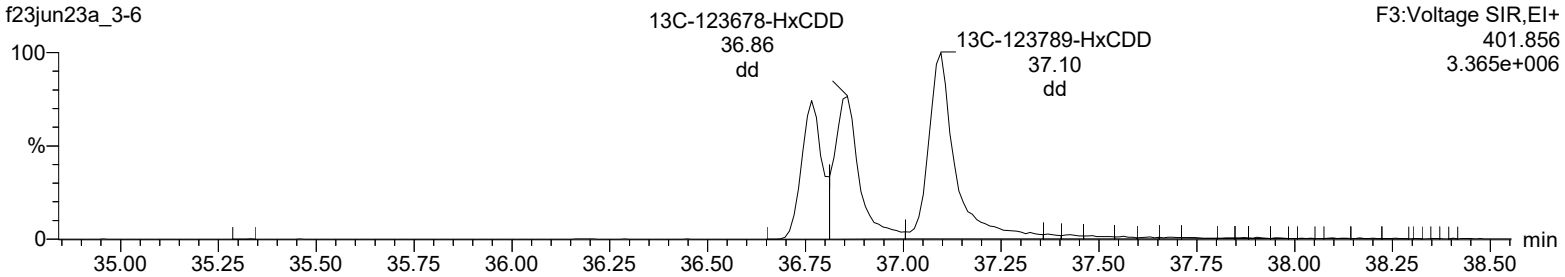

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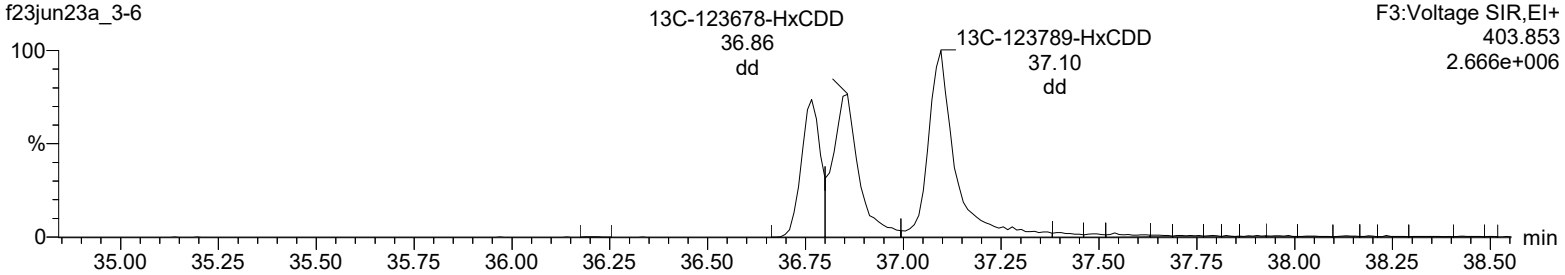

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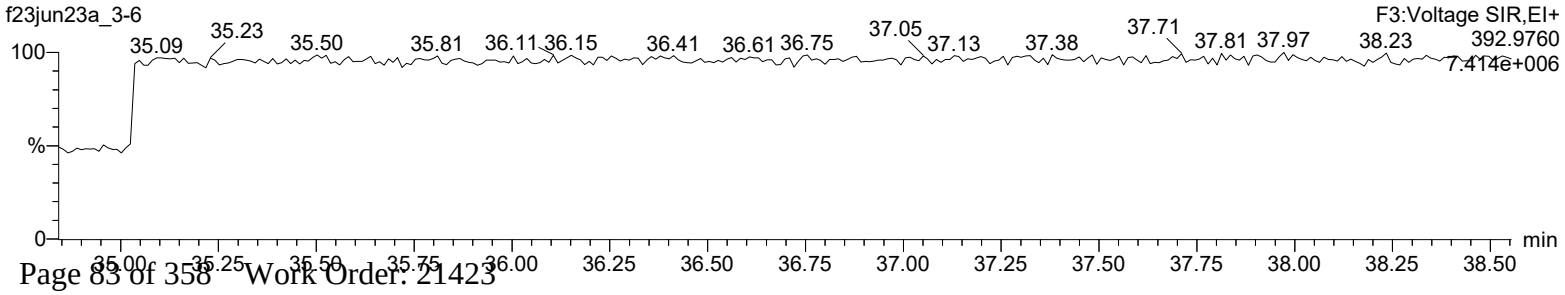


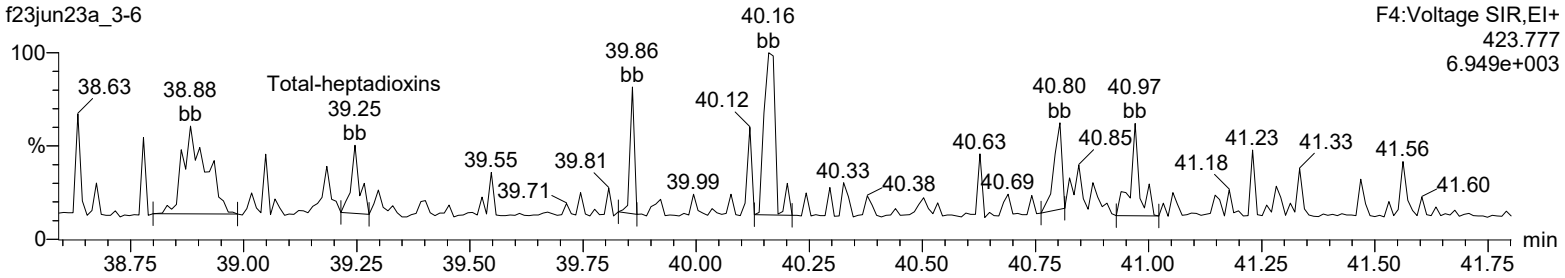
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

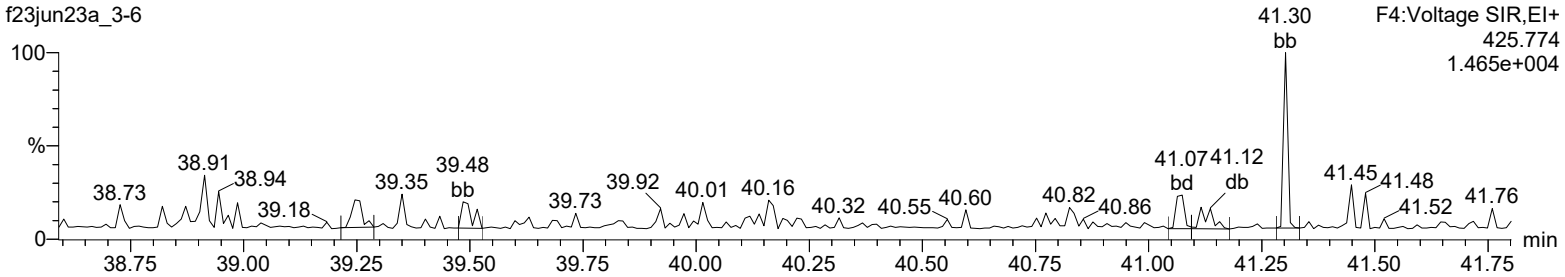
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

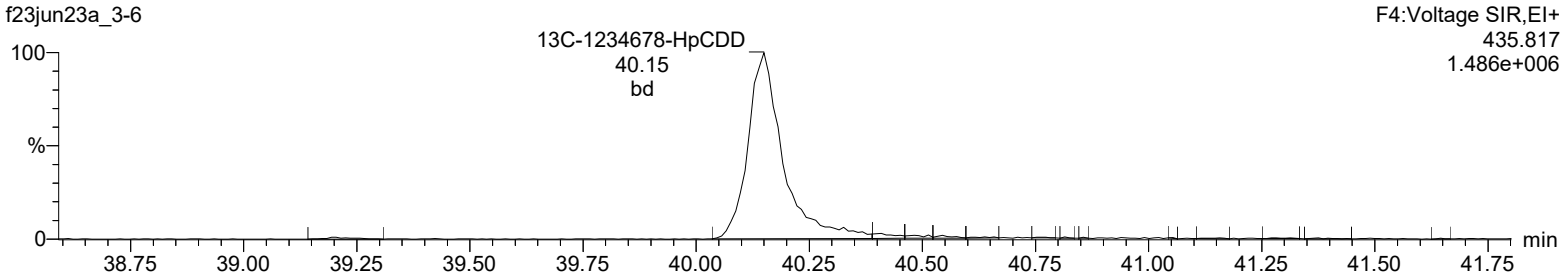
Total-heptadioxins



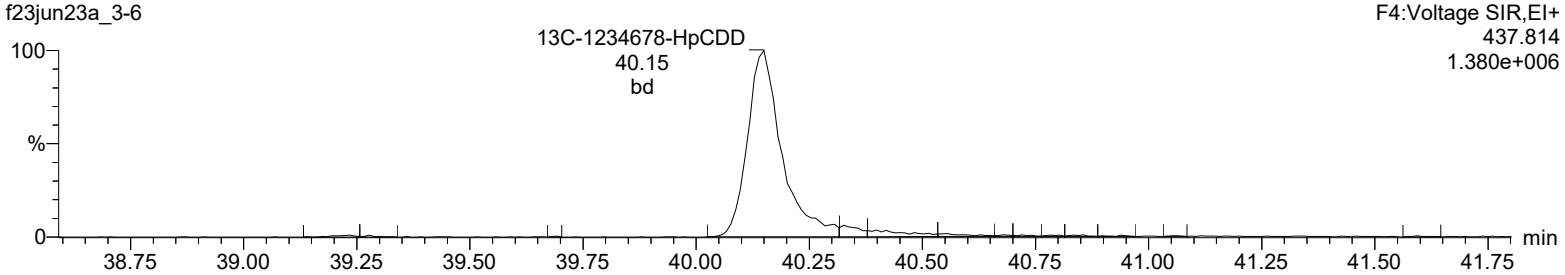
Total-heptadioxins



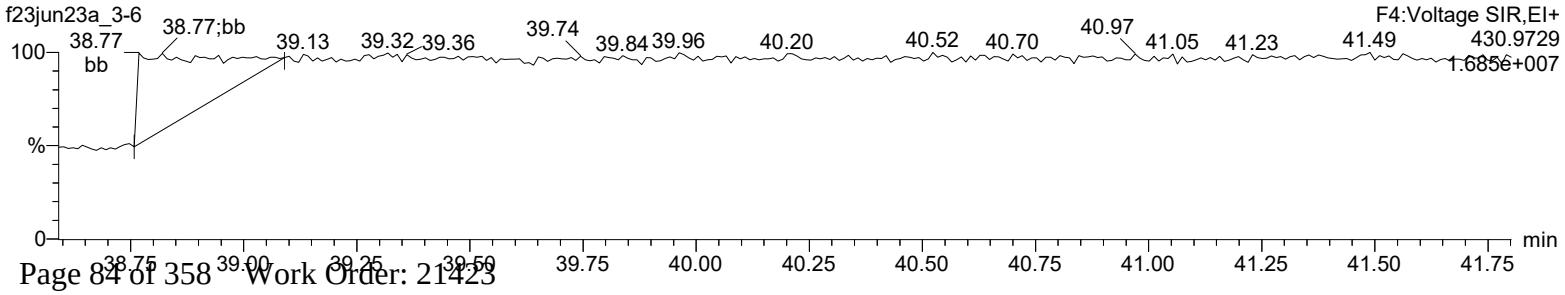
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



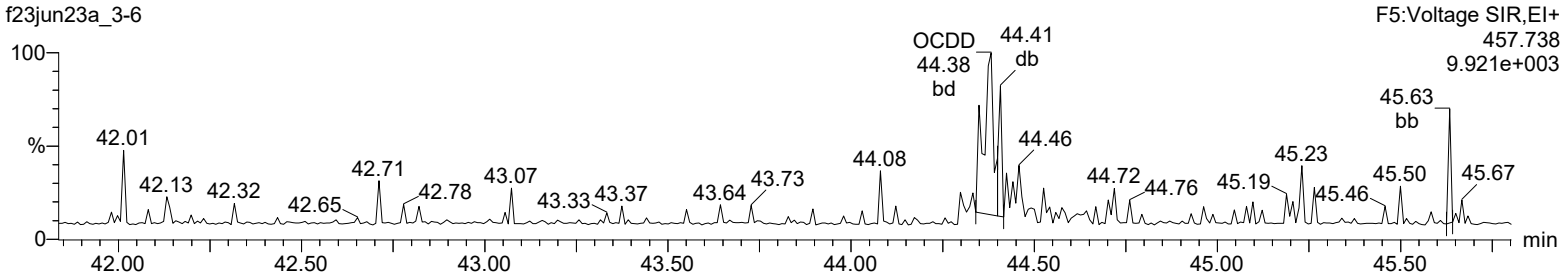
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

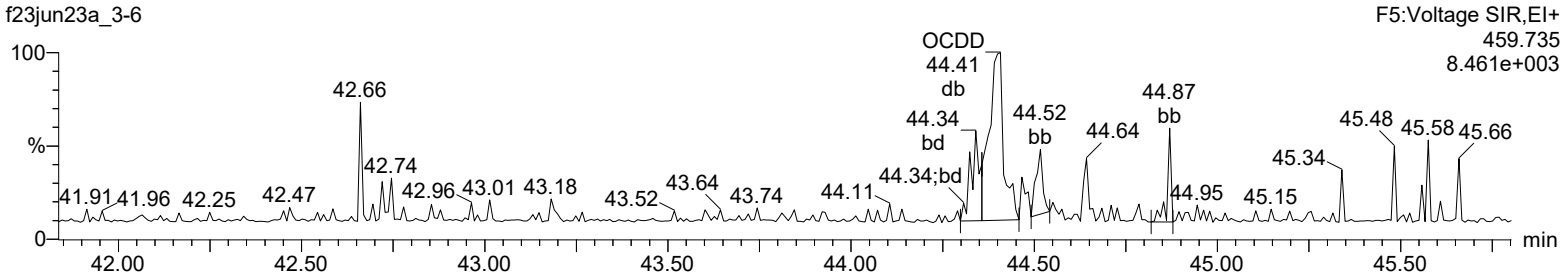
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

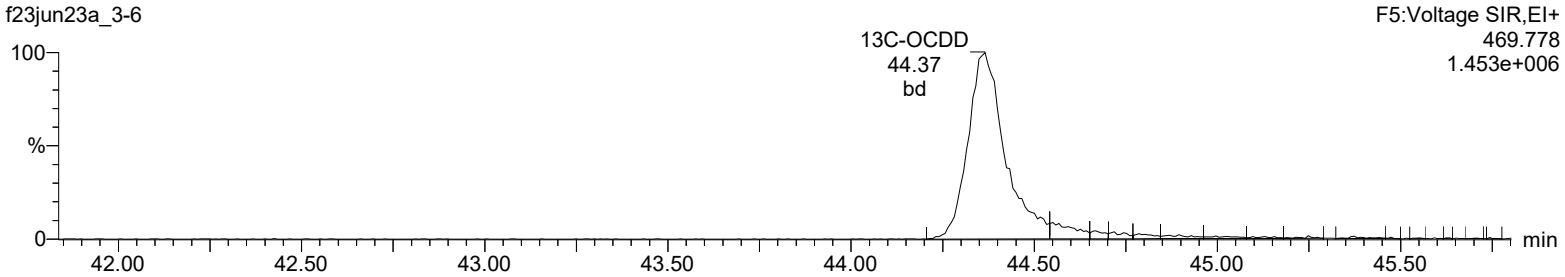
OCDD



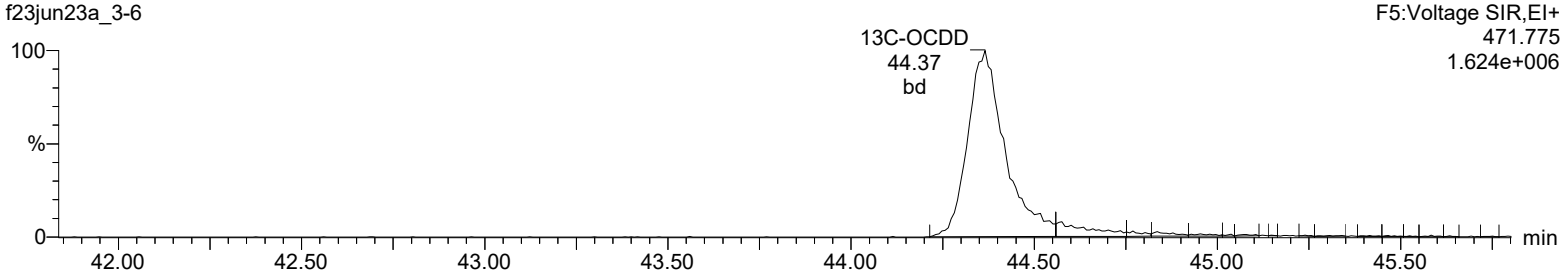
OCDD



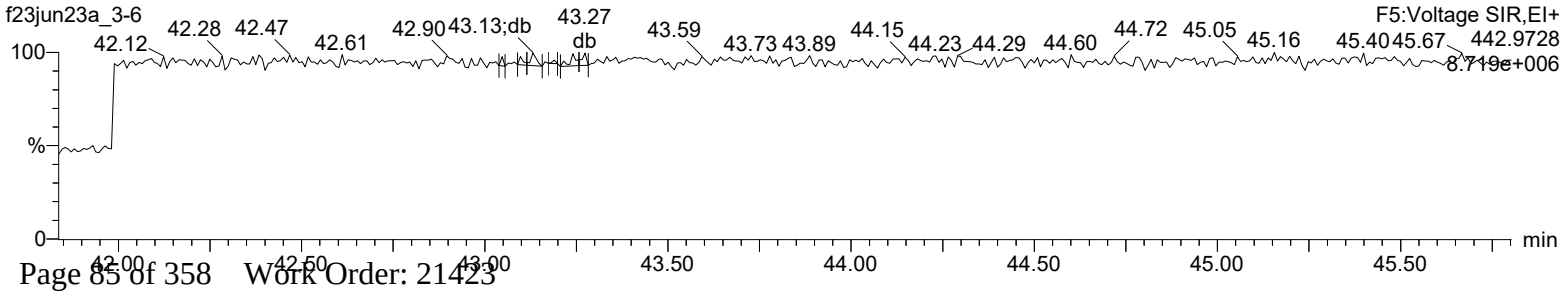
13C-OCDD



13C-OCDD



Lock Mass F5



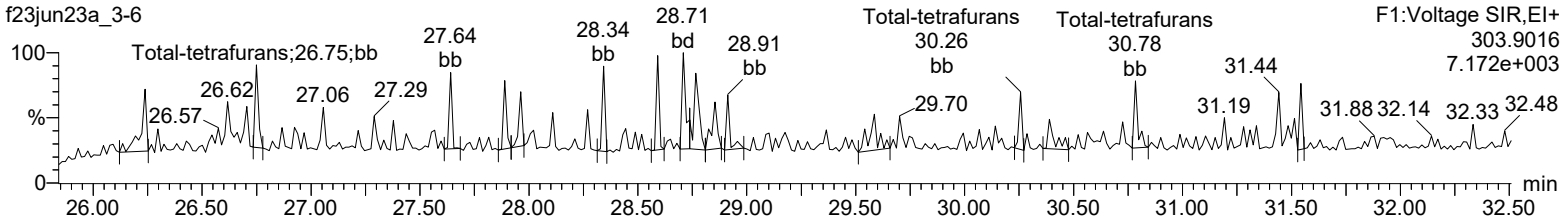
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

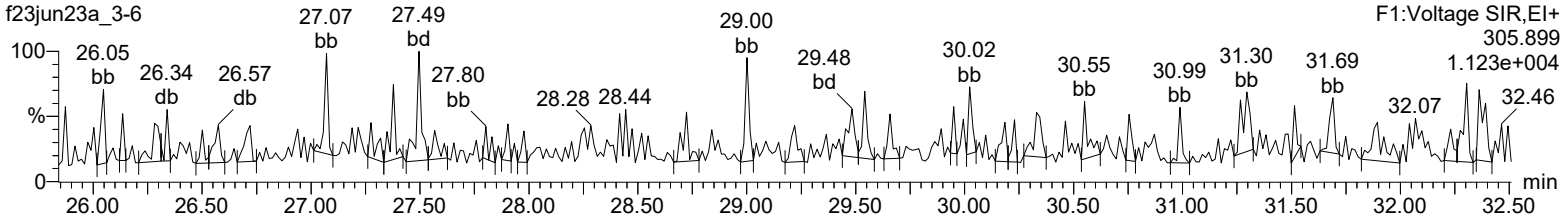
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

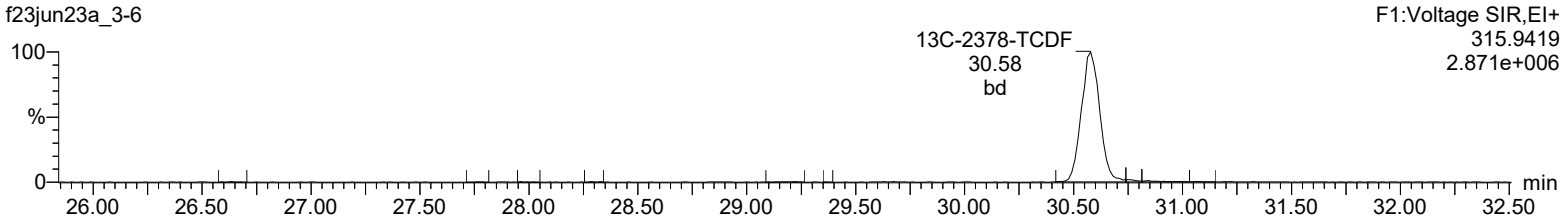
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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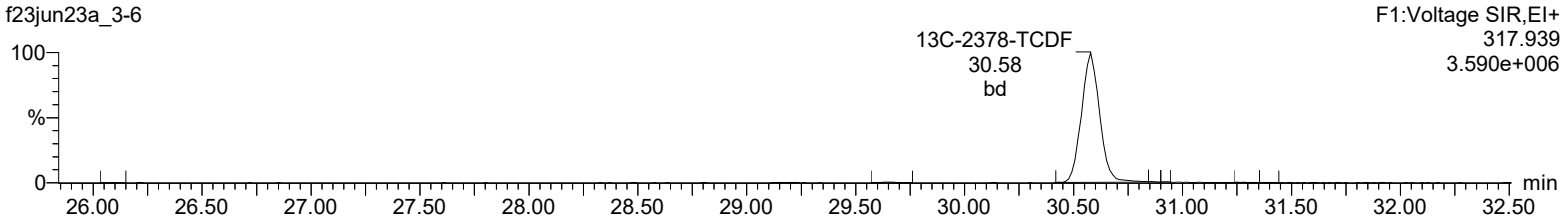
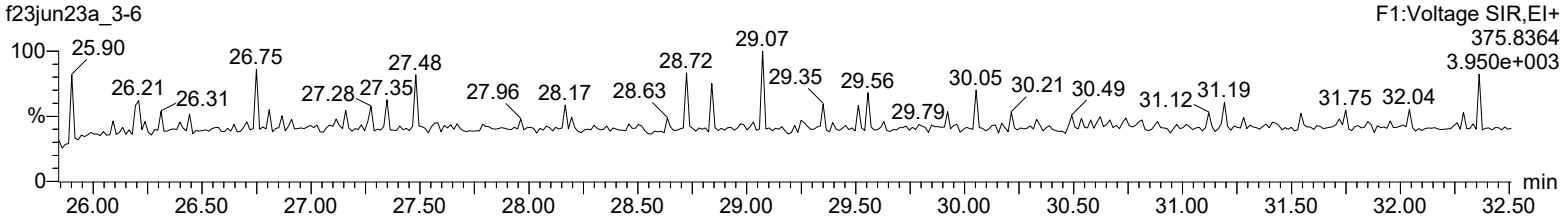
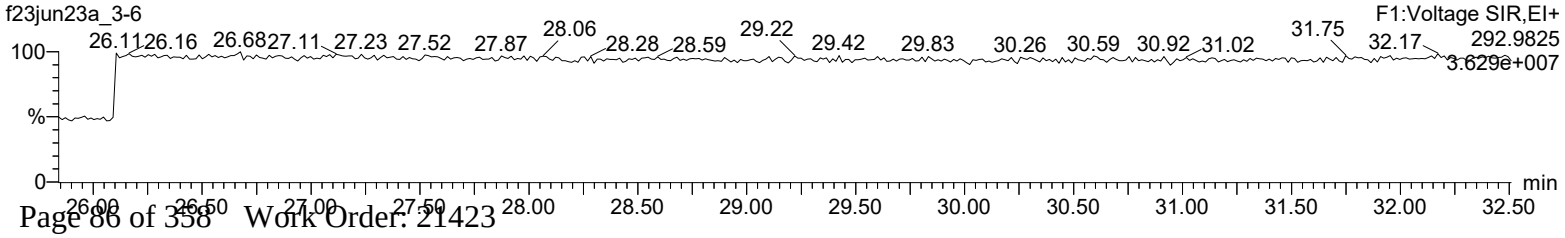


HxDPE



Lock Mass F1



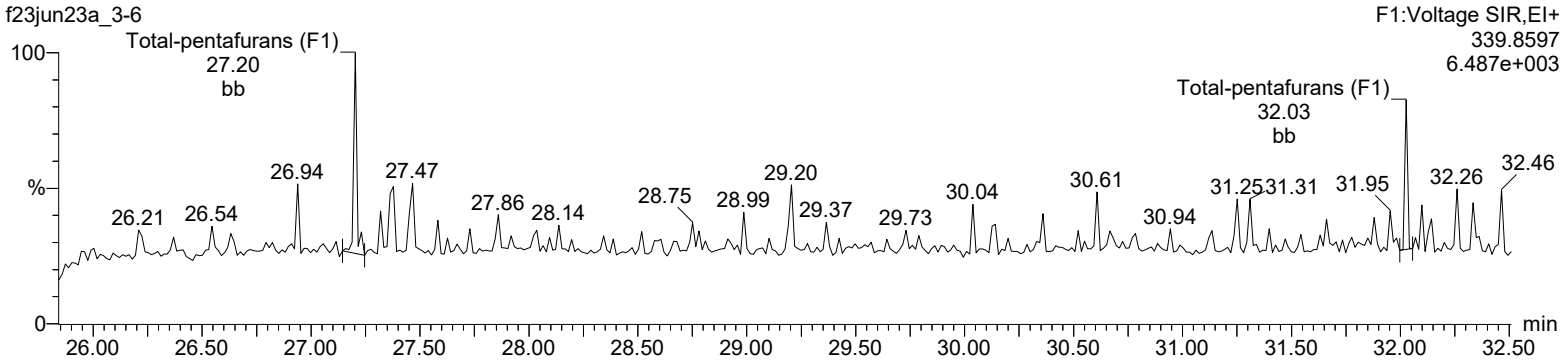
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

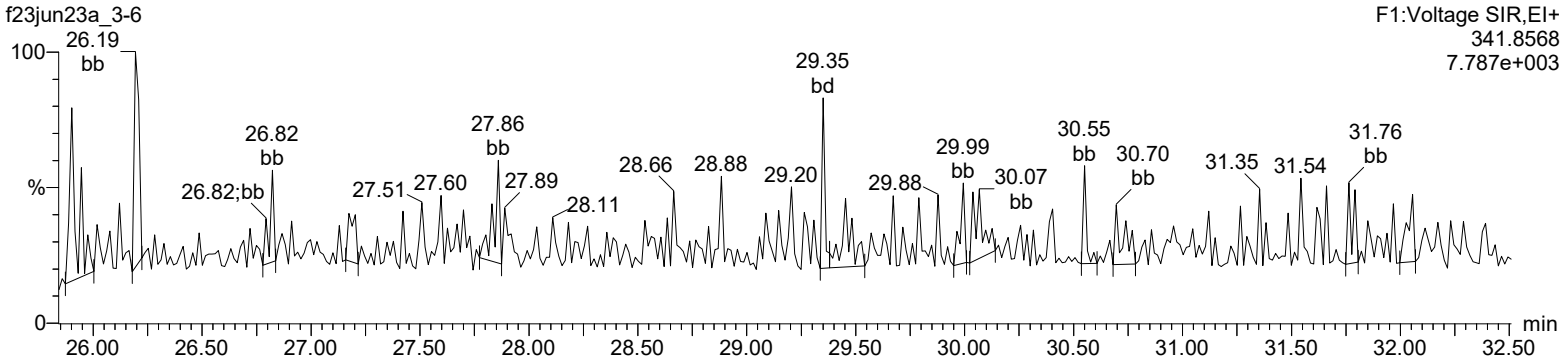
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

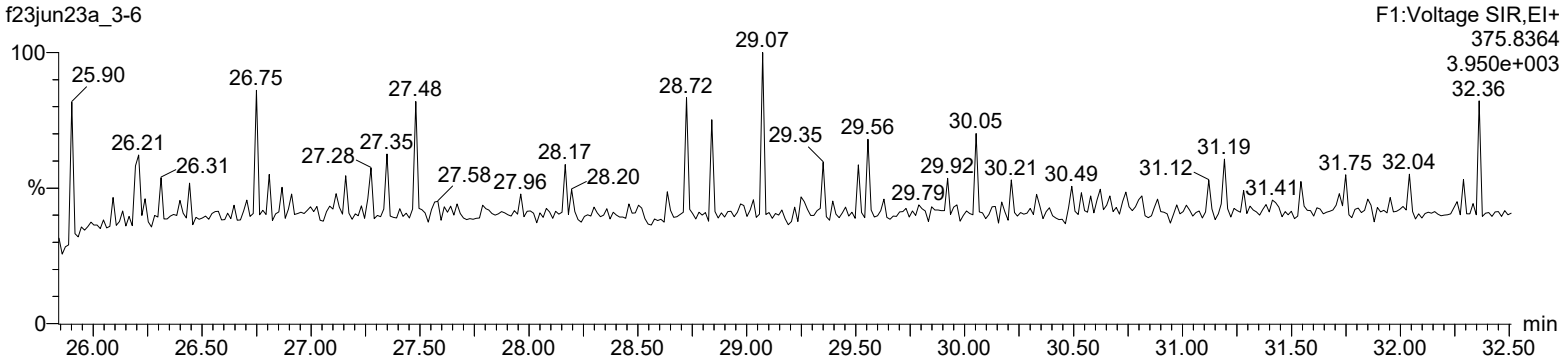
Total-pentafurans (F1)



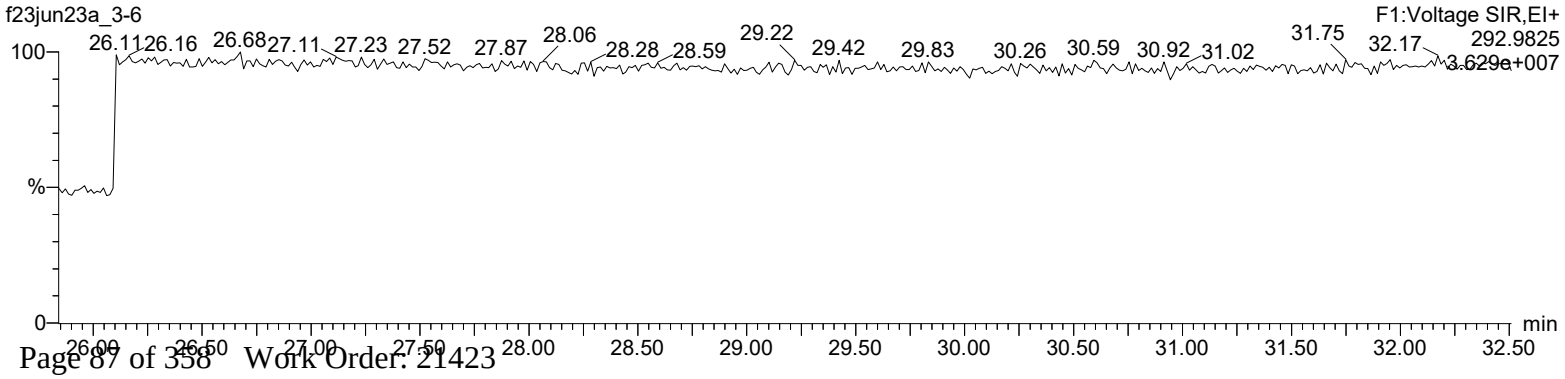
Total-pentafurans (F1)



HxDPE



Lock Mass F1



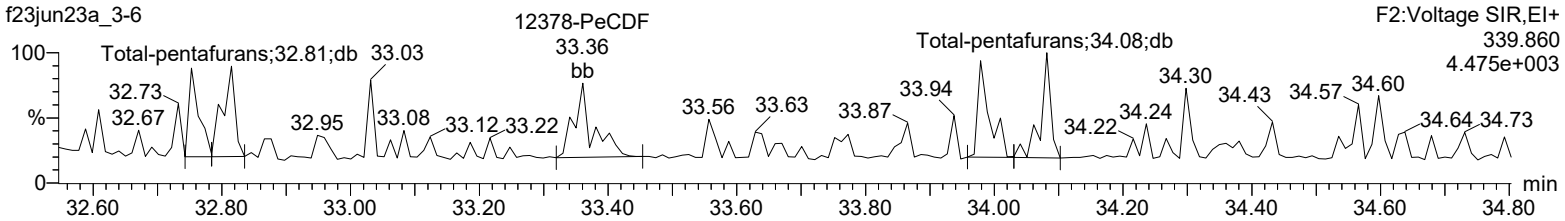
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

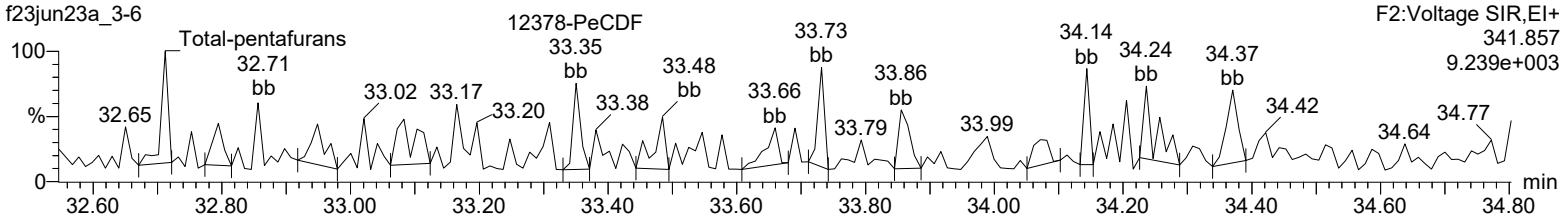
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

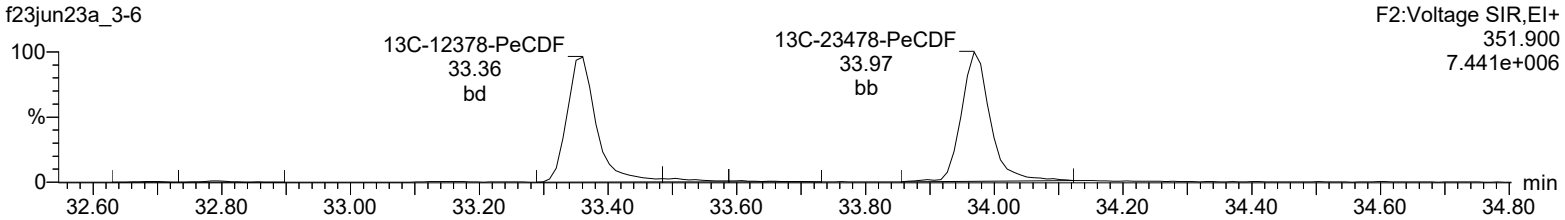
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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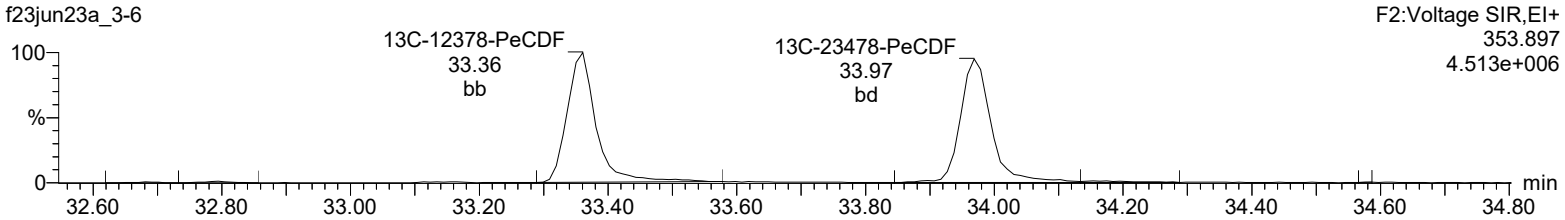
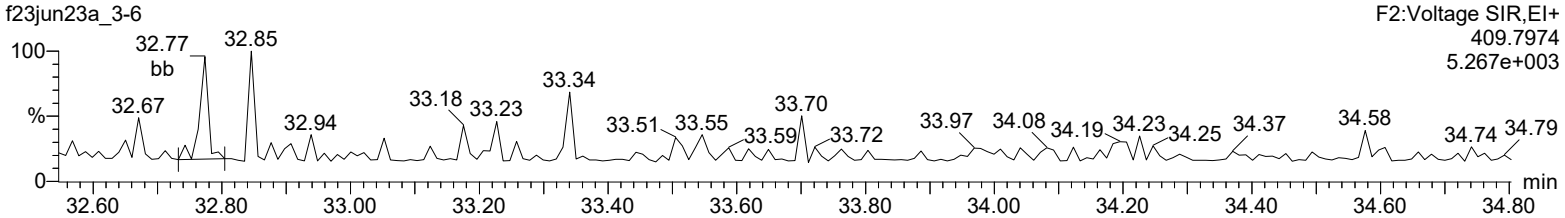
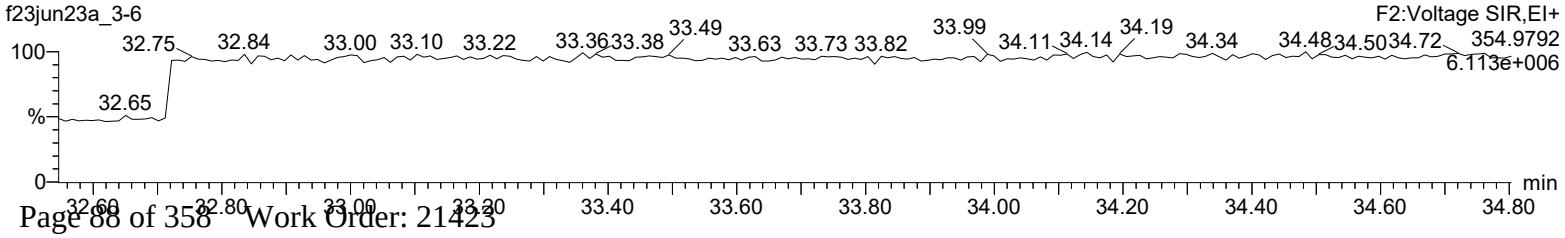


HpDPE



Lock Mass F2



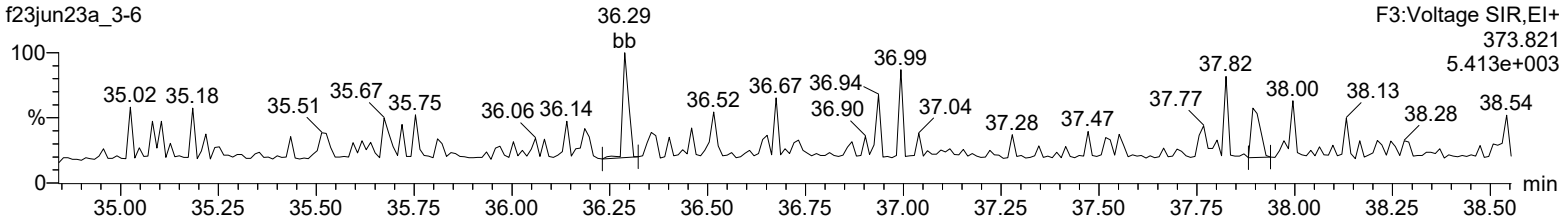
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

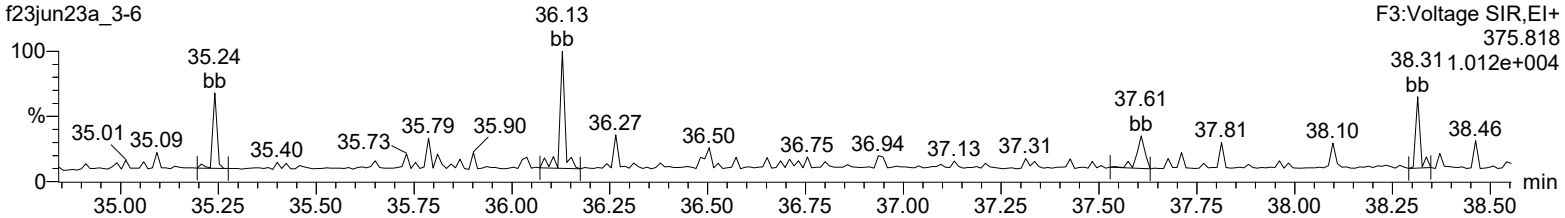
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

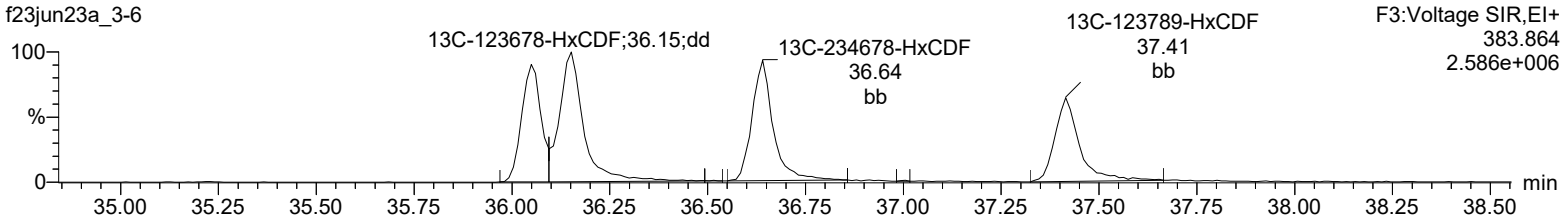
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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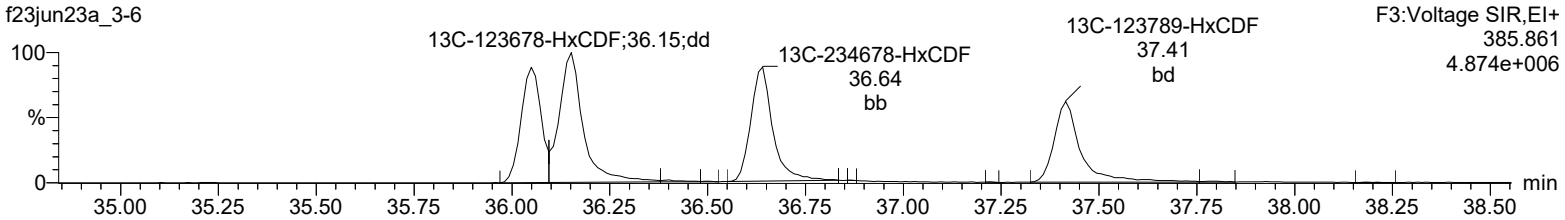
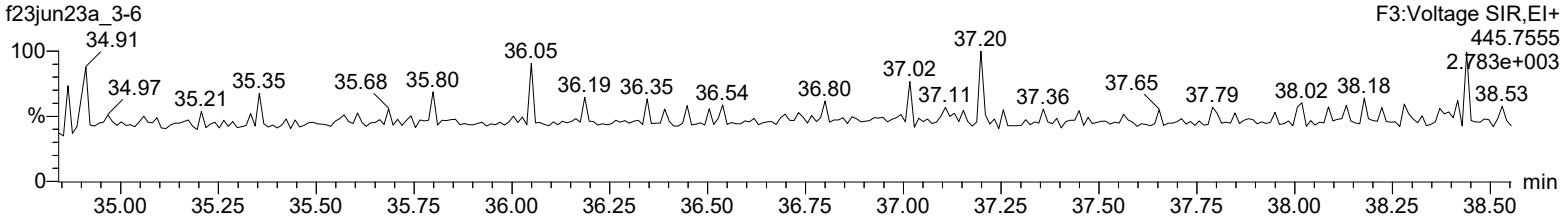
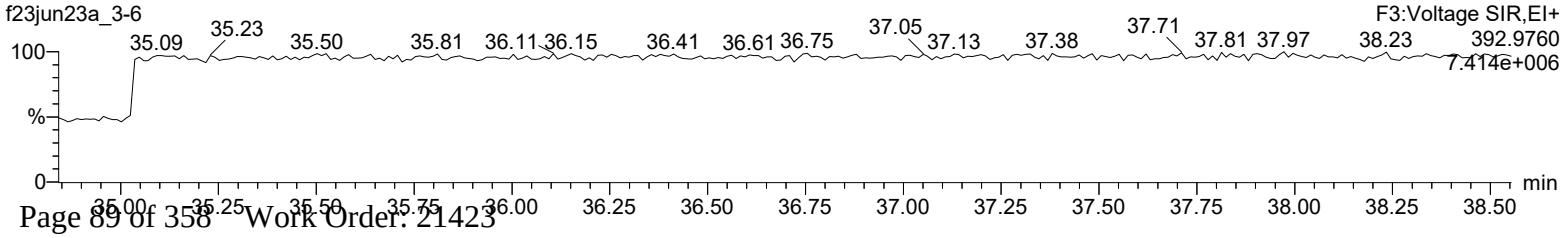


OcDPE



Lock Mass F3



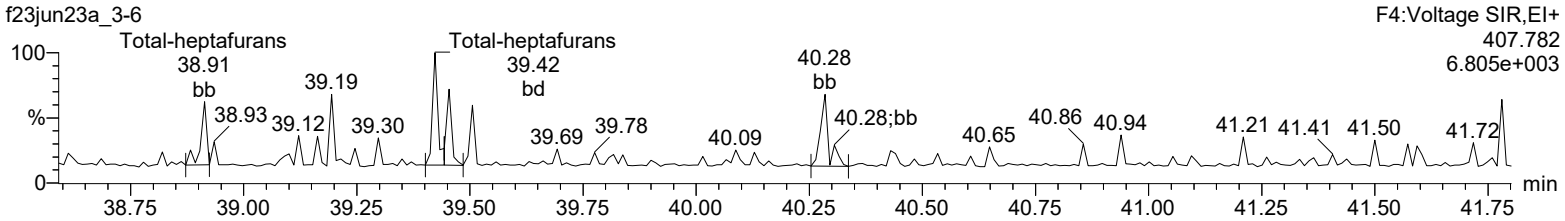
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

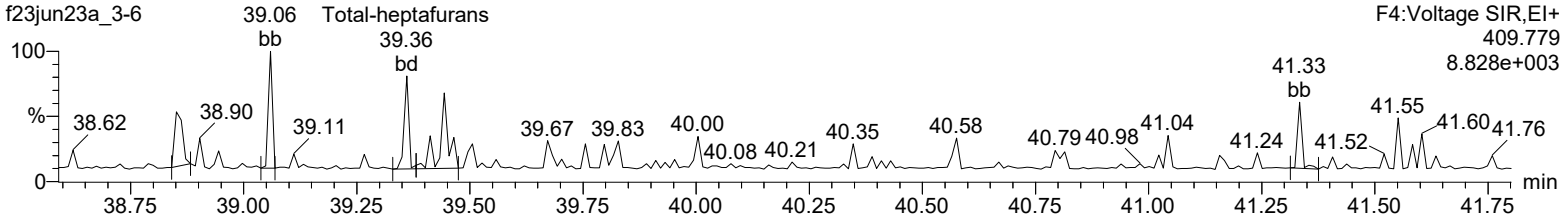
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

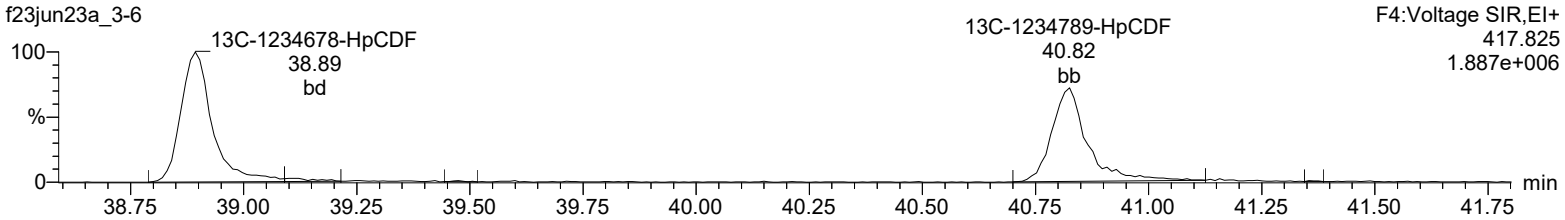
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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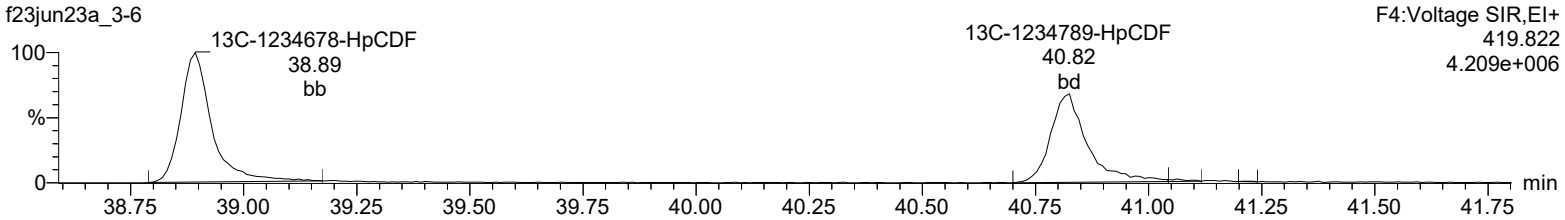
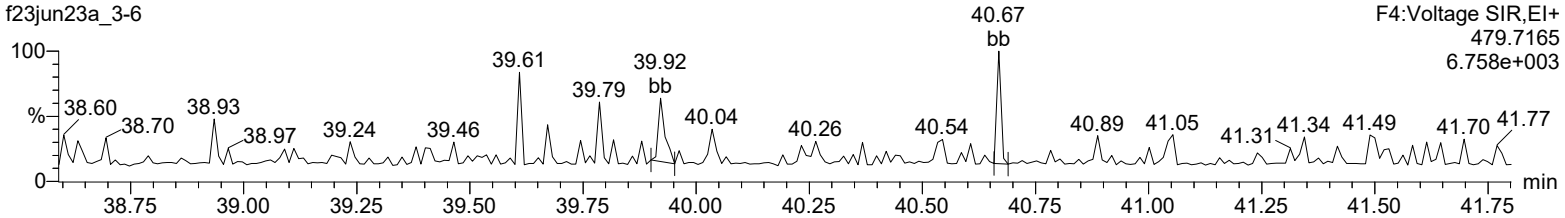
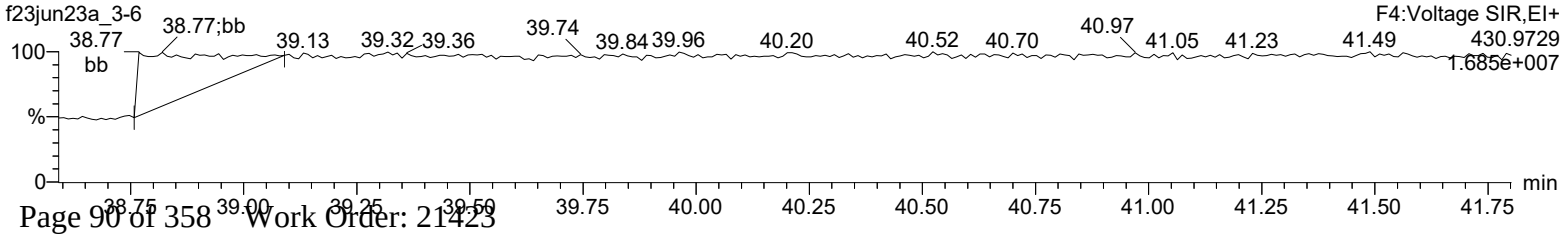


NoDPE



Lock Mass F4



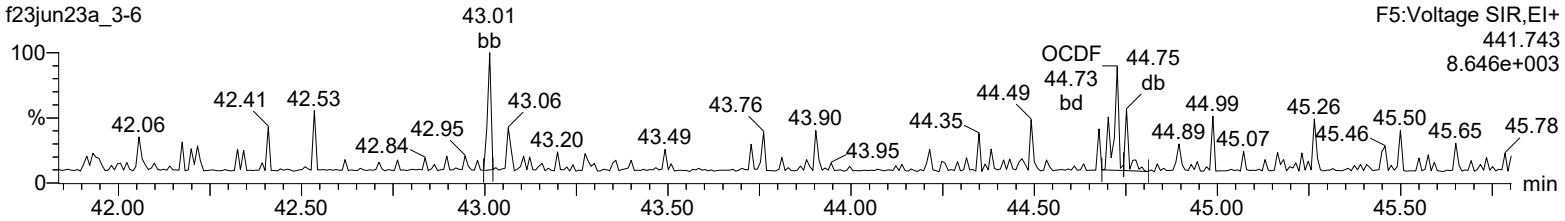
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

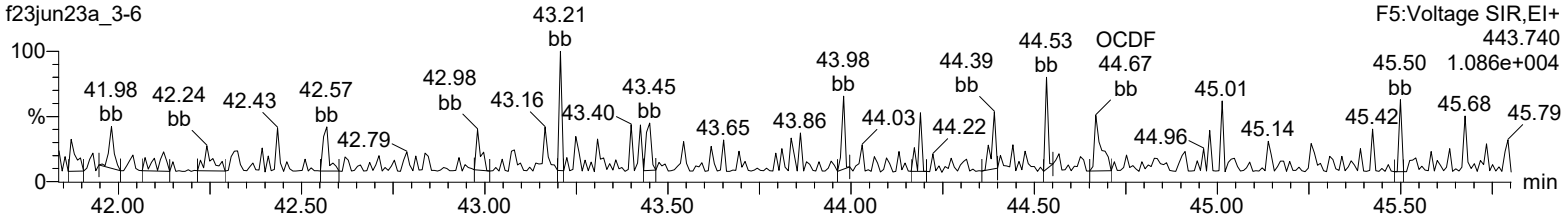
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-6, Date: 24-Jun-2023, Time: 12:52:04, ID: 21423003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

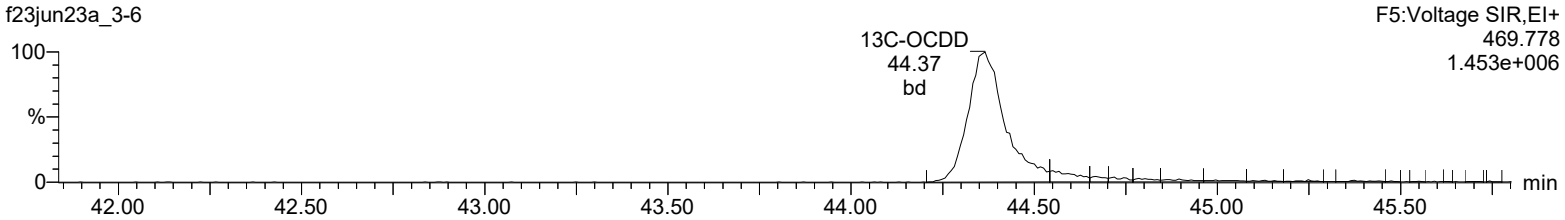
OCDF



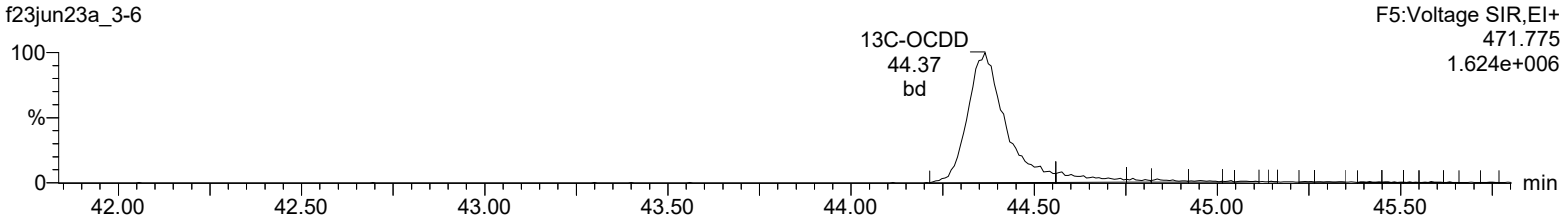
OCDF



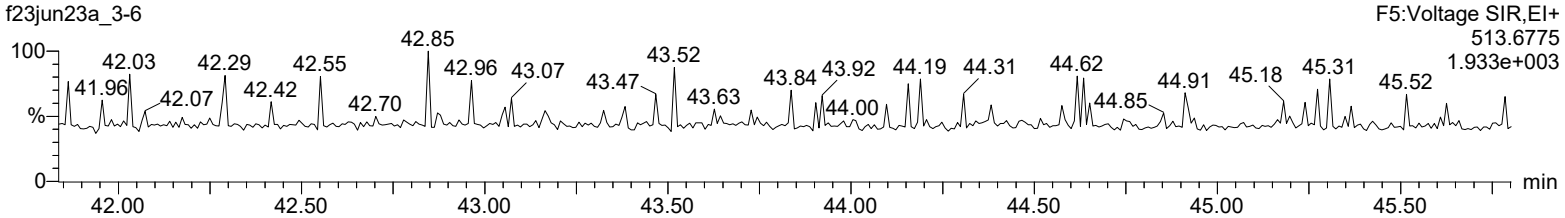
13C-OCDD



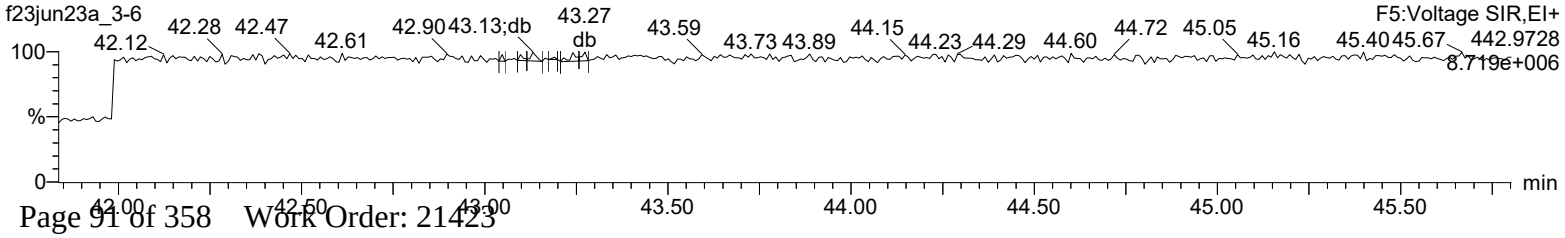
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423004**	**Date Collected:**	**10/21/2022 16:48**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR428-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 13:41**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-7**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**960.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.62	pg/L	2.62	5.20
40321-76-4	1,2,3,7,8-PeCDD	U	2.08	pg/L	2.08	26.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.21	pg/L	3.21	52.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.98	pg/L	2.98	52.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.08	pg/L	3.08	52.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	14.1	pg/L	9.01	52.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	88.6	pg/L	14.4	104
51207-31-9	2,3,7,8-TCDF	U	2.77	pg/L	2.77	10.4
57117-41-6	1,2,3,7,8-PeCDF	U	2.02	pg/L	2.02	52.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.93	pg/L	1.93	52.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.10	pg/L	1.10	52.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.00	pg/L	1.00	52.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.16	pg/L	1.16	52.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.79	pg/L	1.79	52.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.29	pg/L	2.29	52.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.60	pg/L	3.60	52.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.83	pg/L	7.83	104
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.62	pg/L	2.62	10.4
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.08	pg/L	2.08	52.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	J	4.50	pg/L	2.98	52.0
TCDF	Total Tetrachlorodibenzofuran	U	2.77	pg/L	2.77	10.4
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	33.8	pg/L	9.01	52.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.808	pg/L	0.808	52.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.00	pg/L	1.00	52.0
38998-75-3	Total Heptachlorodibenzofuran	JK	3.25	pg/L	2.29	52.0
TEQ	TEQ WHO2005 ND=0		0.168	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.72	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1420	2080	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1420	2080	pg/L	68.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1280	2080	pg/L	61.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1440	2080	pg/L	69.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1360	2080	pg/L	65.2	(23%-140%)
13C-OCDD		2390	4160	pg/L	57.4	(17%-157%)
13C-2,3,7,8-TCDF		1350	2080	pg/L	65.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1310	2080	pg/L	63.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1380	2080	pg/L	66.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1340	2080	pg/L	64.5	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1440	2080	pg/L	69.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1460	2080	pg/L	70.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	2080	pg/L	61.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423004**	**Date Collected:**	**10/21/2022 16:48**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR428-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 13:41**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-7**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**960.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2080	pg/L	63.0	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1350	2080	pg/L	64.7	(26%-138%)
37Cl-2,3,7,8-TCDD		170	208	pg/L	81.5	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:22 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.33e2	5.81e1	1.91e2	31.31	1.001	2.28	YES	0.038	0.126	3.91e3	2455	1.6	1.46e3	1121	1.3	bb	bb
2	12378-PeCDD							NO		0.100		1824			836			
3	123478-HxCDD							NO		0.154		1478			1587			
4	123678-HxCDD							NO		0.143		1478			1587			
5	123789-HxCDD							NO		0.148		1478			1587			
6	1234678-HpCDD	1.07e3	1.08e3	2.15e3	40.15	1.000	0.99	NO	0.679	0.433	2.14e4	3791	5.6	1.76e4	2521	7.0	bd	MM
7	OCDD	4.15e3	4.55e3	8.70e3	44.39	1.001	0.91	NO	4.255	0.693	4.30e4	3145	13.7	4.61e4	1671	27.6	MM	bd
8	2378-TCDF	5.67e1	2.28e2	2.85e2	30.51	0.998	0.25	YES	0.032	0.133	1.64e3	1696	1.0	7.95e3	3395	2.3	db	bb
9	12378-PeCDF	1.00e2	2.42e2	3.42e2	33.34	1.000	0.41	YES	0.042	0.0972	5.05e3	3132	1.6	6.50e3	3071	2.1	bd	bb
10	23478-PeCDF							NO		0.0927		3132			3071			
11	123478-HxCDF							NO		0.0530		1158			957			
12	123678-HxCDF							NO		0.0482		1158			957			
13	234678-HxCDF							NO		0.0557		1158			957			
14	123789-HxCDF							NO		0.0859		1158			957			
15	1234678-HpCDF	3.13e2	2.89e2	6.02e2	38.90	1.000	1.08	NO	0.091	0.110	6.16e3	2176	2.8	8.01e3	1675	4.8	MM	MM
16	1234789-HpCDF	9.95e1	1.10e2	2.10e2	40.83	1.000	0.90	NO	0.040	0.173	7.98e3	2176	3.7	8.75e3	1675	5.2	bb	bb
17	OCDF	3.53e2	5.21e2	8.74e2	44.71	1.008	0.68	YES	0.270	0.376	6.29e3	1656	3.8	8.71e3	2483	3.5	MM	MM
18	13C-2378-TCDD	2.07e5	2.54e5	4.61e5	31.28	1.017	0.82	NO	68.415	0.300	2.91e6	6864	423.3	3.46e6	3256	1061.9	bd	bd
19	13C-12378-PeCDD	2.03e5	1.26e5	3.29e5	34.15	1.110	1.61	NO	68.366	0.410	3.52e6	5362	656.7	2.18e6	4511	482.6	bd	bd
20	13C-123478-HxCDD	1.45e5	1.12e5	2.57e5	36.77	0.991	1.30	NO	61.466	0.660	2.62e6	9308	281.8	1.94e6	4665	415.0	bd	bd
21	13C-123678-HxCDD	1.96e5	1.56e5	3.52e5	36.85	0.994	1.26	NO	69.326	0.544	2.81e6	9308	301.4	2.14e6	4665	457.9	dd	dd
22	13C-1234678-HpCDD	1.34e5	1.23e5	2.57e5	40.14	1.082	1.09	NO	65.153	0.881	1.55e6	11367	136.1	1.38e6	6254	220.0	bd	bd
23	13C-OCDD	1.73e5	1.96e5	3.70e5	44.37	1.196	0.88	NO	114.707	0.828	1.47e6	5856	251.6	1.67e6	7644	218.7	bd	bd
24	13C-2378-TCDF	3.04e5	3.63e5	6.67e5	30.58	0.994	0.84	NO	64.987	0.169	3.24e6	4483	722.0	3.80e6	4193	906.5	bb	bb
25	13C-12378-PeCDF	4.01e5	2.40e5	6.42e5	33.35	1.084	1.67	NO	63.105	0.565	7.83e6	17218	455.0	4.64e6	11576	400.4	bb	bd
26	13C-23478-PeCDF	3.94e5	2.42e5	6.36e5	33.97	1.104	1.63	NO	66.414	0.600	7.44e6	17218	432.0	4.64e6	11576	401.1	bb	bd
27	13C-123478-HxCDF	1.42e5	2.69e5	4.11e5	36.05	0.972	0.53	NO	64.478	0.661	2.44e6	7616	319.8	4.60e6	13715	335.2	bd	bd
28	13C-123678-HxCDF	1.92e5	3.55e5	5.47e5	36.15	0.975	0.54	NO	69.333	0.534	2.80e6	7616	367.5	5.08e6	13715	370.3	dd	db
29	13C-234678-HxCDF	1.67e5	2.97e5	4.64e5	36.63	0.988	0.56	NO	70.253	0.638	2.41e6	7616	315.8	4.26e6	13715	310.6	dd	bd
30	13C-123789-HxCDF	1.29e5	2.30e5	3.58e5	37.42	1.009	0.56	NO	60.959	0.717	1.70e6	7616	222.8	2.97e6	13715	216.6	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:22 PM Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.46e5	3.32e5	4.78e5	38.89	1.049	0.44	NO	63.032	0.772	1.93e6	14820	130.2	4.23e6	14821	285.1	bd	bb
32	13C-1234789-HpCDF	1.16e5	2.66e5	3.83e5	40.81	1.101	0.44	NO	64.692	0.990	1.24e6	14820	83.8	2.86e6	14821	193.0	bb	bb
33	13C-1234-TCDD	2.66e5	3.25e5	5.92e5	30.77	0.000	0.82	NO	100.000	0.341	3.34e6	6864	486.2	4.08e6	3256	1252.9	bb	bb
34	13C-123789-HxCDD	2.73e5	2.21e5	4.94e5	37.08	0.000	1.24	NO	100.000	0.559	3.46e6	9308	371.2	2.80e6	4665	600.5	dd	dd
35	37Cl-2378-TCDD	5.42e4		5.42e4	31.30	1.017			8.155	0.105	7.52e5	3503	214.6				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-7, ID:21423004-1, Description: 52698

M	M2
	6 1234678-HpCDD 40.15 - AB
7 OCDD 44.39 - AB	
15 1234678-HpCDF 38.90 - AB	15 1234678-HpCDF 38.90 - AB
17 OCDF 44.71 - AB	17 OCDF 44.71 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:22 PM Eastern Daylight Time

AMM 06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.04e2	5.53e1	1.59e2	27.51	1.88	YES	0.031	0.126	2.17e3	2455	0.9	2.80e3	1121	2.5	bb	bb
2	Total-tetradioxins	1.01e2	8.31e1	1.84e2	26.21	1.21	YES	0.036	0.126	2.97e3	2455	1.2	2.51e3	1121	2.2	db	bb
3	Total-tetradioxins	1.03e2	5.15e1	1.54e2	31.57	2.00	YES	0.030	0.126	3.25e3	2455	1.3	1.76e3	1121	1.6	bb	bb
4	2378-TCDD	1.33e2	5.81e1	1.91e2	31.31	2.28	YES	0.038	0.126	3.91e3	2455	1.6	1.46e3	1121	1.3	bb	bb
5	Total-tetradioxins	6.73e1	7.15e1	1.39e2	30.86	0.94	YES	0.027	0.126	3.65e3	2455	1.5	3.90e3	1121	3.5	dd	bd

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	1.00e2	6.69e1	1.67e2	36.63	1.50	YES	0.051	0.148	2.40e3	1478	1.6	5.72e3	1587	3.6	bb	bb
2	Total-hexadioxins	1.74e2	7.01e1	2.44e2	36.21	2.48	YES	0.075	0.148	3.97e3	1478	2.7	3.13e3	1587	2.0	db	dd
3	Total-hexadioxins	1.32e2	9.28e1	2.25e2	36.15	1.42	NO	0.069	0.148	4.53e3	1478	3.1	1.68e3	1587	1.1	bd	bd
4	Total-hexadioxins	3.91e2	3.10e2	7.01e2	35.54	1.26	NO	0.216	0.148	1.36e4	1478	9.2	4.93e3	1587	3.1	MM	MM

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	1.60e3	1.39e3	2.98e3	39.24	1.15	NO	0.944	0.433	2.89e4	3791	7.6	1.81e4	2521	7.2	MM	MM
2	Total-heptadioxins	1.54e2	1.26e2	2.80e2	38.90	1.22	YES	0.089	0.433	6.95e3	3791	1.8	4.47e3	2521	1.8	db	bb
3	Total-heptadioxins	1.11e2	6.39e1	1.75e2	40.45	1.73	YES	0.055	0.433	2.61e3	3791	0.7	3.80e3	2521	1.5	bb	bb
4	1234678-HpCDD	1.07e3	1.08e3	2.15e3	40.15	0.99	NO	0.679	0.433	2.14e4	3791	5.6	1.76e4	2521	7.0	bd	MM

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:22 PM Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	1.17e2	8.63e1	2.03e2	27.85	1.36	YES	0.023	0.133	5.85e3	1696	3.5	4.42e3	3395	1.3	bb	bd
2	Total-tetrafurans	7.39e1	1.18e2	1.92e2	27.50	0.62	YES	0.021	0.133	4.18e3	1696	2.5	3.87e3	3395	1.1	bb	bd
3	2378-TCDF	5.67e1	2.28e2	2.85e2	30.51	0.25	YES	0.032	0.133	1.64e3	1696	1.0	7.95e3	3395	2.3	db	bb
4	Total-tetrafurans	6.44e1	2.05e2	2.70e2	30.45	0.31	YES	0.030	0.133	2.70e3	1696	1.6	7.93e3	3395	2.3	bd	bb
5	Total-tetrafurans	5.30e1	2.01e2	2.54e2	29.97	0.26	YES	0.028	0.133	3.78e3	1696	2.2	1.26e4	3395	3.7	bd	bb
6	Total-tetrafurans	6.55e1	1.33e2	1.98e2	32.26	0.49	YES	0.022	0.133	4.46e3	1696	2.6	7.29e3	3395	2.1	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	1.64e2	6.58e1	2.30e2	31.95	2.50	YES	0.027	0.0388	6.13e3	894	6.9	1.42e3	1646	0.9	bb	bb
2	Total-pentafurans (F1)	1.03e2	1.17e2	2.20e2	31.37	0.88	YES	0.026	0.0388	5.61e3	894	6.3	2.17e3	1646	1.3	bb	db

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	2.92e2	8.18e1	3.74e2	32.79	3.58	YES	0.044	0.0948	1.63e4	3132	5.2	7.98e3	3071	2.6	db	bb
2	Total-pentafurans	5.67e1	1.40e2	1.97e2	34.67	0.41	YES	0.023	0.0948	2.72e3	3132	0.9	4.24e3	3071	1.4	bb	bd
3	Total-pentafurans	7.48e1	6.37e1	1.39e2	33.51	1.17	YES	0.016	0.0948	3.20e3	3132	1.0	3.55e3	3071	1.2	bb	bb
4	12378-PeCDF	1.00e2	2.42e2	3.42e2	33.34	0.41	YES	0.042	0.0972	5.05e3	3132	1.6	6.50e3	3071	2.1	bd	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	8.08e1	5.10e1	1.32e2	35.98	1.59	YES	0.021	0.0586	5.27e3	1158	4.5	2.98e3	957	3.1	bb	bd
2	Total-hexafurans	1.33e2	1.22e2	2.55e2	35.22	1.09	NO	0.041	0.0586	3.51e3	1158	3.0	3.36e3	957	3.5	bb	bb
3	Total-hexafurans	1.37e2	6.65e1	2.04e2	35.09	2.07	YES	0.033	0.0586	4.52e3	1158	3.9	3.36e3	957	3.5	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:22 PM Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234789-HpCDF	9.95e1	1.10e2	2.10e2	40.83	0.90	NO	0.040	0.173	7.98e3	2176	3.7	8.75e3	1675	5.2	bb	bb
2	Total-heptafurans	4.21e2	5.02e2	9.23e2	39.41	0.84	YES	0.156	0.138	8.21e3	2176	3.8	1.31e4	1675	7.8	MM	MM
3	1234678-HpCDF	3.13e2	2.89e2	6.02e2	38.90	1.08	NO	0.091	0.110	6.16e3	2176	2.8	8.01e3	1675	4.8	MM	MM

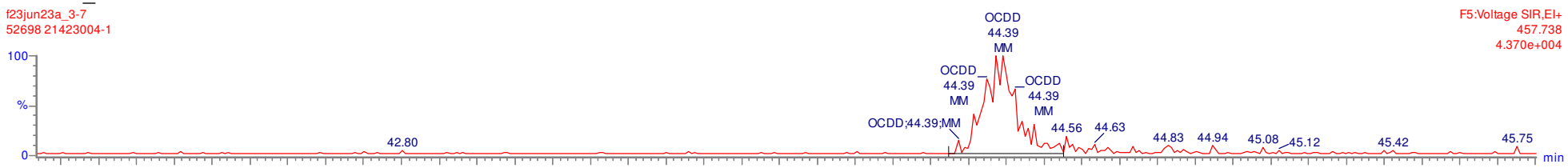
Reasons for Analyst Intervention

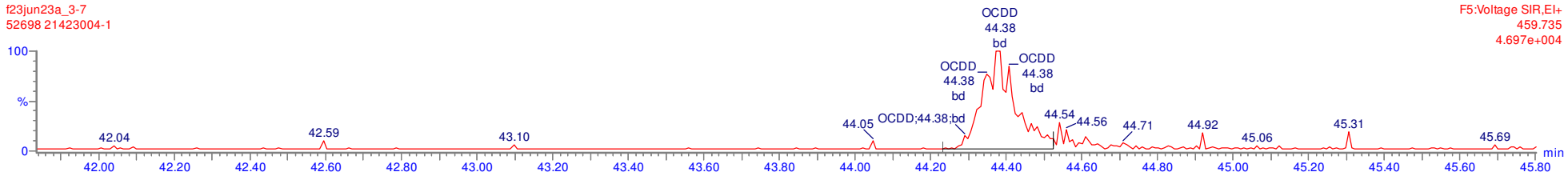
Name:f23jun23a_3-7, ID:21423004-1, Description: 52698

M	M2
4 Total-hexadioxins 35.54 - AB	4 Total-hexadioxins 35.54 - AB
1 Total-heptadioxins 39.24 - AB	1 Total-heptadioxins 39.24 - AB
	4 1234678-HpCDD 40.15 - AB
2 Total-heptafurans 39.41 - AB	2 Total-heptafurans 39.41 - AB
3 1234678-HpCDF 38.90 - AB	3 1234678-HpCDF 38.90 - AB

Reason Codes assigned by MW1 on 28-JUN-23

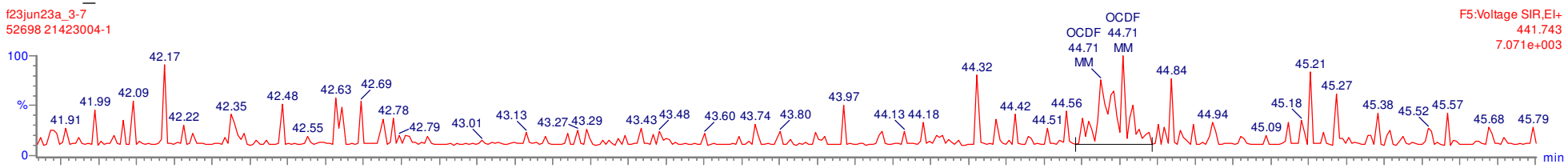
MANUAL INTEGRATION
METHOD 1613
HRP722_2

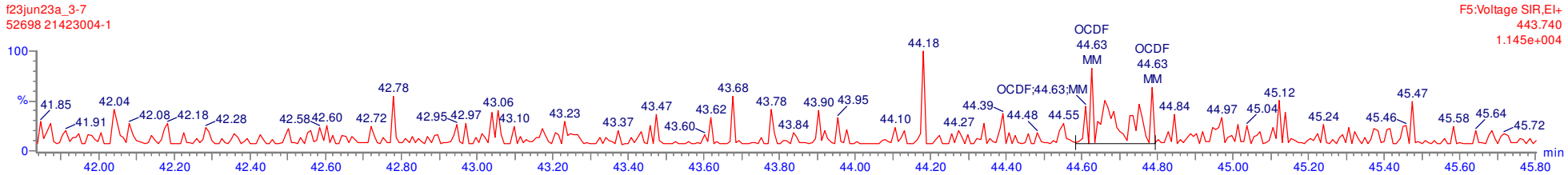




06/28/2023 06/29/2023

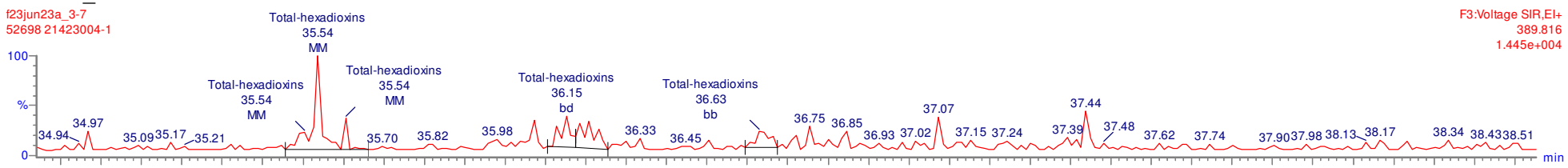
MANUAL INTEGRATION
METHOD 1613
HRP722_2

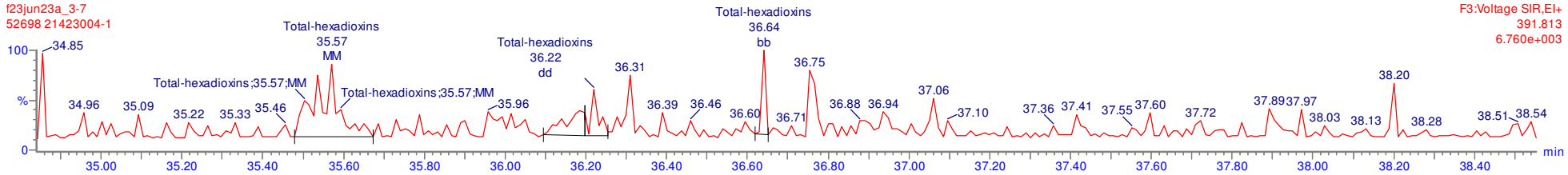




MW 06/28/2023 AMA 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2

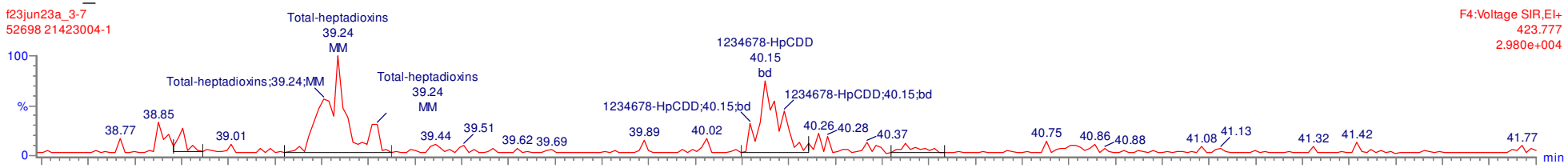


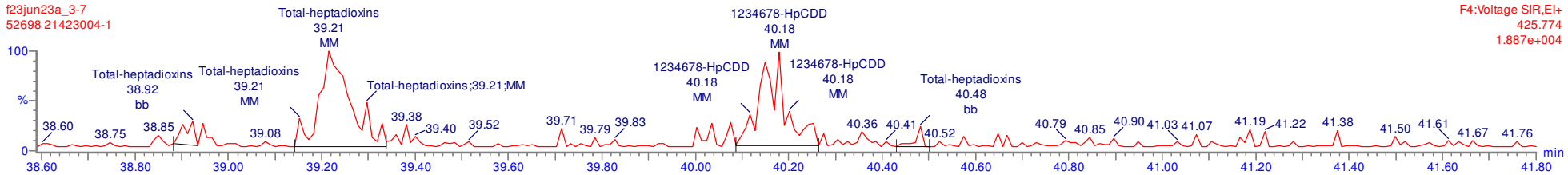


MW 06/28/2023

AMA 06/29/2023

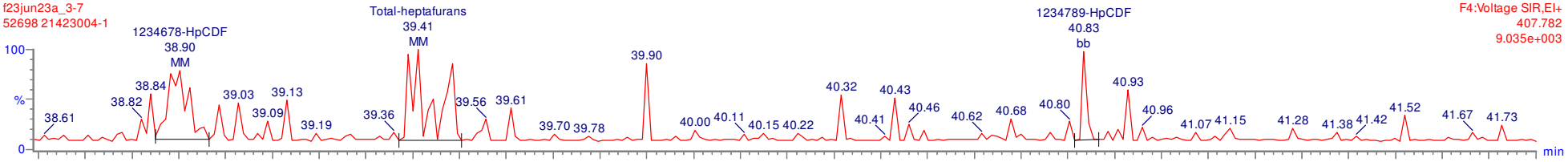
MANUAL INTEGRATION
METHOD 1613
HRP722_2

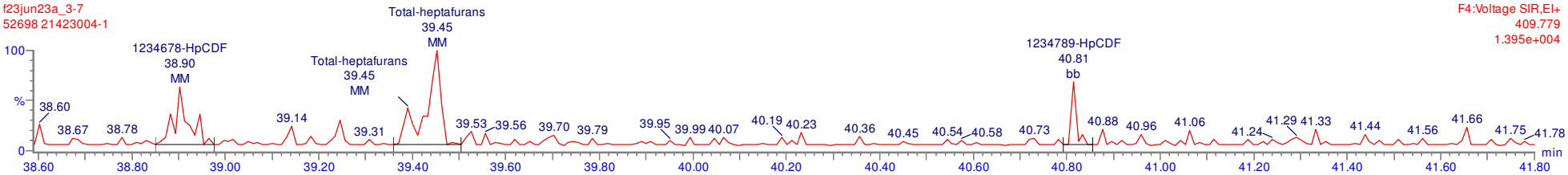




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW
06/28/2023

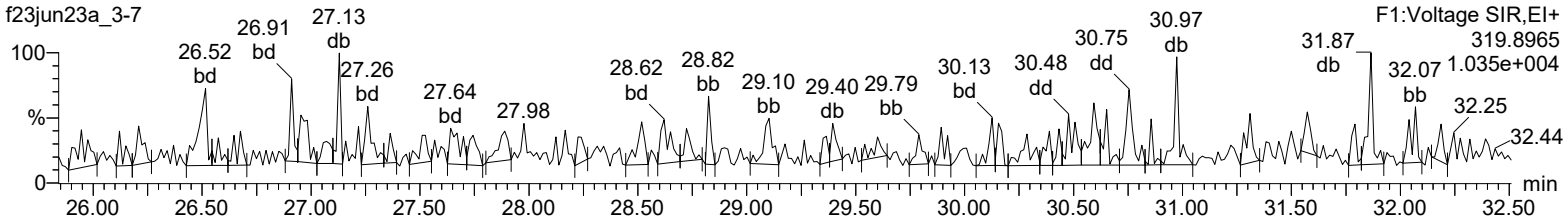
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

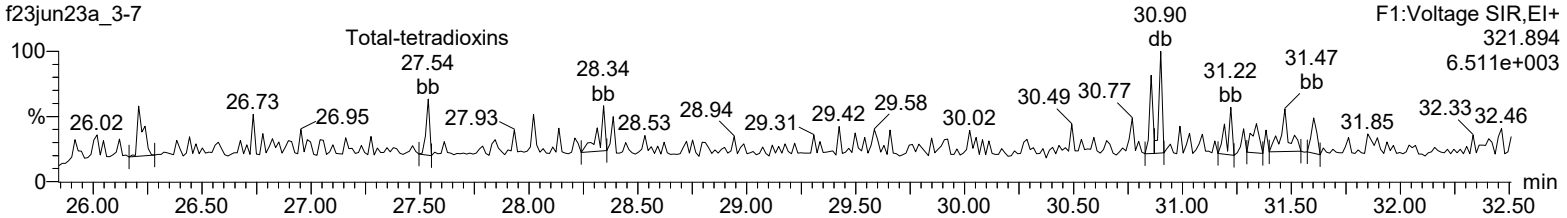
AMA
06/29/2023

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

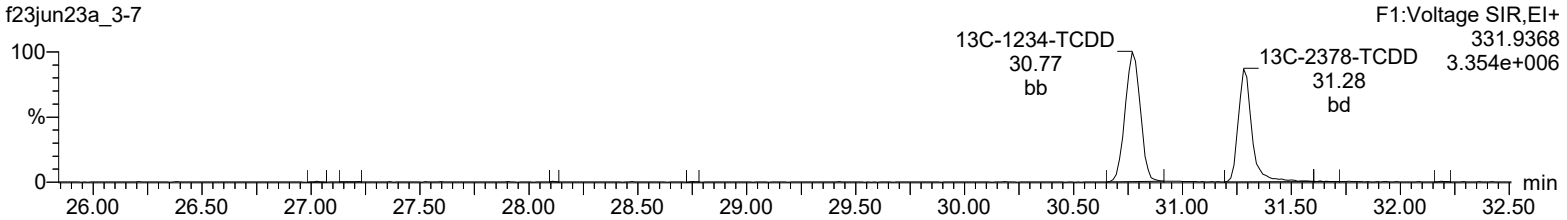
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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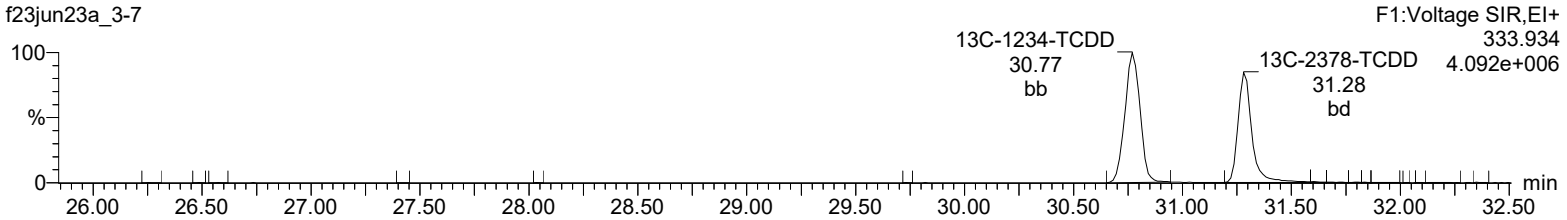

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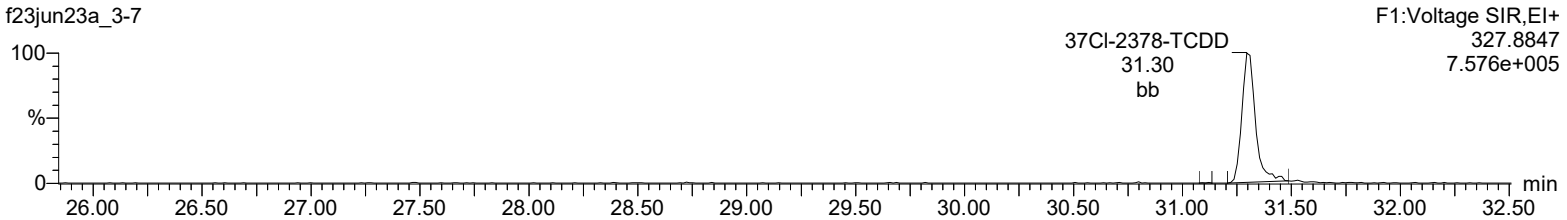
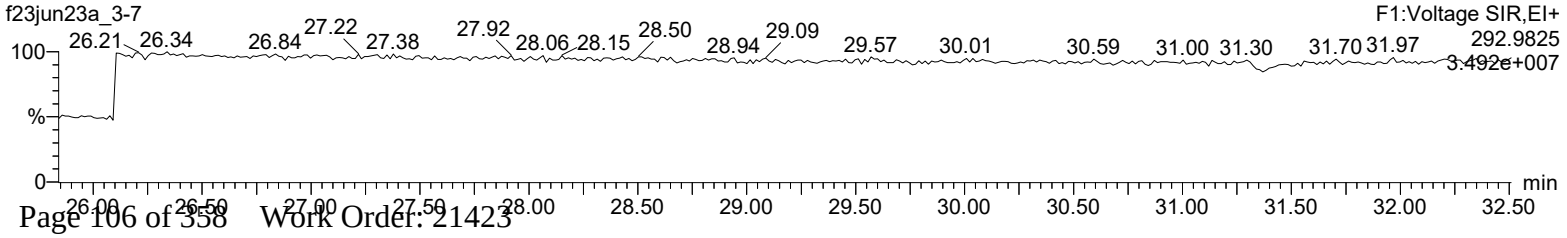


Lock Mass F1



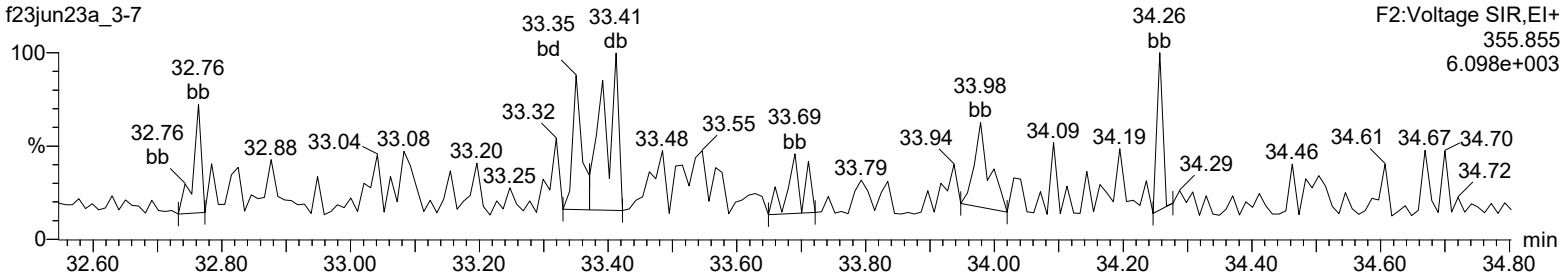
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

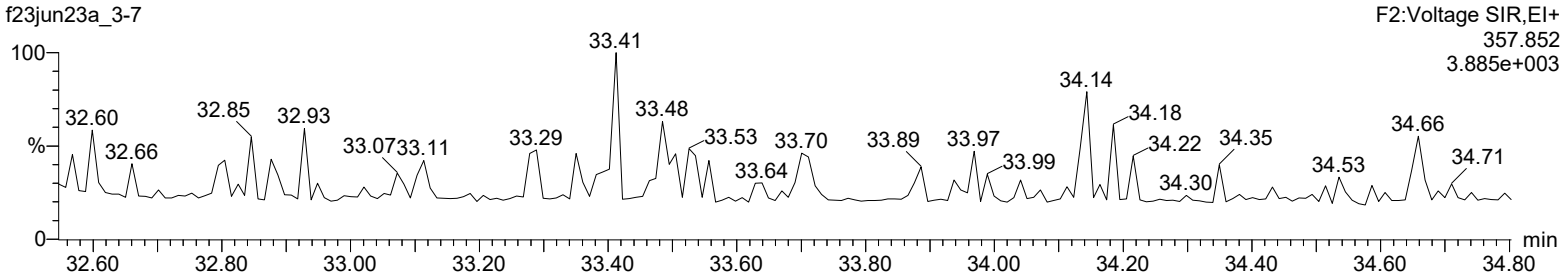
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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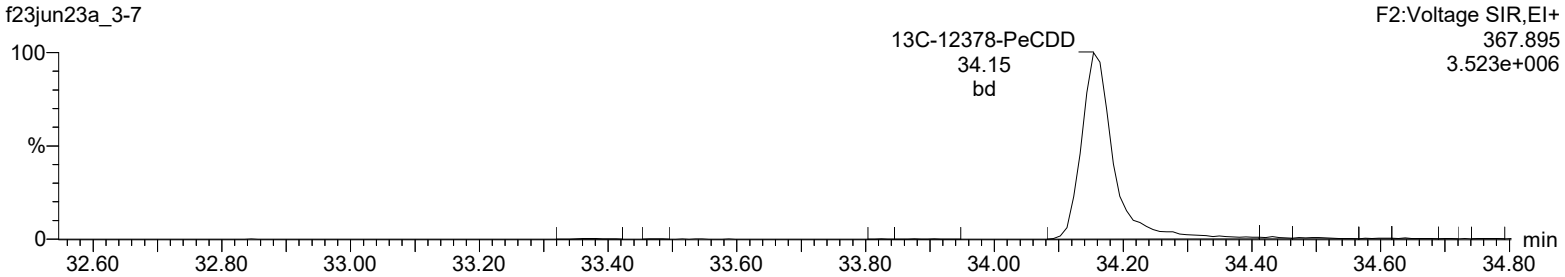

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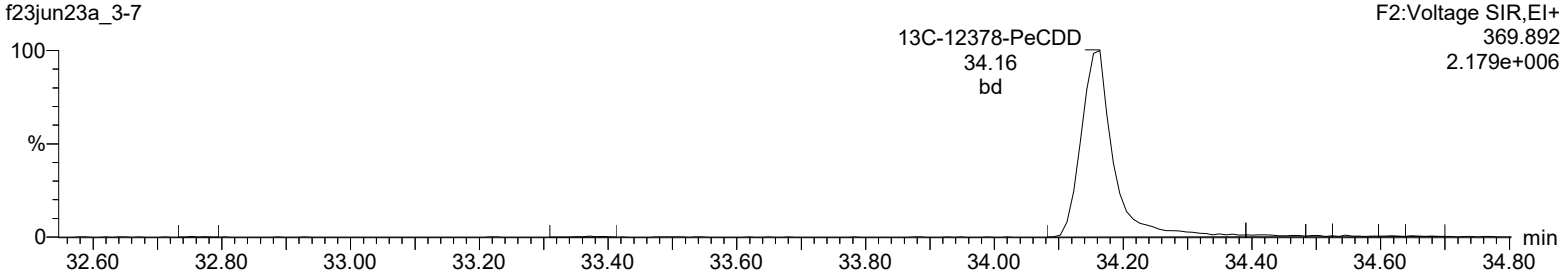
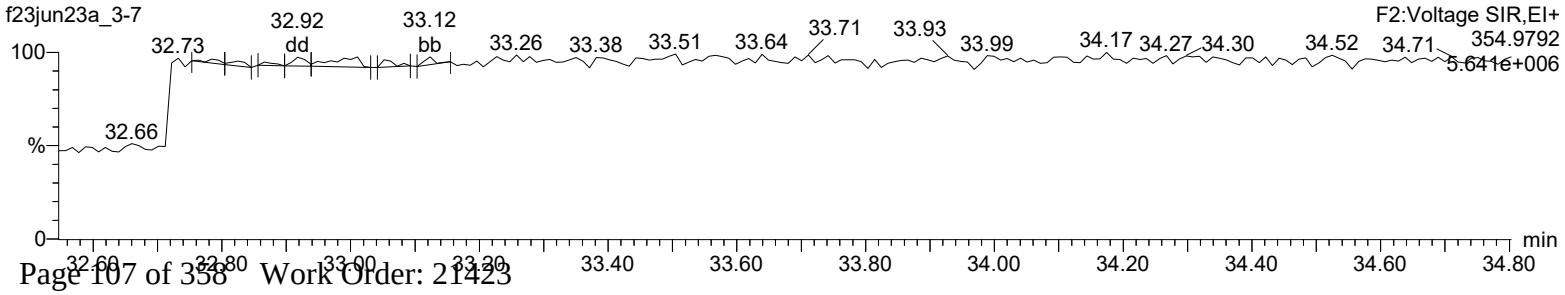


Lock Mass F2



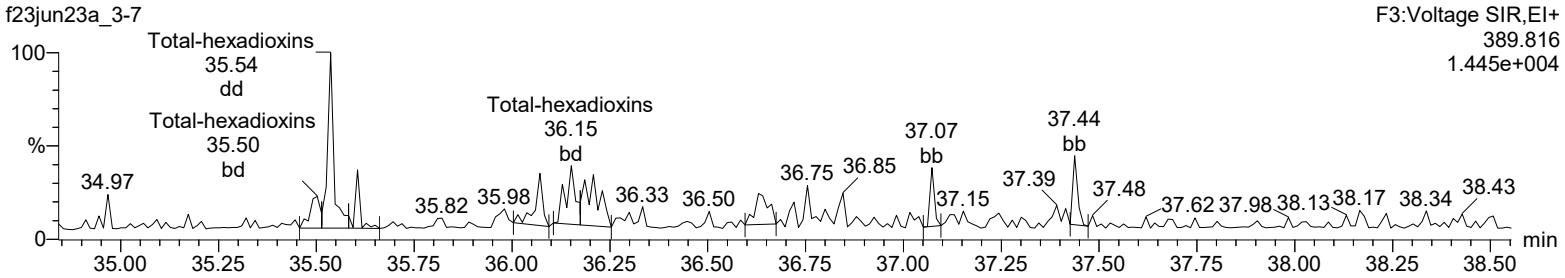
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

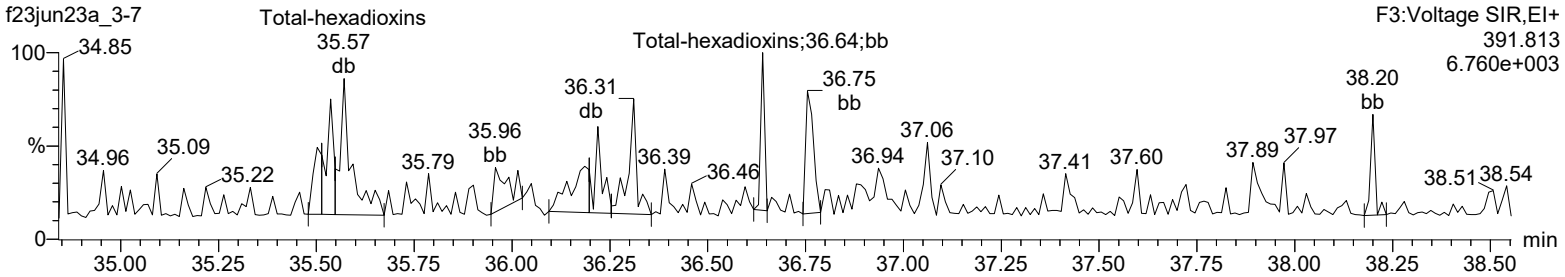
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

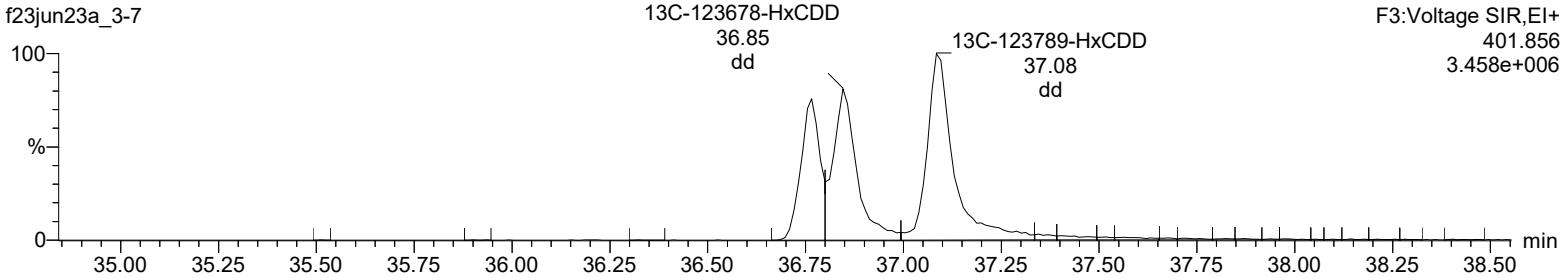
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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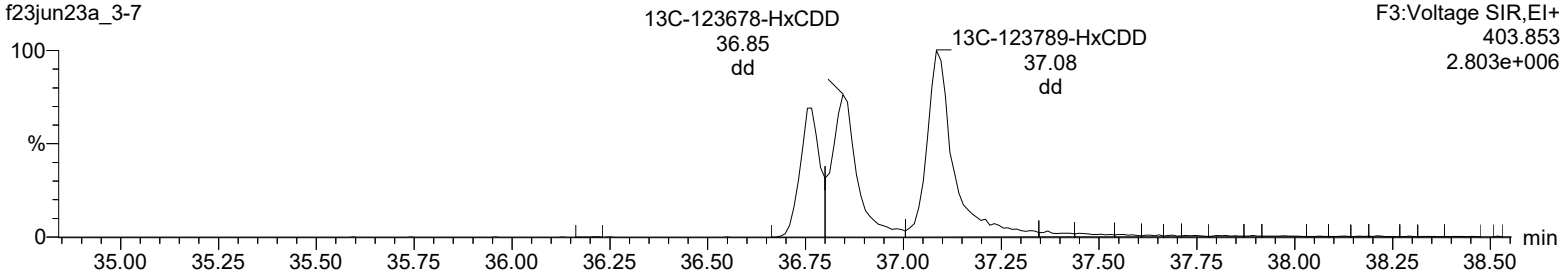
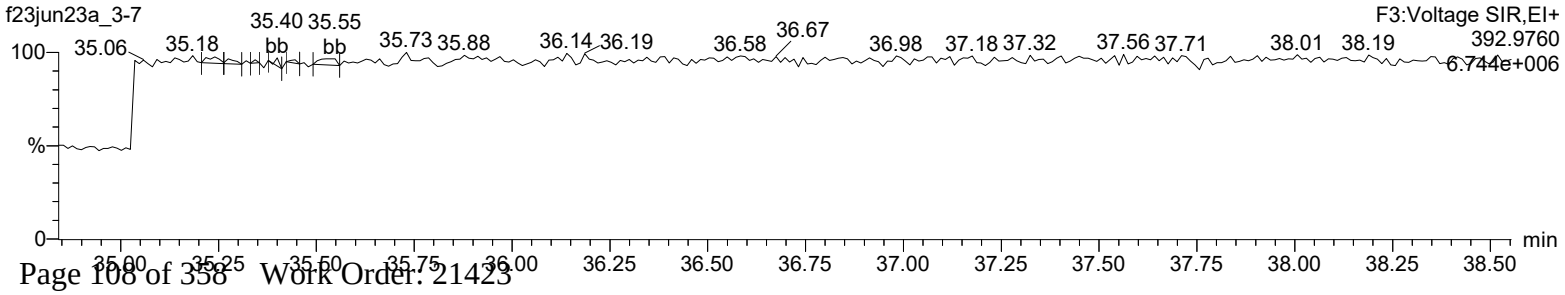


Lock Mass F3



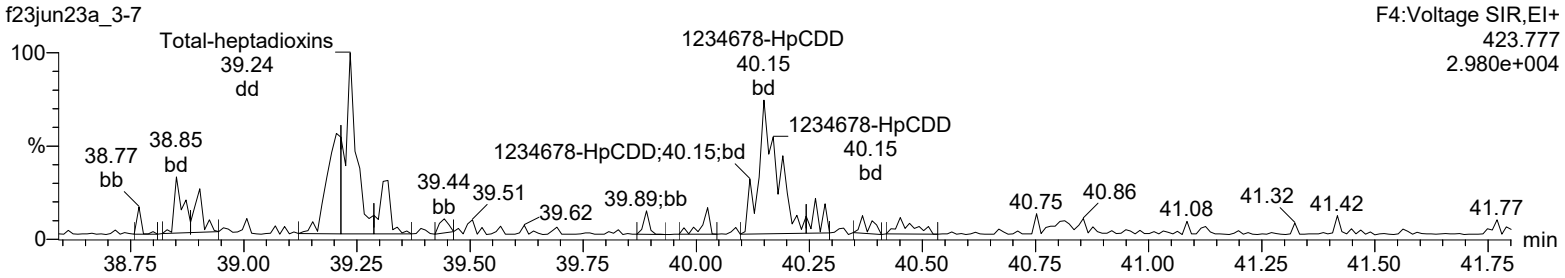
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

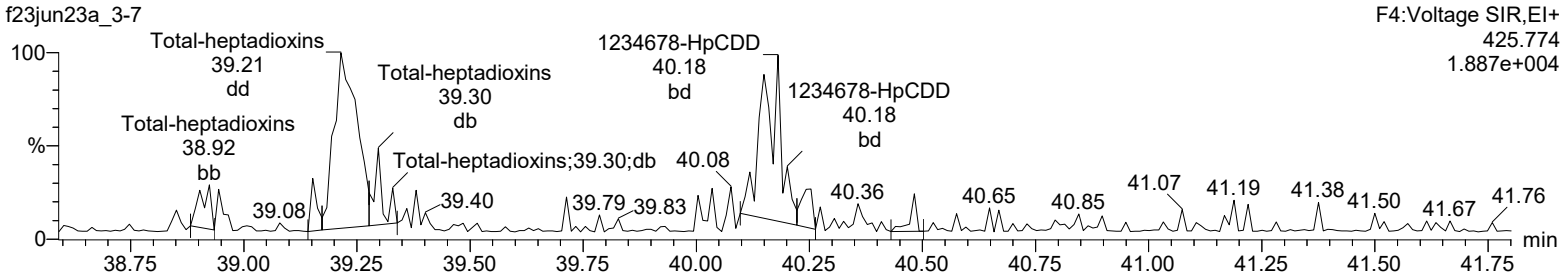
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

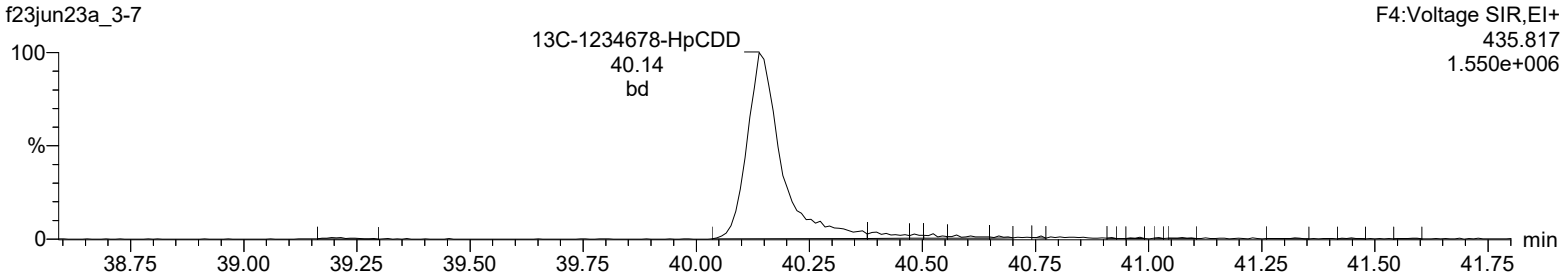
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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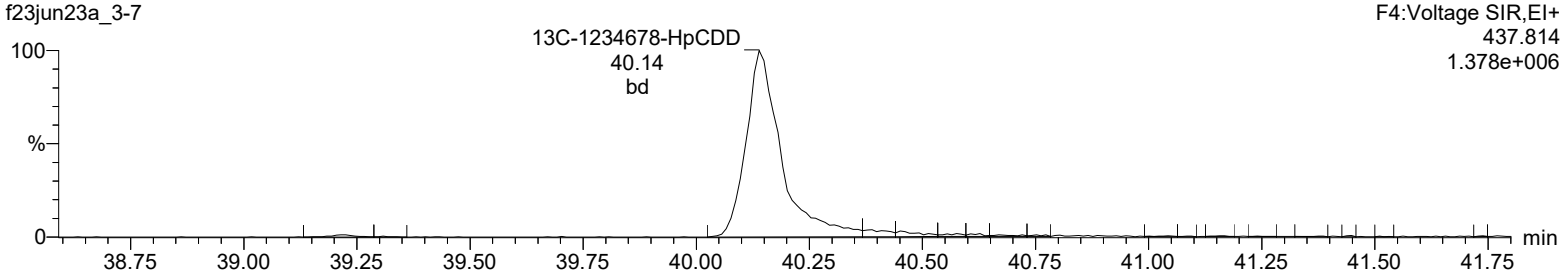
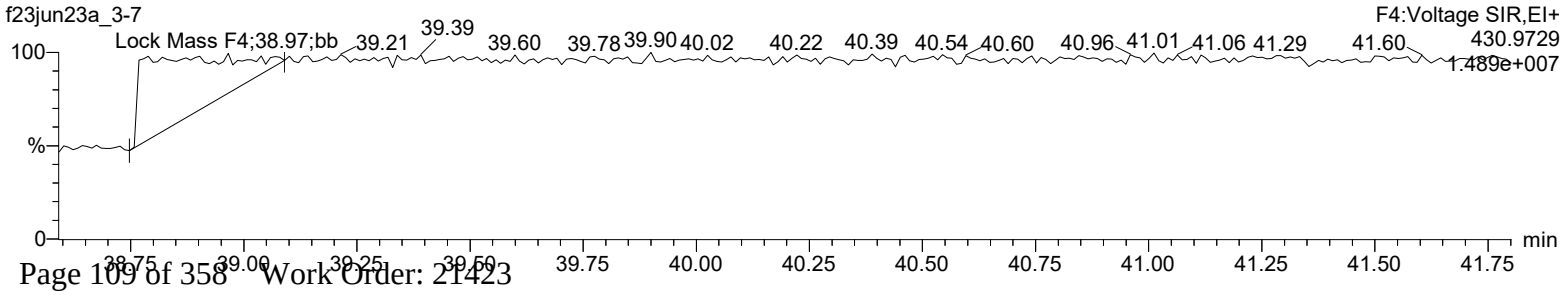


Lock Mass F4



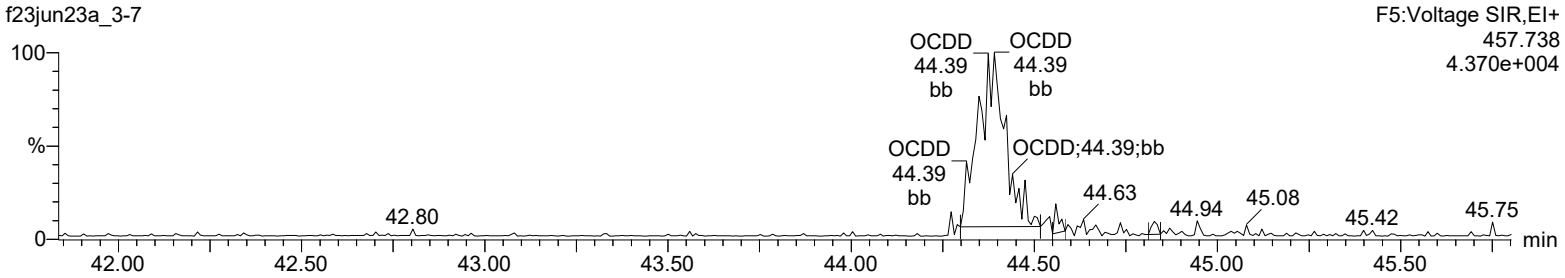
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

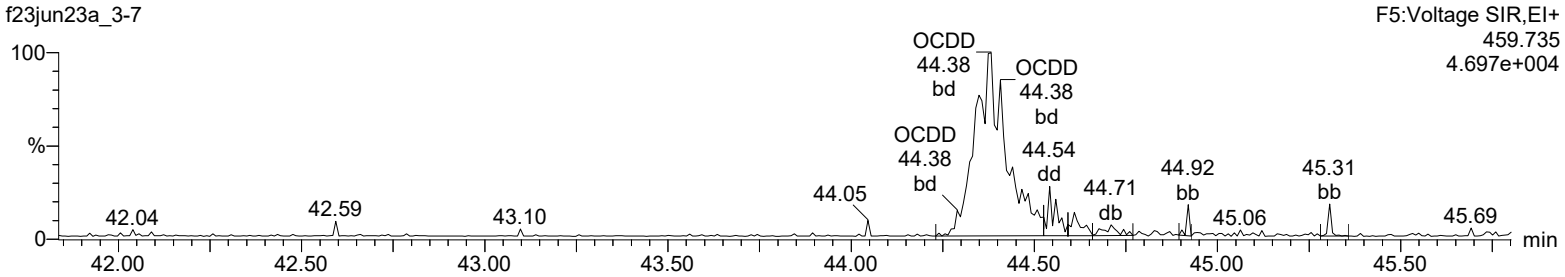
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

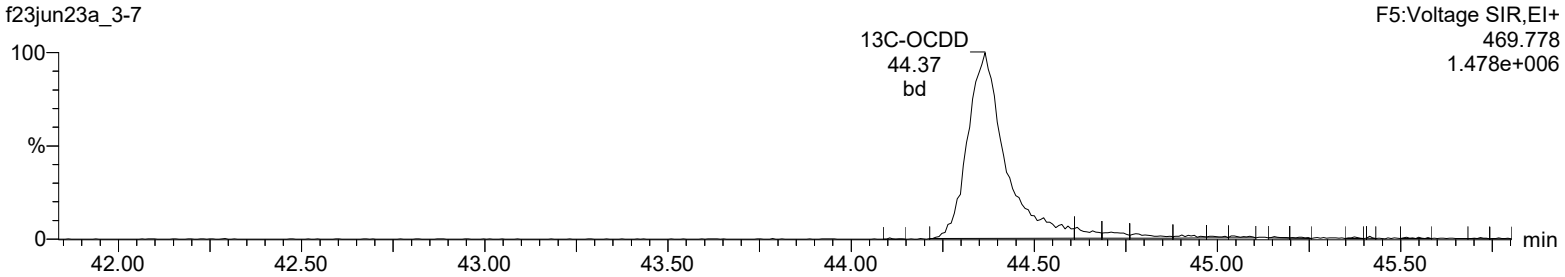
OCDD



OCDD



13C-OCDD



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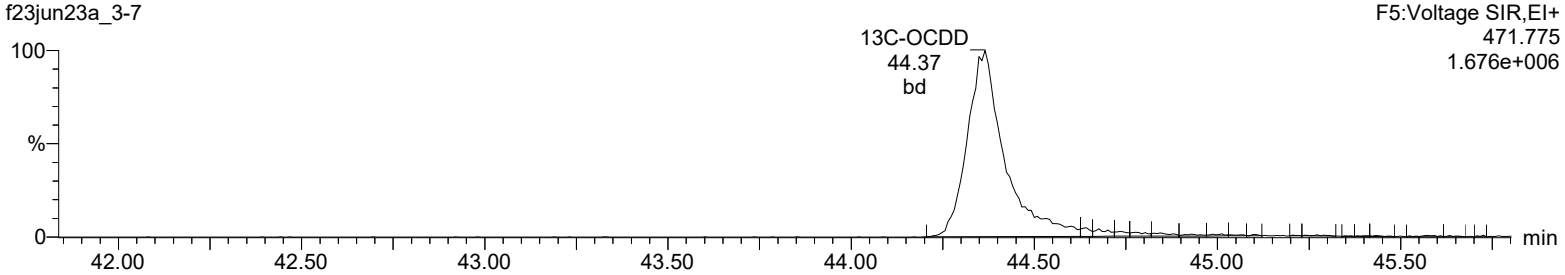
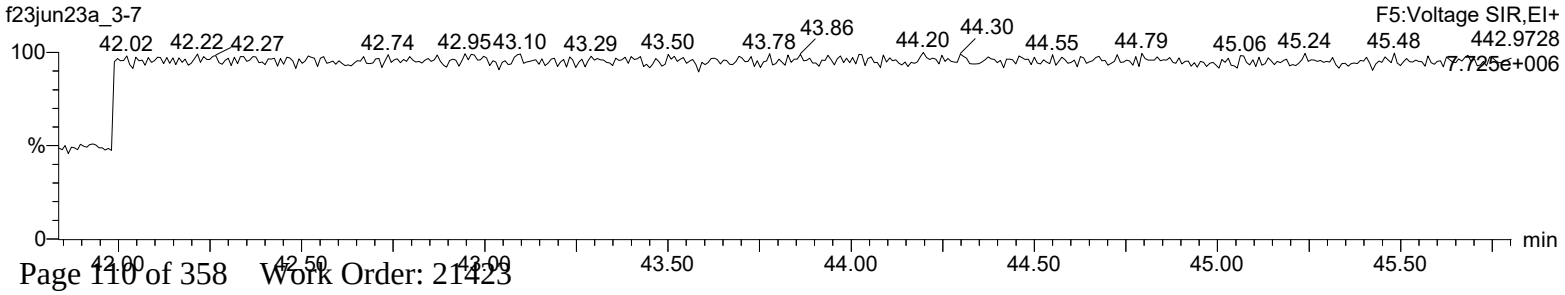


Lock Mass F5



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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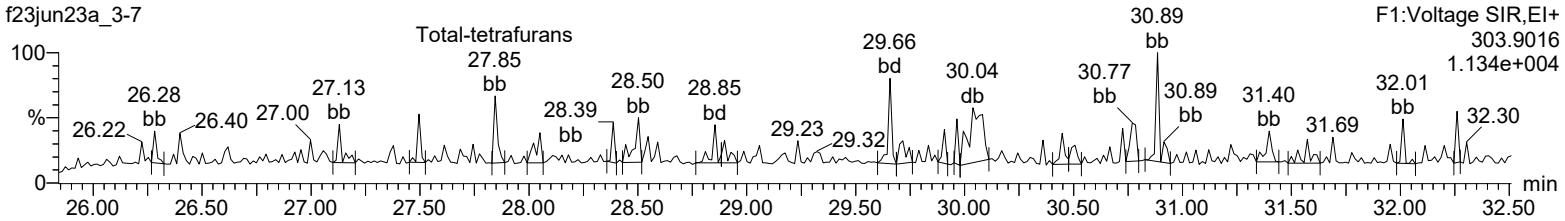
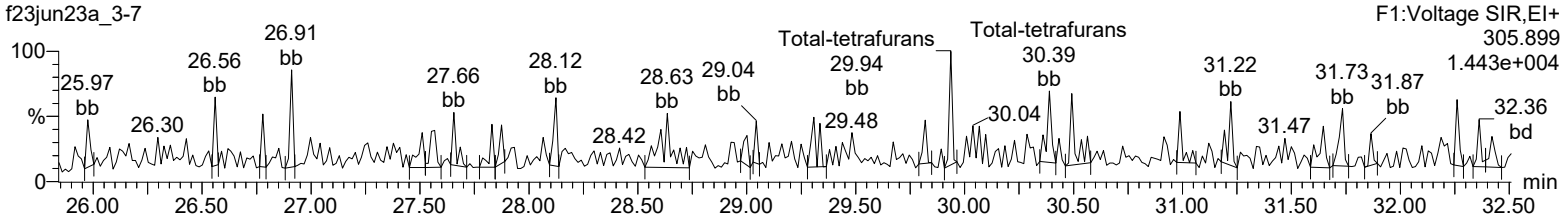
Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

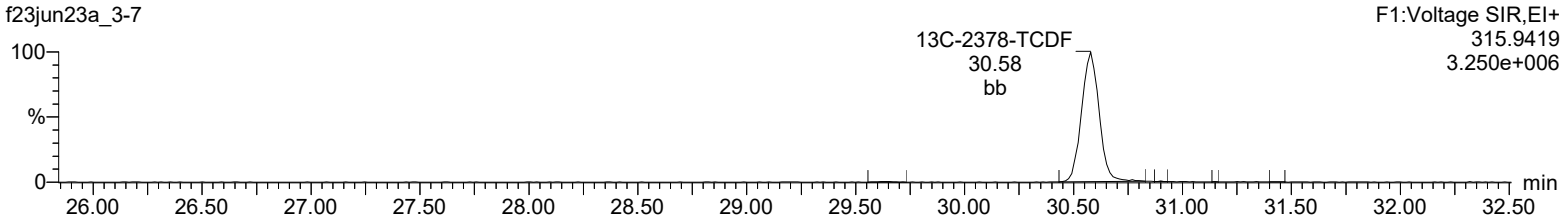
Total-tetrafurans



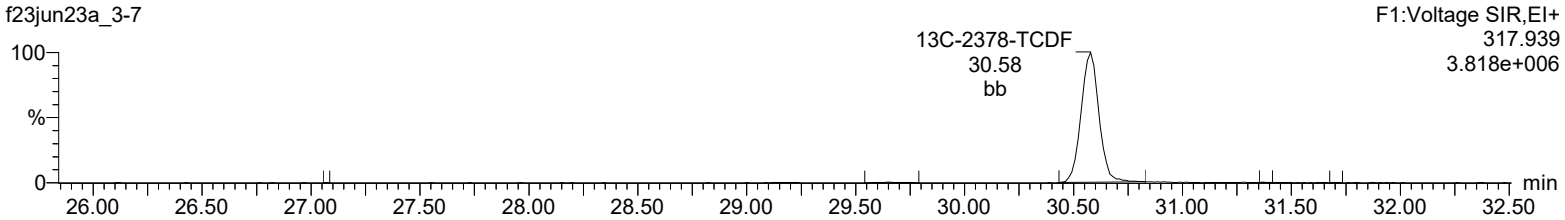
Total-tetrafurans



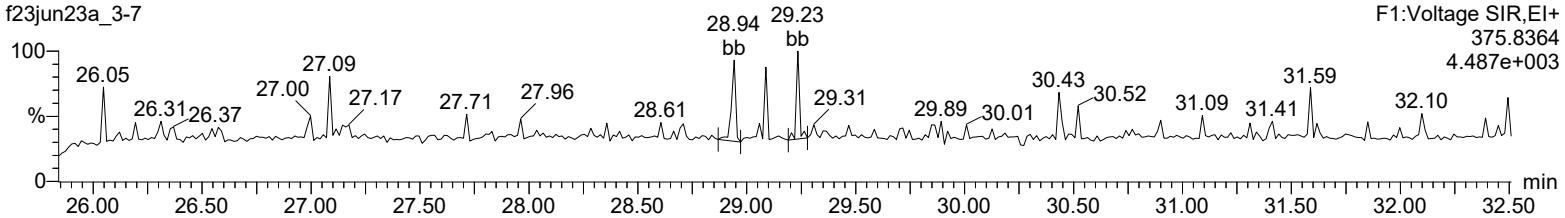
13C-2378-TCDF



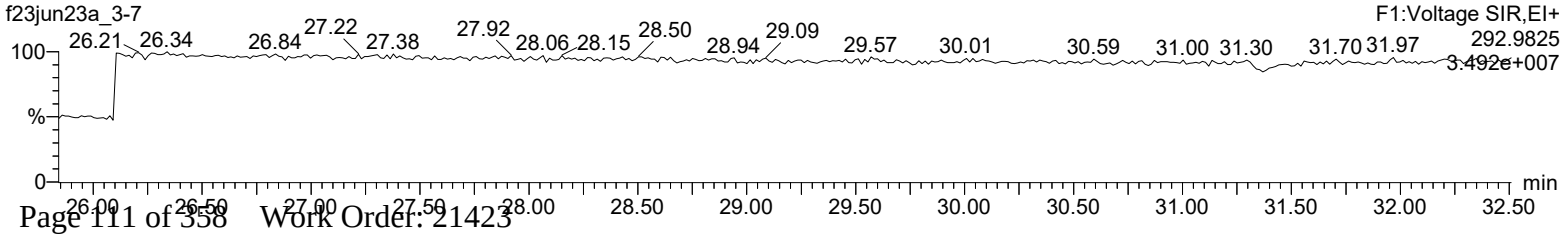
13C-2378-TCDF



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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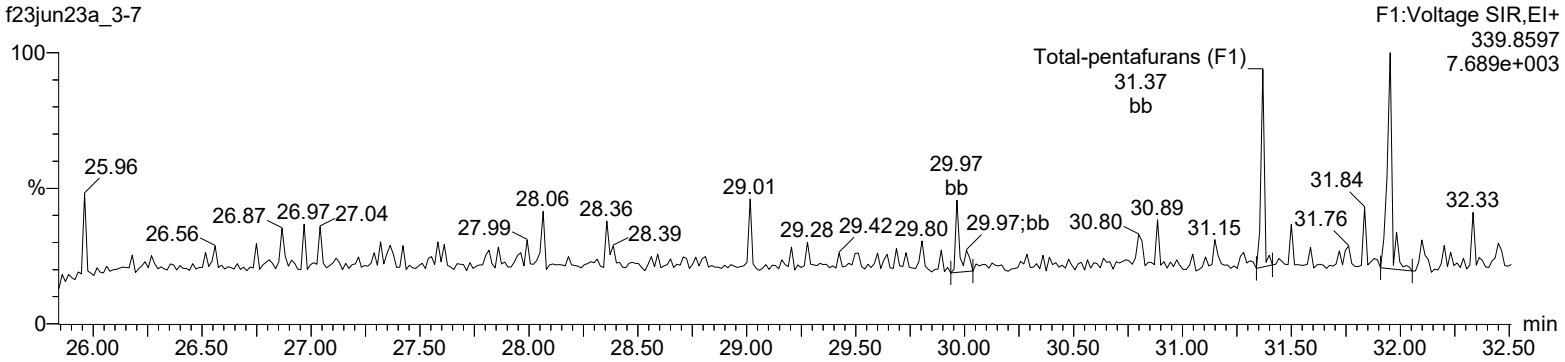
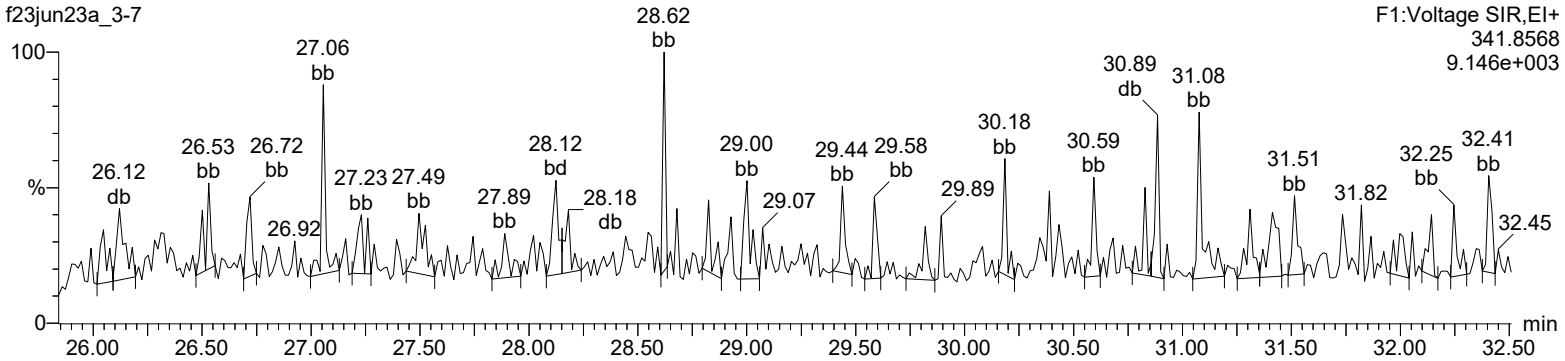
Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

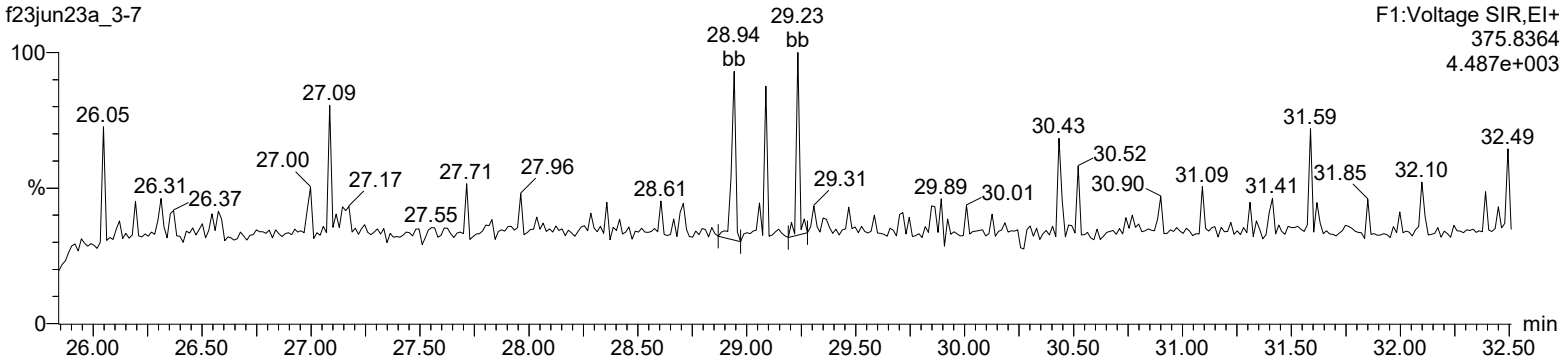
Total-pentafurans (F1)



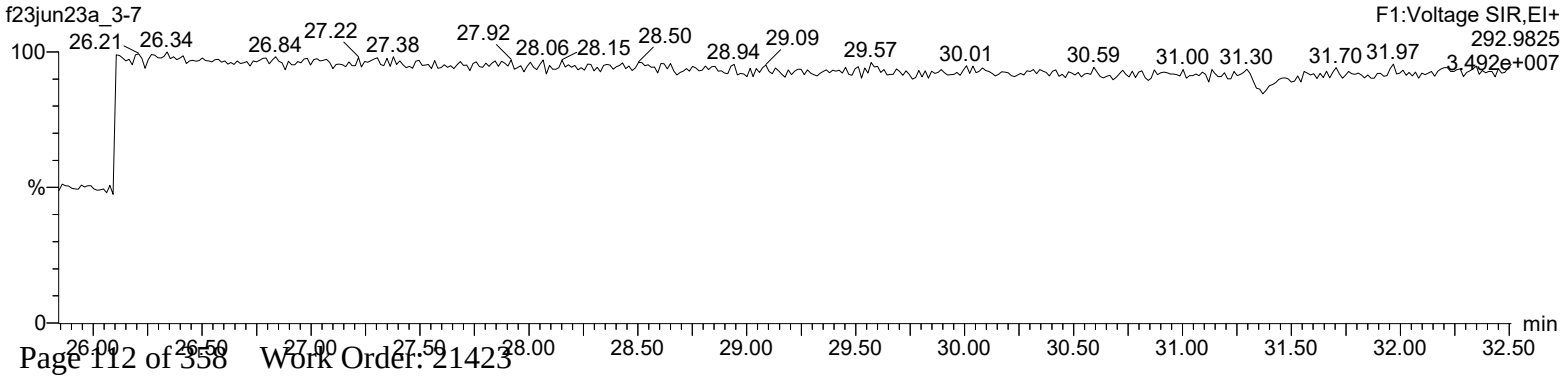
Total-pentafurans (F1)



HxDPE



Lock Mass F1



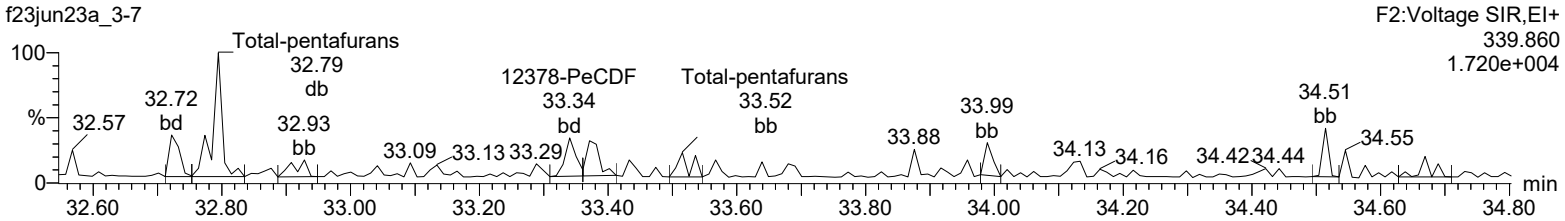
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

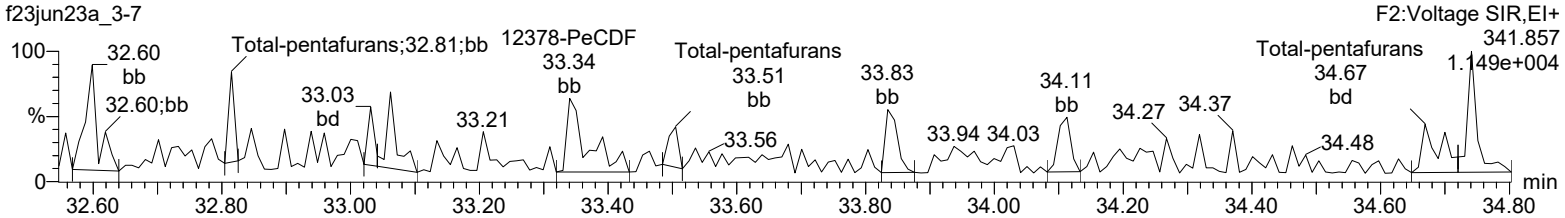
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

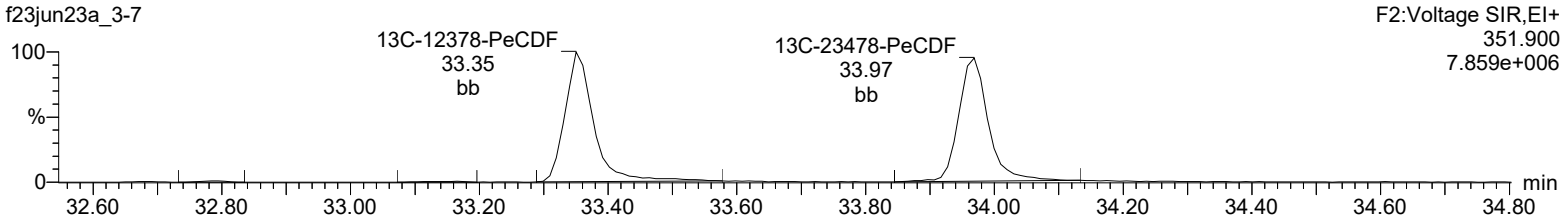
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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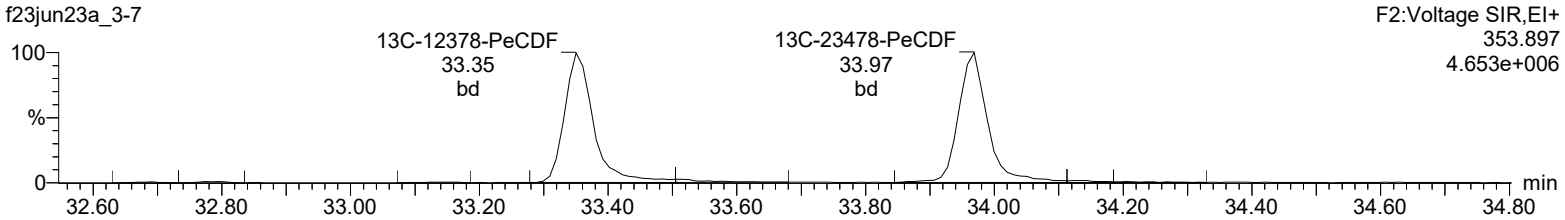
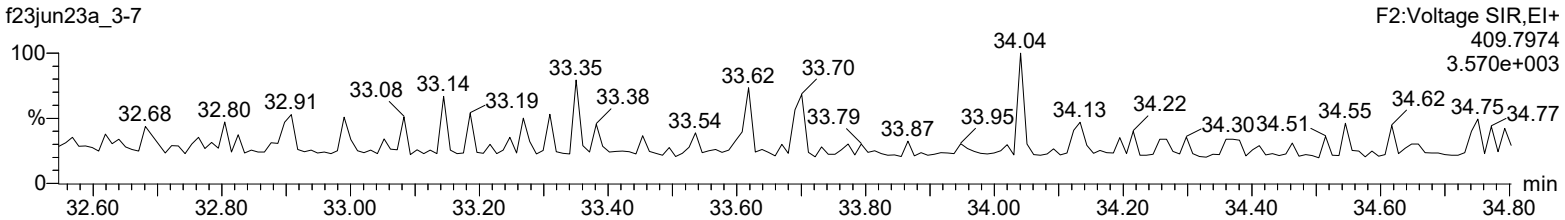
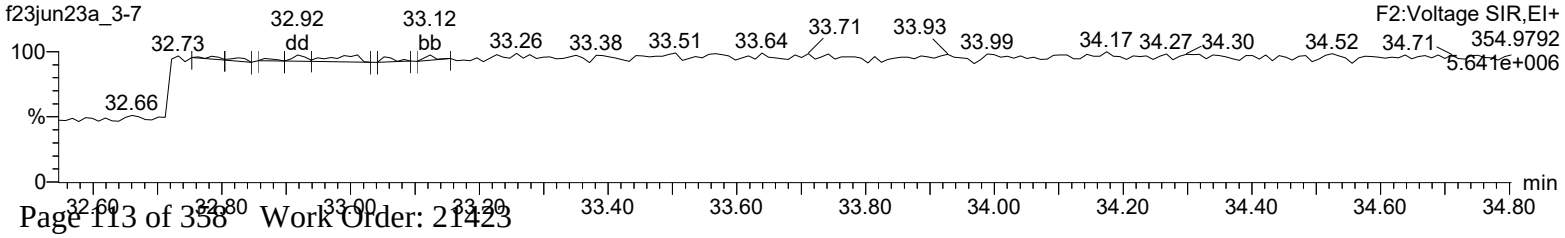


HpDPE



Lock Mass F2



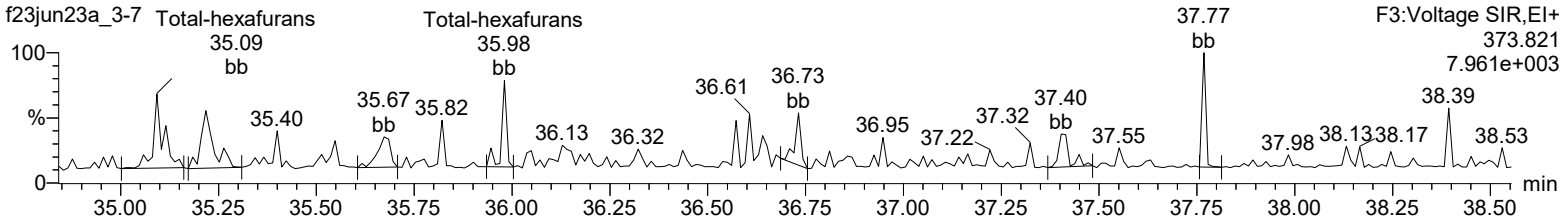
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

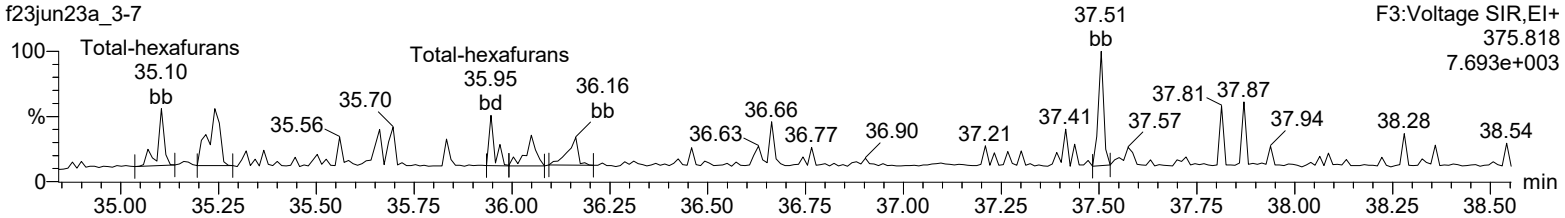
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

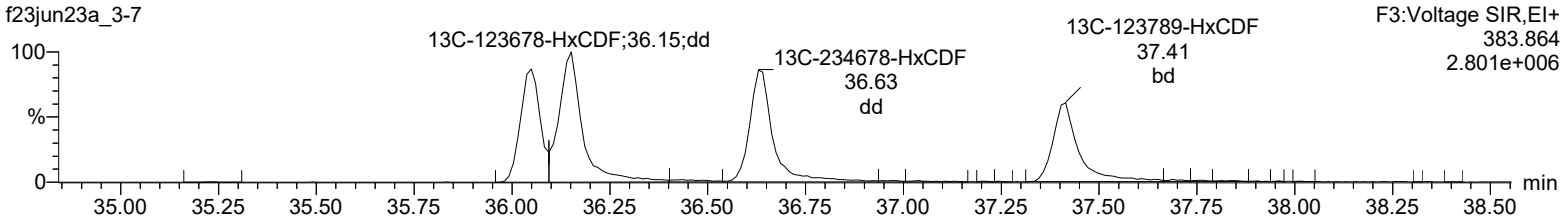
Total-hexafurans



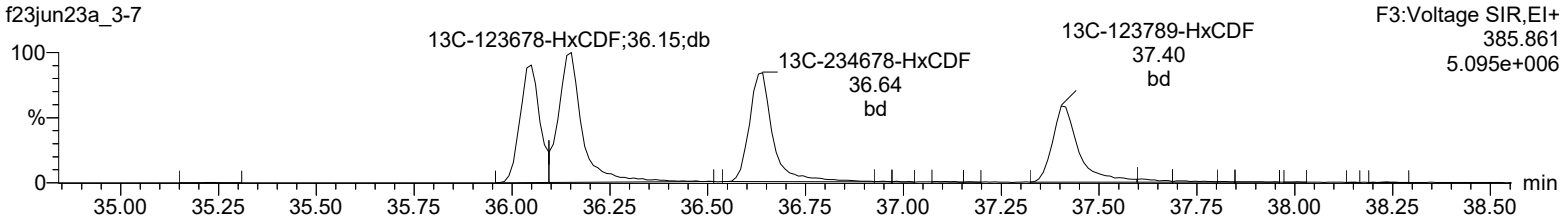
Total-hexafurans



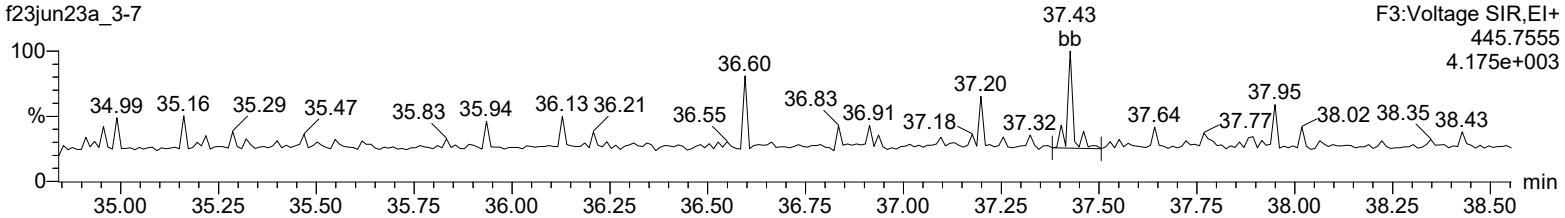
13C-123478-HxCDF



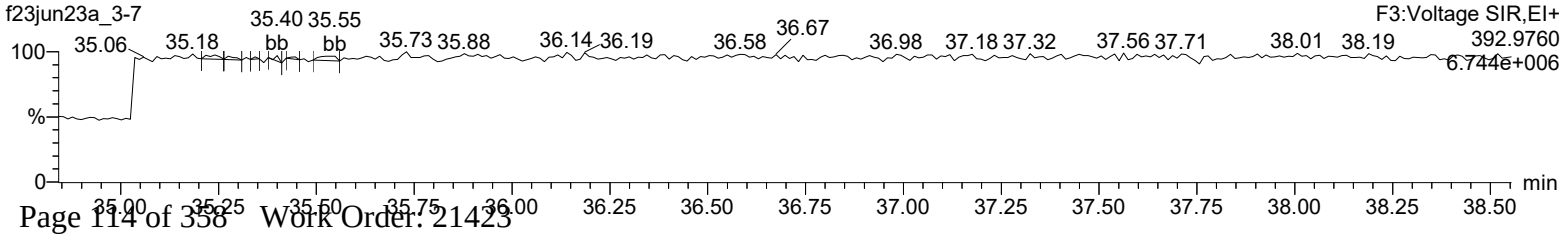
13C-123478-HxCDF



OcDPE



Lock Mass F3



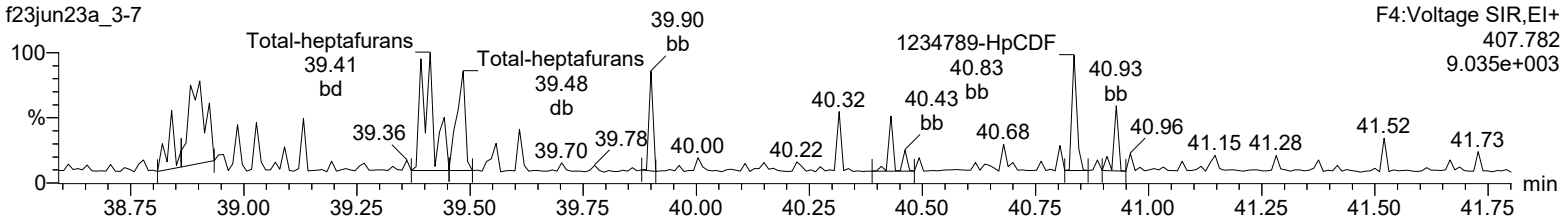
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

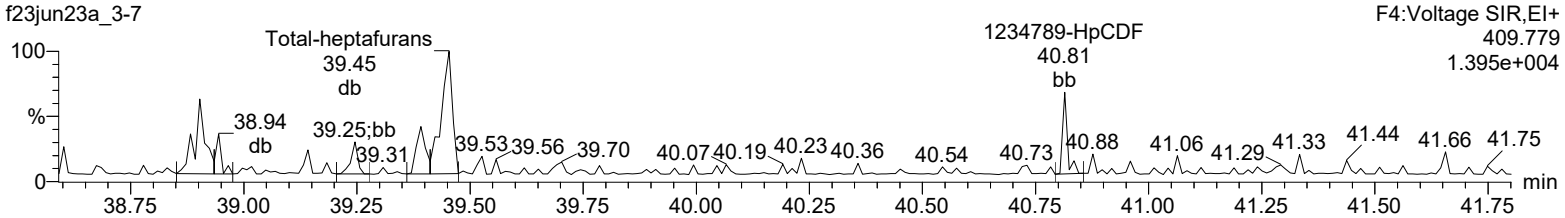
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

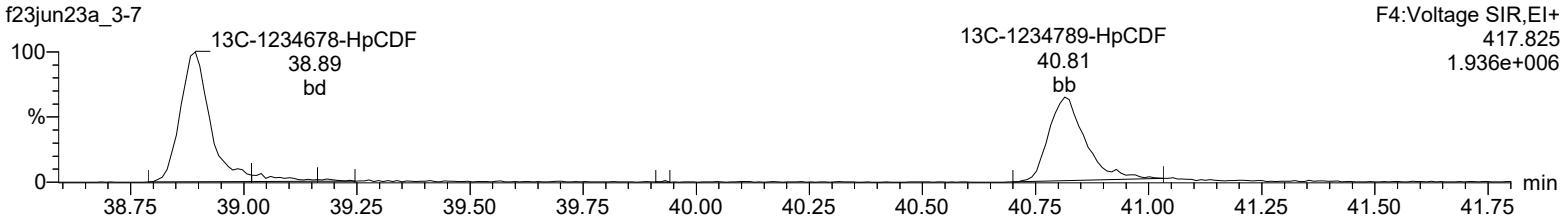
Total-heptafurans



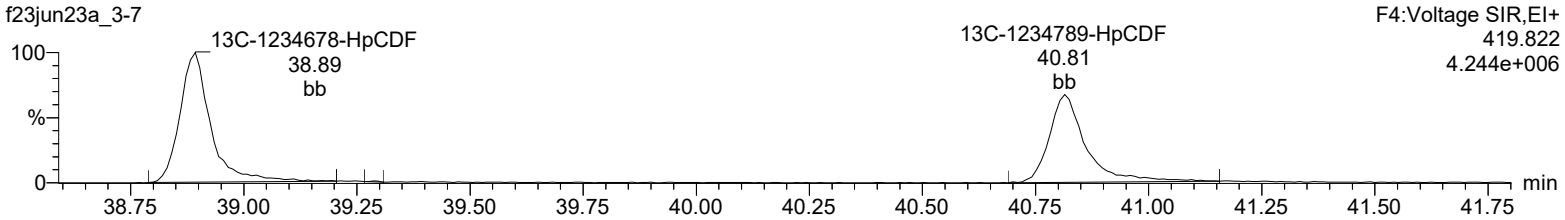
Total-heptafurans



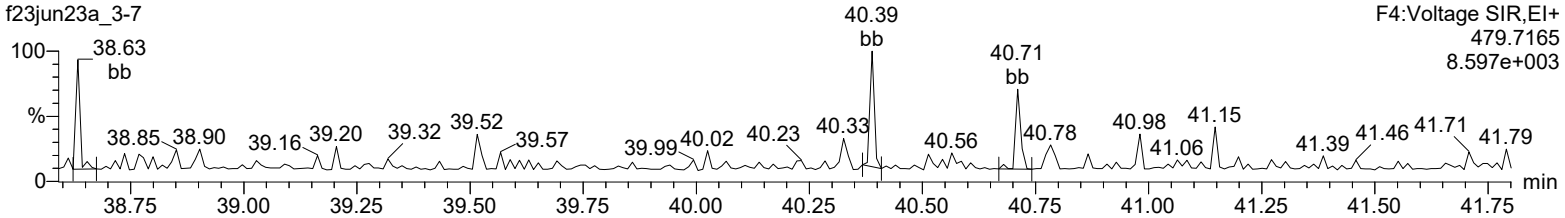
13C-1234678-HpCDF



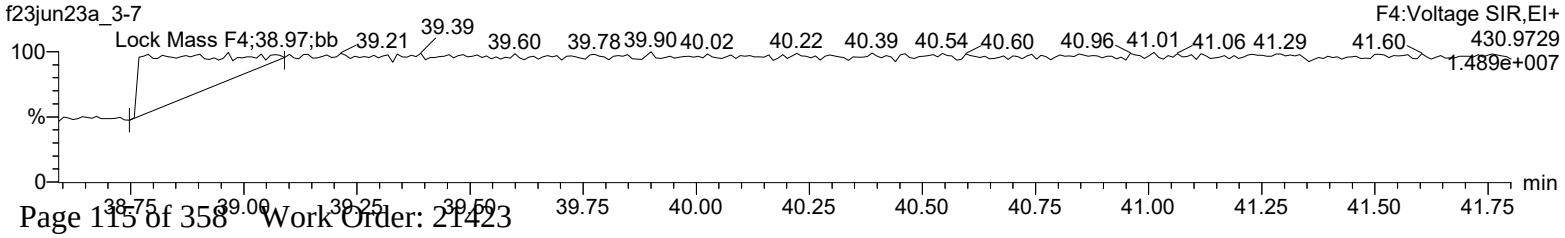
13C-1234678-HpCDF



NoDPE



Lock Mass F4



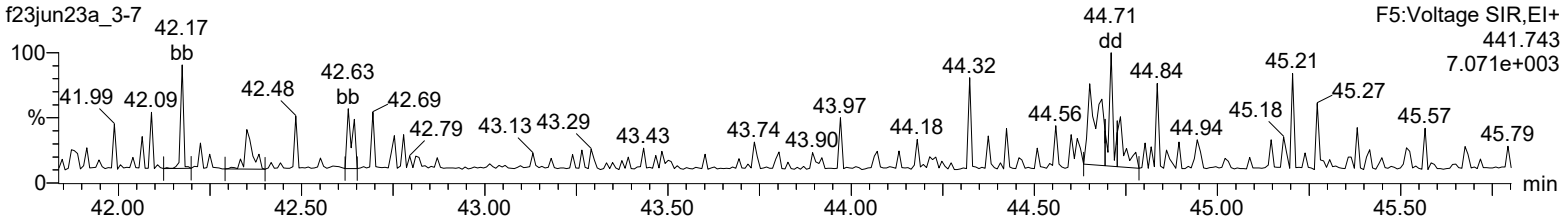
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

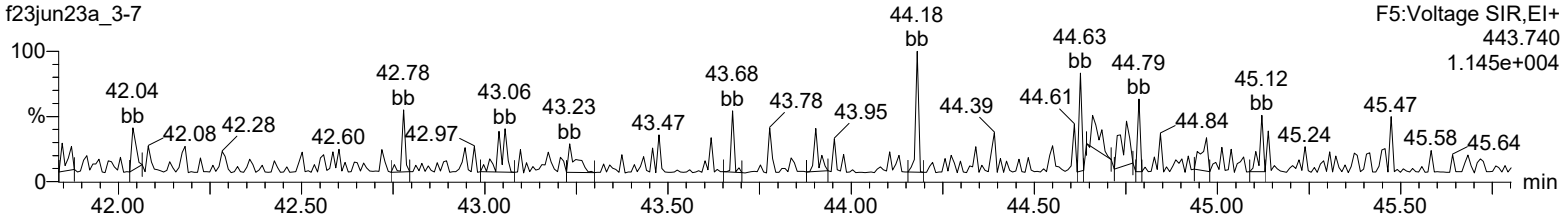
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-7, Date: 24-Jun-2023, Time: 13:41:03, ID: 21423004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

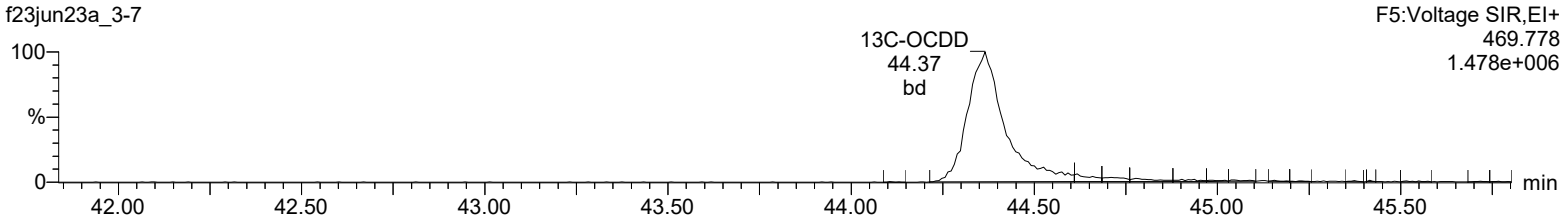
OCDF



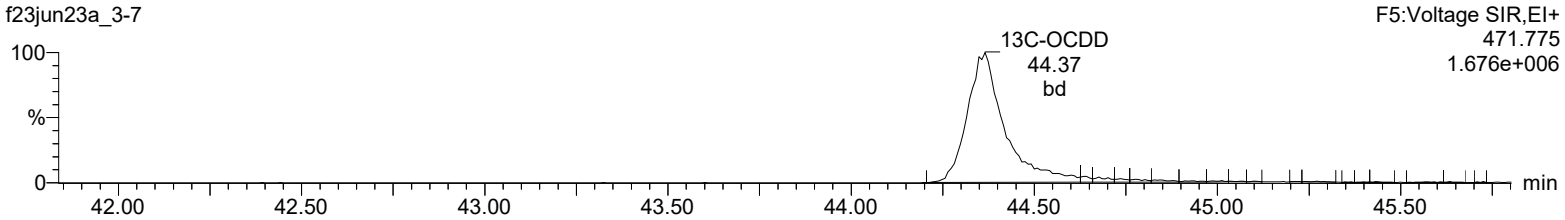
OCDF



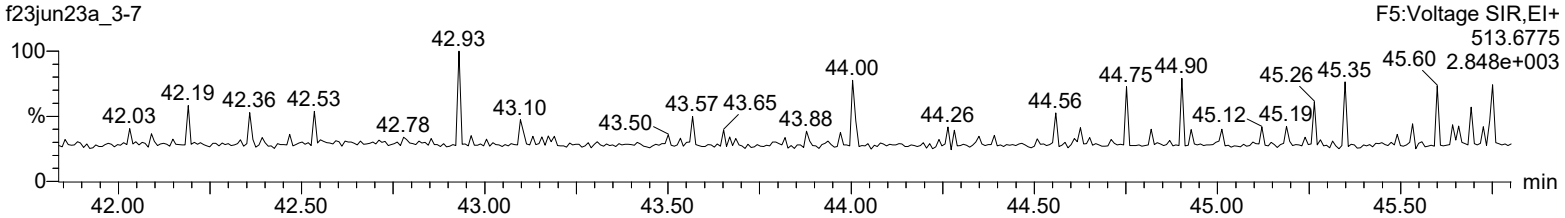
13C-OCDD



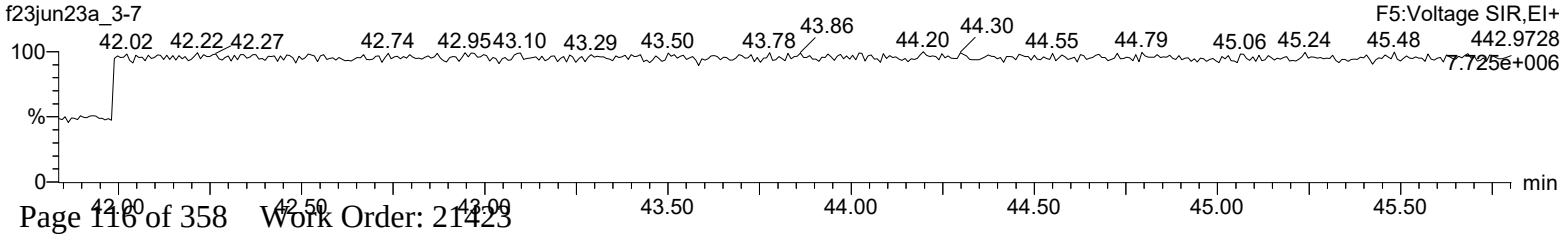
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423005**	**Date Collected:**	**10/21/2022 14:31**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR71-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 14:29**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-8**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**916.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.08	pg/L	3.08	5.45
40321-76-4	1,2,3,7,8-PeCDD	U	1.86	pg/L	1.86	27.3
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.95	pg/L	3.95	54.5
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.62	pg/L	3.62	54.5
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.77	pg/L	3.77	54.5
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	9.08	pg/L	8.07	54.5
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	64.0	pg/L	19.7	109
51207-31-9	2,3,7,8-TCDF	U	2.97	pg/L	2.97	10.9
57117-41-6	1,2,3,7,8-PeCDF	U	1.94	pg/L	1.94	54.5
57117-31-4	2,3,4,7,8-PeCDF	U	1.64	pg/L	1.64	54.5
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.85	pg/L	1.85	54.5
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.83	pg/L	1.83	54.5
60851-34-5	2,3,4,6,7,8-HxCDF	U	2.01	pg/L	2.01	54.5
72918-21-9	1,2,3,7,8,9-HxCDF	U	3.10	pg/L	3.10	54.5
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	3.88	pg/L	2.33	54.5
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.36	pg/L	3.36	54.5
39001-02-0	1,2,3,4,6,7,8,9-OCDF	JK	17.5	pg/L	8.99	109
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.08	pg/L	3.08	10.9
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.86	pg/L	1.86	54.5
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.62	pg/L	3.62	54.5
TCDF	Total Tetrachlorodibenzofuran	U	2.97	pg/L	2.97	10.9
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	9.08	pg/L	8.07	54.5
30402-15-4	Total Pentachlorodibenzofuran	U	0.772	pg/L	0.772	54.5
55684-94-1	Total Hexachlorodibenzofuran	U	1.83	pg/L	1.83	54.5
38998-75-3	Total Heptachlorodibenzofuran	JK	8.57	pg/L	2.33	54.5
TEQ	TEQ WHO2005 ND=0		0.154	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.07	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1520	2180	pg/L	69.7	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2180	pg/L	71.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1440	2180	pg/L	65.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1500	2180	pg/L	69.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1430	2180	pg/L	65.5	(23%-140%)
13C-OCDD		2500	4360	pg/L	57.3	(17%-157%)
13C-2,3,7,8-TCDF		1490	2180	pg/L	68.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1400	2180	pg/L	64.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1570	2180	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2180	pg/L	63.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1480	2180	pg/L	67.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1510	2180	pg/L	69.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1350	2180	pg/L	61.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21423005**	**Date Collected:**	**10/21/2022 14:31**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**04/05/2023 11:00**		
Client ID:	**SIB-SW-WR71-102122**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 14:29**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-8**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**916.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1410	2180	pg/L	64.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1580	2180	pg/L	72.3	(26%-138%)
37Cl-2,3,7,8-TCDD		185	218	pg/L	84.8	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:43 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.141		2620			1082			
2	12378-PeCDD							NO		0.0851		1317			742			
3	123478-HxCDD							NO		0.181		1643			1566			
4	123678-HxCDD							NO		0.166		1643			1566			
5	123789-HxCDD							NO		0.173		1643			1566			
6	1234678-HpCDD	5.87e2	6.23e2	1.21e3	40.17	1.001	0.94	NO	0.416	0.370	9.00e3	2775	3.2	1.36e4	1793	7.6	MM	MM
7	OCDD	2.87e3	2.62e3	5.48e3	44.37	1.000	1.10	YES	2.935	0.901	3.06e4	2905	10.5	2.80e4	2645	10.6	MM	MM
8	2378-TCDF	8.01e1	1.16e2	1.96e2	30.59	1.001	0.69	NO	0.023	0.136	2.90e3	1427	2.0	6.51e3	3032	2.1	bb	bd
9	12378-PeCDF							NO		0.0888		1757			3053			
10	23478-PeCDF							NO		0.0751		1757			3053			
11	123478-HxCDF							NO		0.0847		1980			1225			
12	123678-HxCDF							NO		0.0838		1980			1225			
13	234678-HxCDF							NO		0.0921		1980			1225			
14	123789-HxCDF							NO		0.142		1980			1225			
15	1234678-HpCDF	5.57e2	5.49e2	1.11e3	38.90	1.000	1.01	NO	0.178	0.107	1.63e4	1365	12.0	1.97e4	1930	10.2	MM	bb
16	1234789-HpCDF							NO		0.154		1365			1930			
17	OCDF	9.72e2	1.40e3	2.37e3	44.68	1.007	0.69	YES	0.802	0.412	2.00e4	1537	13.0	1.78e4	2483	7.2	MM	MM
18	13C-2378-TCDD	1.87e5	2.30e5	4.16e5	31.28	1.017	0.81	NO	69.694	0.307	2.68e6	6006	445.7	3.36e6	2649	1268.8	bd	bb
19	13C-12378-PeCDD	1.88e5	1.17e5	3.06e5	34.15	1.110	1.61	NO	71.656	0.520	3.20e6	6154	520.2	1.91e6	4293	444.3	bd	bd
20	13C-123478-HxCDD	1.40e5	1.11e5	2.52e5	36.76	0.991	1.26	NO	65.797	0.939	2.30e6	9514	241.6	1.78e6	8144	218.0	bd	bd
21	13C-123678-HxCDD	1.79e5	1.41e5	3.20e5	36.85	0.994	1.27	NO	68.961	0.775	2.54e6	9514	266.8	2.06e6	8144	253.2	dd	dd
22	13C-1234678-HpCDD	1.26e5	1.11e5	2.37e5	40.14	1.082	1.13	NO	65.550	0.783	1.33e6	7241	184.1	1.28e6	6666	191.4	bd	bd
23	13C-OCDD	1.62e5	1.76e5	3.38e5	44.36	1.196	0.92	NO	114.501	0.682	1.34e6	3316	402.7	1.56e6	6552	237.9	bd	bd
24	13C-2378-TCDF	2.79e5	3.44e5	6.23e5	30.56	0.993	0.81	NO	68.450	0.183	2.72e6	3937	690.9	3.42e6	3891	879.6	bd	bd
25	13C-12378-PeCDF	3.61e5	2.18e5	5.79e5	33.35	1.084	1.66	NO	64.177	0.511	6.63e6	11982	553.0	3.98e6	9741	408.1	bd	bd
26	13C-23478-PeCDF	3.82e5	2.28e5	6.11e5	33.96	1.104	1.67	NO	71.897	0.543	7.19e6	11982	600.4	4.35e6	9741	446.2	bd	bb
27	13C-123478-HxCDF	1.26e5	2.42e5	3.68e5	36.04	0.972	0.52	NO	63.088	0.815	2.29e6	10196	224.6	4.25e6	13141	323.5	bd	bd
28	13C-123678-HxCDF	1.75e5	3.15e5	4.90e5	36.14	0.975	0.55	NO	67.854	0.658	2.48e6	10196	242.9	4.44e6	13141	338.0	dd	db
29	13C-234678-HxCDF	1.45e5	2.74e5	4.18e5	36.63	0.988	0.53	NO	69.202	0.786	2.11e6	10196	207.3	3.98e6	13141	302.9	bd	bb
30	13C-123789-HxCDF	1.15e5	2.16e5	3.32e5	37.40	1.009	0.53	NO	61.730	0.884	1.51e6	10196	148.1	2.76e6	13141	210.4	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:43 PM Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.42e5	3.08e5	4.50e5	38.88	1.048	0.46	NO	64.774	0.768	1.75e6	11096	157.8	3.74e6	15085	247.8	bd	bb
32	13C-1234789-HpCDF	1.22e5	2.69e5	3.91e5	40.81	1.101	0.45	NO	72.310	0.985	1.22e6	11096	110.3	2.71e6	15085	179.4	bb	MM
33	13C-1234-TCDD	2.37e5	2.88e5	5.25e5	30.77	0.000	0.82	NO	100.000	0.350	2.79e6	6006	464.3	3.35e6	2649	1265.2	bb	bb
34	13C-123789-HxCDD	2.58e5	1.93e5	4.52e5	37.08	0.000	1.34	NO	100.000	0.796	3.17e6	9514	333.3	2.34e6	8144	287.3	dd	dd
35	37Cl-2378-TCDD	5.00e4		5.00e4	31.30	1.017			8.481	0.107	7.15e5	2971	240.7				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-8, ID:21423005-1, Description: 52698

M	M2
6 1234678-HpCDD 40.17 - AB	6 1234678-HpCDD 40.17 - AB
7 OCDD 44.37 - AB	7 OCDD 44.37 - AB
15 1234678-HpCDF 38.90 - AB	
17 OCDF 44.68 - AB	17 OCDF 44.68 - AB
	32 13C-1234789-HpCDF 40.81 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:43 PM Eastern Daylight Time

alma 06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.40e2	6.91e1	2.09e2	27.79	2.03	YES	0.046	0.141	4.72e3	2620	1.8	3.15e3	1082	2.9	db	bb
2	Total-tetradioxins	1.07e2	5.28e1	1.60e2	26.74	2.02	YES	0.035	0.141	4.89e3	2620	1.9	2.03e3	1082	1.9	bb	bb
3	Total-tetradioxins	1.14e2	7.61e1	1.90e2	31.47	1.49	YES	0.041	0.141	4.87e3	2620	1.9	1.56e3	1082	1.4	bb	bb
4	Total-tetradioxins	6.11e1	1.33e2	1.94e2	31.22	0.46	YES	0.042	0.141	2.18e3	2620	0.8	7.00e3	1082	6.5	db	bb
5	Total-tetradioxins	1.26e2	8.85e1	2.15e2	30.96	1.43	YES	0.047	0.141	4.73e3	2620	1.8	1.74e3	1082	1.6	bb	bb
6	Total-tetradioxins	1.57e2	5.21e1	2.09e2	31.90	3.02	YES	0.046	0.141	3.50e3	2620	1.3	2.66e3	1082	2.5	bb	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentadioxins	5.75e1	5.07e1	1.08e2	32.79	1.13	YES	0.030	0.0851	2.59e3	1317	2.0	2.59e3	742	3.5	bb	bb

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	7.09e1	6.76e1	1.39e2	36.85	1.05	YES	0.045	0.173	1.81e3	1643	1.1	2.51e3	1566	1.6	bb	bb
2	Total-hexadioxins	1.86e2	5.39e1	2.40e2	36.69	3.45	YES	0.079	0.173	1.61e4	1643	9.8	3.93e3	1566	2.5	db	bb
3	Total-hexadioxins	9.03e1	1.15e2	2.05e2	36.14	0.79	YES	0.067	0.173	2.27e3	1643	1.4	5.64e3	1566	3.6	bb	bd
4	Total-hexadioxins	8.78e1	8.84e1	1.76e2	35.53	0.99	YES	0.058	0.173	2.54e3	1643	1.5	3.69e3	1566	2.4	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDD	5.87e2	6.23e2	1.21e3	40.17	0.94	NO	0.416	0.370	9.00e3	2775	3.2	1.36e4	1793	7.6	MM	MM
2	Total-heptadioxins	8.47e1	7.60e1	1.61e2	39.33	1.12	NO	0.055	0.370	5.65e3	2775	2.0	7.30e3	1793	4.1	bb	bb
3	Total-heptadioxins	3.51e2	3.24e2	6.76e2	39.24	1.08	NO	0.232	0.370	7.32e3	2775	2.6	1.07e4	1793	6.0	MM	bb
4	Total-heptadioxins	2.77e2	8.55e1	3.63e2	38.88	3.24	YES	0.125	0.370	1.42e4	2775	5.1	5.43e3	1793	3.0	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:43 PM Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	7.06e1	8.62e1	1.57e2	29.22	0.82	NO	0.019	0.136	2.31e3	1427	1.6	3.76e3	3032	1.2	bb	bb
2	Total-tetrafurans	9.32e1	5.12e1	1.44e2	28.66	1.82	YES	0.017	0.136	5.81e3	1427	4.1	3.39e3	3032	1.1	bb	bb
3	Total-tetrafurans	5.56e1	1.65e2	2.21e2	27.38	0.34	YES	0.026	0.136	3.32e3	1427	2.3	4.24e3	3032	1.4	bb	bb
4	Total-tetrafurans	1.19e2	1.77e2	2.97e2	26.11	0.67	NO	0.035	0.136	3.43e3	1427	2.4	4.62e3	3032	1.5	db	bd
5	Total-tetrafurans	1.19e2	1.51e2	2.71e2	31.97	0.79	NO	0.032	0.136	8.10e3	1427	5.7	5.09e3	3032	1.7	bb	db
6	Total-tetrafurans	7.51e1	2.49e2	3.24e2	31.44	0.30	YES	0.039	0.136	3.14e3	1427	2.2	7.91e3	3032	2.6	bb	bb
7	Total-tetrafurans	8.83e1	1.53e2	2.41e2	31.09	0.58	YES	0.029	0.136	3.21e3	1427	2.3	6.24e3	3032	2.1	bb	bb
8	Total-tetrafurans	1.31e2	8.56e1	2.16e2	30.75	1.52	YES	0.026	0.136	3.43e3	1427	2.4	5.49e3	3032	1.8	bb	bb
9	2378-TCDF	8.01e1	1.16e2	1.96e2	30.59	0.69	NO	0.023	0.136	2.90e3	1427	2.0	6.51e3	3032	2.1	bb	bd
10	Total-tetrafurans	7.76e1	1.35e2	2.12e2	30.29	0.58	YES	0.025	0.136	5.30e3	1427	3.7	4.86e3	3032	1.6	bb	bd
11	Total-tetrafurans	8.99e1	1.69e2	2.59e2	30.07	0.53	YES	0.031	0.136	3.48e3	1427	2.4	4.71e3	3032	1.6	db	bb
12	Total-tetrafurans	1.09e2	7.45e1	1.84e2	29.83	1.47	YES	0.022	0.136	6.13e3	1427	4.3	3.50e3	3032	1.2	bb	bb
13	Total-tetrafurans	6.63e1	1.04e2	1.70e2	29.69	0.64	YES	0.020	0.136	3.93e3	1427	2.8	4.68e3	3032	1.5	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	6.27e1	8.67e1	1.49e2	32.35	0.72	YES	0.019	0.0354	1.63e3	562	2.9	2.06e3	1523	1.4	bb	db
2	Total-pentafurans (F1)	9.20e1	5.56e1	1.48e2	31.19	1.65	NO	0.019	0.0354	6.14e3	562	10.9	1.41e3	1523	0.9	bb	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	6.17e1	6.92e1	1.31e2	33.02	0.89	YES	0.017	0.0816	4.92e3	1757	2.8	6.48e3	3053	2.1	bb	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	1.13e2	6.61e1	1.79e2	36.51	1.70	YES	0.032	0.0977	3.36e3	1980	1.7	2.27e3	1225	1.9	bb	bb
2	Total-hexafurans	1.77e2	8.09e1	2.58e2	35.69	2.18	YES	0.046	0.0977	8.41e3	1980	4.2	3.75e3	1225	3.1	bb	bb
3	Total-hexafurans	2.29e2	1.50e2	3.79e2	35.28	1.52	YES	0.068	0.0977	8.98e3	1980	4.5	2.77e3	1225	2.3	MM	MM

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:43 PM Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	7.06e1	5.03e1	1.21e2	41.00	1.40	YES	0.021	0.129	6.66e3	1365	4.9	4.39e3	1930	2.3	bb	bb
2	Total-heptafurans	6.13e1	6.05e1	1.22e2	40.18	1.01	NO	0.021	0.129	4.74e3	1365	3.5	3.73e3	1930	1.9	bb	bb
3	Total-heptafurans	1.09e2	6.30e1	1.72e2	39.51	1.73	YES	0.030	0.129	5.10e3	1365	3.7	3.09e3	1930	1.6	db	dd
4	Total-heptafurans	6.89e2	5.51e2	1.24e3	39.41	1.25	YES	0.215	0.129	1.31e4	1365	9.6	1.40e4	1930	7.2	bd	MM
5	1234678-HpCDF	5.57e2	5.49e2	1.11e3	38.90	1.01	NO	0.178	0.107	1.63e4	1365	12.0	1.97e4	1930	10.2	MM	bb

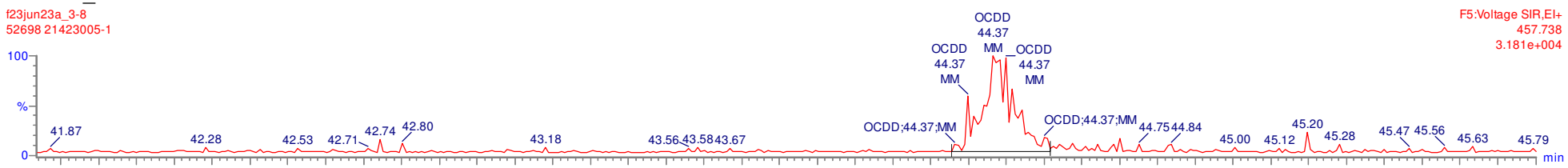
Reasons for Analyst Intervention

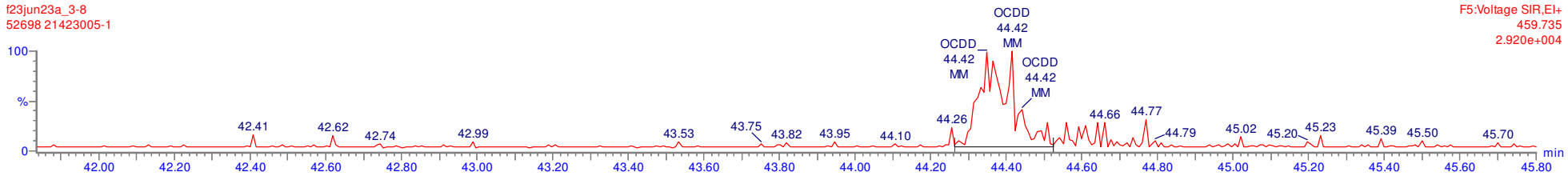
Name:f23jun23a_3-8, ID:21423005-1, Description: 52698

M	M2
1 1234678-HpCDD 40.17 - AB	1 1234678-HpCDD 40.17 - AB
3 Total-heptadioxins 39.24 - AB	
3 Total-hexafurans 35.28 - AB	3 Total-hexafurans 35.28 - AB
	4 Total-heptafurans 39.41 - AB
5 1234678-HpCDF 38.90 - AB	

Reason Codes assigned by MW1 on 28-JUN-23

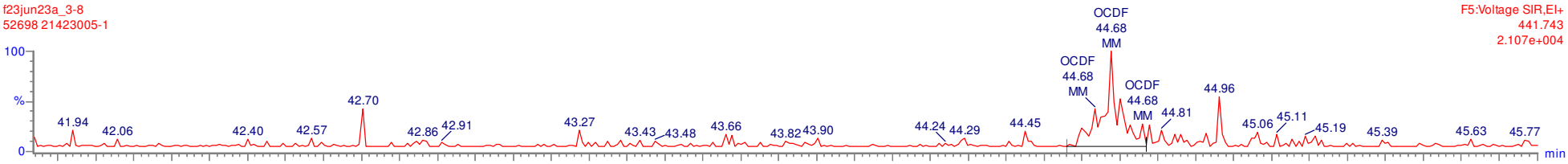
MANUAL INTEGRATION
METHOD 1613
HRP722_2

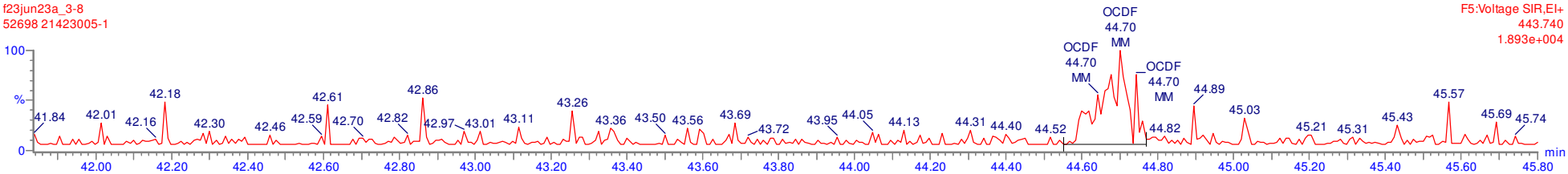




06/28/2023 06/29/2023

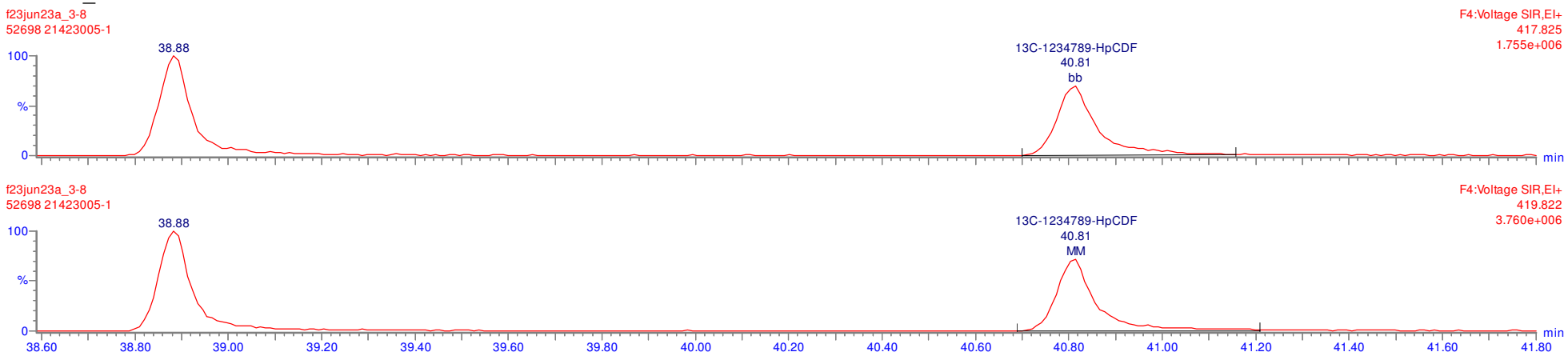
MANUAL INTEGRATION
METHOD 1613
HRP722_2





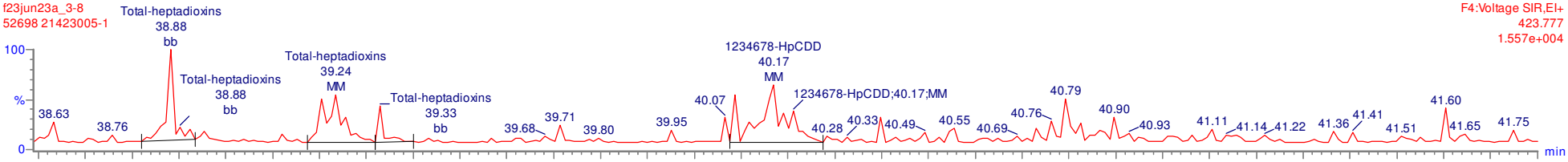
06/28/2023 06/29/2023

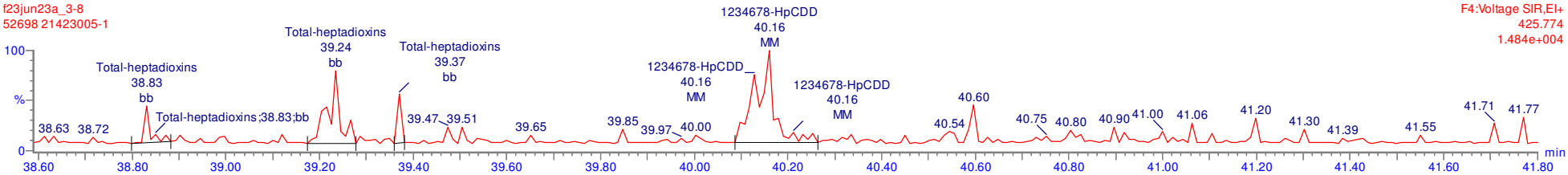
MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/29/2023

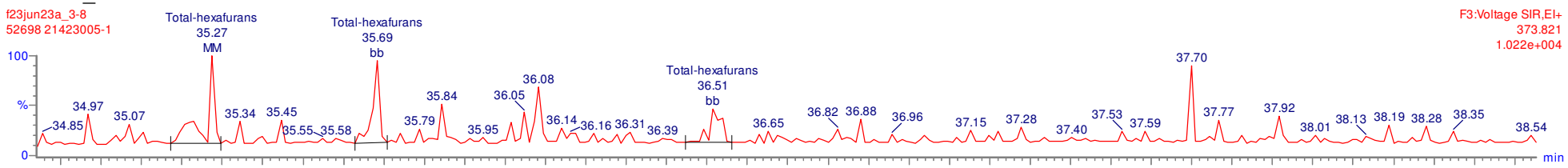
MANUAL INTEGRATION
METHOD 1613
HRP722_2

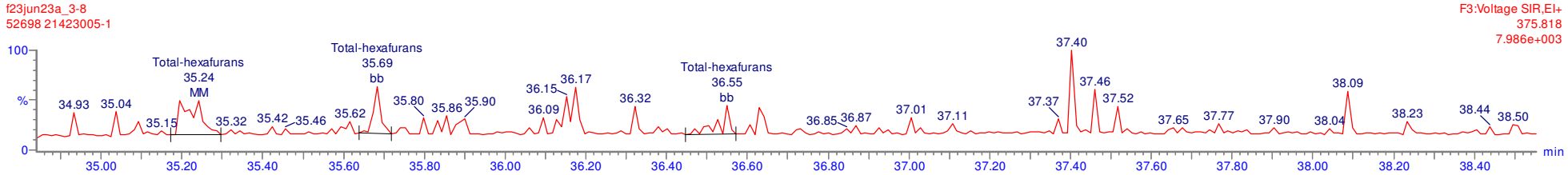




06/28/2023 06/29/2023

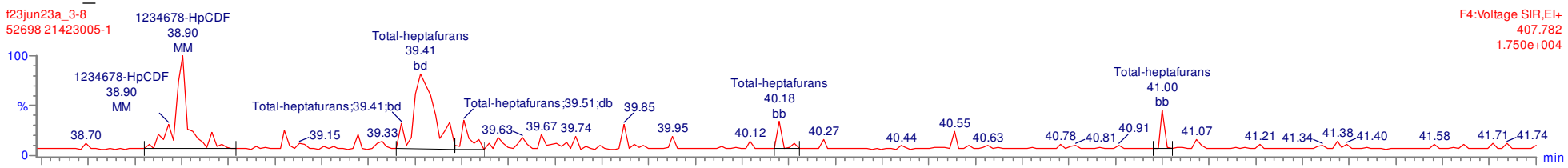
MANUAL INTEGRATION
METHOD 1613
HRP722_2

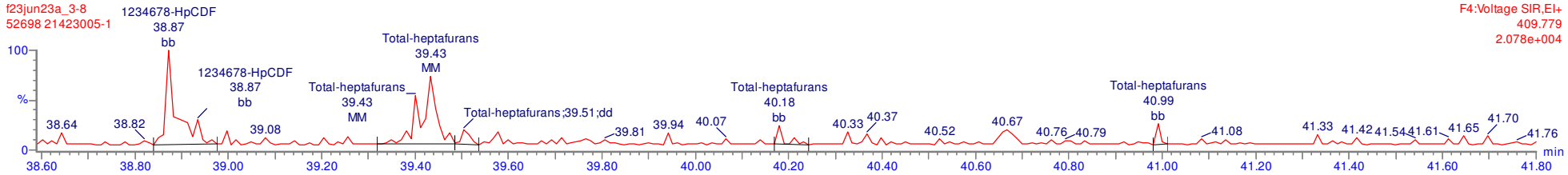




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

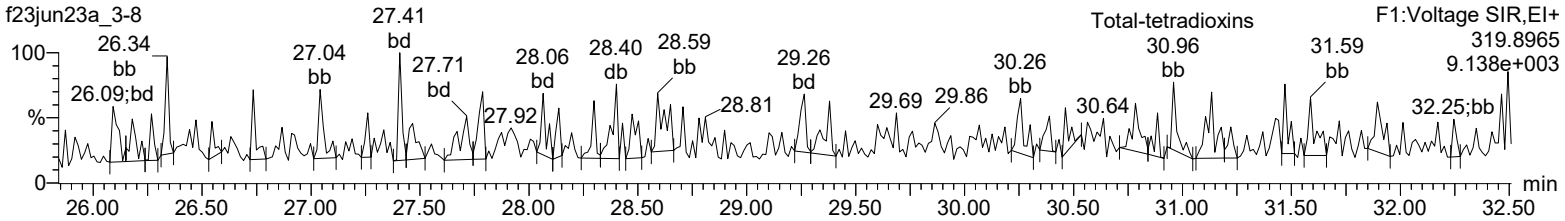
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

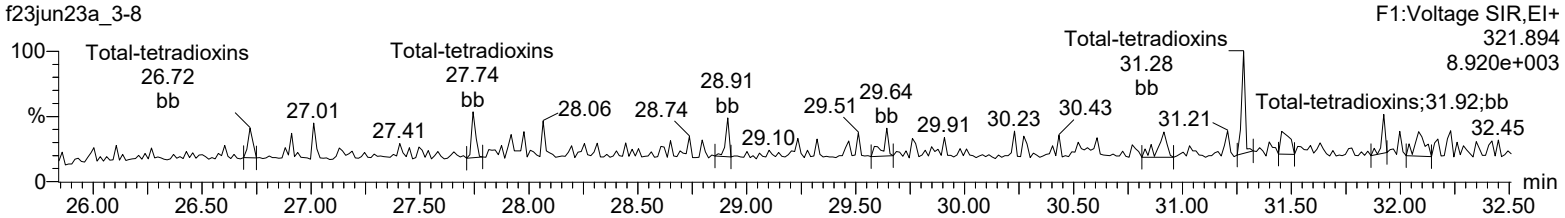
AMA 06/29/2023

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

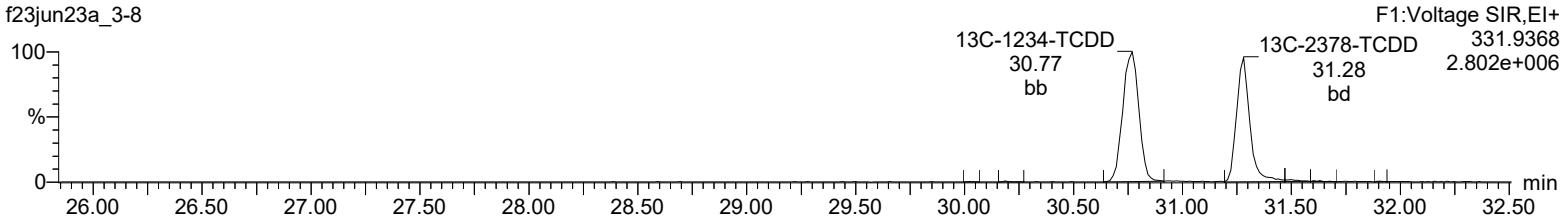
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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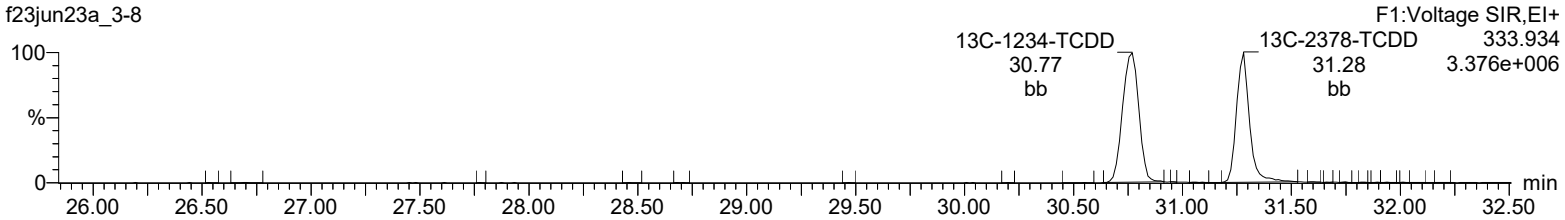
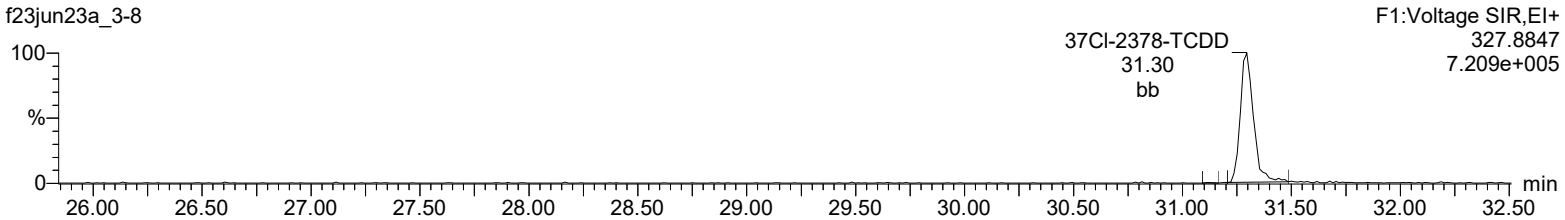
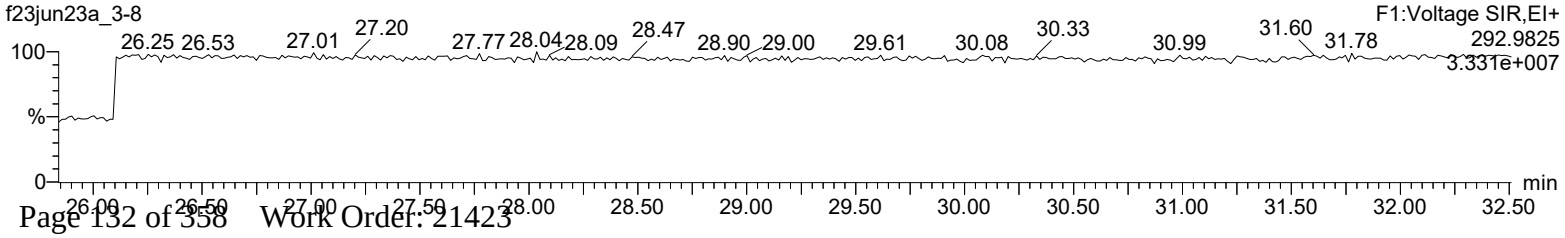


37Cl-2378-TCDD



Lock Mass F1



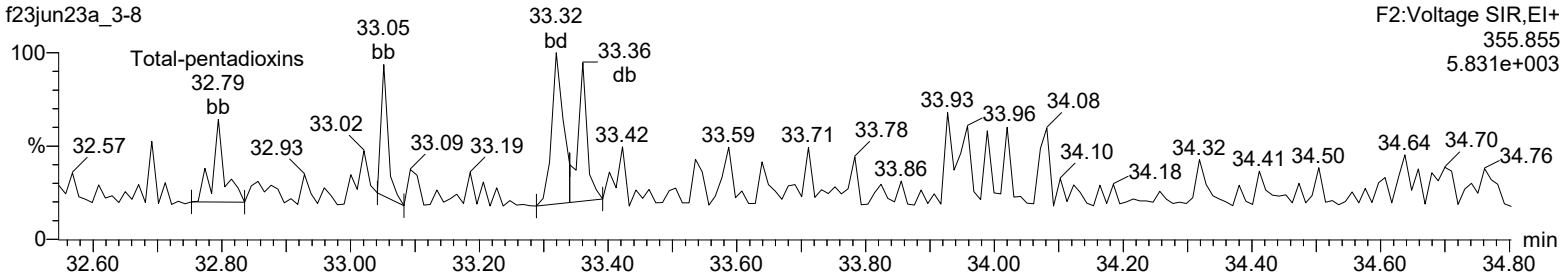
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

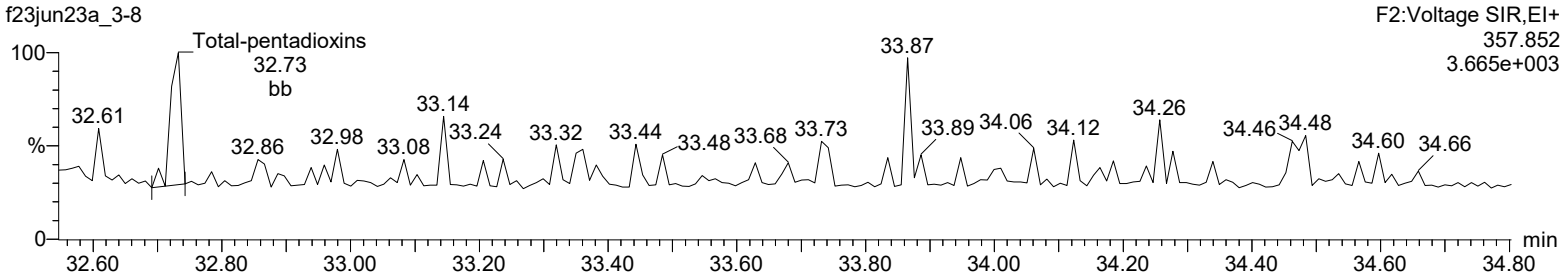
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

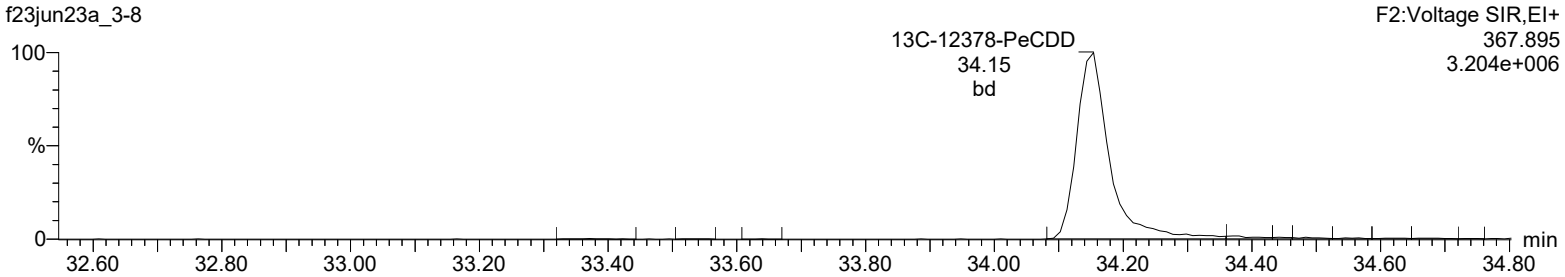
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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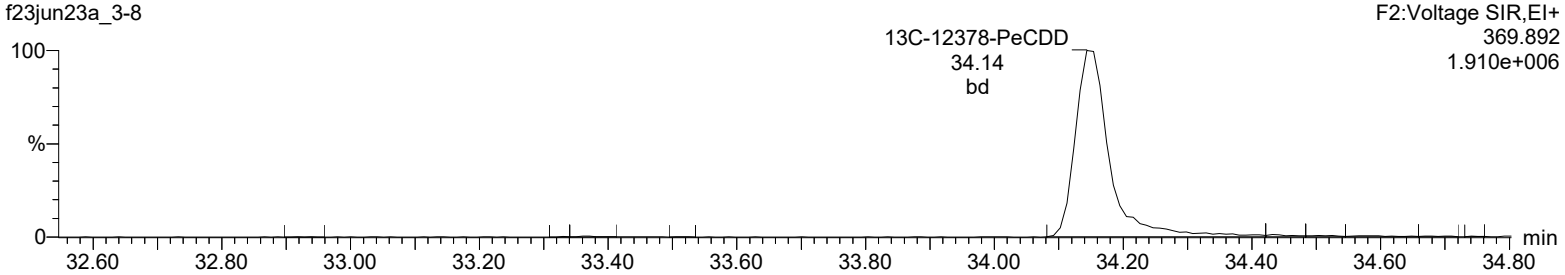
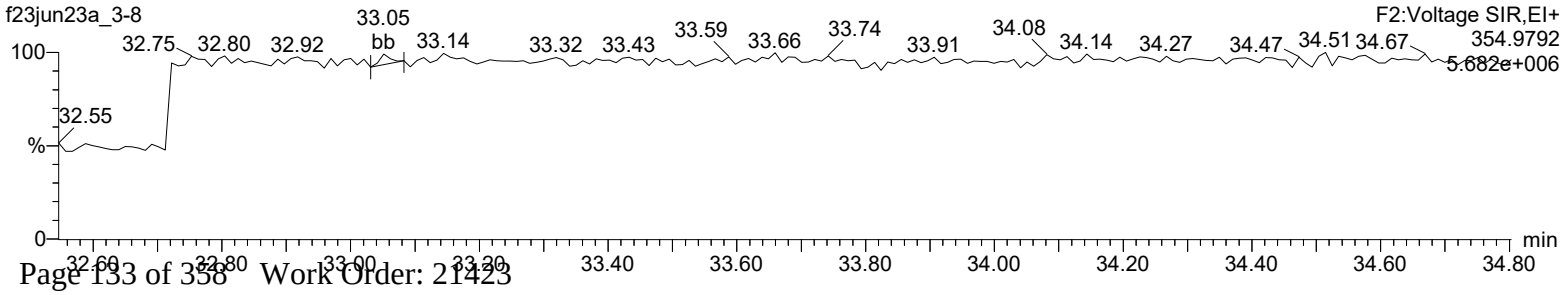


Lock Mass F2



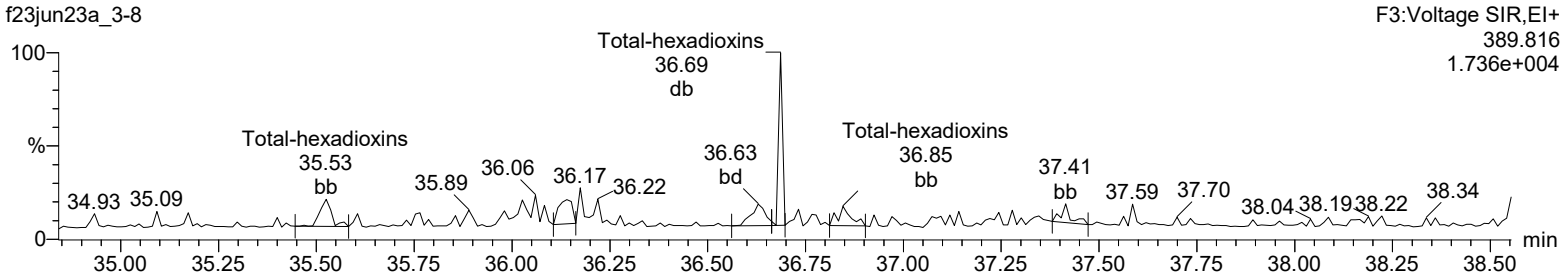
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

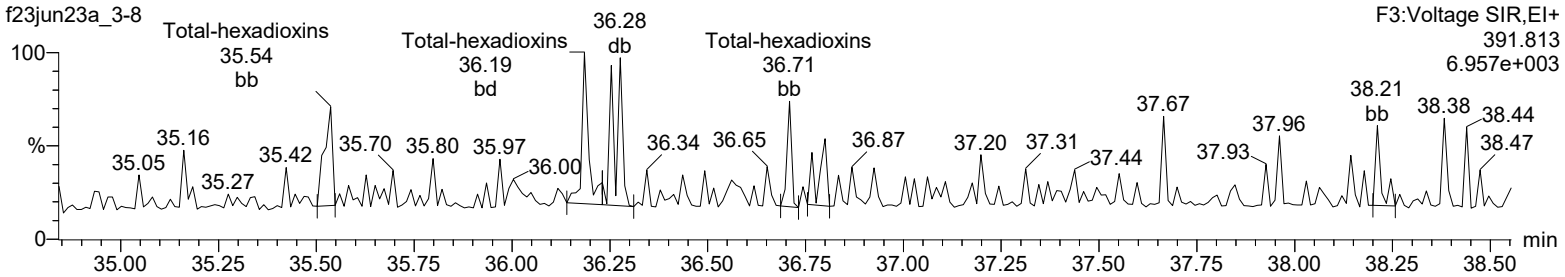
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

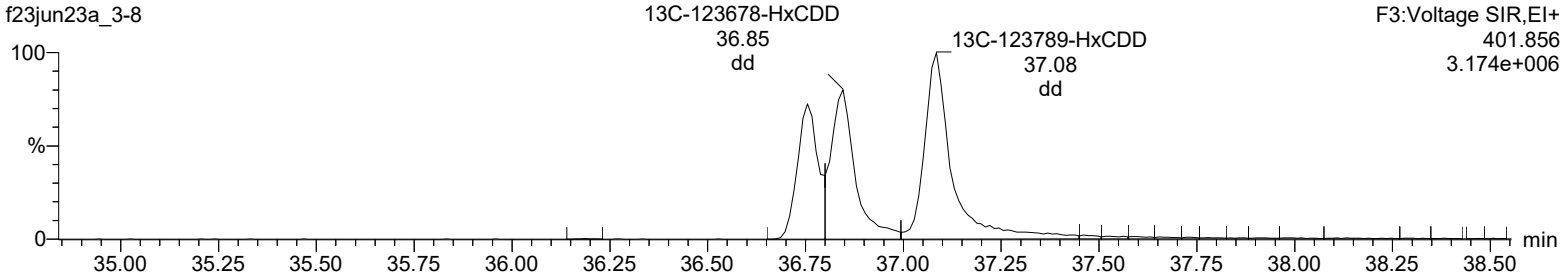
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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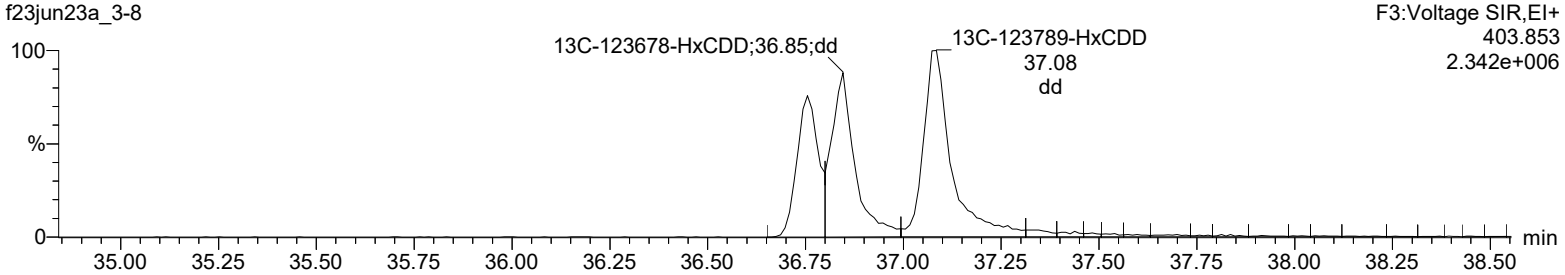
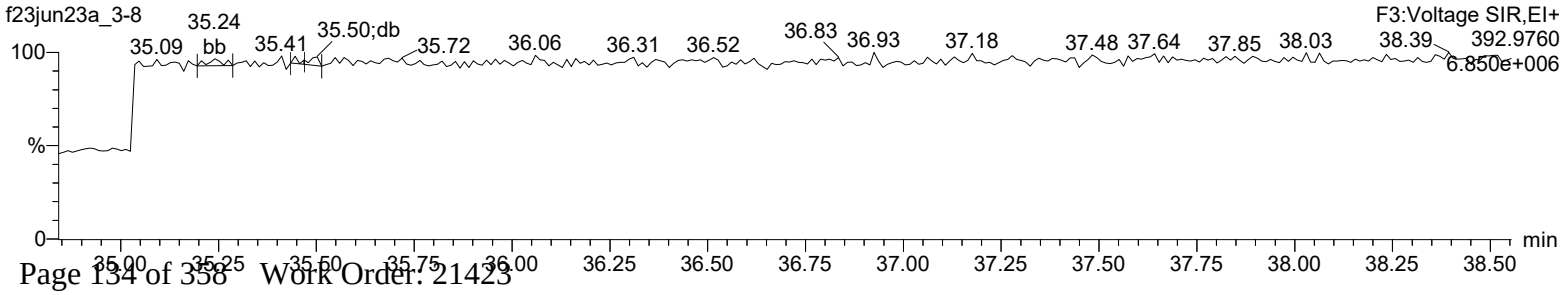


Lock Mass F3



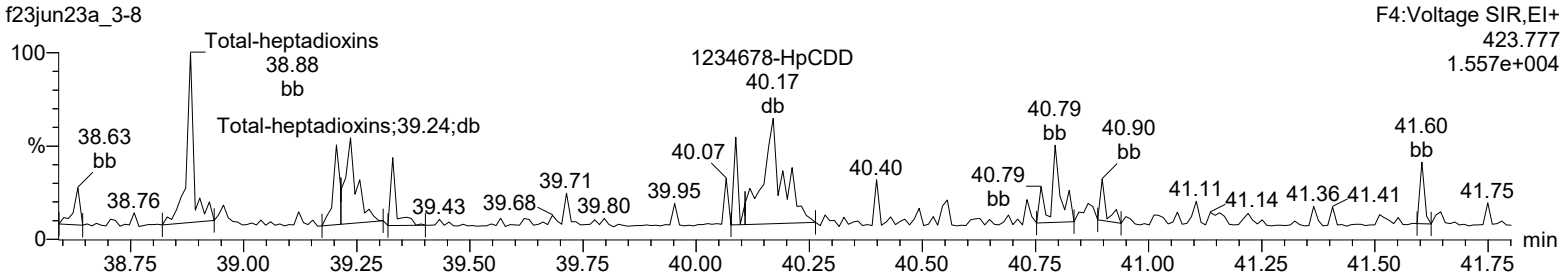
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

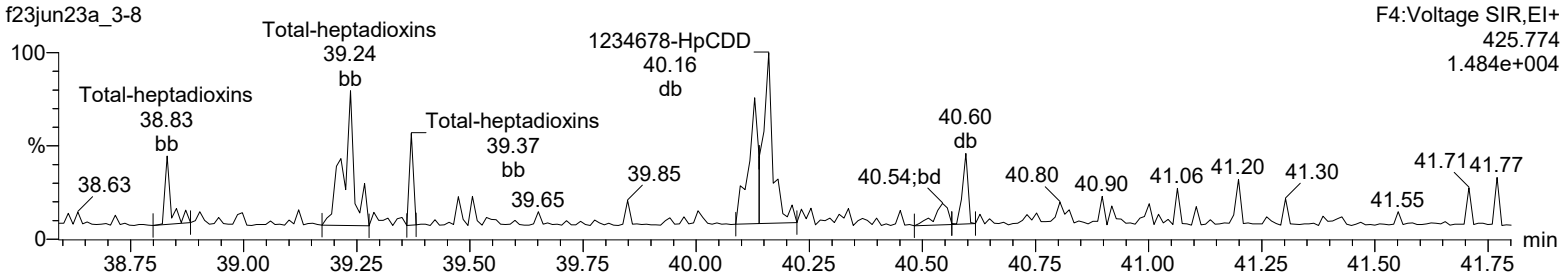
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

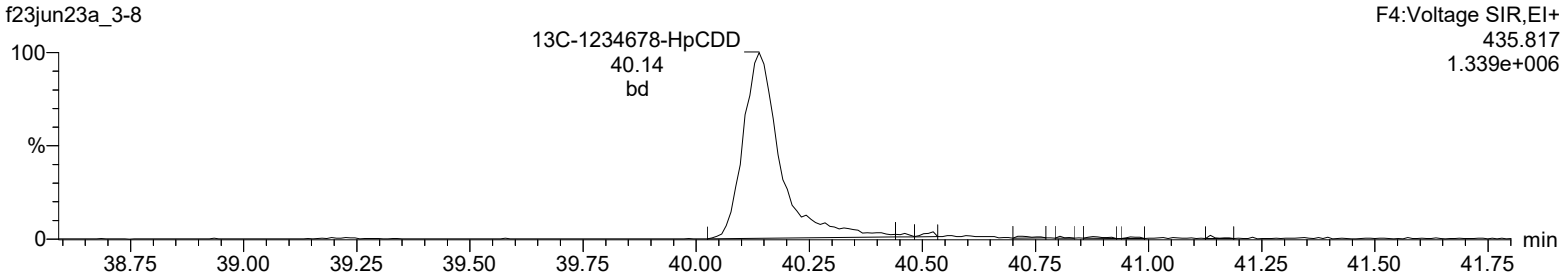
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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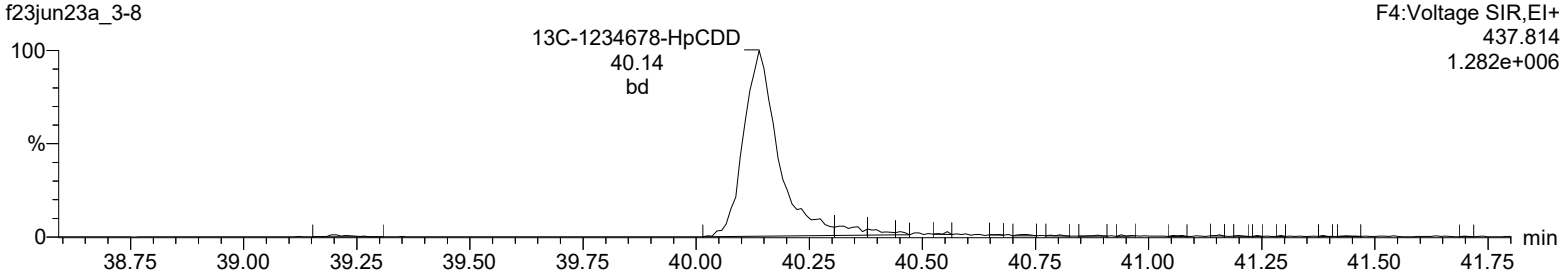
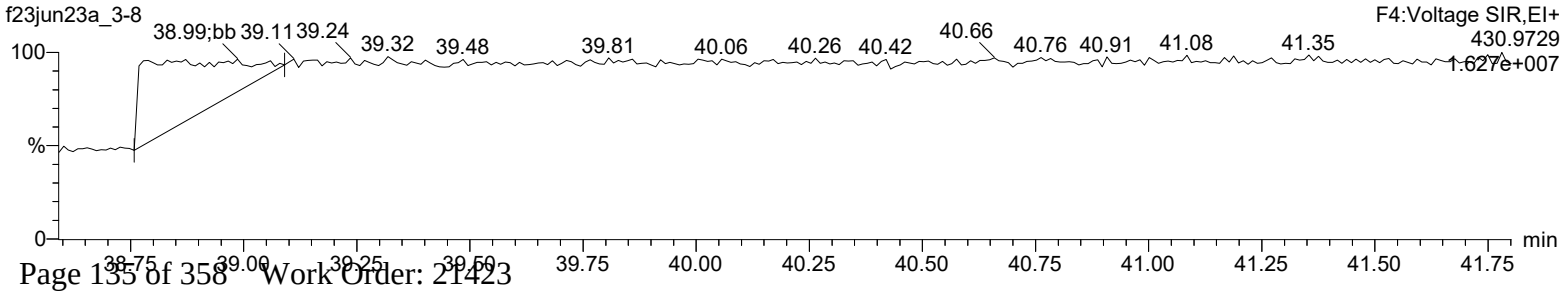


Lock Mass F4



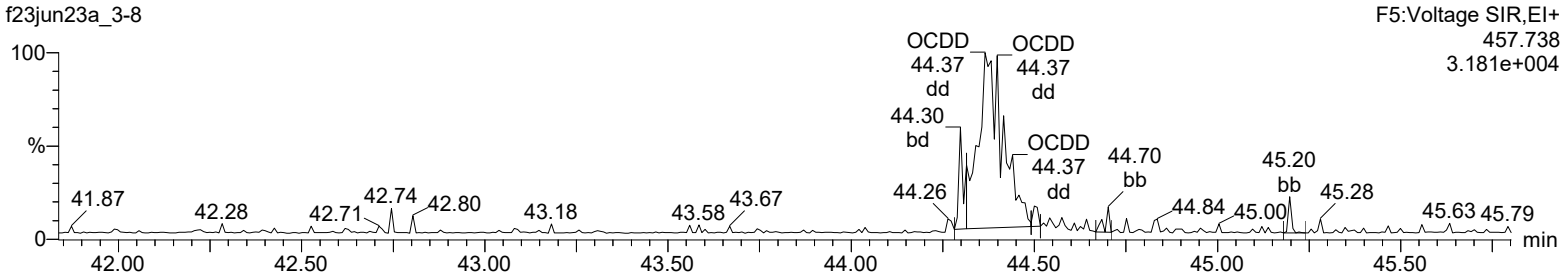
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

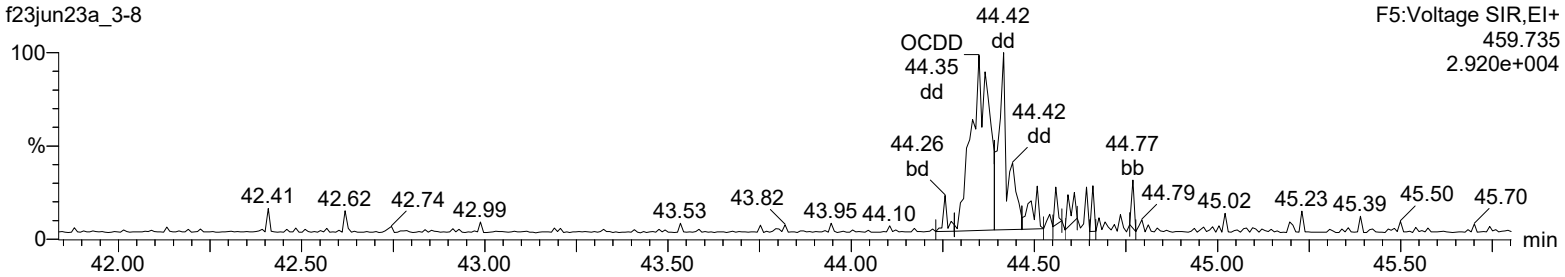
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

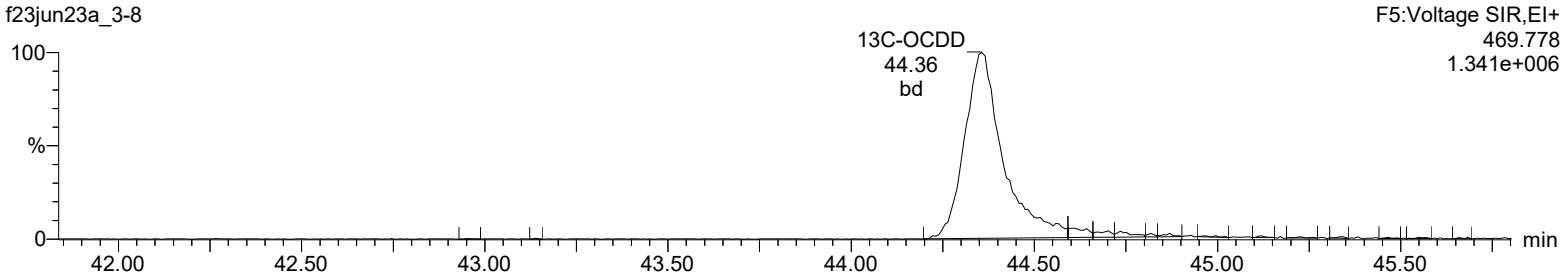
OCDD



OCDD



13C-OCDD



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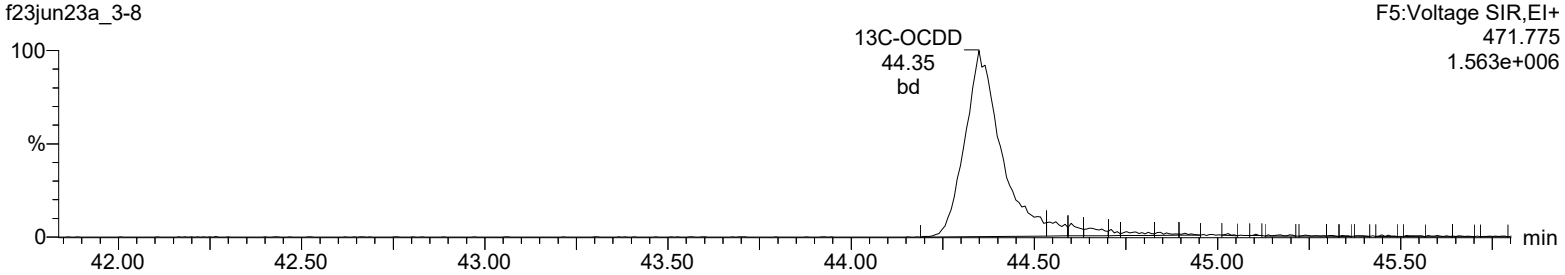
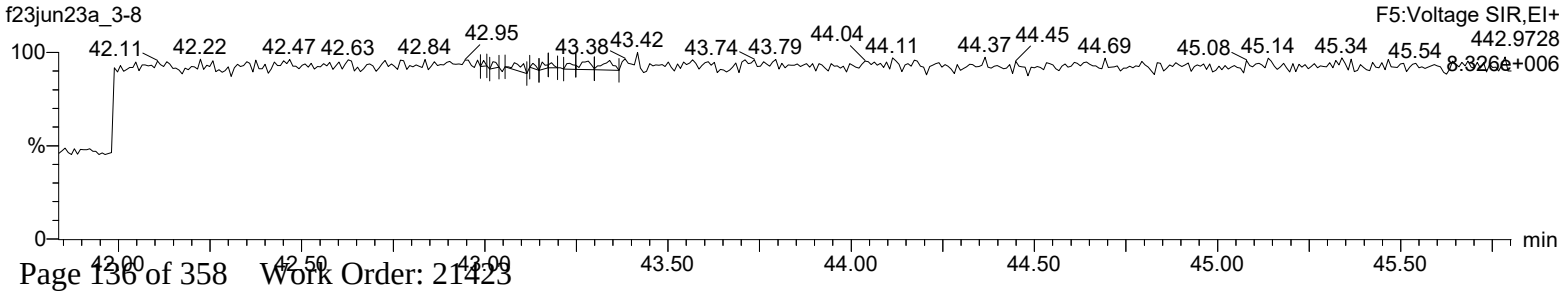


Lock Mass F5



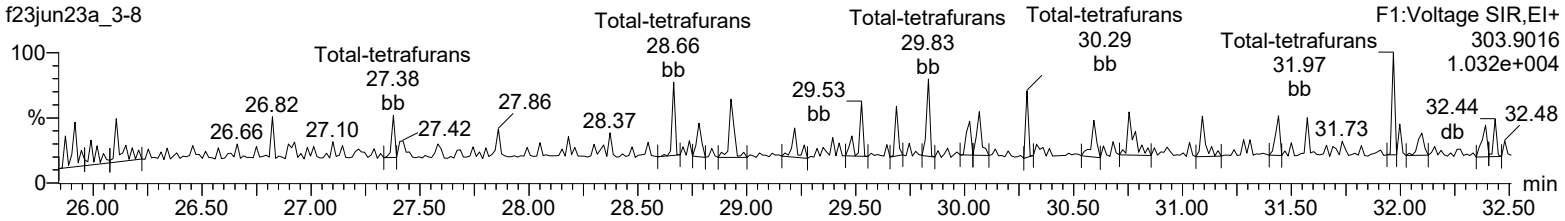
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

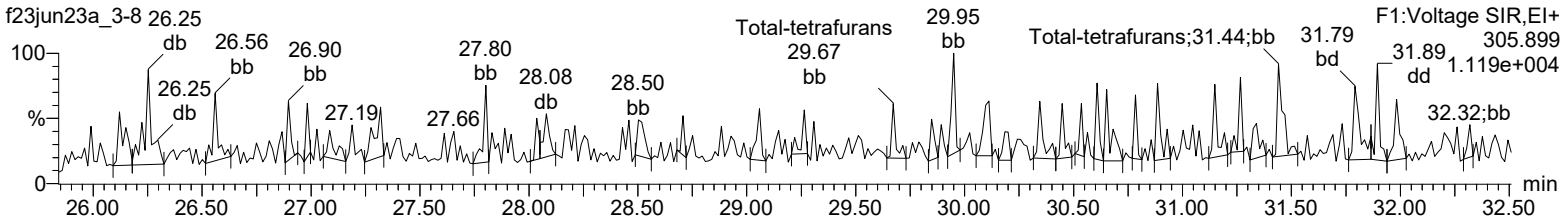
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

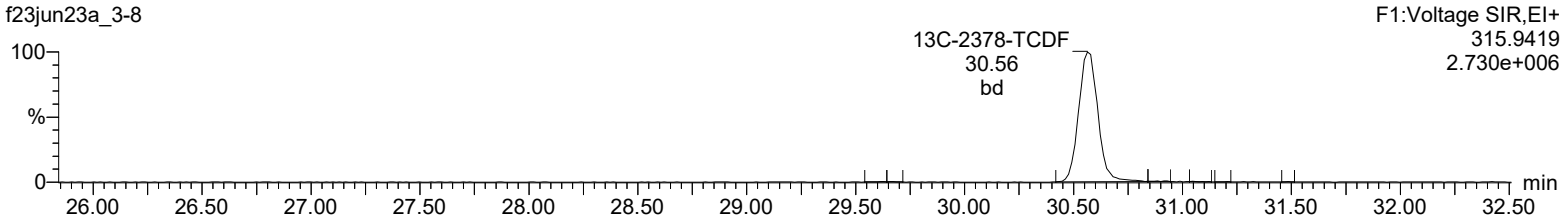
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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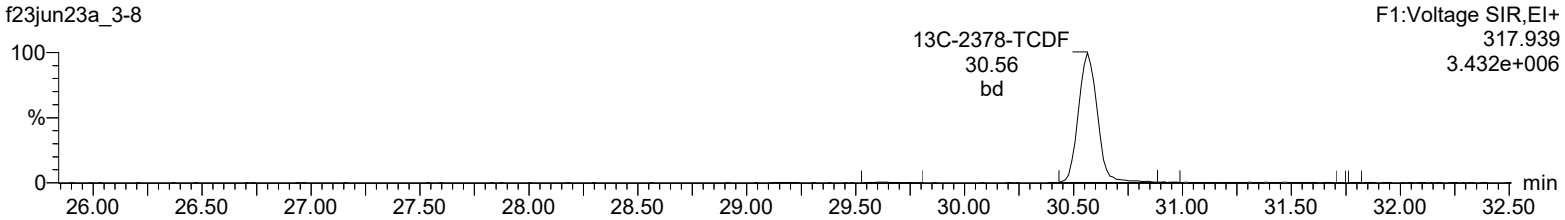
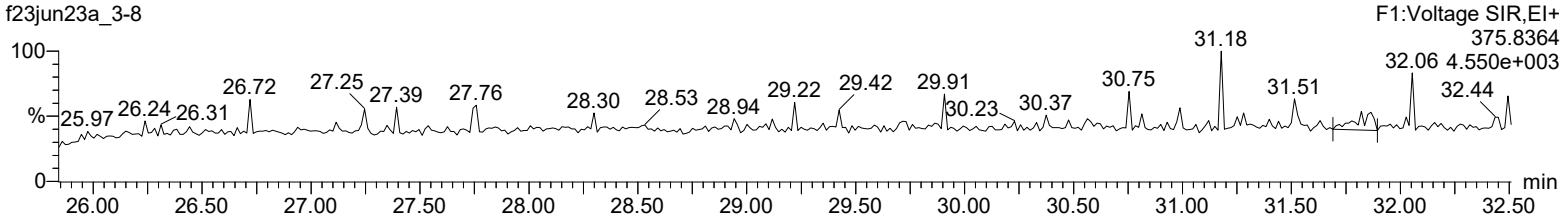
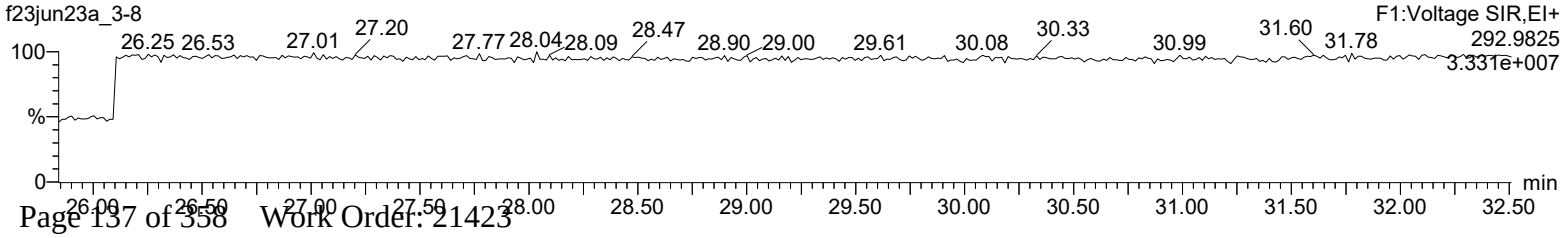


HxDPE



Lock Mass F1



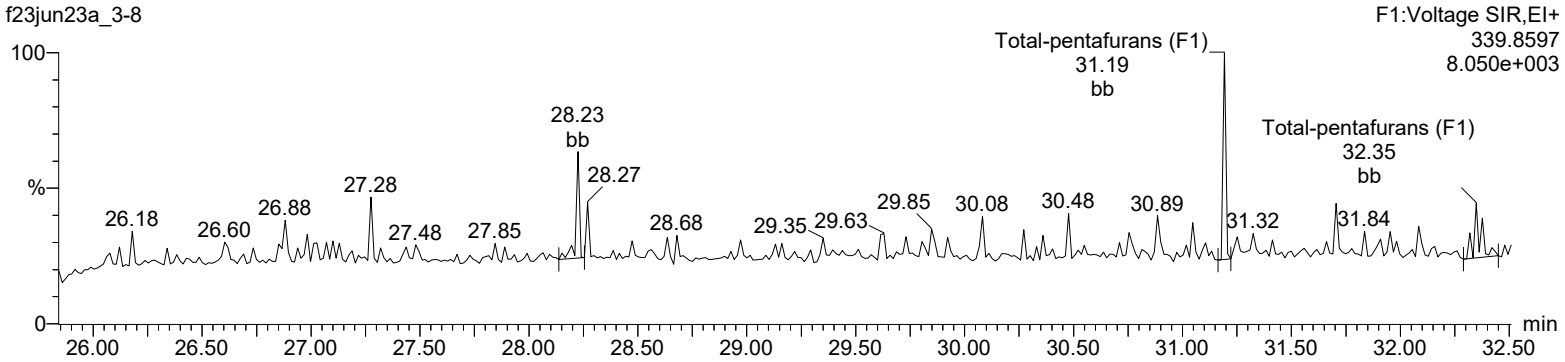
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

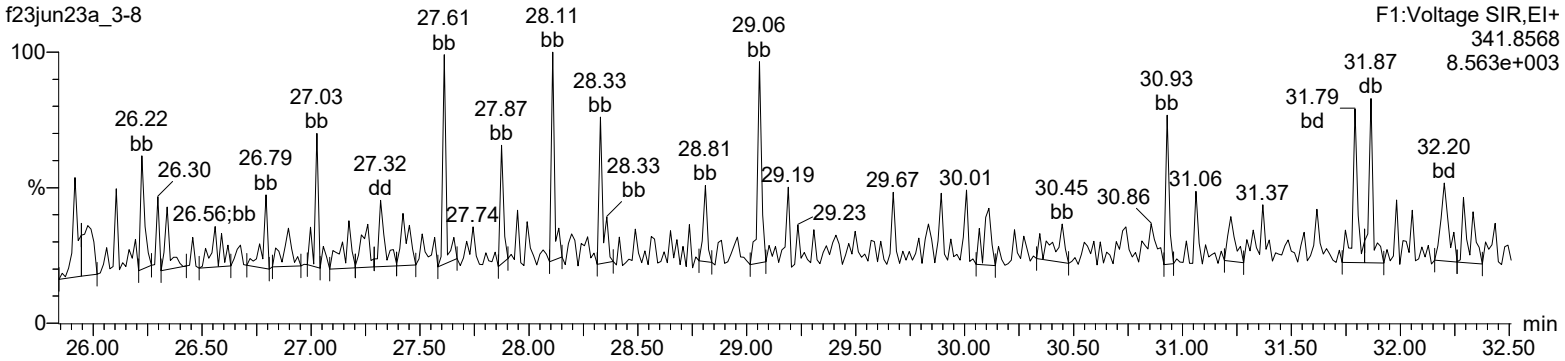
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

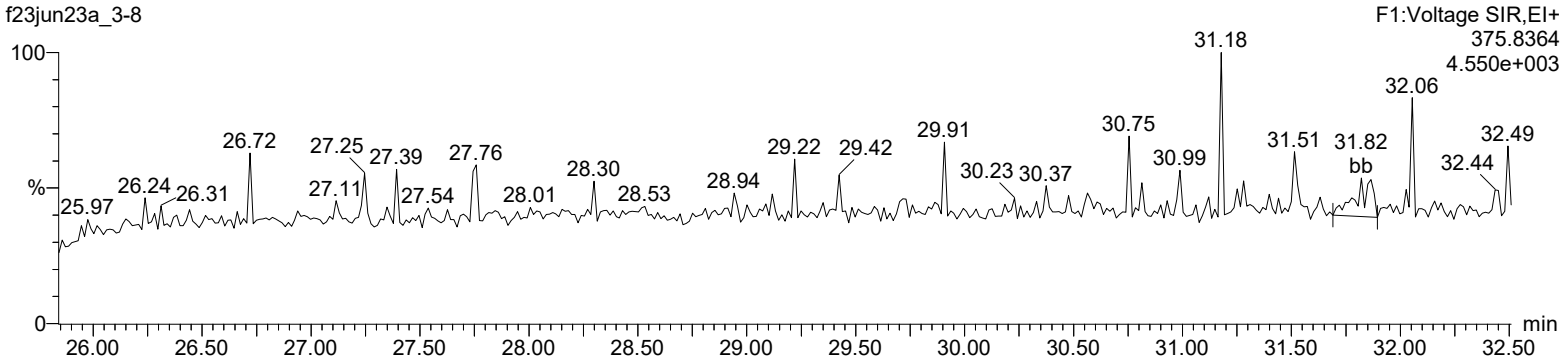
Total-pentafurans (F1)



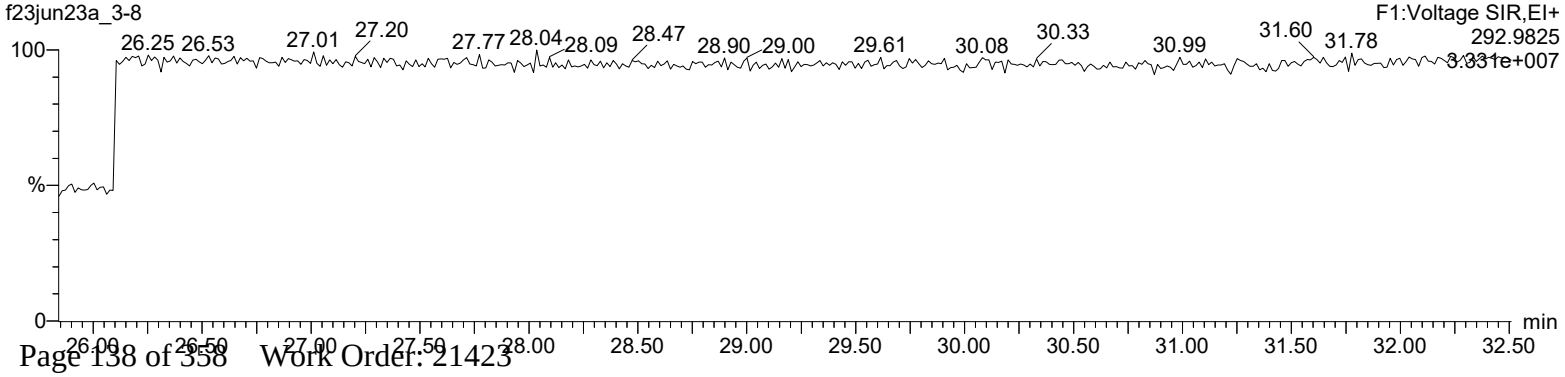
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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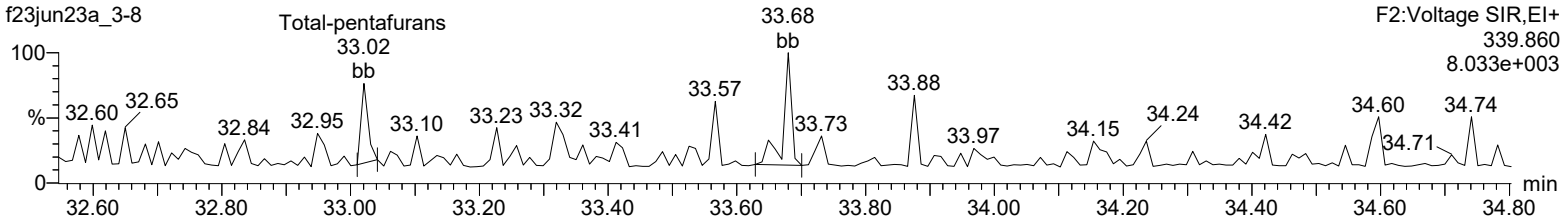
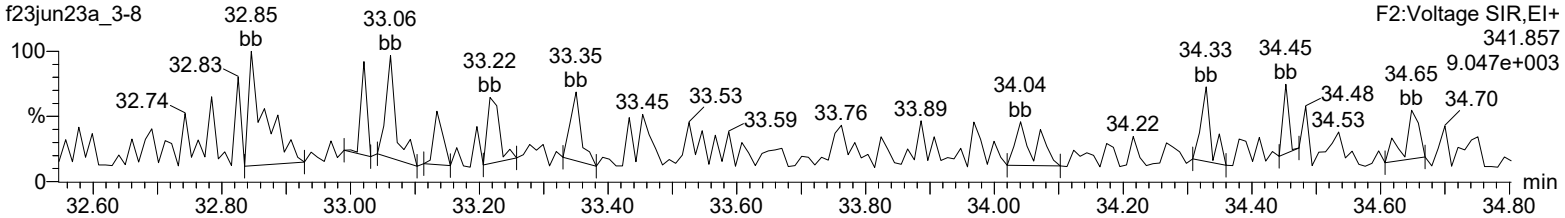
Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

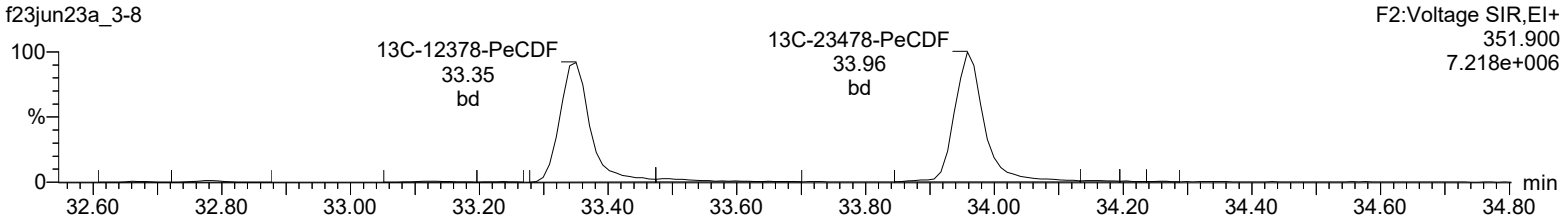
Total-pentafurans



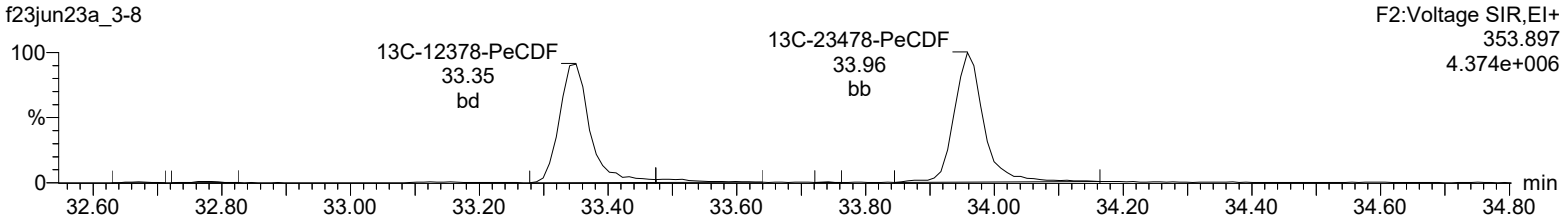
Total-pentafurans



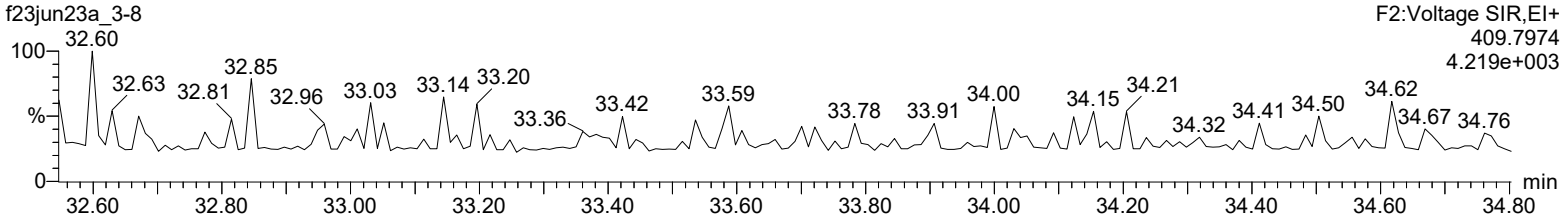
13C-12378-PeCDF



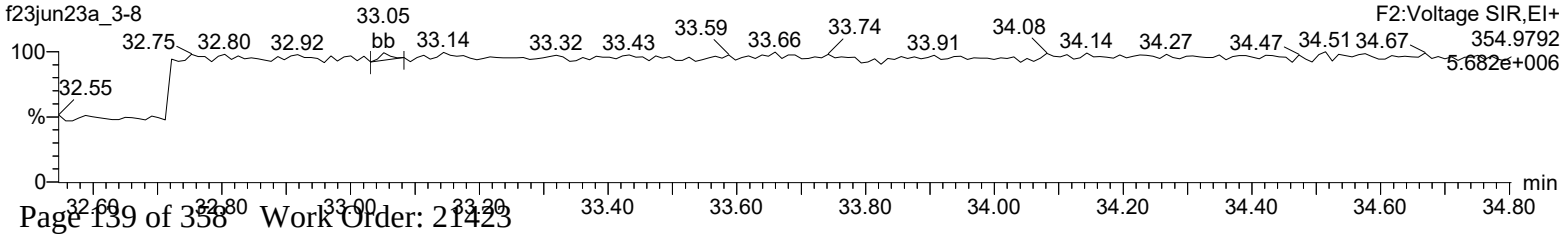
13C-12378-PeCDF



HpDPE



Lock Mass F2



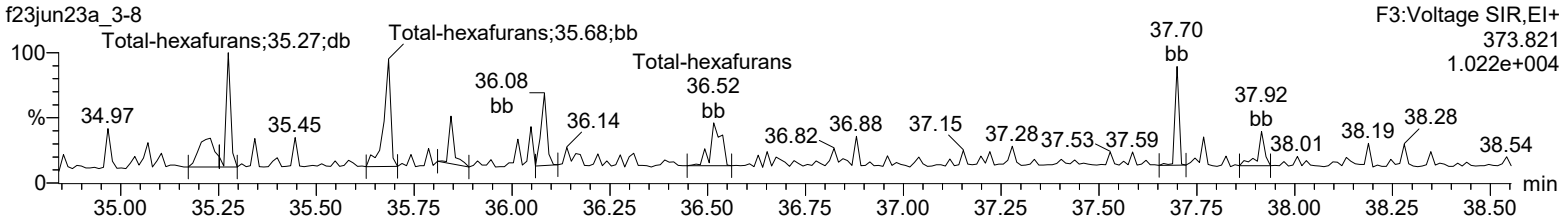
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

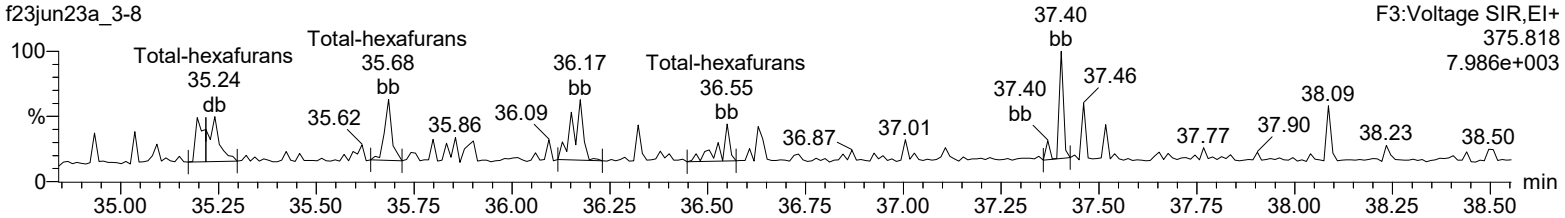
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

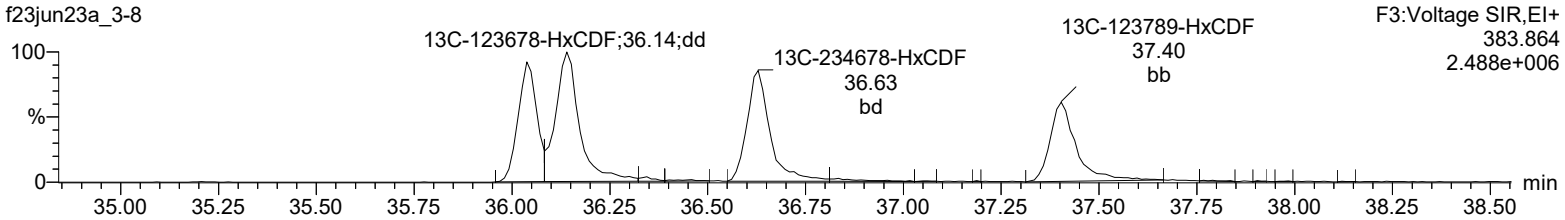
Total-hexafurans



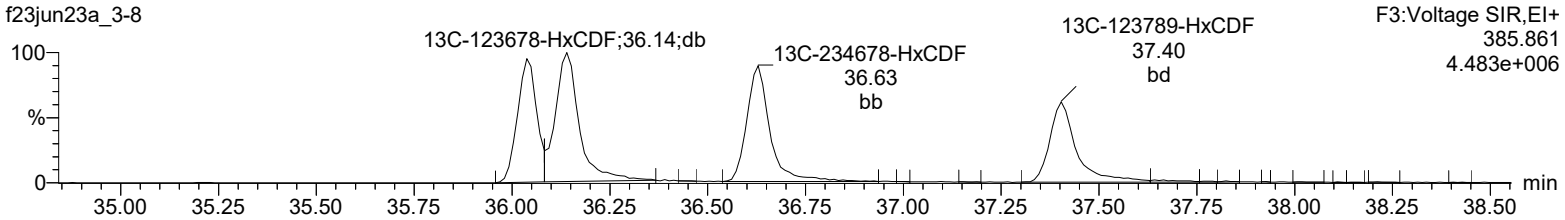
Total-hexafurans



13C-123478-HxCDF



13C-123478-HxCDF



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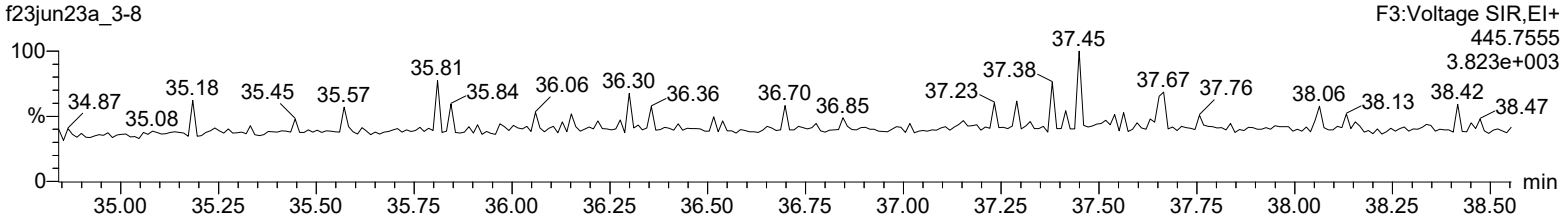
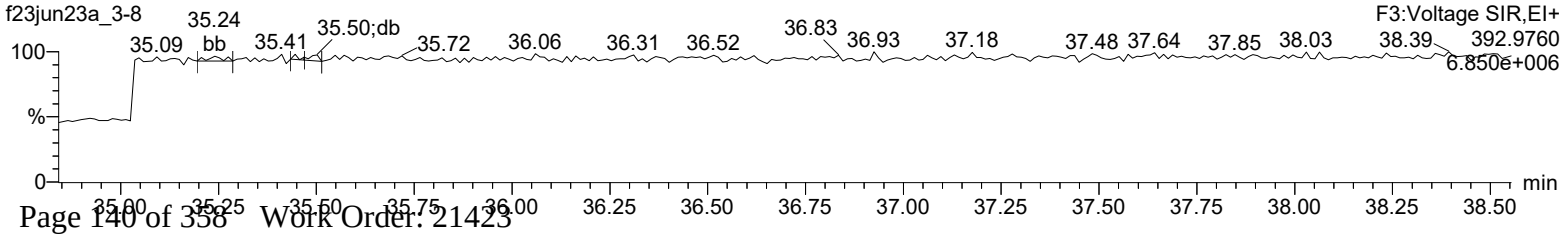


Lock Mass F3



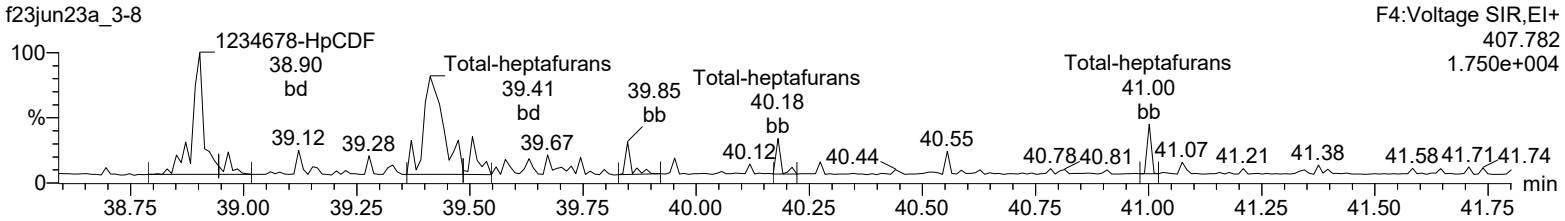
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

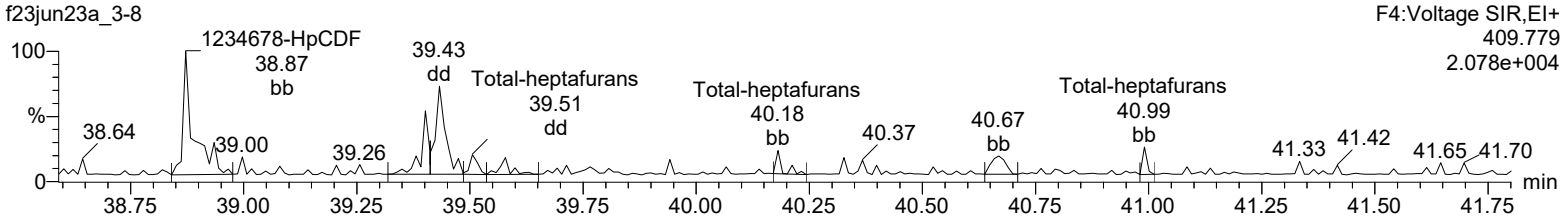
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

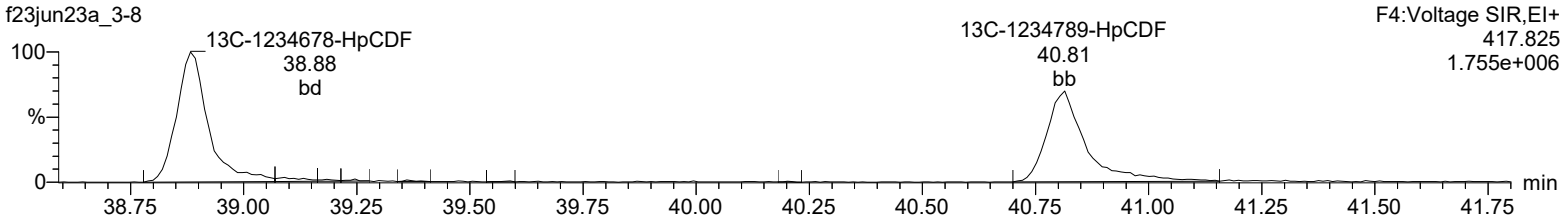
Total-heptafurans



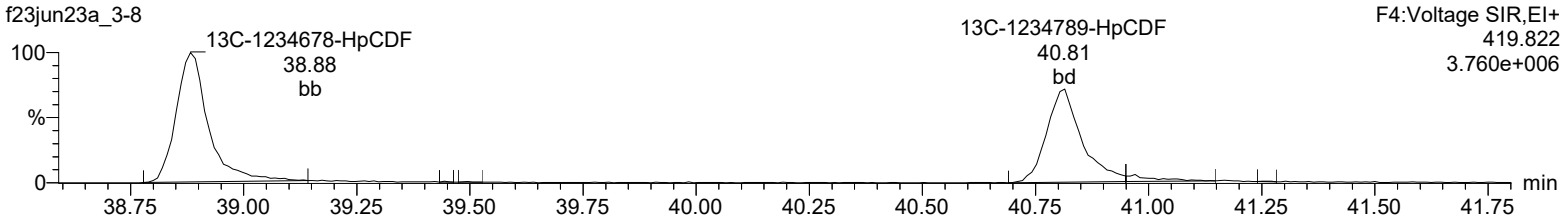
Total-heptafurans



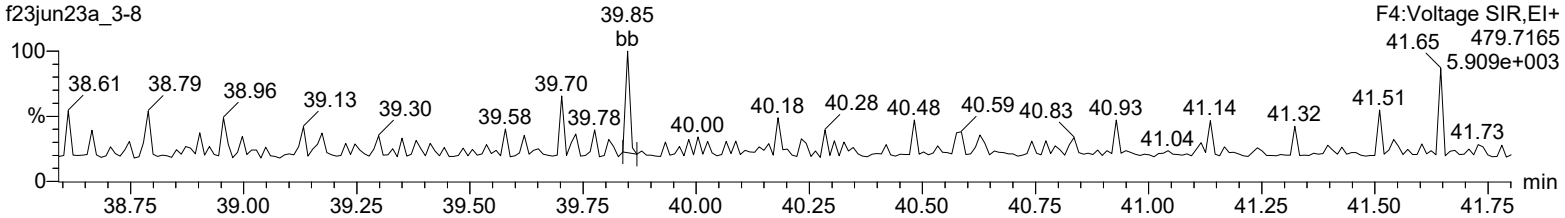
13C-1234678-HpCDF



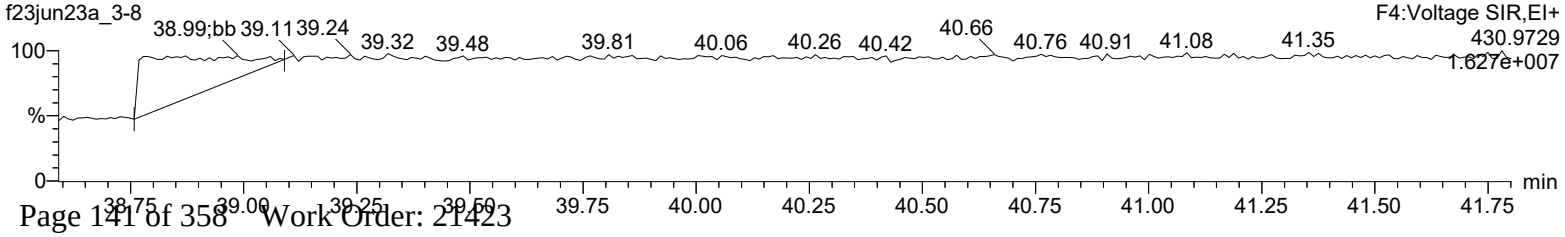
13C-1234678-HpCDF



NoDPE



Lock Mass F4



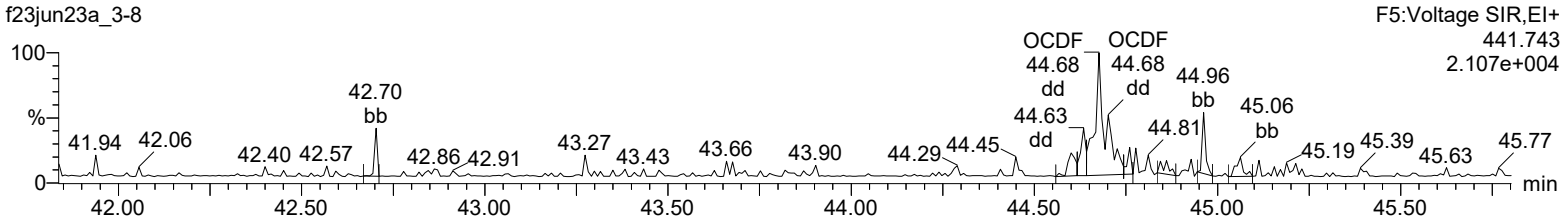
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

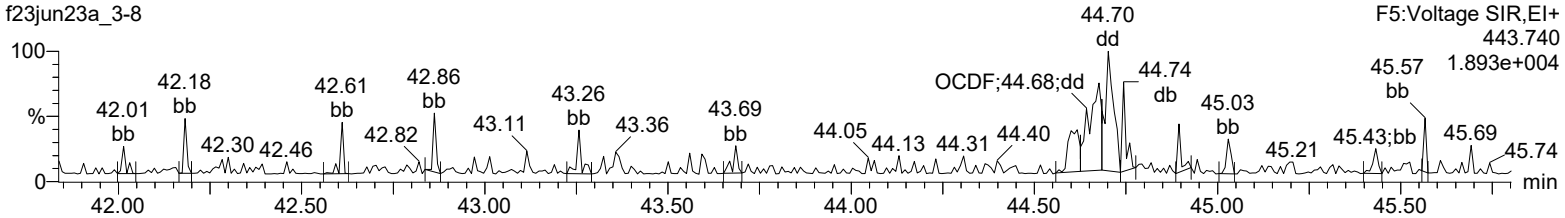
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-8, Date: 24-Jun-2023, Time: 14:29:57, ID: 21423005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

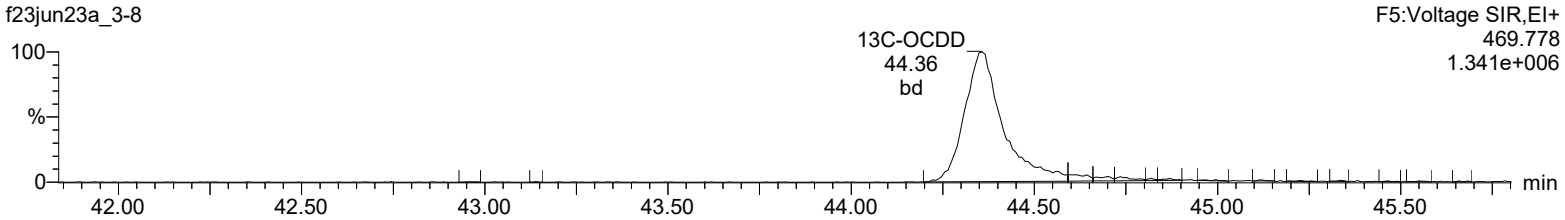
OCDF



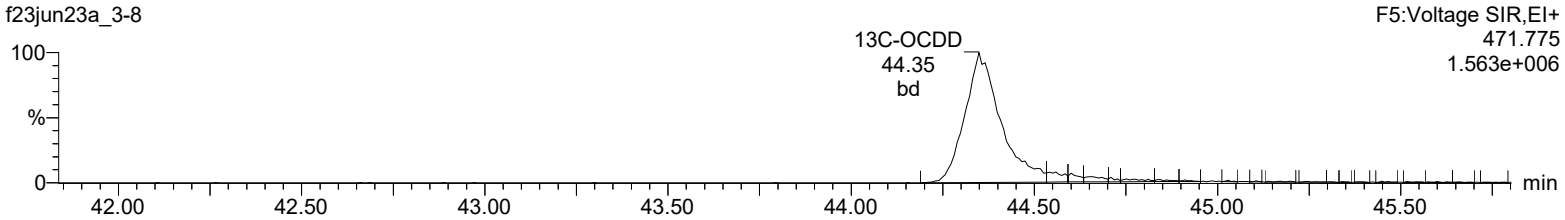
OCDF



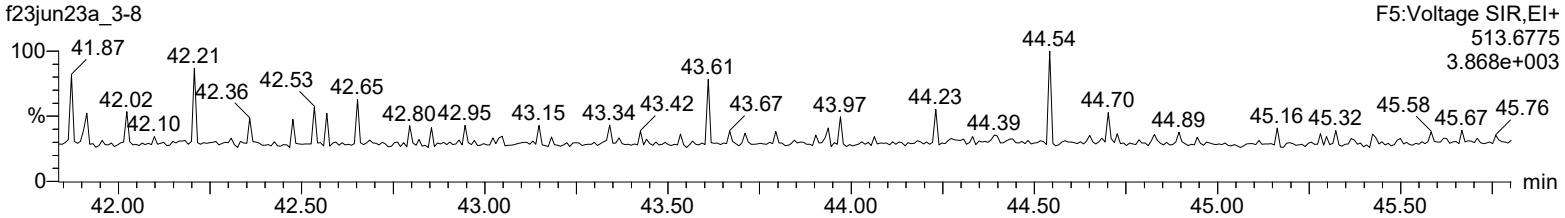
13C-OCDD



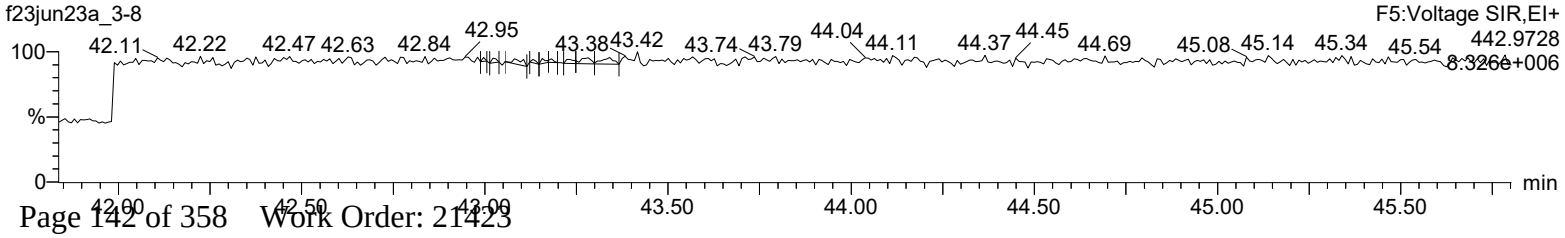
13C-OCDD



DeDPE



Lock Mass F5



Quality Control Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.52	pg/L	3.52	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	2.92	pg/L	2.92	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	6.74	pg/L	6.74	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	6.96	pg/L	6.96	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	6.86	pg/L	6.86	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	9.06	pg/L	9.06	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	J	12.1	pg/L	8.88	100
51207-31-9	2,3,7,8-TCDF	U	2.84	pg/L	2.84	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.46	pg/L	2.46	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.38	pg/L	2.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.38	pg/L	1.38	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.39	pg/L	1.39	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.49	pg/L	1.49	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.64	pg/L	2.64	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.50	pg/L	2.50	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.44	pg/L	3.44	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.96	pg/L	4.96	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.52	pg/L	3.52	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.92	pg/L	2.92	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	6.74	pg/L	6.74	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.84	pg/L	2.84	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	9.06	pg/L	9.06	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	2.38	pg/L	2.38	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.38	pg/L	1.38	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	2.50	pg/L	2.50	50.0
TEQ	TEQ WHO2005 ND=0		0.00362	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		5.21	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1070	2000	pg/L	53.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1130	2000	pg/L	56.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1240	2000	pg/L	62.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1180	2000	pg/L	58.8	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1160	2000	pg/L	57.8	(23%-140%)
13C-OCDD		2000	4000	pg/L	50.0	(17%-157%)
13C-2,3,7,8-TCDF		1050	2000	pg/L	52.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		985	2000	pg/L	49.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1090	2000	pg/L	54.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1220	2000	pg/L	61.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1210	2000	pg/L	60.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1250	2000	pg/L	62.4	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1060	2000	pg/L	53.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1220	2000	pg/L	60.8	(26%-138%)
37Cl-2,3,7,8-TCDD		147	200	pg/L	73.7	(35%-197%)

Comments:

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.176		904			508			
2	12378-PeCDD							NO		0.146		868			448			
3	123478-HxCDD							NO		0.337		1509			644			
4	123678-HxCDD							NO		0.348		1509			644			
5	123789-HxCDD							NO		0.343		1509			644			
6	1234678-HpCDD							NO		0.453		995			919			
7	OCDD	1.57e2	1.84e2	3.41e2	44.41	1.001	0.85	NO	0.604	0.444	3.12e3	460	6.8	3.27e3	504	6.5	MM	MM
8	2378-TCDF							NO		0.142		669			943			
9	12378-PeCDF							NO		0.123		873			1685			
10	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	1.000	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb
11	123478-HxCDF							NO		0.0692		619			333			
12	123678-HxCDF							NO		0.0695		619			333			
13	234678-HxCDF							NO		0.0746		619			333			
14	123789-HxCDF							NO		0.132		619			333			
15	1234678-HpCDF							NO		0.125		932			344			
16	1234789-HpCDF							NO		0.172		932			344			
17	OCDF							NO		0.248		253			597			
18	13C-2378-TCDD	5.85e4	7.41e4	1.33e5	31.28	1.017	0.79	NO	53.469	0.381	8.05e5	2672	301.2	1.11e6	2032	547.1	bb	bd
19	13C-12378-PeCDD	6.23e4	3.77e4	1.00e5	34.15	1.110	1.65	NO	56.501	0.456	1.20e6	1748	687.9	7.54e5	2274	331.6	bd	bd
20	13C-123478-HxCDD	4.64e4	3.59e4	8.22e4	36.76	0.991	1.29	NO	62.121	1.44	8.40e5	5580	150.6	6.53e5	4888	133.5	bd	bd
21	13C-123678-HxCDD	5.23e4	4.20e4	9.43e4	36.85	0.994	1.25	NO	58.773	1.19	8.06e5	5580	144.5	6.19e5	4888	126.7	dd	dd
22	13C-1234678-HpCDD	3.78e4	3.46e4	7.23e4	40.14	1.082	1.09	NO	57.820	1.25	4.49e5	4410	101.8	4.13e5	4186	98.7	bd	bd
23	13C-OCDD	4.72e4	5.48e4	1.02e5	44.35	1.196	0.86	NO	100.034	1.09	4.54e5	2238	202.8	5.00e5	3890	128.7	bd	bd
24	13C-2378-TCDF	9.12e4	1.08e5	1.99e5	30.56	0.993	0.85	NO	52.630	0.179	9.65e5	1856	520.3	1.21e6	1515	796.8	bd	bb
25	13C-12378-PeCDF	1.13e5	7.09e4	1.84e5	33.35	1.084	1.60	NO	49.242	0.989	2.52e6	11632	216.3	1.38e6	6819	202.0	bb	bd
26	13C-23478-PeCDF	1.19e5	7.34e4	1.92e5	33.96	1.104	1.62	NO	54.486	1.05	2.39e6	11632	205.4	1.48e6	6819	216.9	bb	dd
27	13C-123478-HxCDF	4.25e4	8.04e4	1.23e5	36.04	0.972	0.53	NO	60.950	1.43	8.39e5	7767	108.0	1.49e6	8102	183.4	bd	bd
28	13C-123678-HxCDF	5.15e4	1.00e5	1.52e5	36.14	0.975	0.51	NO	60.707	1.15	8.44e5	7767	108.7	1.58e6	8102	195.3	dd	db
29	13C-234678-HxCDF	4.51e4	8.53e4	1.30e5	36.63	0.988	0.53	NO	62.400	1.38	7.77e5	7767	100.0	1.48e6	8102	182.6	bd	bb
30	13C-123789-HxCDF	3.33e4	6.56e4	9.89e4	37.40	1.009	0.51	NO	53.224	1.55	4.67e5	7767	60.1	9.56e5	8102	118.0	bd	dd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	4.20e4	9.20e4	1.34e5	38.88	1.048	0.46	NO	55.803	1.01	5.77e5	7111	81.1	1.17e6	6180	189.4	bd	bd
32	13C-1234789-HpCDF	3.51e4	7.86e4	1.14e5	40.81	1.101	0.45	NO	60.788	1.29	4.21e5	7111	59.2	8.37e5	6180	135.5	bd	bd
33	13C-1234-TCDD	9.86e4	1.19e5	2.18e5	30.77	0.000	0.83	NO	100.000	0.434	1.23e6	2672	459.9	1.51e6	2032	740.6	bb	bd
34	13C-123789-HxCDD	8.83e4	6.79e4	1.56e5	37.08	0.000	1.30	NO	100.000	1.22	1.22e6	5580	217.8	9.65e5	4888	197.5	dd	dd
35	37Cl-2378-TCDD	1.80e4		1.80e4	31.30	1.017			7.373	0.0974	2.92e5	1188	246.2				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
7 OCDD 44.41 - AB	7 OCDD 44.41 - AB
10 23478-PeCDF 33.96 - AB	

Reason Codes assigned by SM1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.47e1	8.95e1	1.44e2	32.04	0.61	YES	0.054	0.142	2.78e3	669	4.2	3.79e3	943	4.0	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

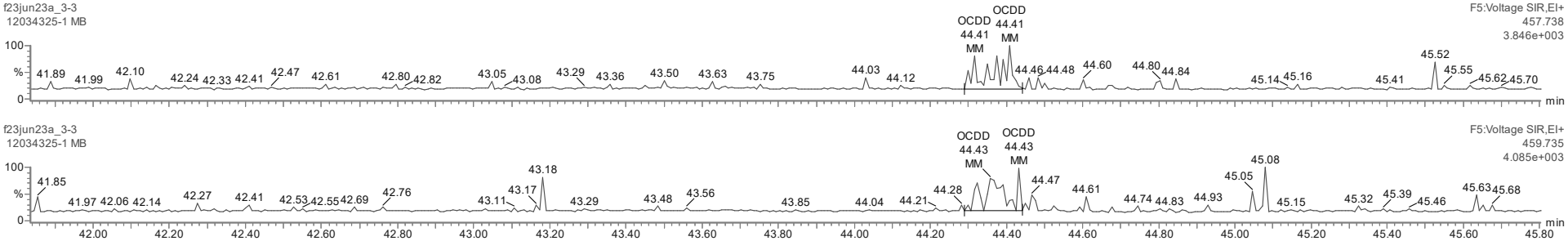
Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
1 23478-PeCDF 33.96 - AB	

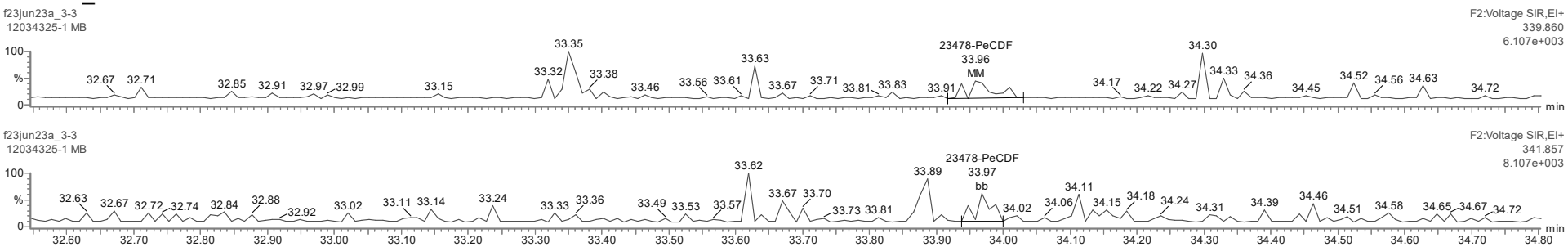
Reason Codes assigned by SM1 on 28-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

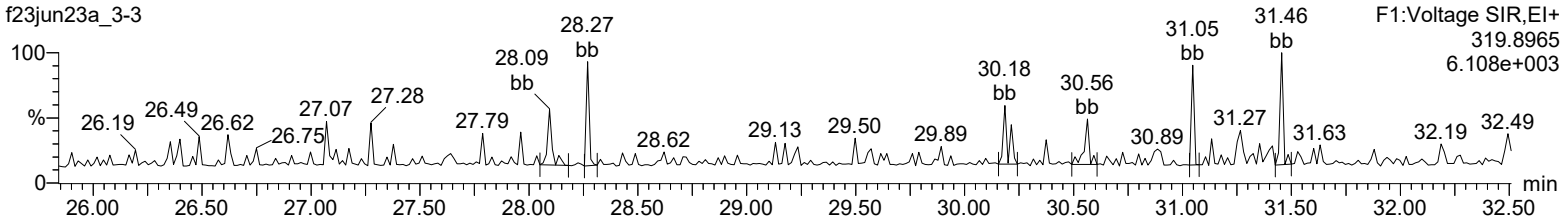
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

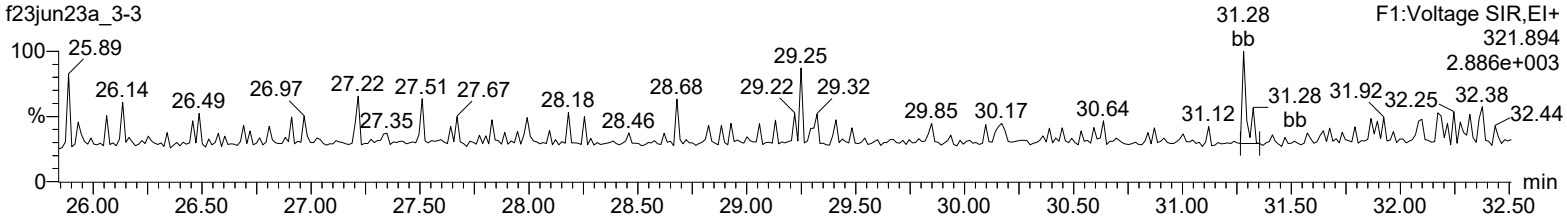
06/28/2023

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

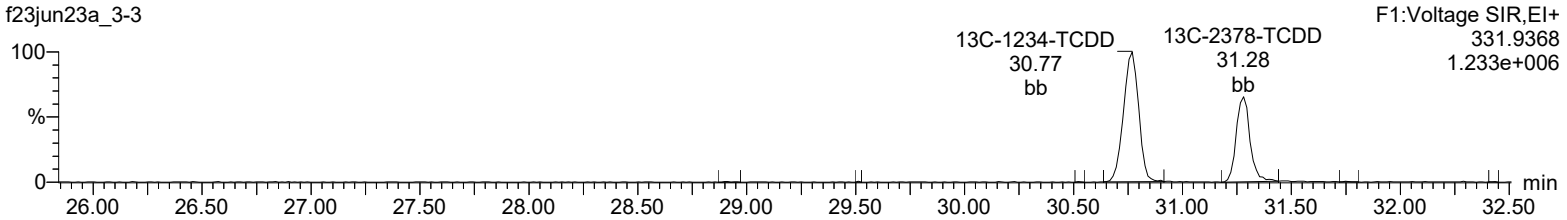
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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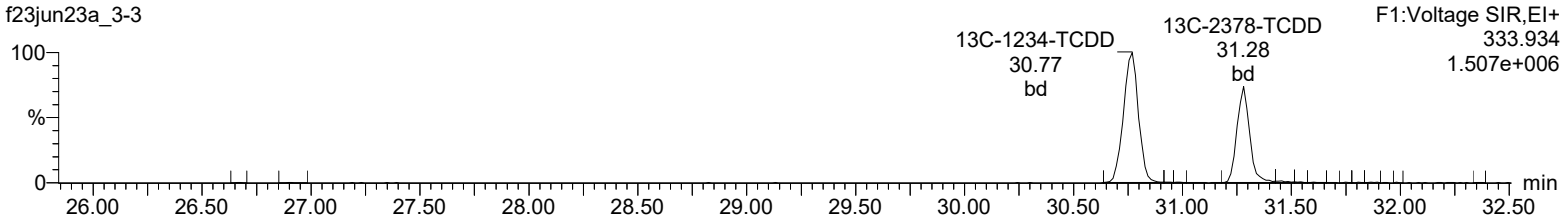

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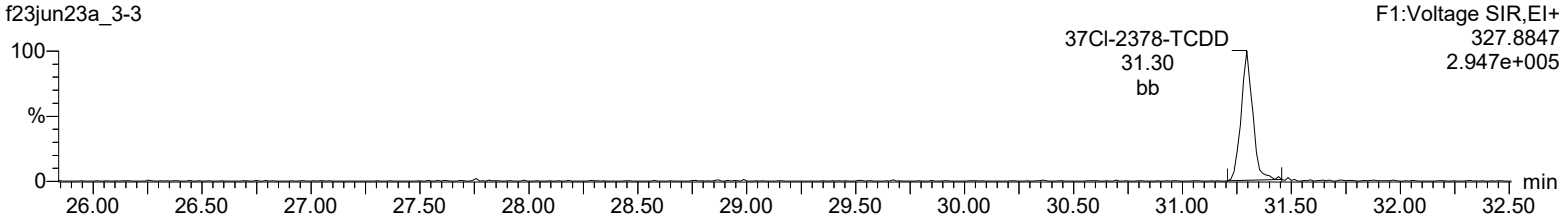
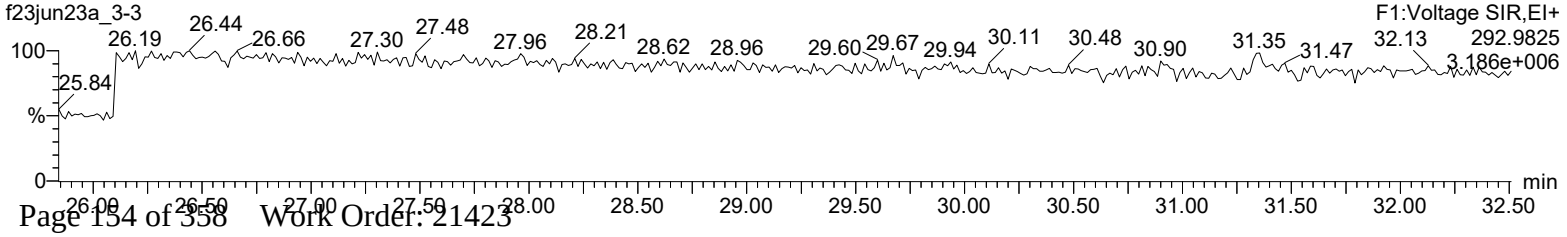


Lock Mass F1



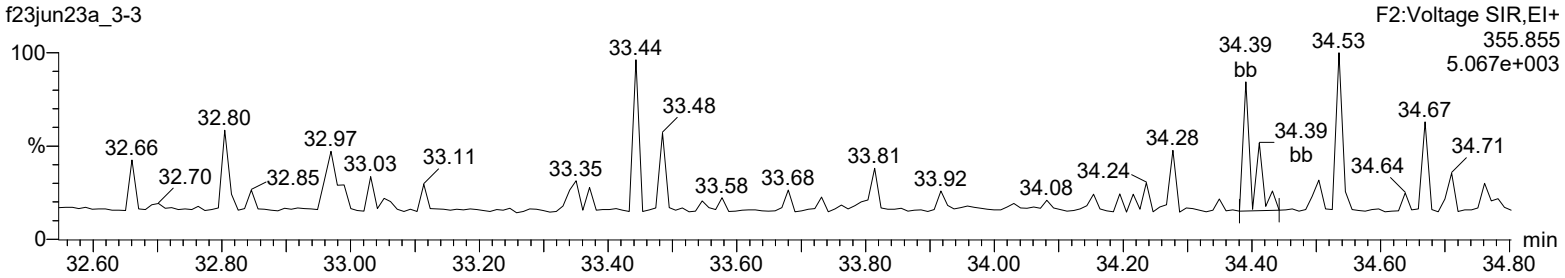
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

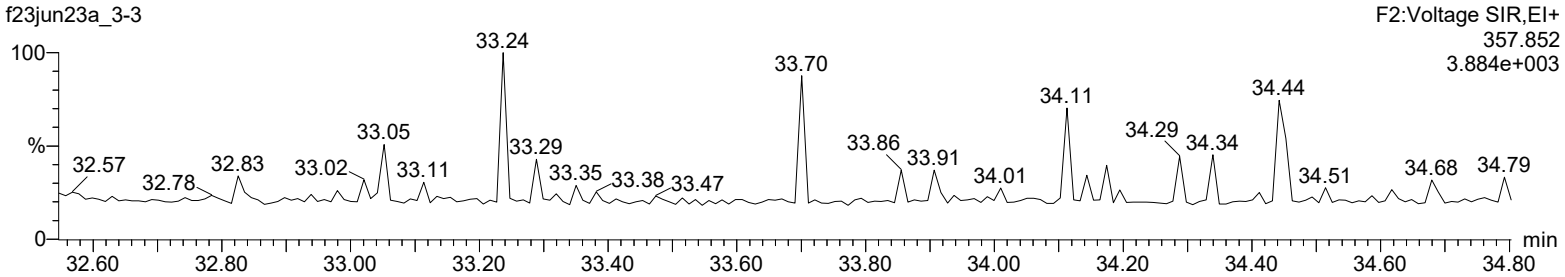
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

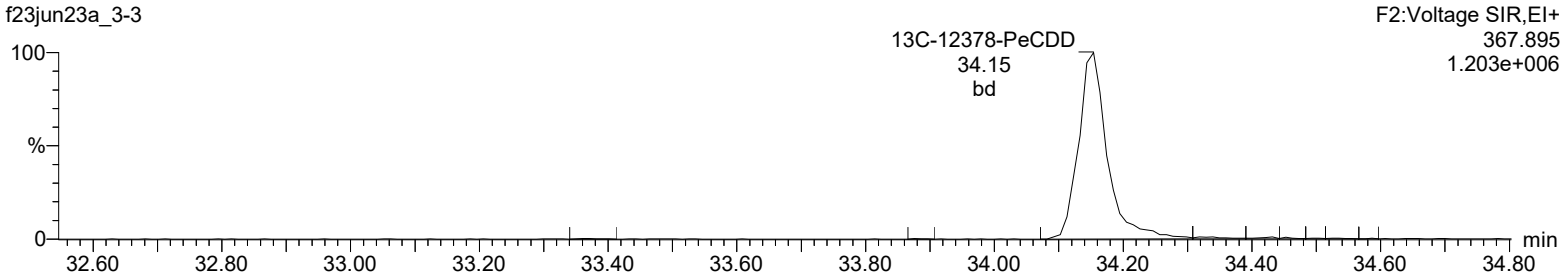
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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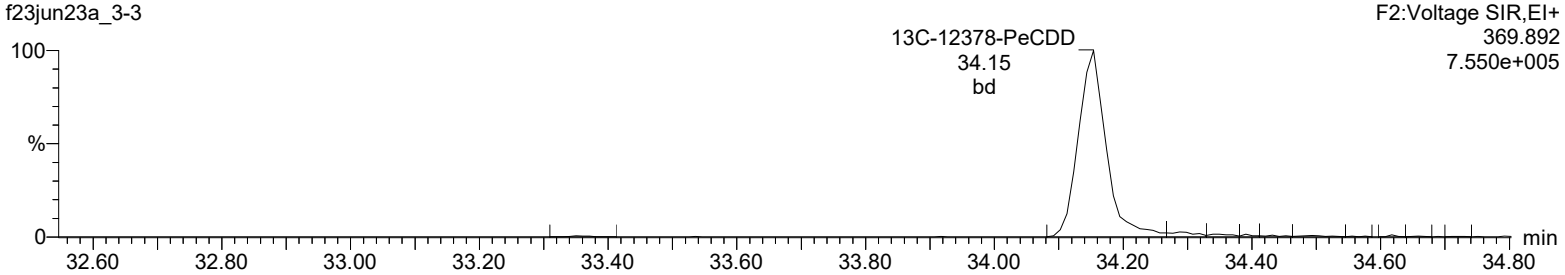
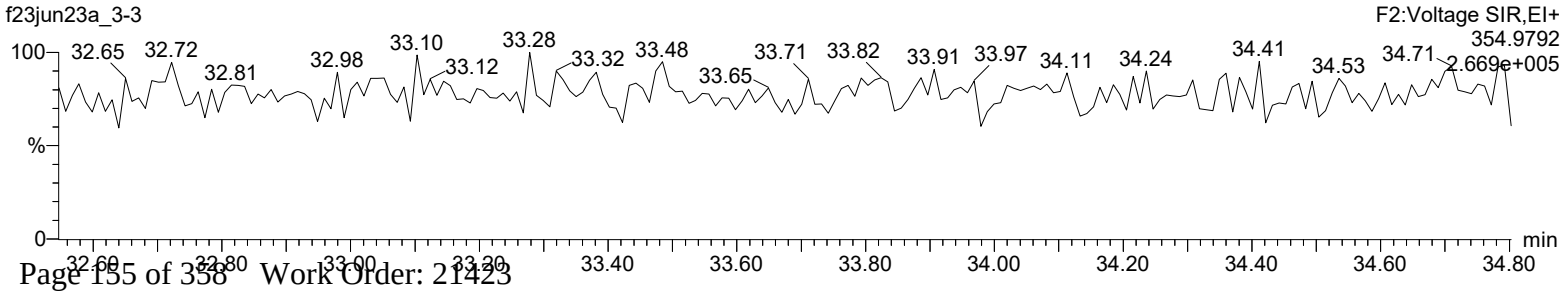


Lock Mass F2



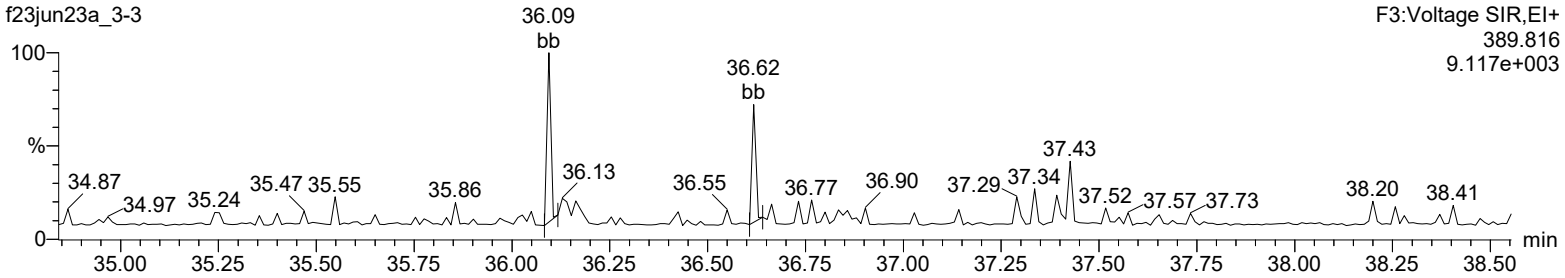
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

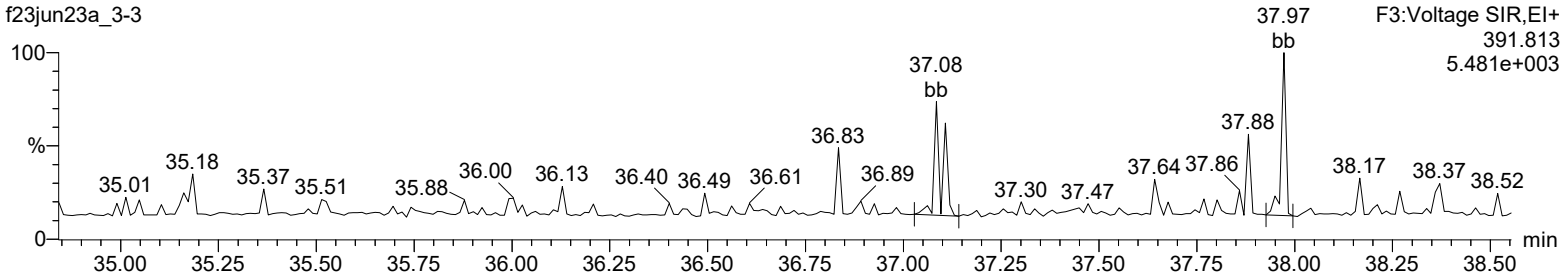
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

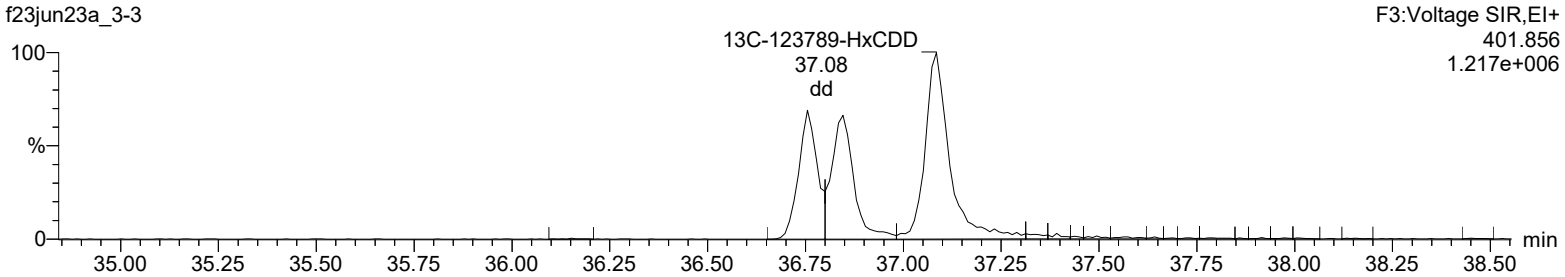
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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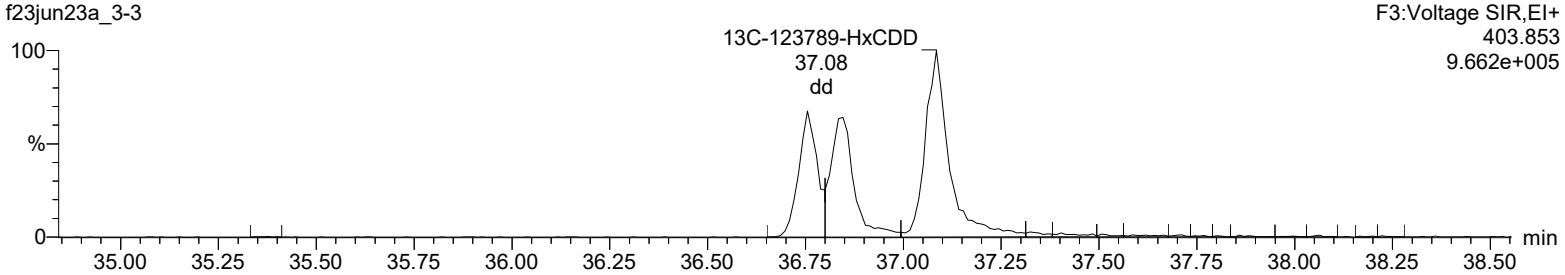
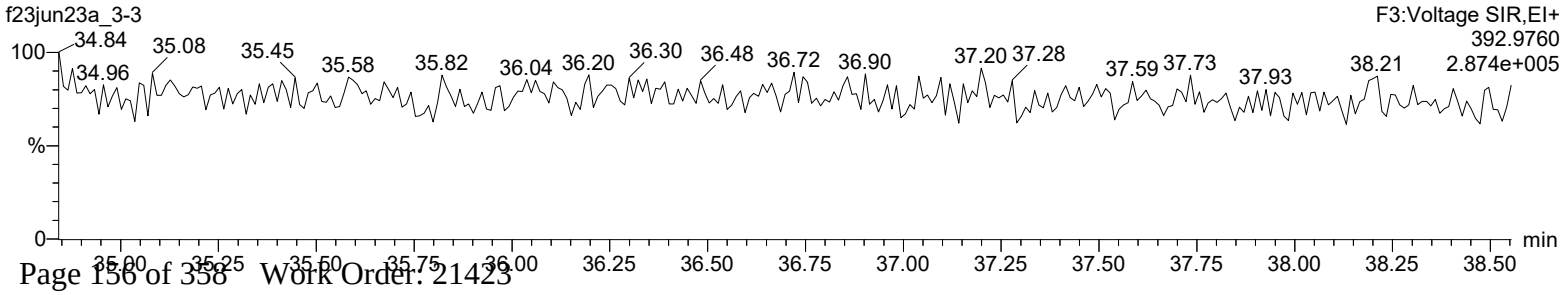


Lock Mass F3



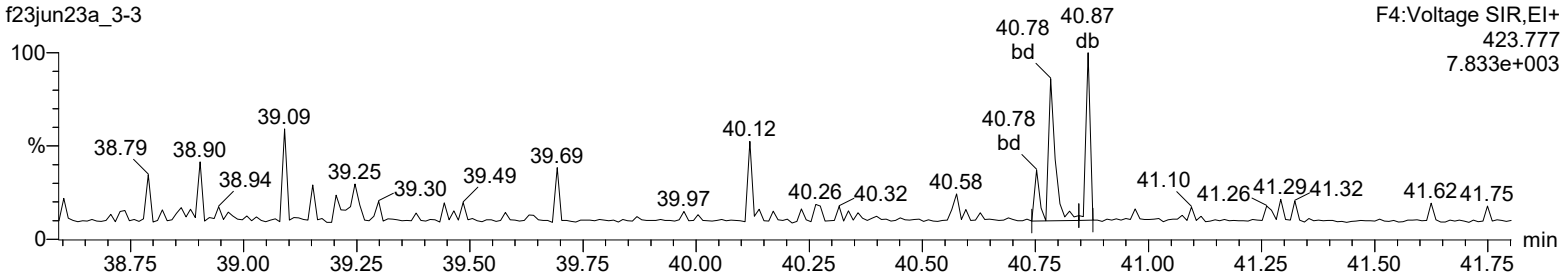
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

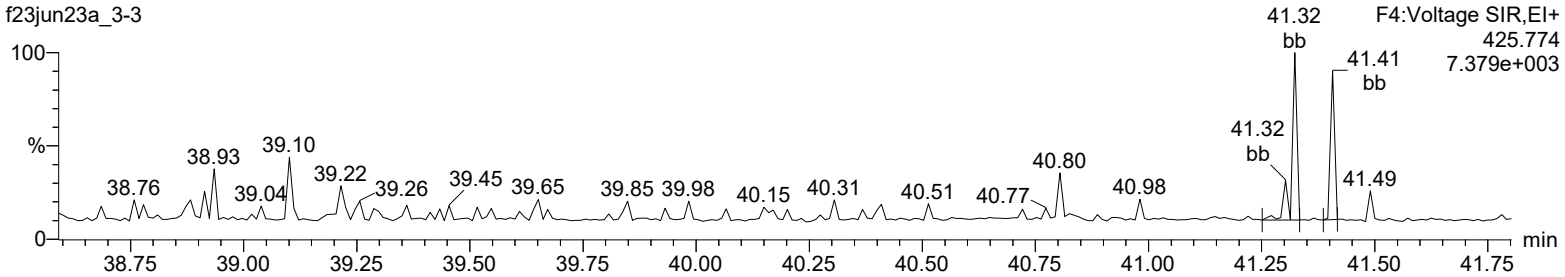
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

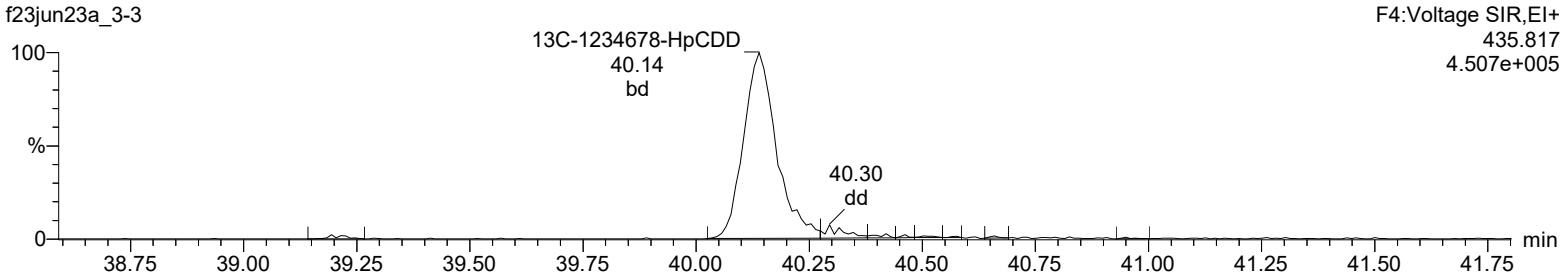
Total-heptadioxins



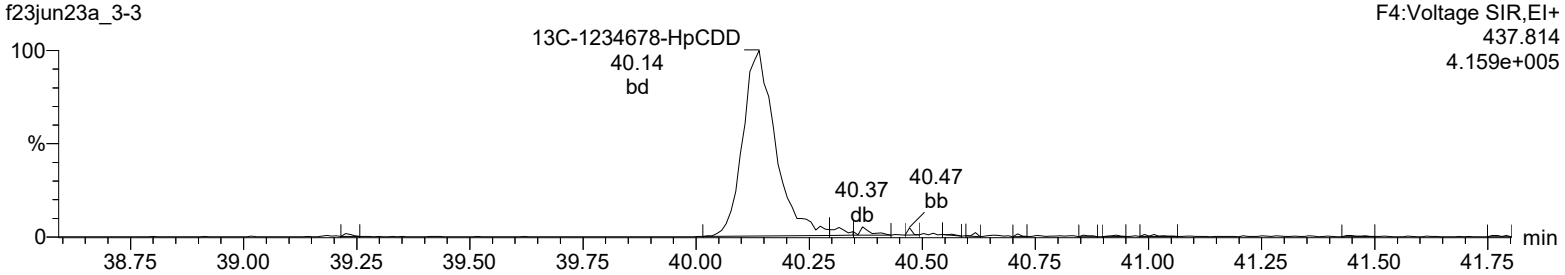
Total-heptadioxins



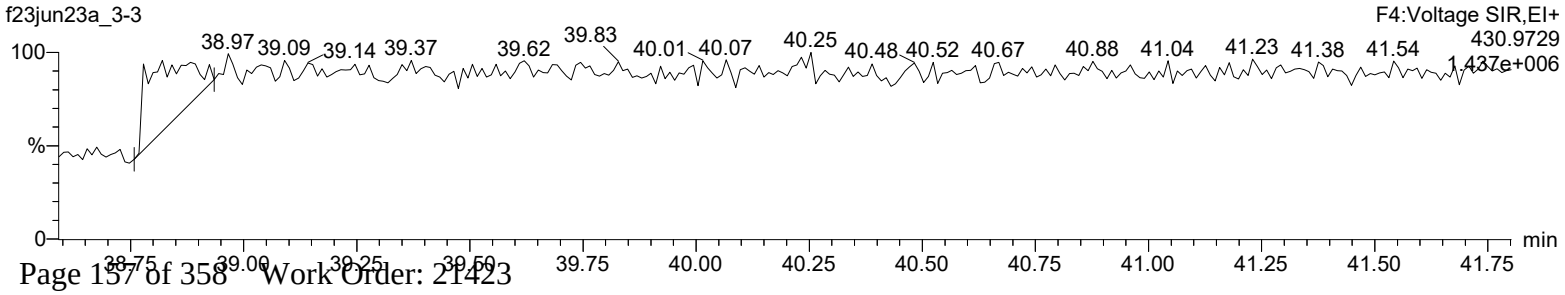
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



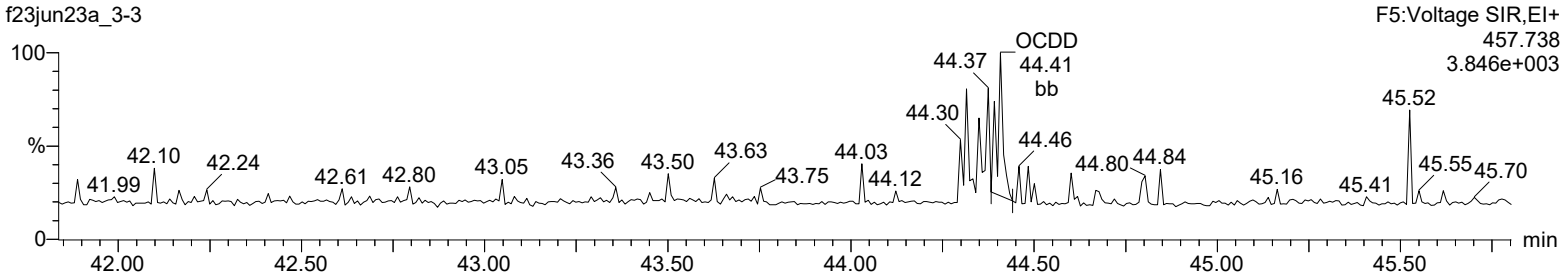
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

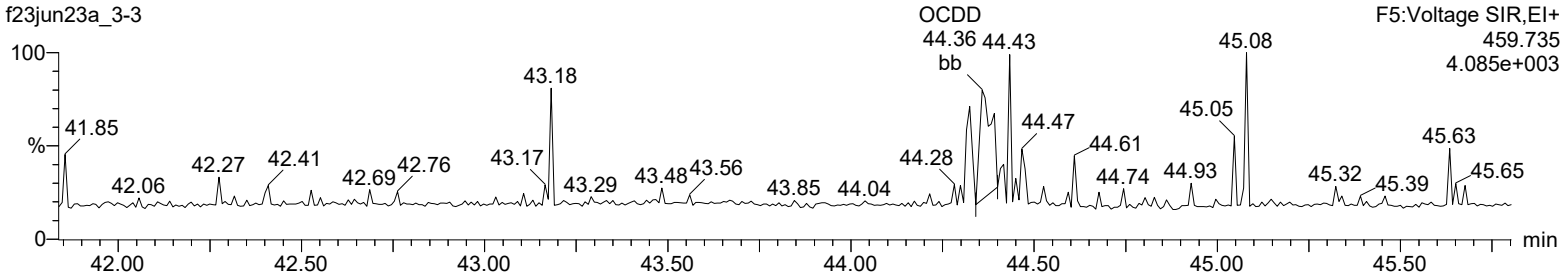
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

OCDD



OCDD



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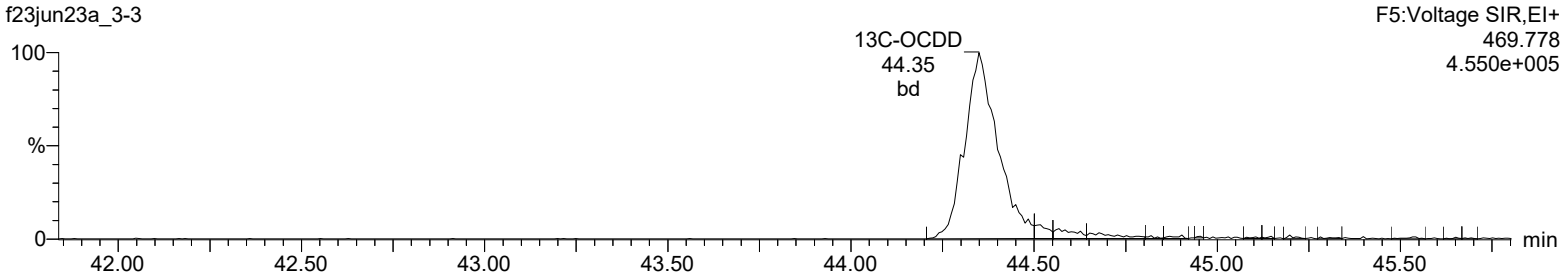

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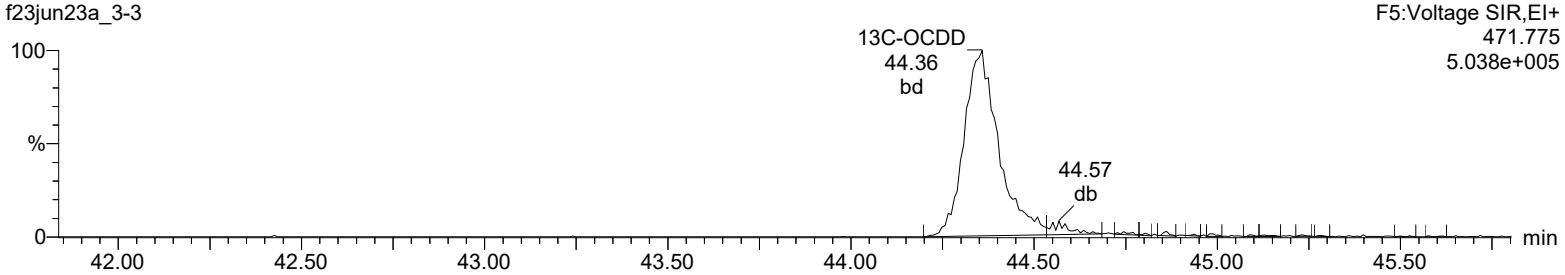
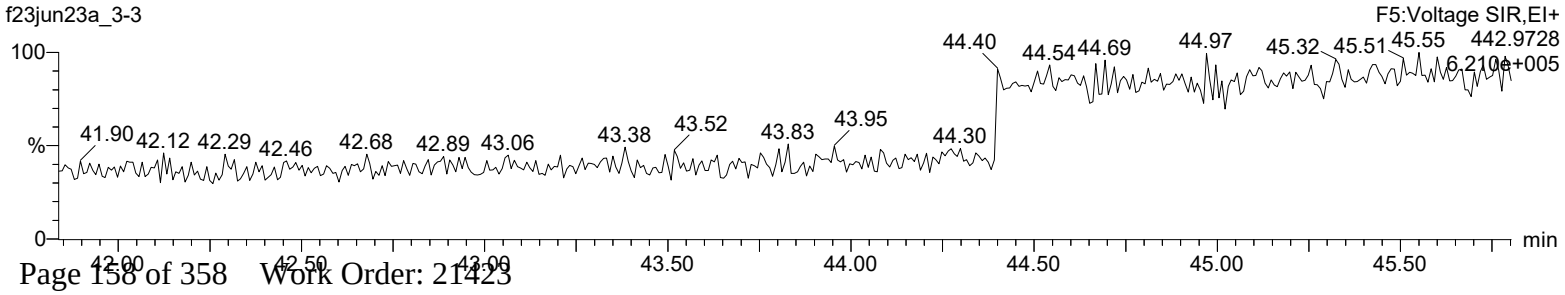


Lock Mass F5



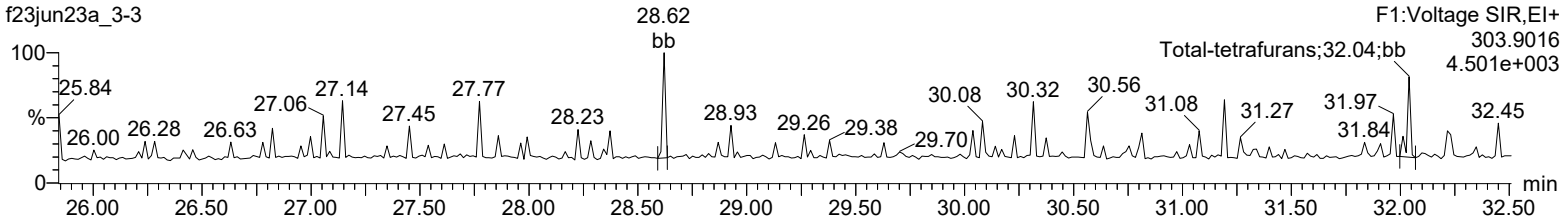
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

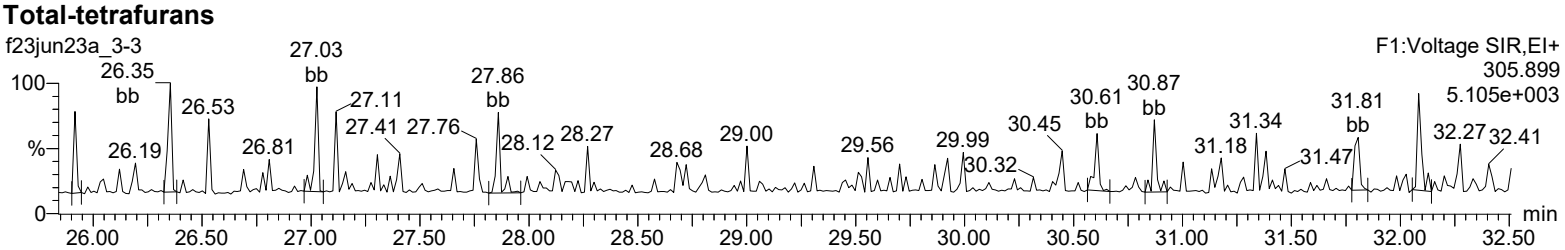
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

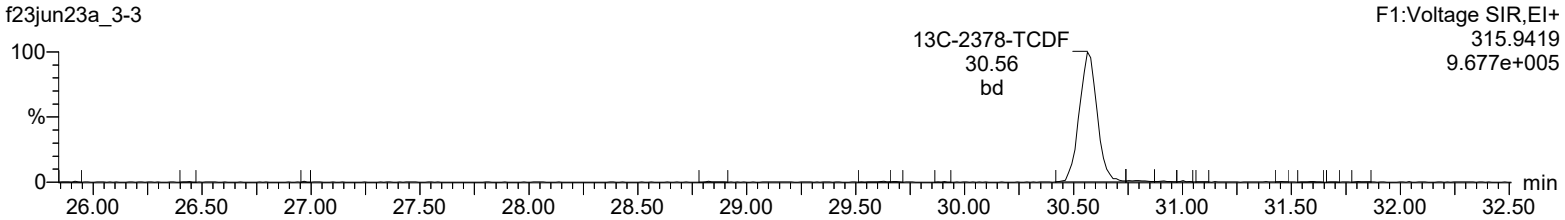
Total-tetrafurans



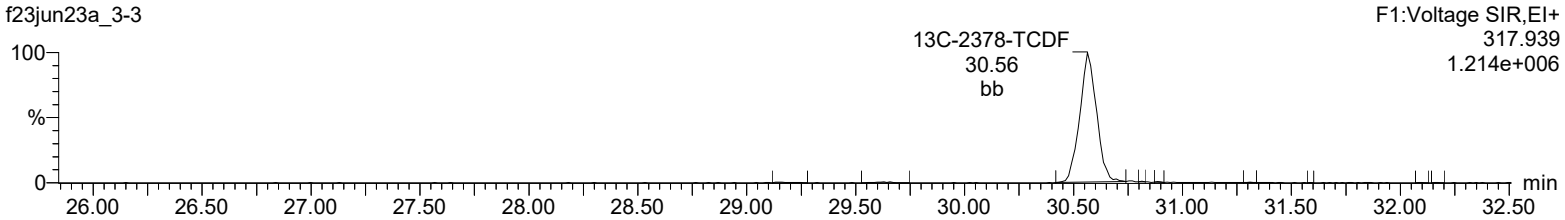
Total-tetrafurans



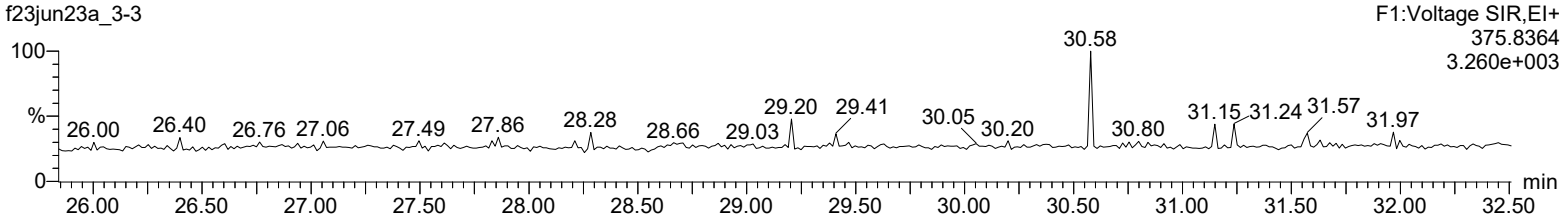
13C-2378-TCDF



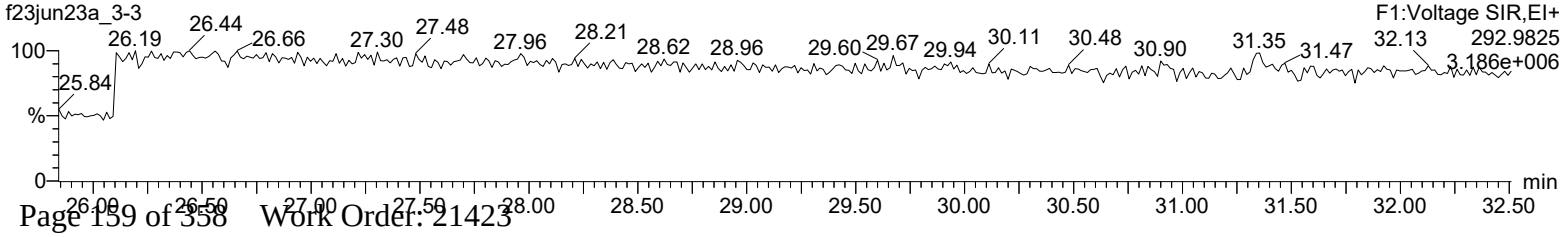
13C-2378-TCDF



HxDPE



Lock Mass F1



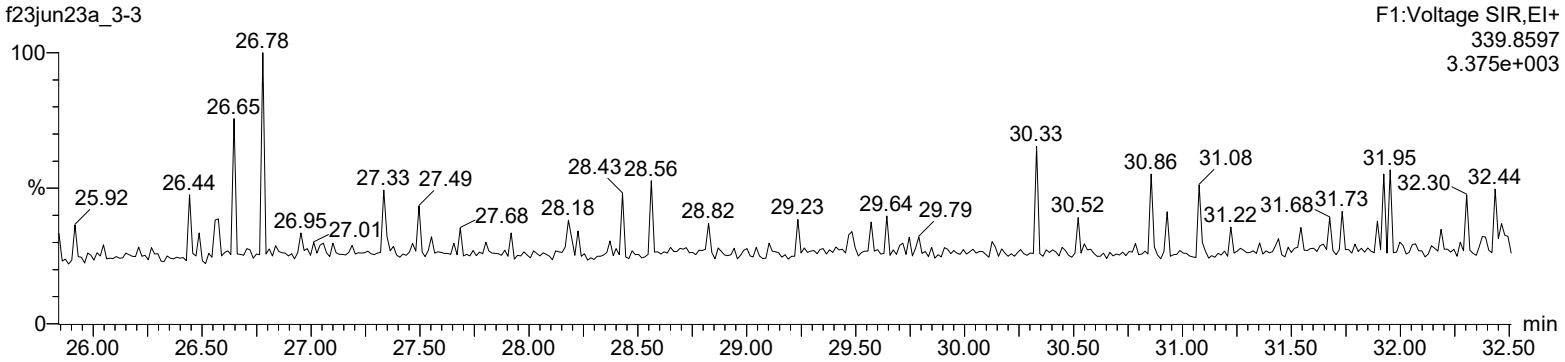
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

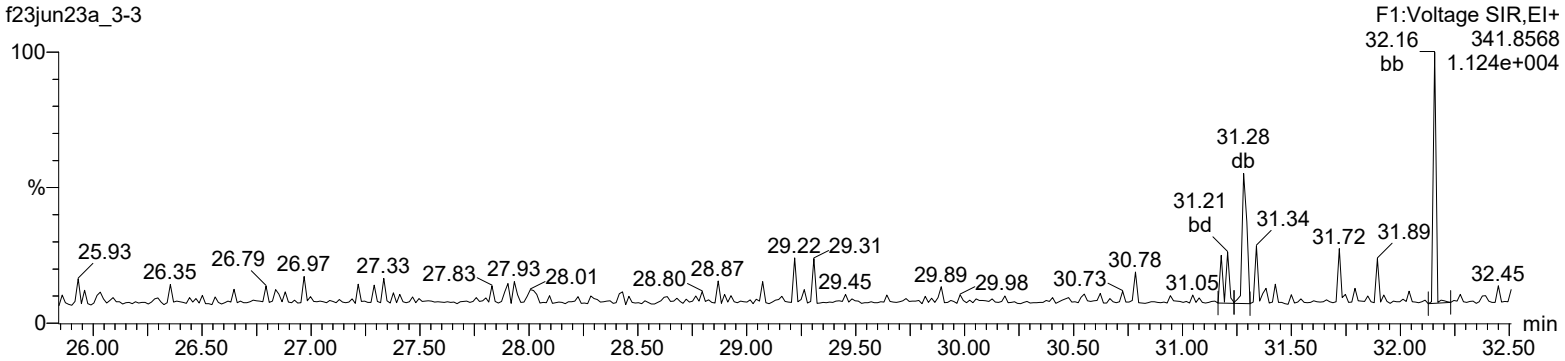
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

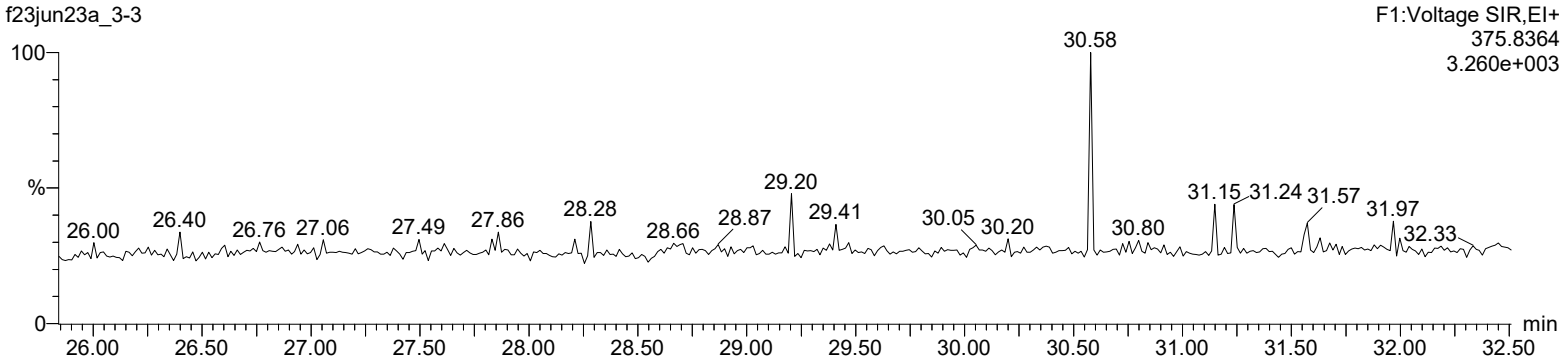
Total-pentafurans (F1)



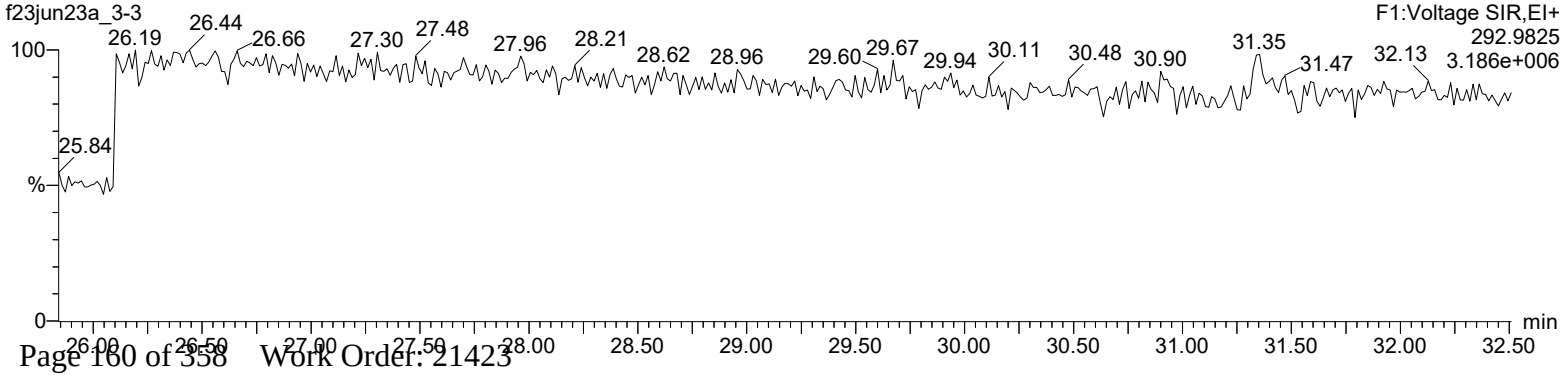
Total-pentafurans (F1)



HxDPE



Lock Mass F1



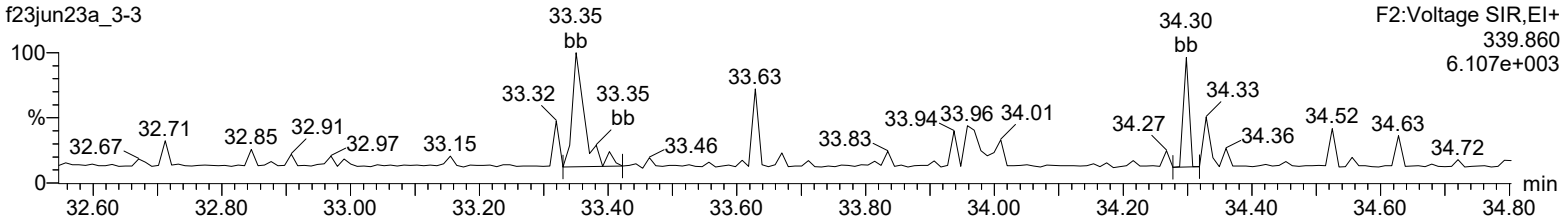
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

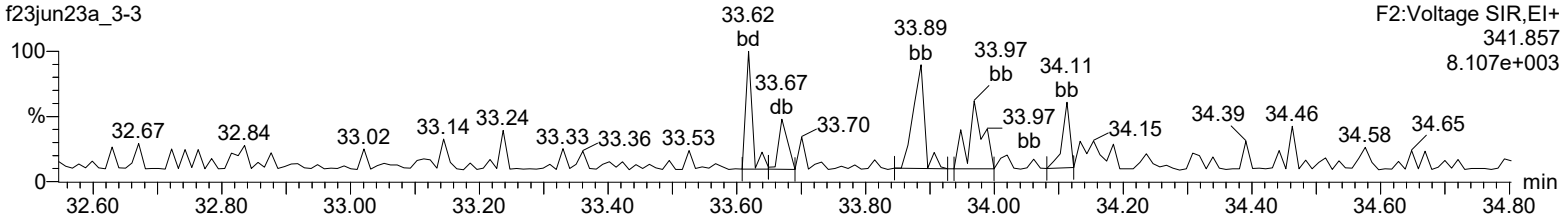
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

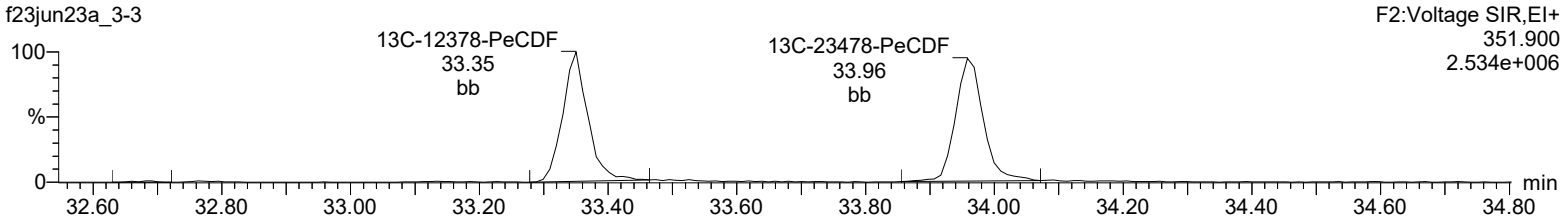
Total-pentafurans



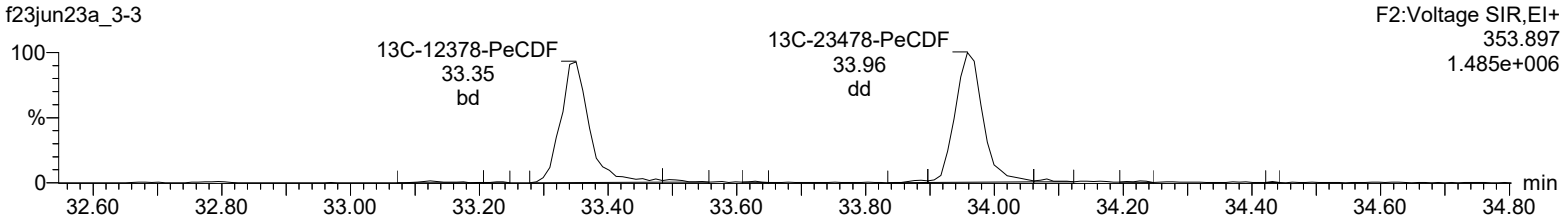
Total-pentafurans



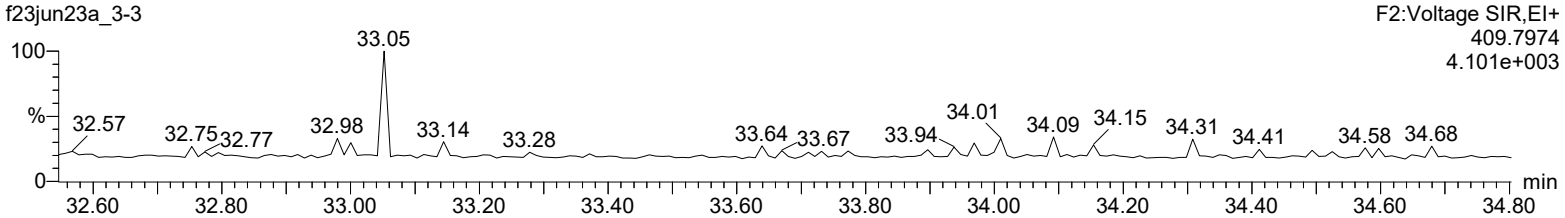
13C-12378-PeCDF



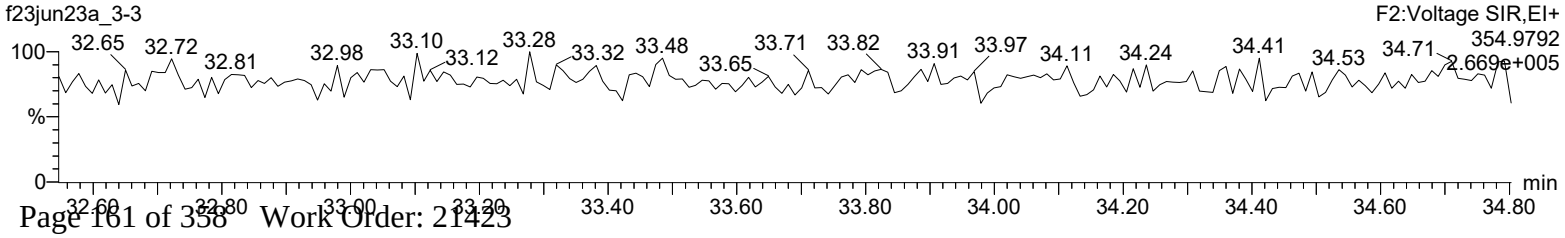
13C-12378-PeCDF



HpDPE



Lock Mass F2



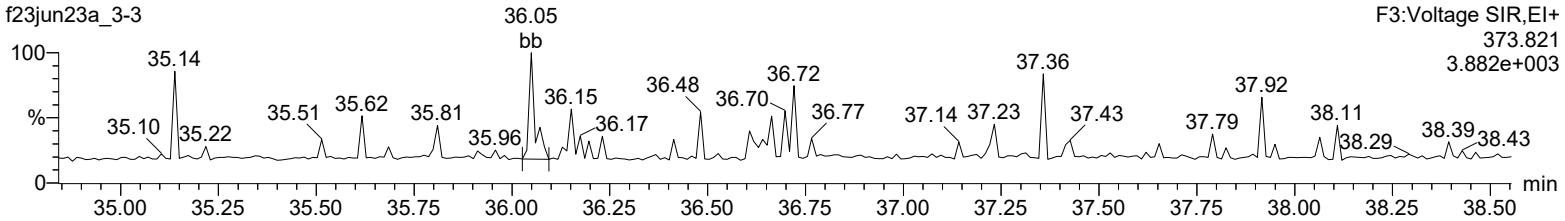
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

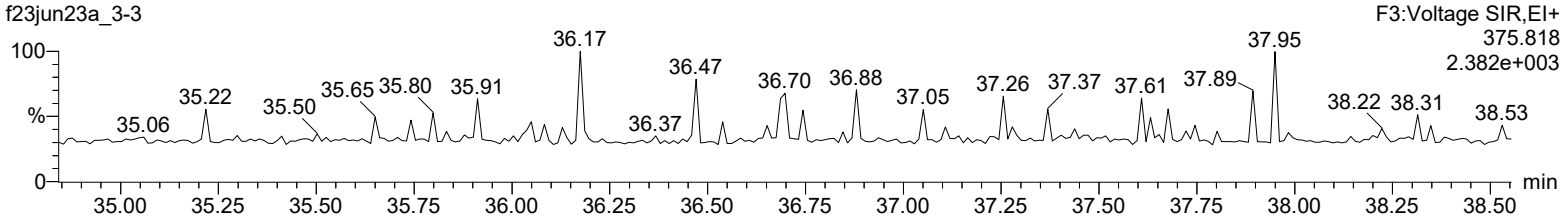
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

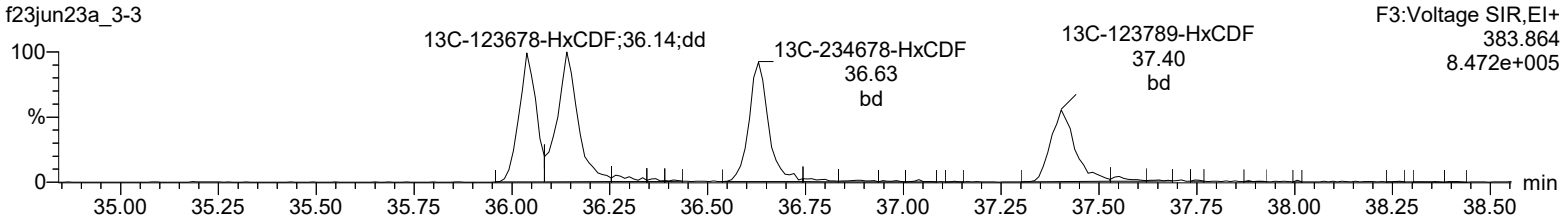
Total-hexafurans



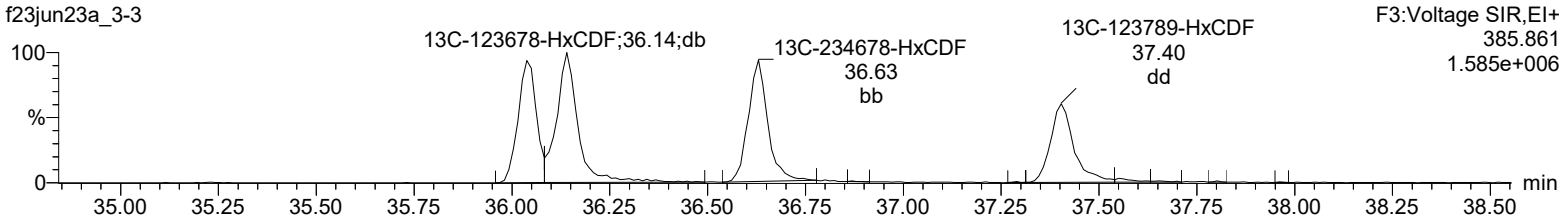
Total-hexafurans



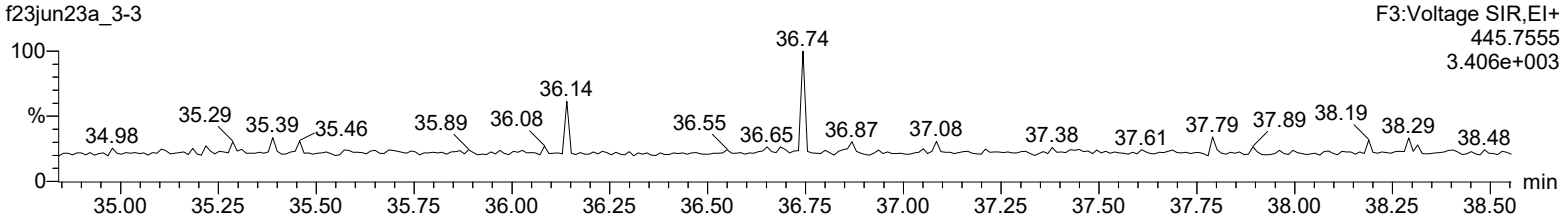
13C-123478-HxCDF



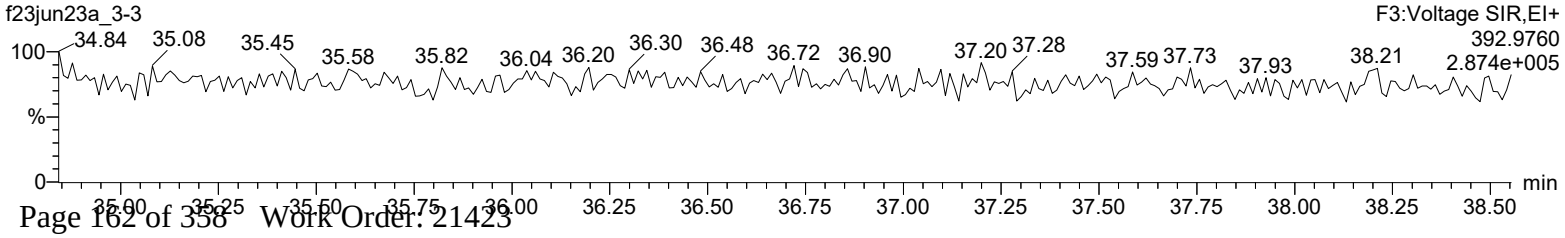
13C-123478-HxCDF



OcDPE



Lock Mass F3



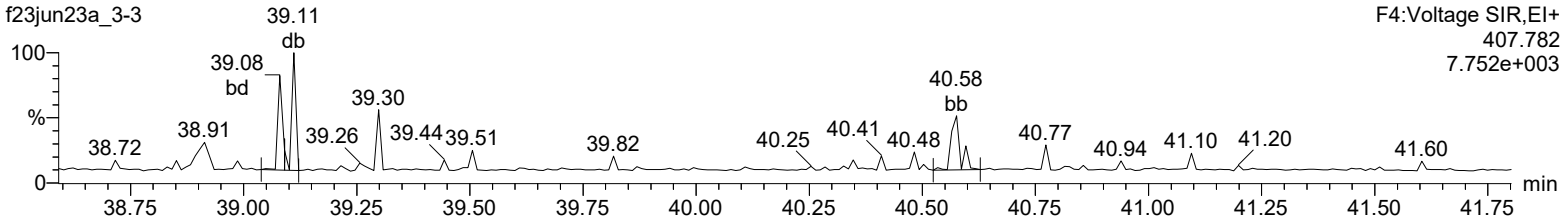
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

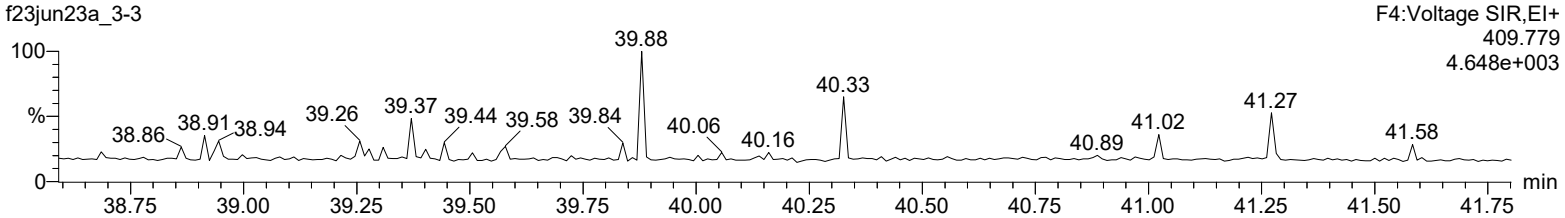
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

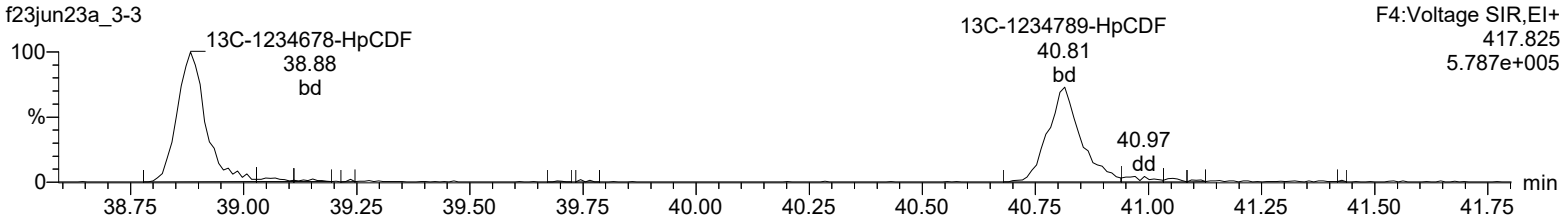
Total-heptafurans



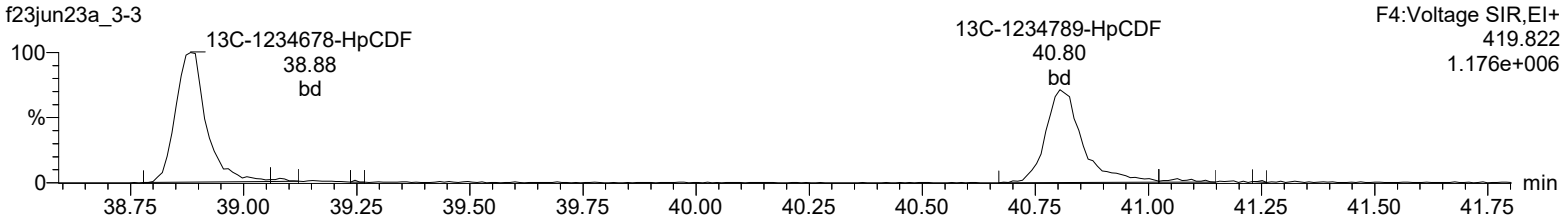
Total-heptafurans



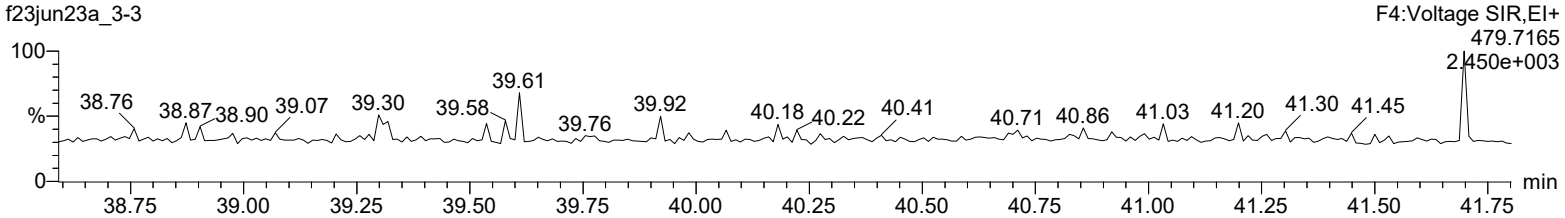
13C-1234678-HpCDF



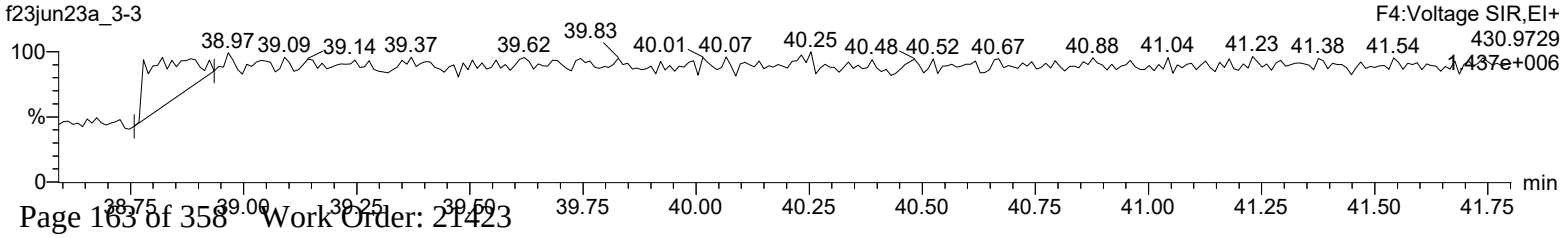
13C-1234678-HpCDF



NoDPE



Lock Mass F4



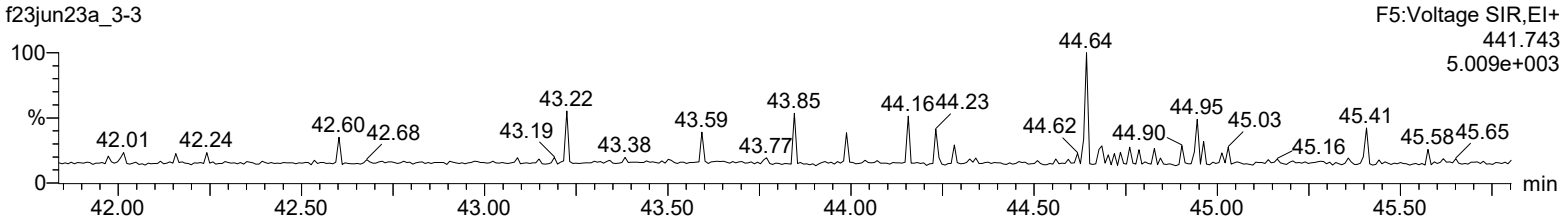
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

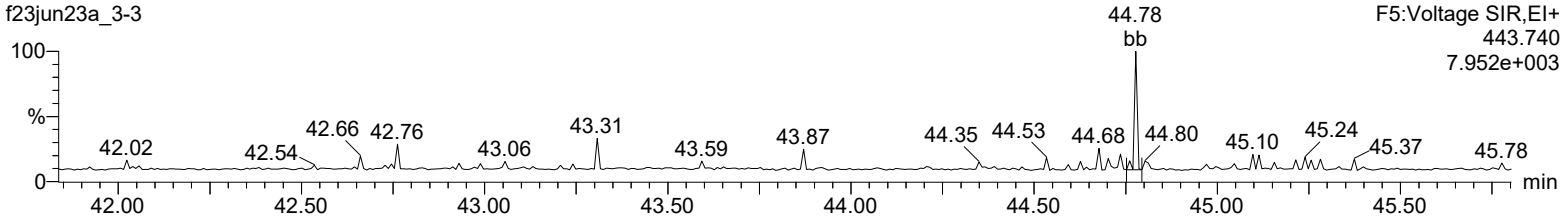
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

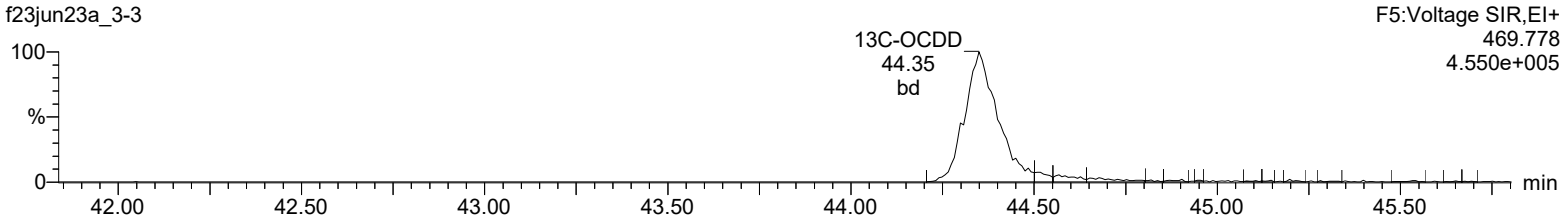
OCDF



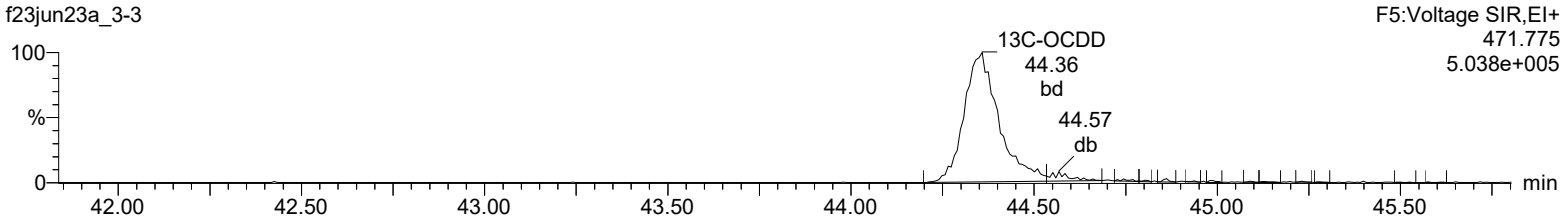
OCDF



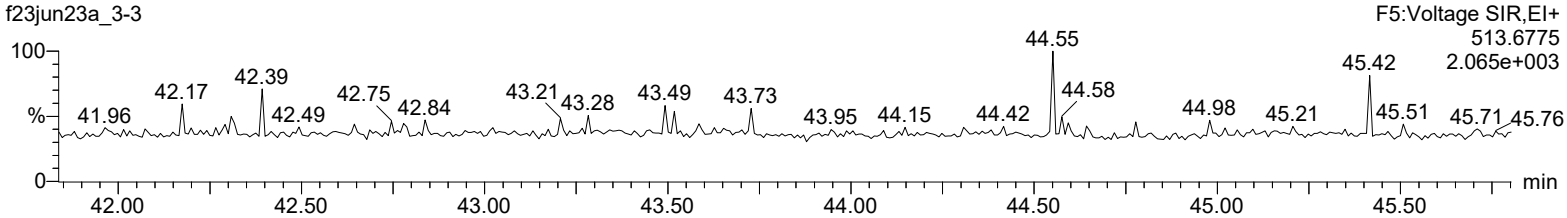
13C-OCDD



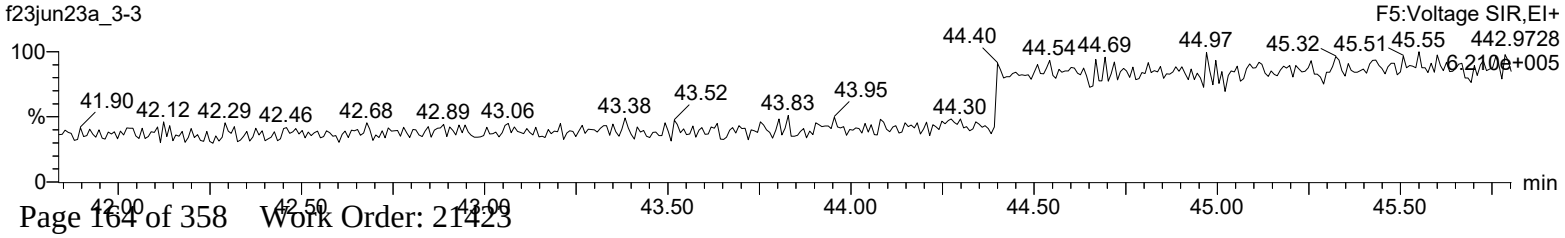
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034326**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCS for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 08:48**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-1**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		231	pg/L	3.96	5.00
40321-76-4	1,2,3,7,8-PeCDD		986	pg/L	9.10	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		1130	pg/L	16.1	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		988	pg/L	15.0	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1090	pg/L	15.5	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1100	pg/L	18.2	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2150	pg/L	59.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	4.22	10.0
57117-41-6	1,2,3,7,8-PeCDF		1080	pg/L	13.2	50.0
57117-31-4	2,3,4,7,8-PeCDF		1090	pg/L	11.4	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1070	pg/L	22.2	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1080	pg/L	20.6	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1090	pg/L	20.8	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1060	pg/L	32.2	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1150	pg/L	24.8	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1160	pg/L	34.0	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2430	pg/L	79.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1250	2000	pg/L	62.5	(20%-175%)
13C-1,2,3,7,8-PeCDD		1430	2000	pg/L	71.4	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1270	2000	pg/L	63.7	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	68.9	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1330	2000	pg/L	66.6	(22%-166%)
13C-OCDD		2350	4000	pg/L	58.6	(13%-199%)
13C-2,3,7,8-TCDF		1290	2000	pg/L	64.5	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	64.8	(21%-192%)
13C-2,3,4,7,8-PeCDF		1450	2000	pg/L	72.3	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1310	2000	pg/L	65.7	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1290	2000	pg/L	64.6	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1330	2000	pg/L	66.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1290	2000	pg/L	64.4	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1250	2000	pg/L	62.6	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1350	2000	pg/L	67.3	(20%-186%)
37Cl-2,3,7,8-TCDD		148	200	pg/L	73.9	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.98e3	1.13e4	2.03e4	31.31	1.001	0.80	NO	11.571	0.198	1.38e5	1328	103.7	1.55e5	782	198.7	bd	bd
2	12378-PeCDD	4.50e4	2.96e4	7.46e4	34.17	1.000	1.52	NO	49.279	0.455	8.72e5	2667	327.1	5.72e5	2498	229.2	bd	bd
3	123478-HxCDD	3.68e4	2.92e4	6.60e4	36.78	1.000	1.26	NO	56.654	0.803	6.19e5	3437	180.1	5.06e5	3307	153.0	bd	bd
4	123678-HxCDD	4.05e4	3.43e4	7.48e4	36.87	1.001	1.18	NO	49.404	0.752	7.00e5	3437	203.7	5.47e5	3307	165.5	db	dd
5	123789-HxCDD	4.00e4	3.30e4	7.29e4	37.11	1.007	1.21	NO	54.523	0.775	5.93e5	3437	172.7	4.71e5	3307	142.3	bd	dd
6	1234678-HpCDD	3.88e4	3.37e4	7.25e4	40.16	1.000	1.15	NO	55.009	0.909	4.44e5	2409	184.2	4.02e5	3511	114.6	bd	bd
7	OCDD	4.39e4	4.75e4	9.14e4	44.37	1.000	0.92	NO	107.263	2.99	4.21e5	3271	128.8	4.69e5	5703	82.2	bd	bd
8	2378-TCDF	1.61e4	2.18e4	3.79e4	30.58	1.000	0.74	NO	11.185	0.211	1.77e5	1310	134.8	2.20e5	1725	127.7	bb	bb
9	12378-PeCDF	1.07e5	6.36e4	1.71e5	33.36	1.000	1.69	NO	53.793	0.658	2.14e6	7025	304.1	1.24e6	9696	127.7	bd	bd
10	23478-PeCDF	1.24e5	7.57e4	2.00e5	33.98	1.000	1.64	NO	54.728	0.568	2.61e6	7025	371.0	1.51e6	9696	155.8	bb	bd
11	123478-HxCDF	7.21e4	5.67e4	1.29e5	36.06	1.000	1.27	NO	53.252	1.11	1.25e6	10043	124.3	1.03e6	8427	121.8	bd	bd
12	123678-HxCDF	8.76e4	6.70e4	1.55e5	36.16	1.000	1.31	NO	53.982	1.03	1.45e6	10043	144.2	1.05e6	8427	124.6	dd	db
13	234678-HxCDF	7.78e4	6.09e4	1.39e5	36.65	1.000	1.28	NO	54.392	1.04	1.35e6	10043	134.6	9.40e5	8427	111.5	bb	bd
14	123789-HxCDF	5.90e4	4.75e4	1.07e5	37.43	1.001	1.24	NO	53.068	1.61	7.77e5	10043	77.3	6.67e5	8427	79.2	bd	bd
15	1234678-HpCDF	7.77e4	7.61e4	1.54e5	38.90	1.000	1.02	NO	57.388	1.24	1.16e6	11743	99.1	1.02e6	5381	189.0	bd	bb
16	1234789-HpCDF	6.54e4	6.28e4	1.28e5	40.83	1.000	1.04	NO	57.964	1.70	7.31e5	11743	62.2	7.35e5	5381	136.6	bb	bd
17	OCDF	7.98e4	8.42e4	1.64e5	44.68	1.007	0.95	NO	121.562	3.95	8.01e5	3918	204.6	8.05e5	14837	54.3	bd	bd
18	13C-2378-TCDD	7.36e4	8.57e4	1.59e5	31.28	1.017	0.86	NO	62.484	0.468	1.12e6	4072	274.9	1.28e6	1985	646.9	bd	bd
19	13C-12378-PeCDD	7.99e4	5.00e4	1.30e5	34.16	1.110	1.60	NO	71.359	0.616	1.50e6	2284	656.8	9.64e5	3404	283.1	bd	bd
20	13C-123478-HxCDD	6.03e4	4.83e4	1.09e5	36.77	0.991	1.25	NO	63.667	0.936	1.09e6	5385	202.0	8.62e5	3466	248.8	bd	bd
21	13C-123678-HxCDD	7.97e4	6.27e4	1.42e5	36.85	0.993	1.27	NO	68.887	0.772	1.18e6	5385	219.2	8.81e5	3466	254.1	dd	dd
22	13C-1234678-HpCDD	5.60e4	5.13e4	1.07e5	40.14	1.082	1.09	NO	66.630	0.711	6.92e5	3529	196.0	6.21e5	2829	219.6	bd	bd
23	13C-OCDD	7.24e4	8.16e4	1.54e5	44.37	1.196	0.89	NO	117.266	1.14	6.37e5	4135	154.0	7.53e5	4145	181.6	bd	bd
24	13C-2378-TCDF	1.12e5	1.38e5	2.50e5	30.58	0.994	0.81	NO	64.459	0.227	1.19e6	2101	567.4	1.47e6	2364	621.9	bd	bd
25	13C-12378-PeCDF	1.55e5	9.47e4	2.49e5	33.36	1.084	1.63	NO	64.814	0.824	3.10e6	9365	330.5	1.86e6	6727	276.1	bd	bd
26	13C-23478-PeCDF	1.63e5	9.96e4	2.62e5	33.97	1.104	1.63	NO	72.329	0.875	3.27e6	9365	349.6	1.96e6	6727	290.8	bb	bd
27	13C-123478-HxCDF	5.93e4	1.11e5	1.71e5	36.05	0.972	0.53	NO	65.653	0.745	1.02e6	4041	252.0	1.98e6	6700	294.8	bd	bd
28	13C-123678-HxCDF	7.38e4	1.34e5	2.08e5	36.15	0.975	0.55	NO	64.642	0.602	1.16e6	4041	287.1	2.01e6	6700	300.3	dd	db
29	13C-234678-HxCDF	6.22e4	1.17e5	1.79e5	36.64	0.988	0.53	NO	66.600	0.719	1.08e6	4041	267.8	1.86e6	6700	278.3	bb	bb
30	13C-123789-HxCDF	5.44e4	9.98e4	1.54e5	37.40	1.008	0.55	NO	64.402	0.809	7.77e5	4041	192.3	1.40e6	6700	208.6	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.25e4	1.31e5	1.94e5	38.89	1.048	0.48	NO	62.639	0.780	8.04e5	6042	133.1	1.84e6	7345	250.3	bd	bd
32	13C-1234789-HpCDF	5.21e4	1.10e5	1.62e5	40.83	1.100	0.47	NO	67.274	1.00	5.93e5	6042	98.2	1.22e6	7345	165.9	bd	bd
33	13C-1234-TCDD	1.02e5	1.22e5	2.24e5	30.77	0.000	0.84	NO	100.000	0.533	1.30e6	4072	318.7	1.51e6	1985	761.5	bd	bb
34	13C-123789-HxCDD	1.10e5	9.17e4	2.01e5	37.10	0.000	1.20	NO	100.000	0.793	1.52e6	5385	282.2	1.29e6	3466	373.6	dd	dd
35	37Cl-2378-TCDD	1.86e4		1.86e4	31.31	1.018			7.385	0.0970	2.79e5	1238	225.2				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

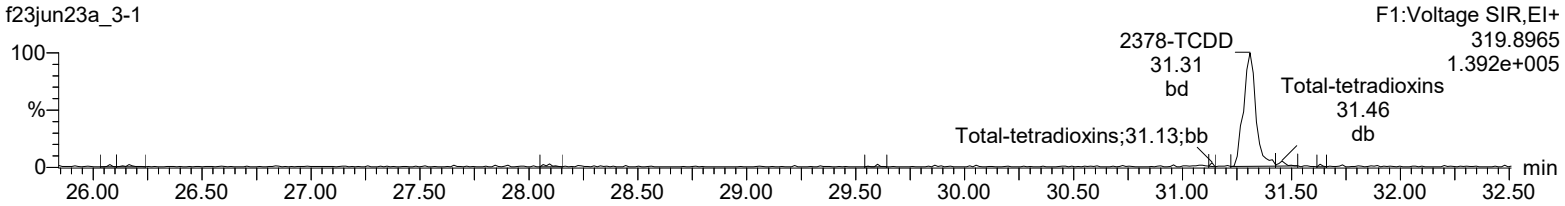
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

06/28/2023

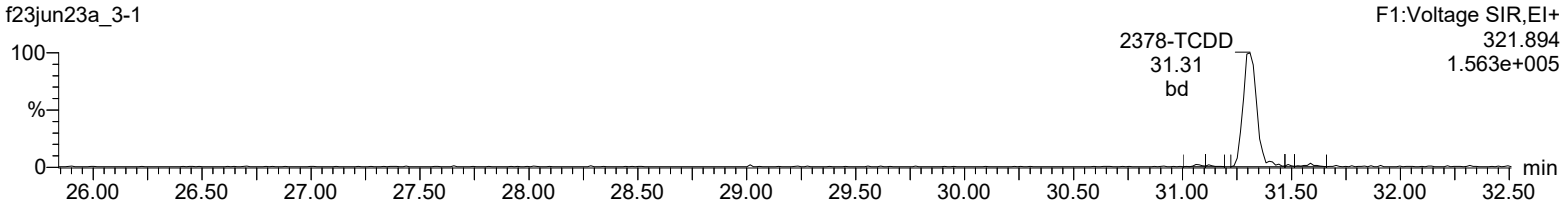
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

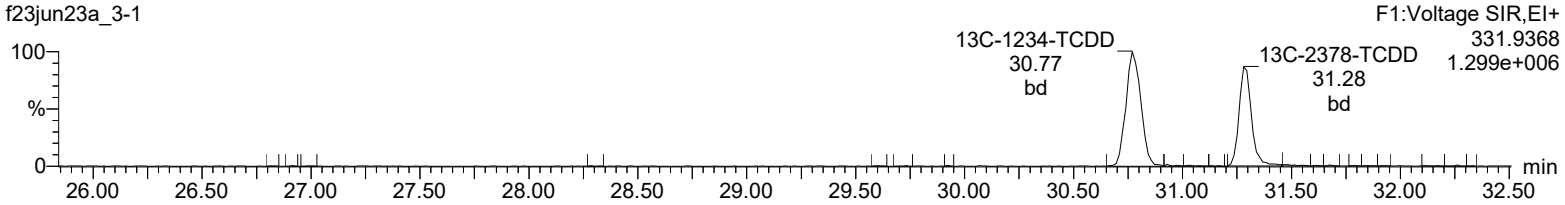
Total-tetradioxins



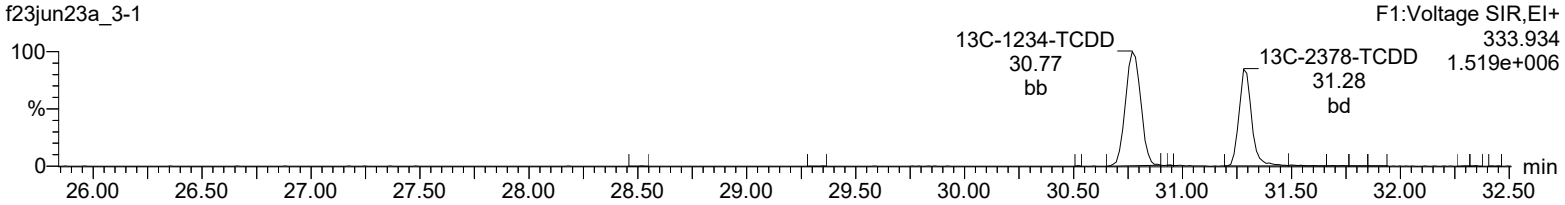
Total-tetradioxins



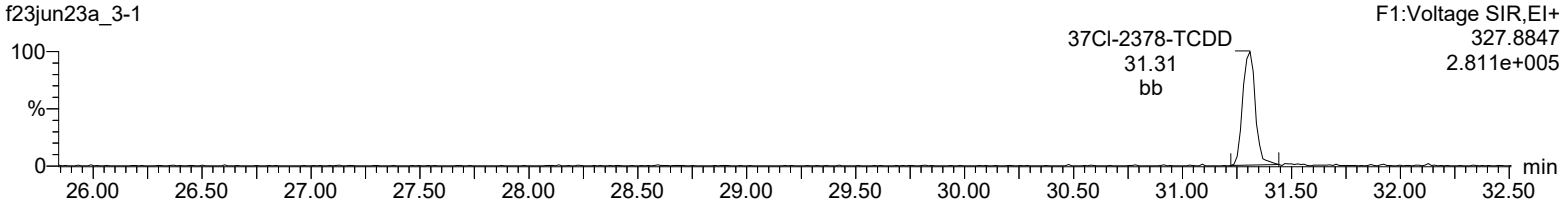
13C-2378-TCDD



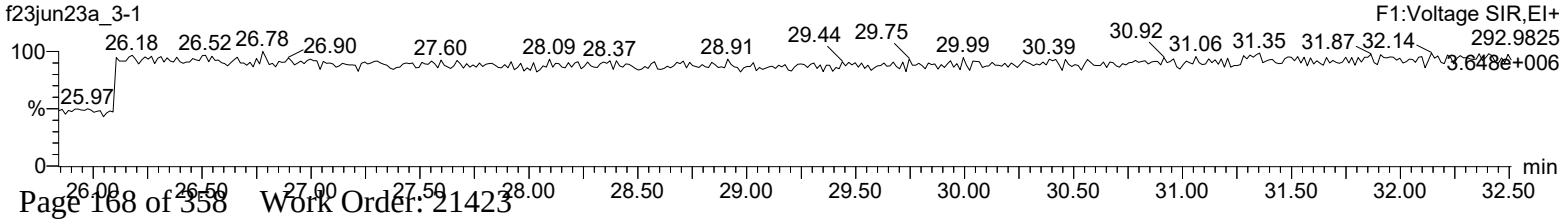
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



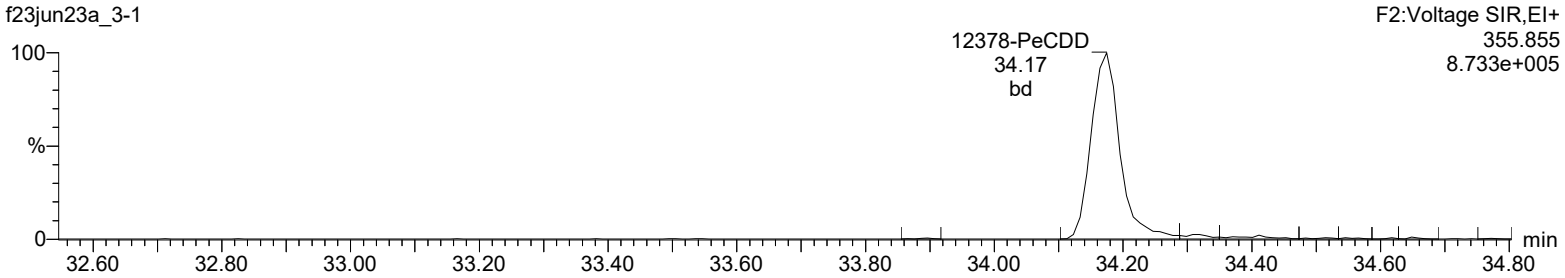
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

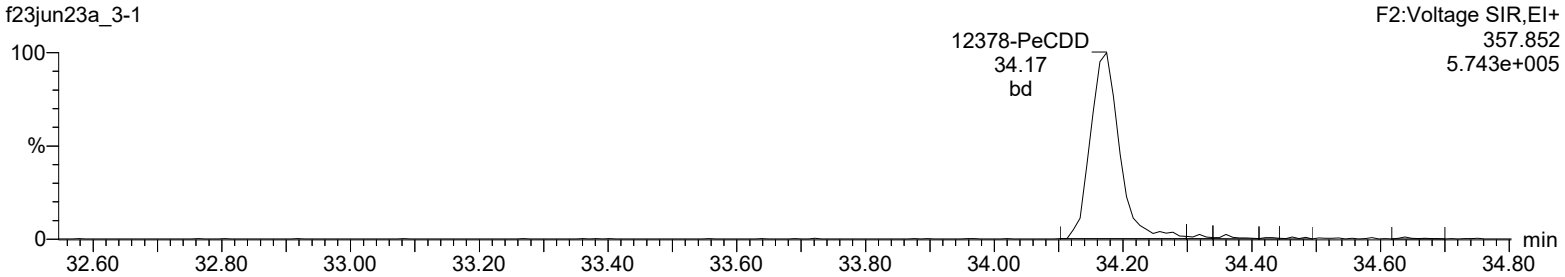
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

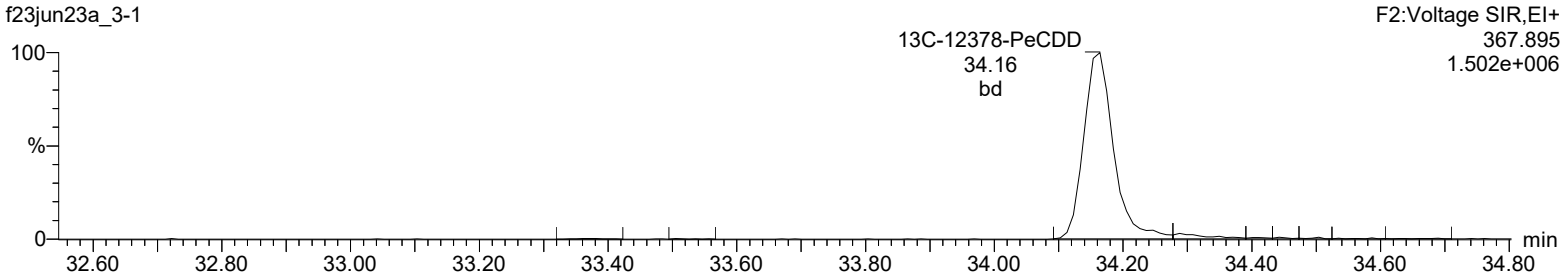
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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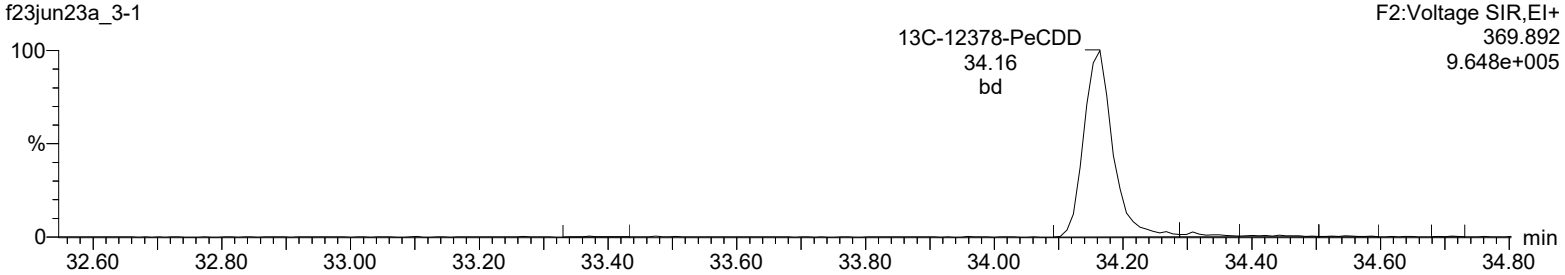
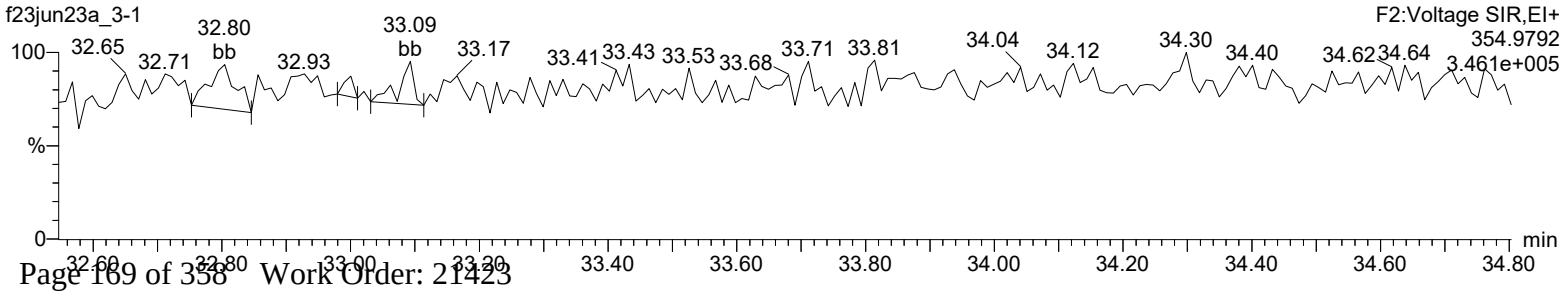


Lock Mass F2



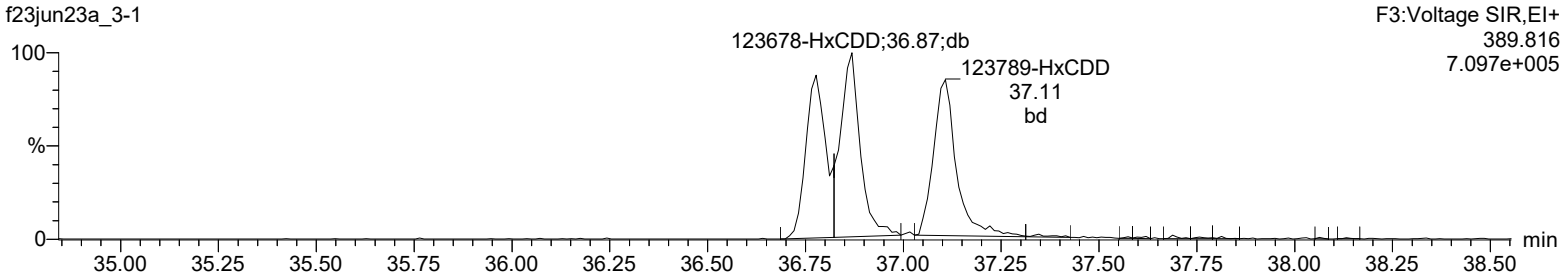
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

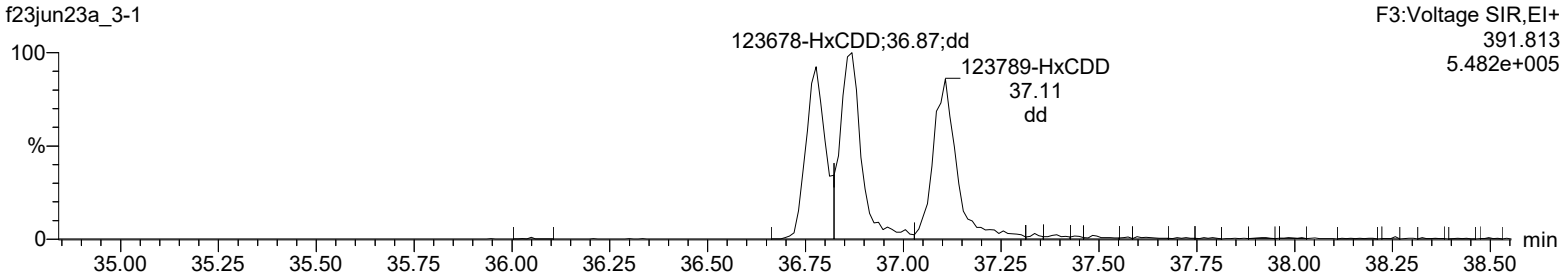
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

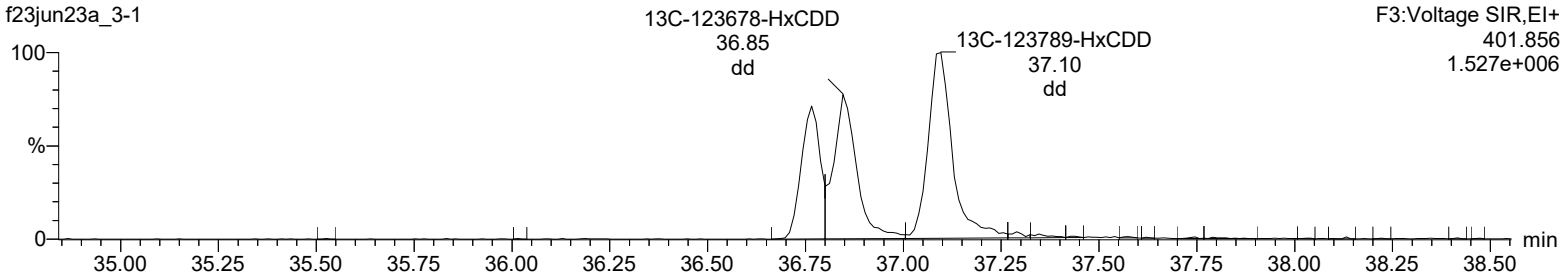
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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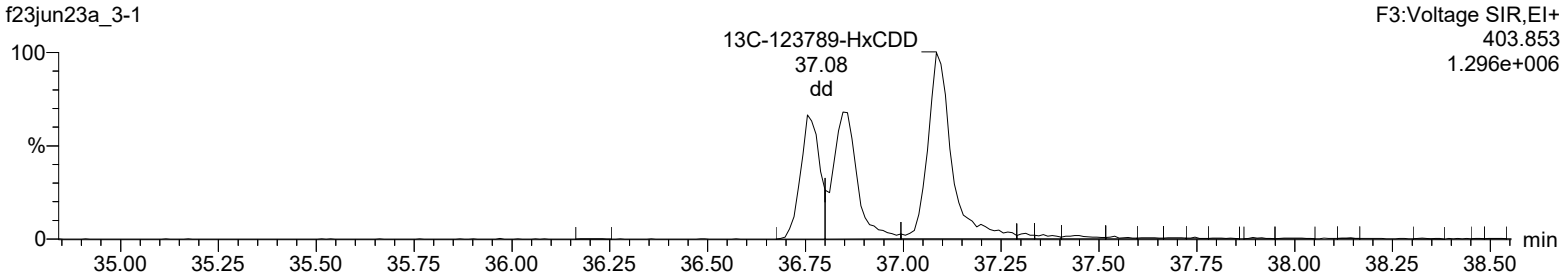
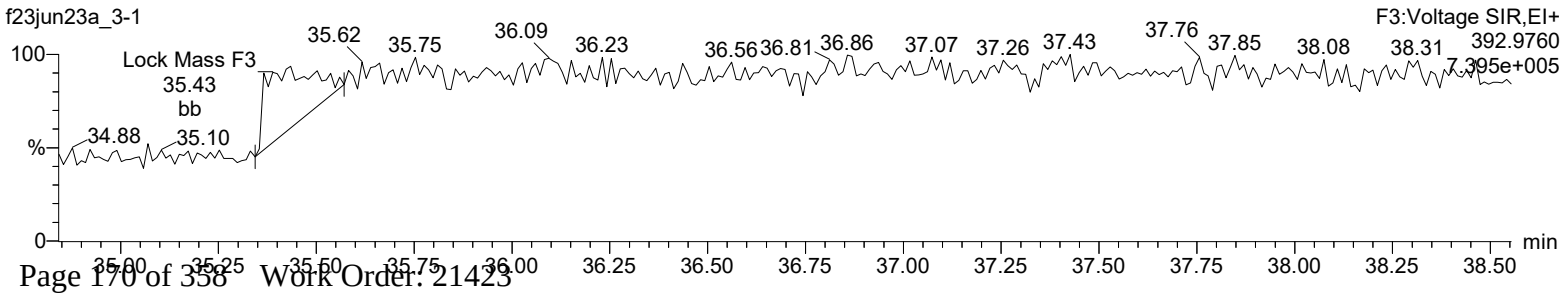


Lock Mass F3



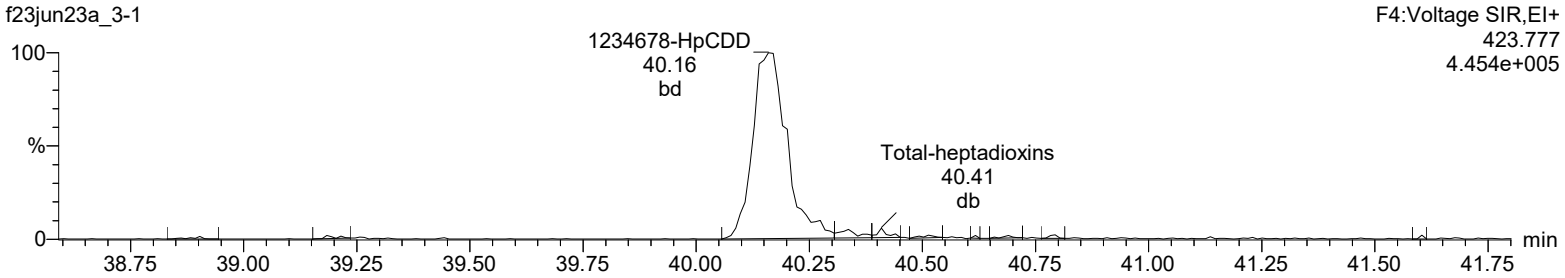
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

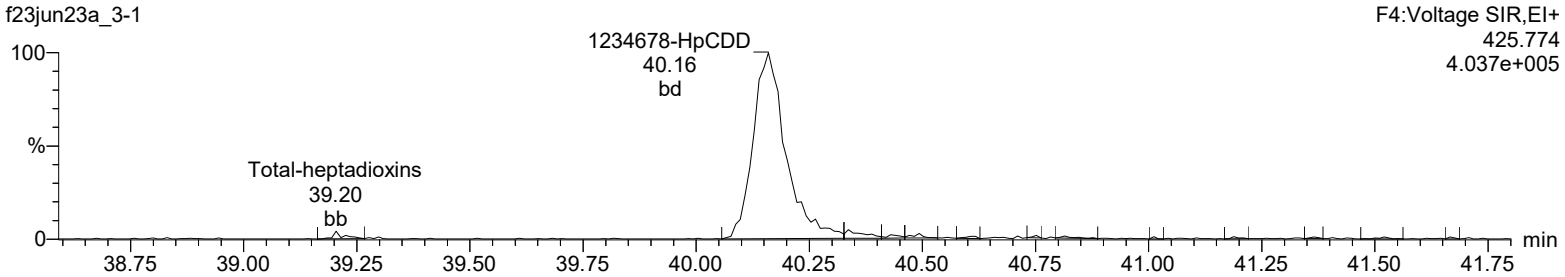
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

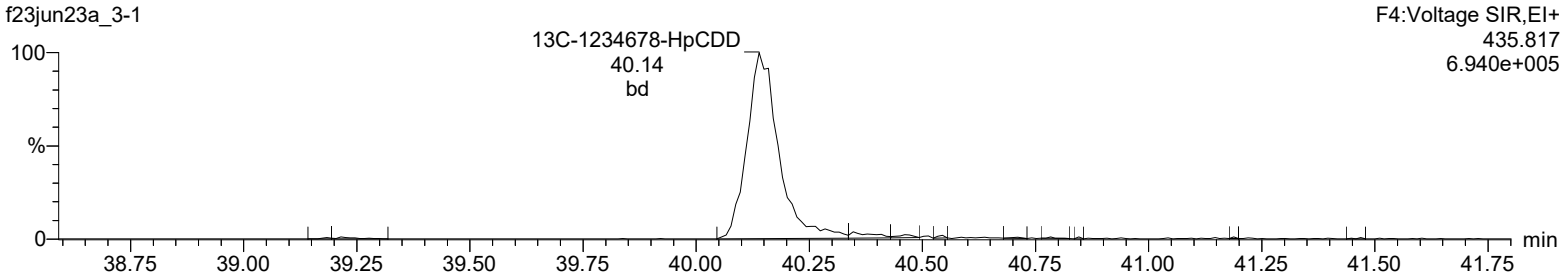
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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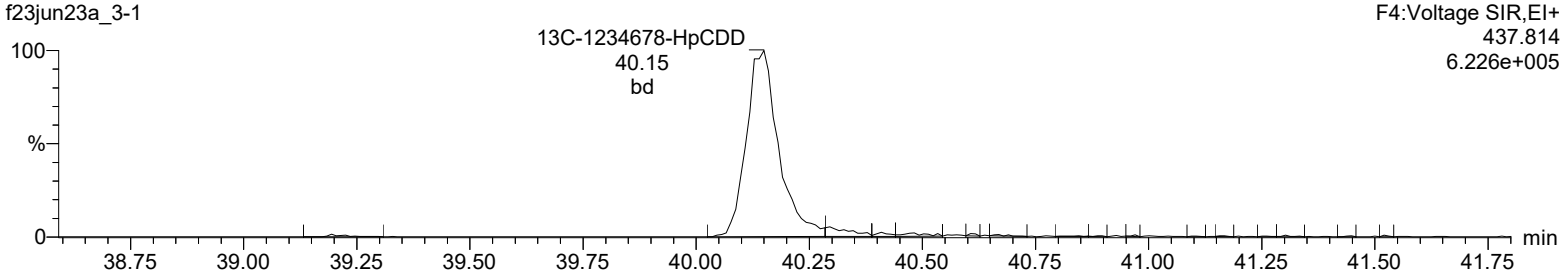
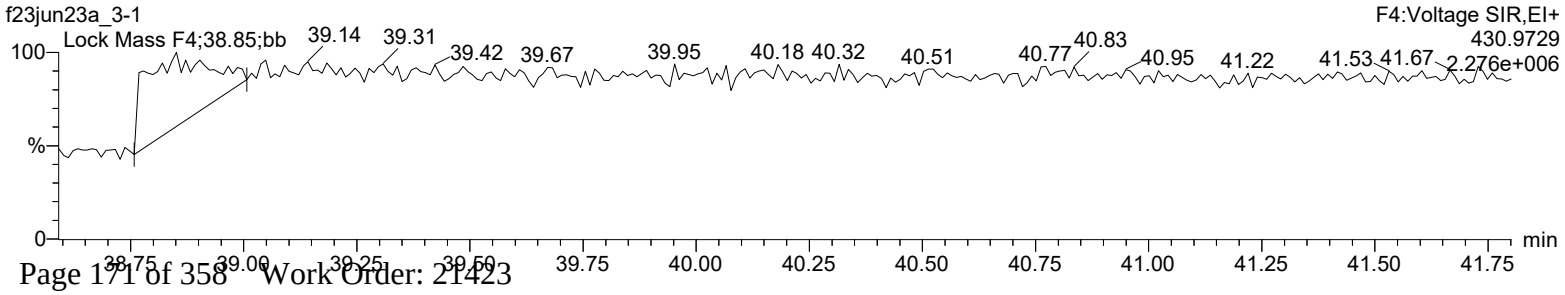


Lock Mass F4



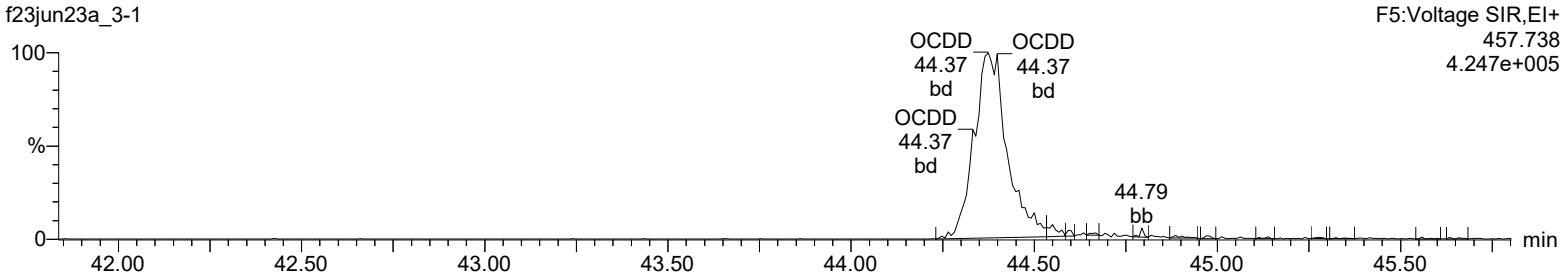
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

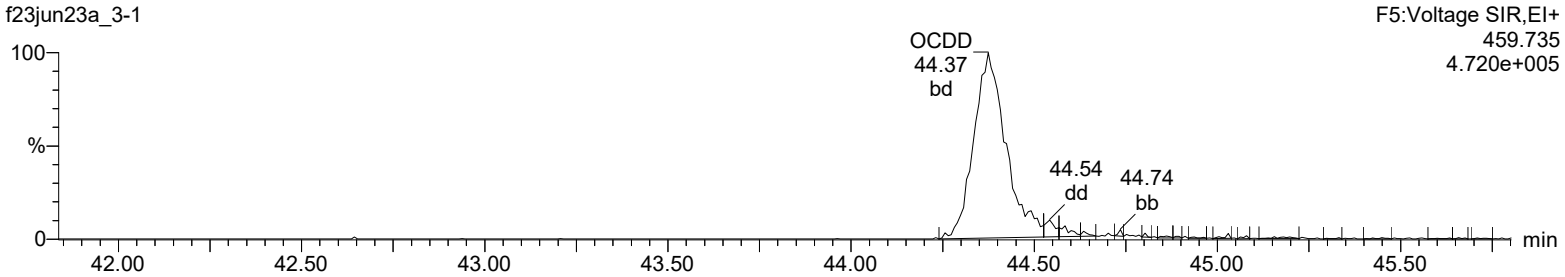
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

OCDD



OCDD



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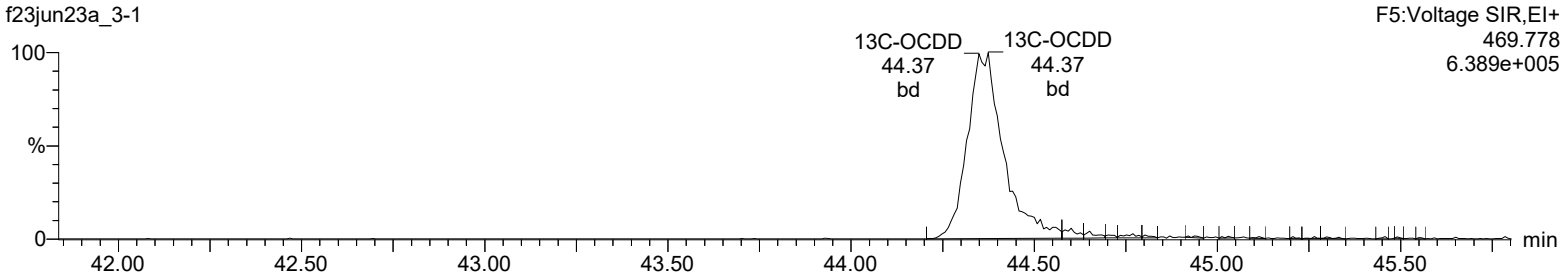
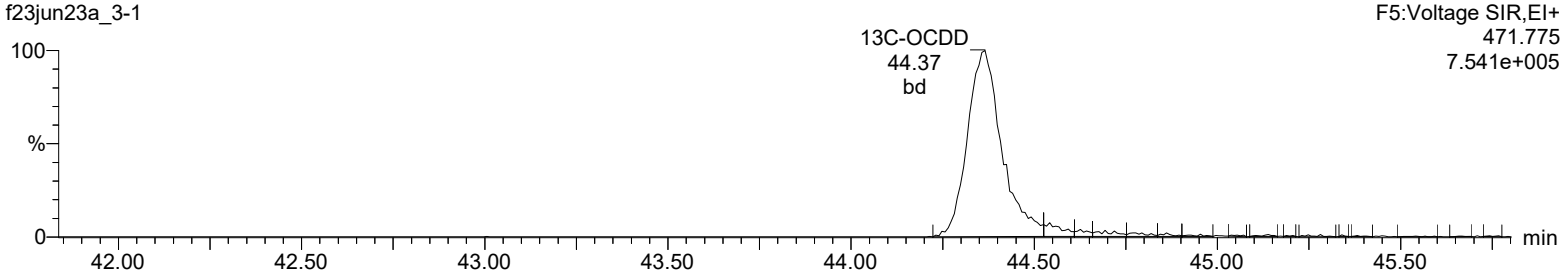
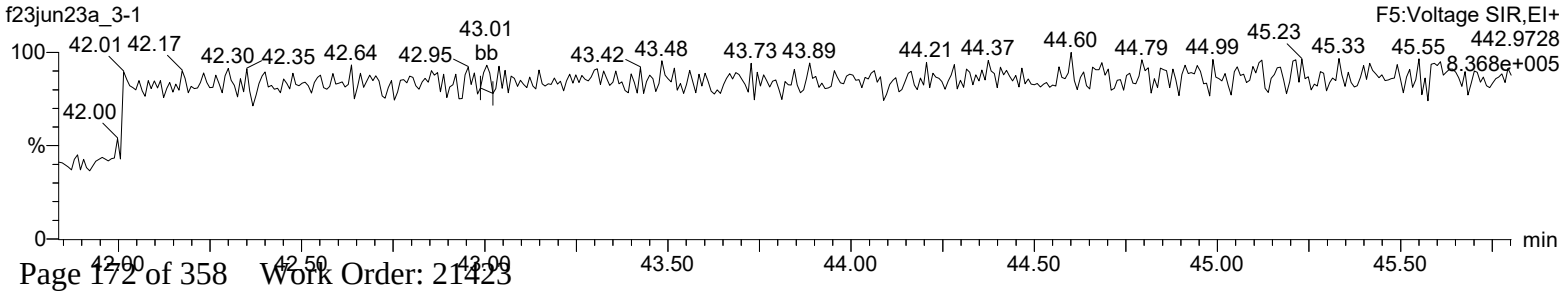


13C-OCDD



Lock Mass F5



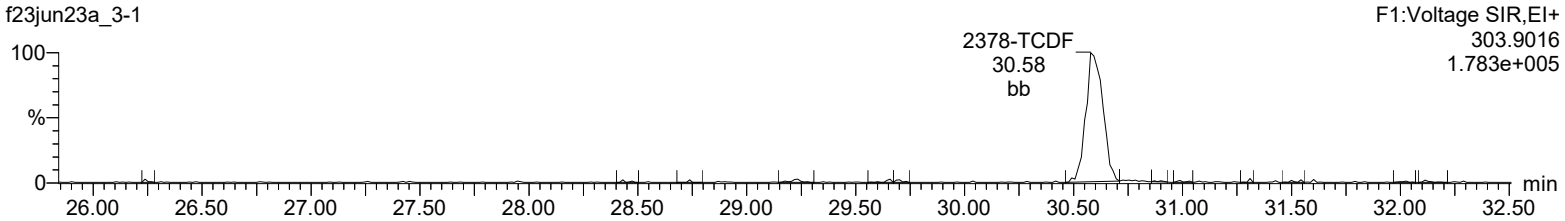
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

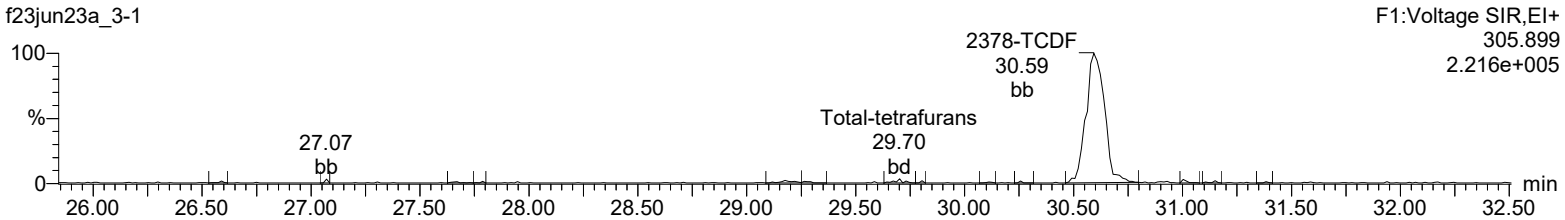
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

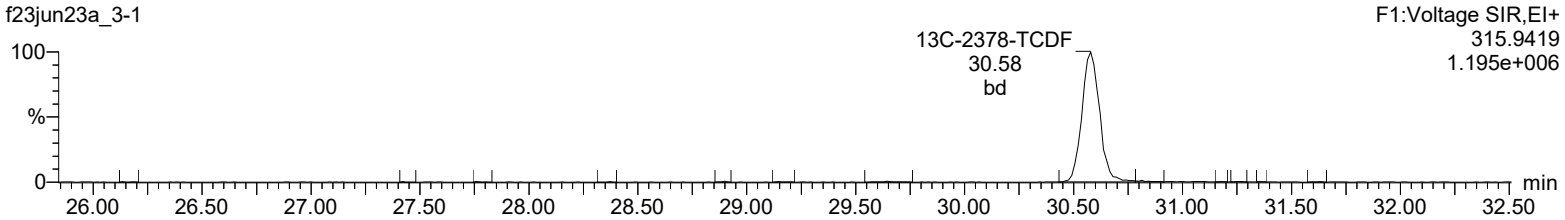
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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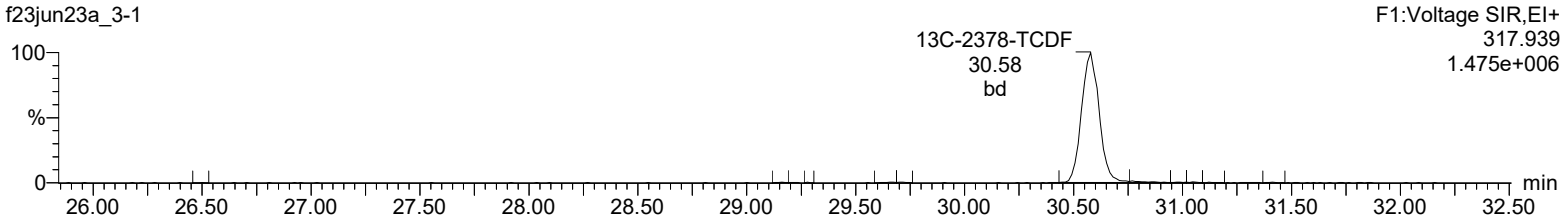

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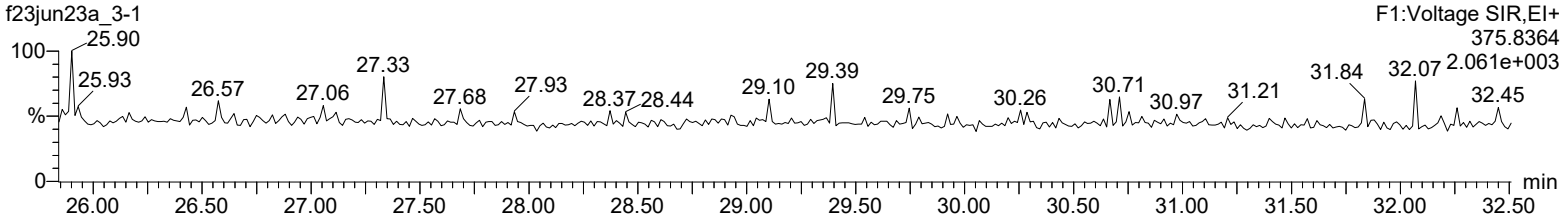
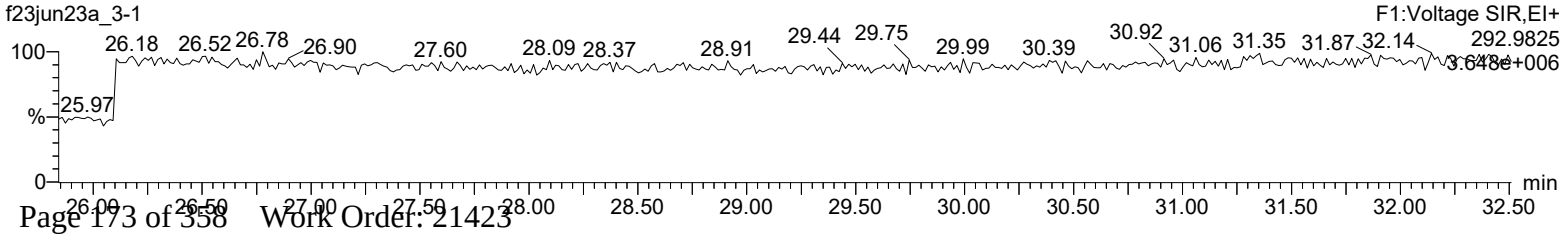


Lock Mass F1



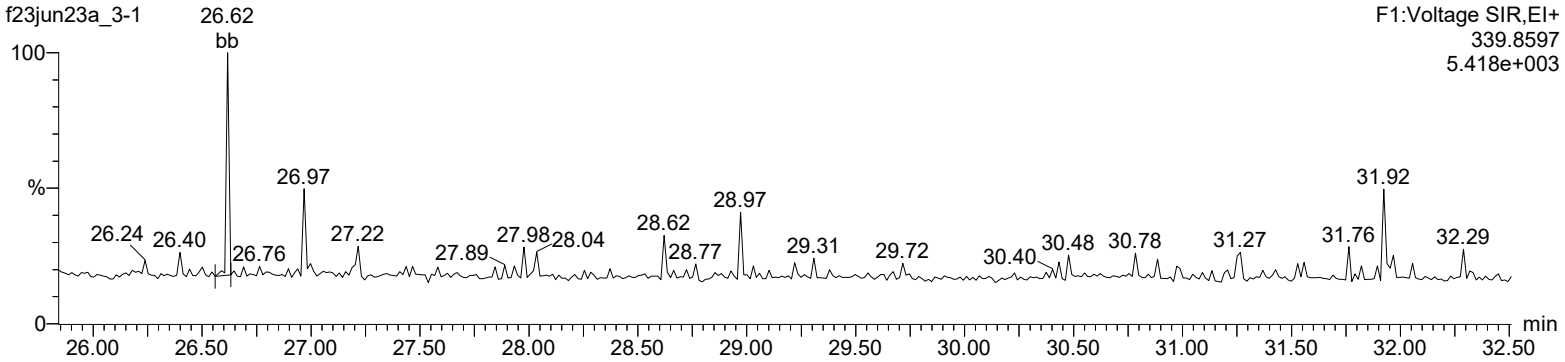
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

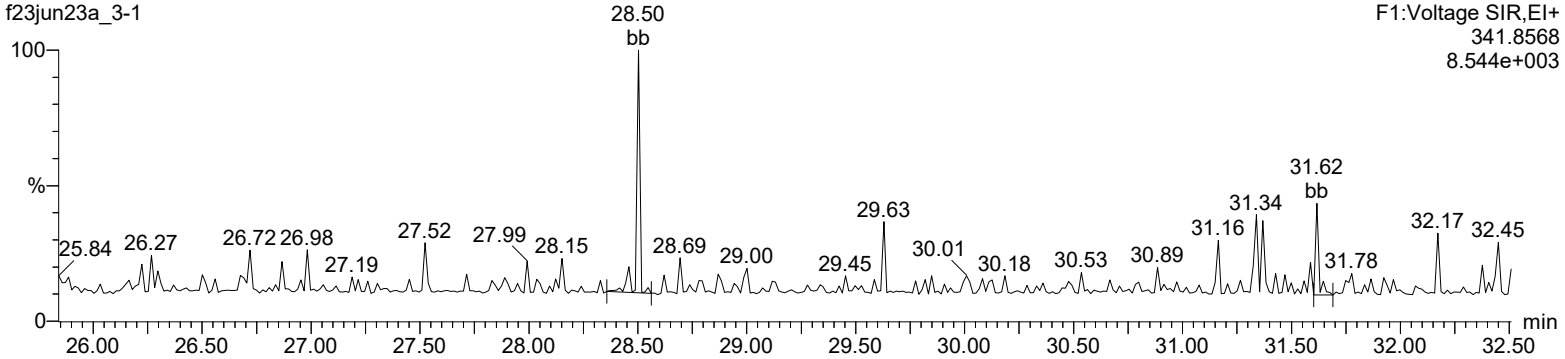
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-pentafurans (F1)



Total-pentafurans (F1)



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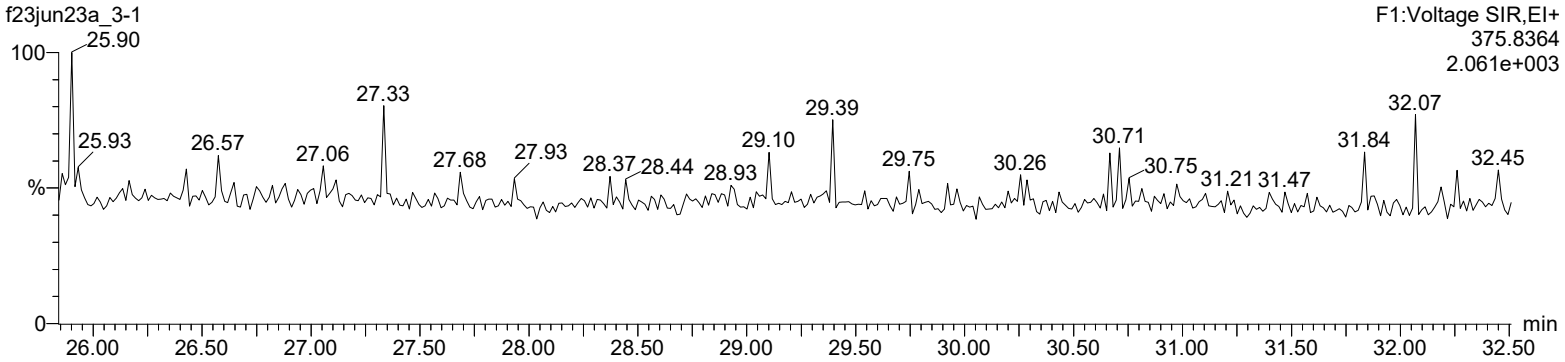
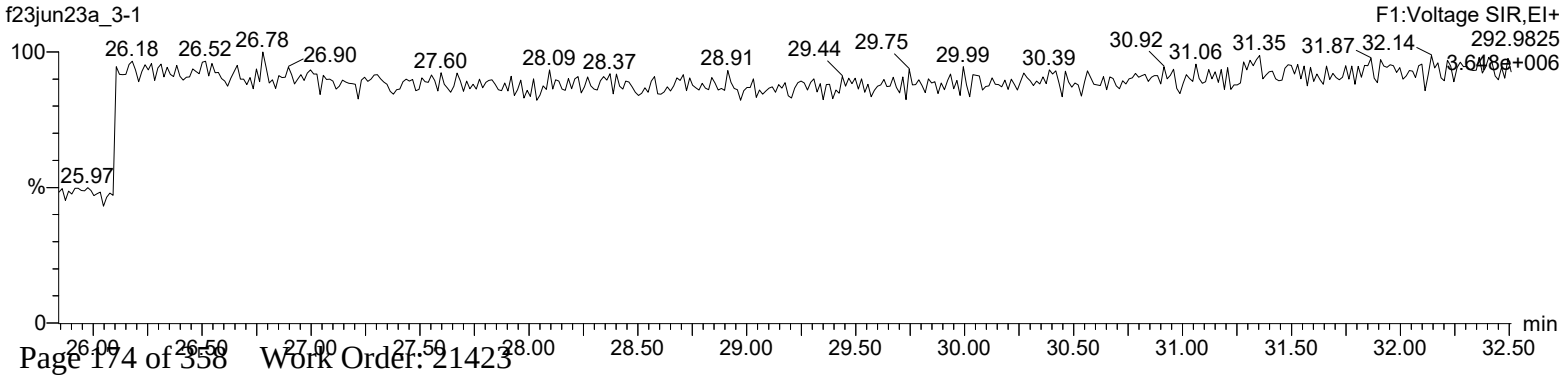


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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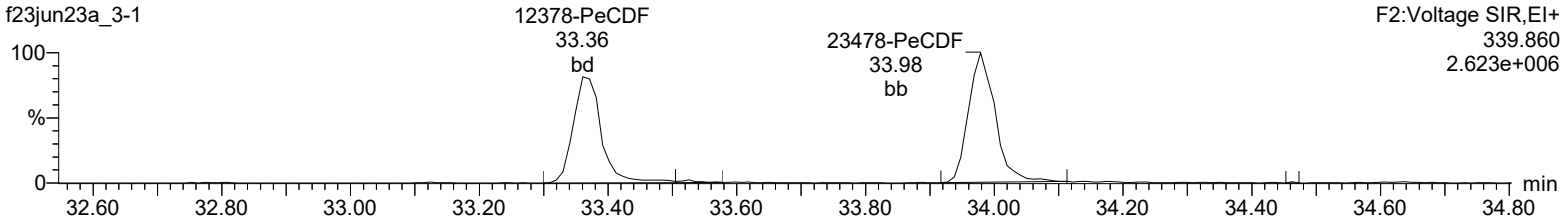
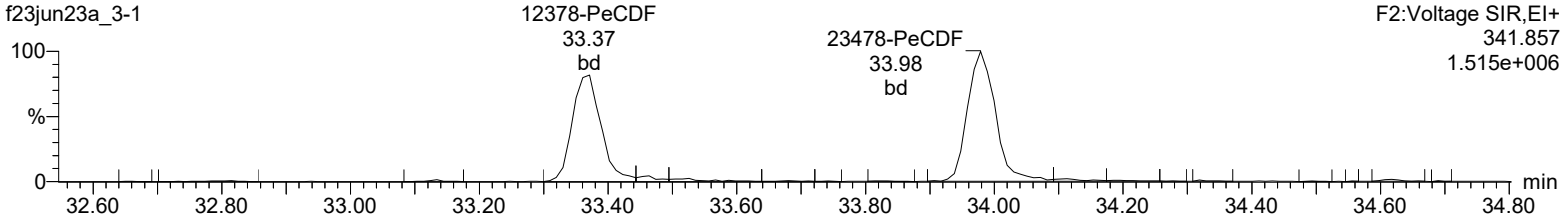
Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

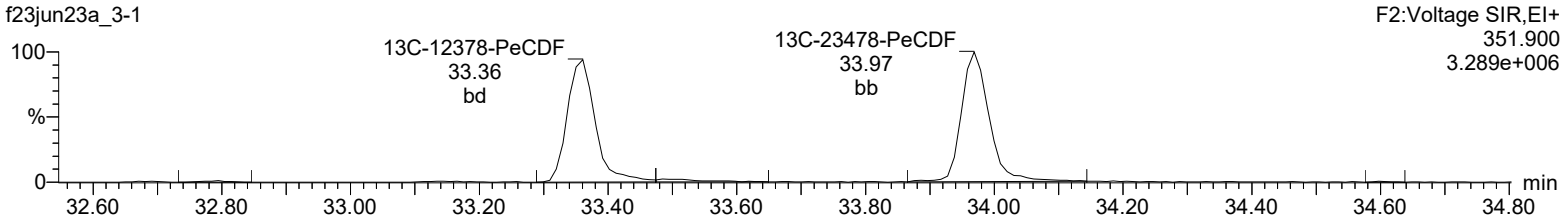
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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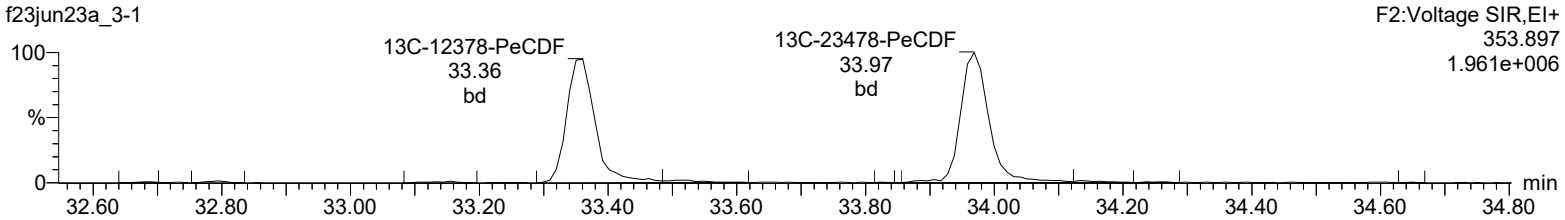
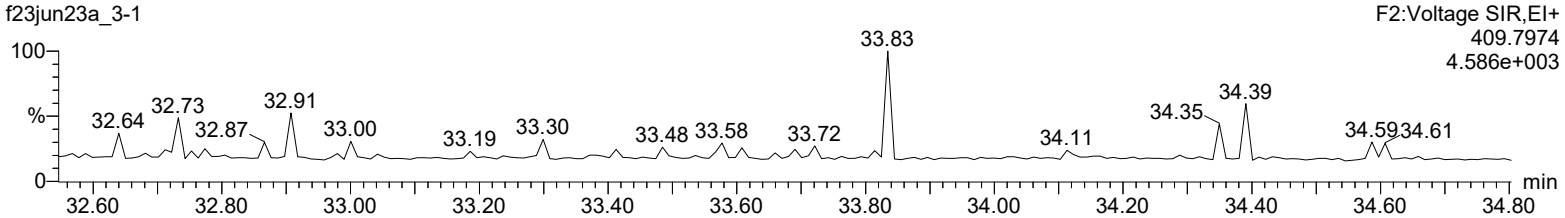
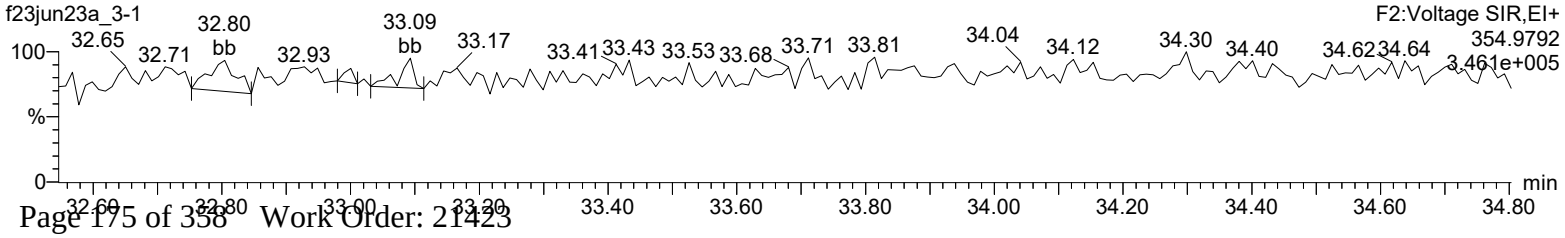


HpDPE



Lock Mass F2



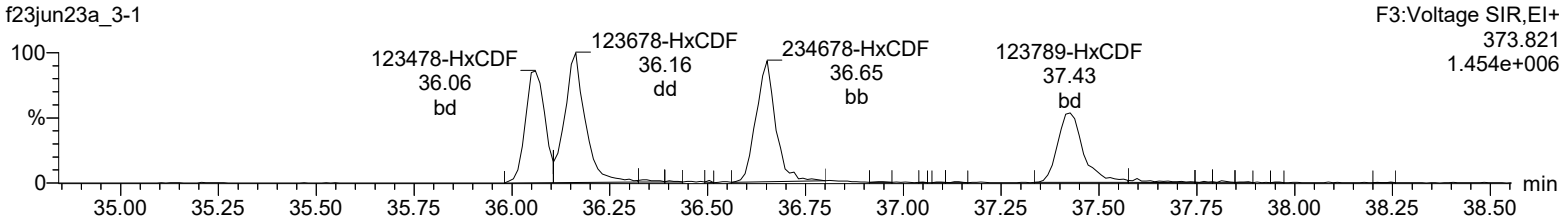
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

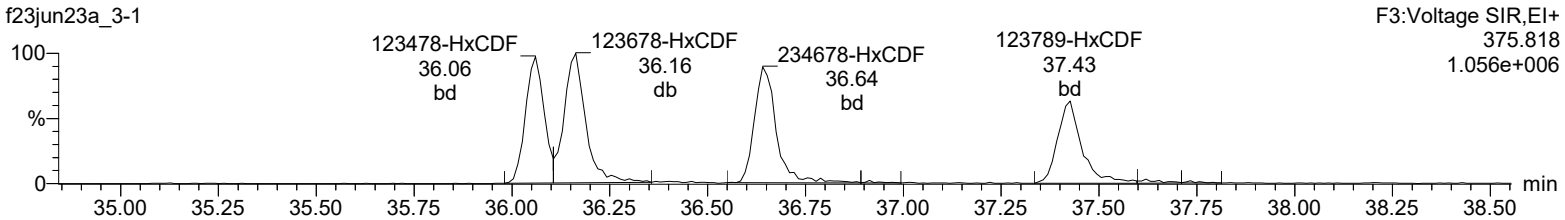
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

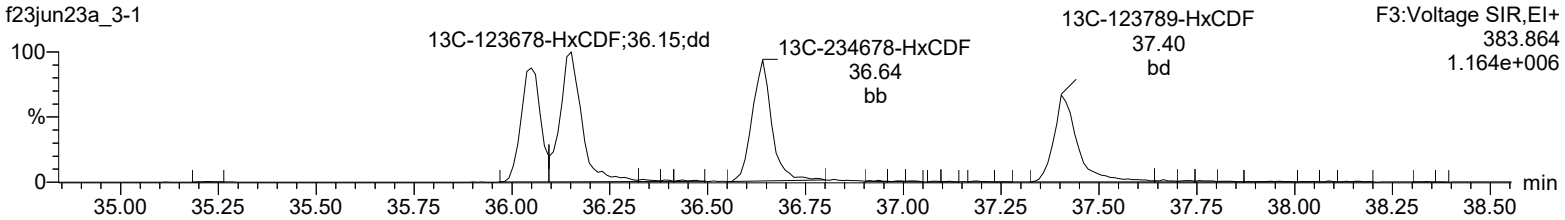
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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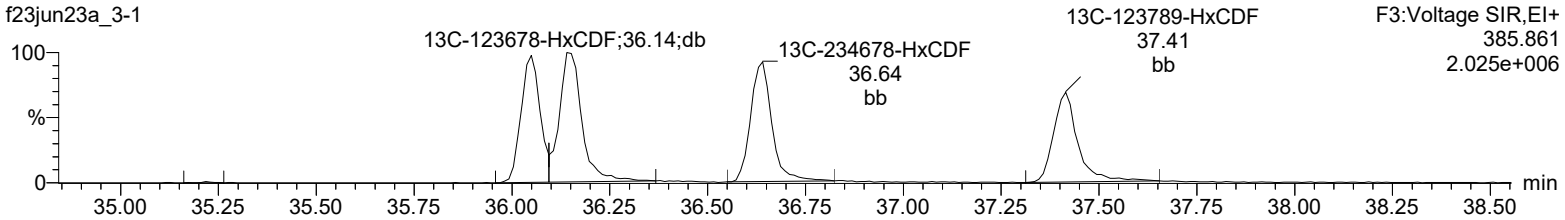
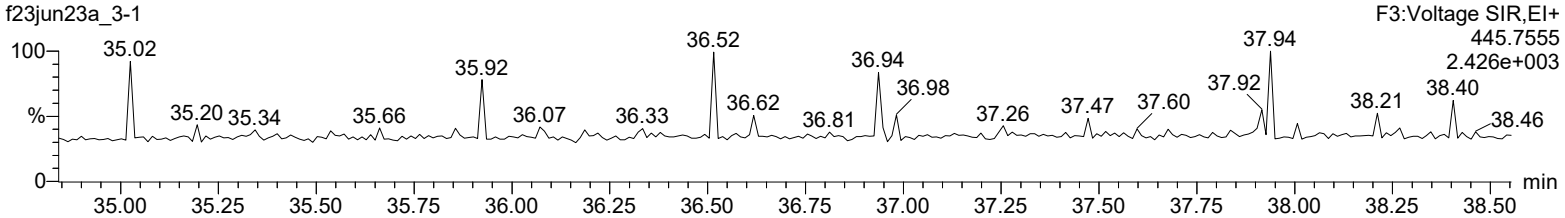
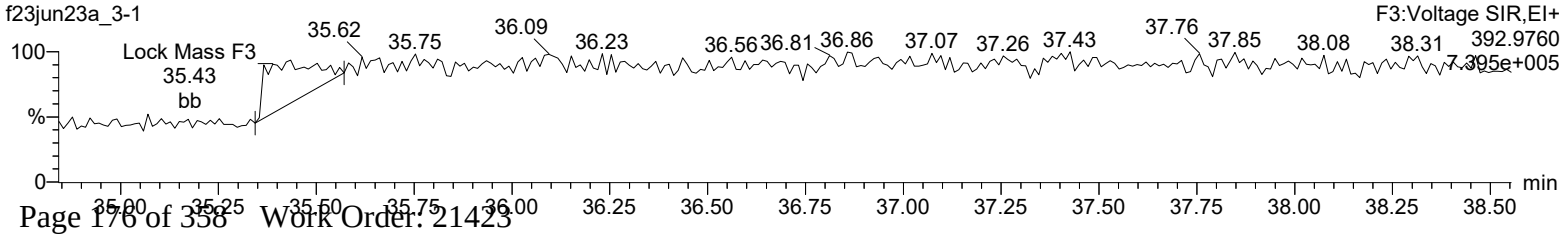


OcDPE



Lock Mass F3



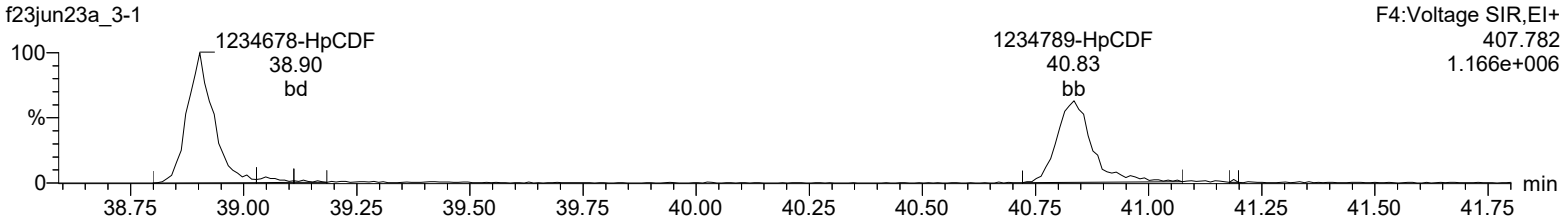
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

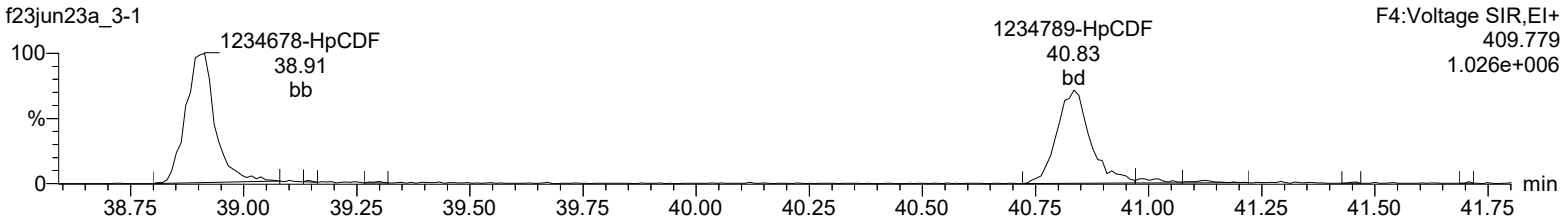
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

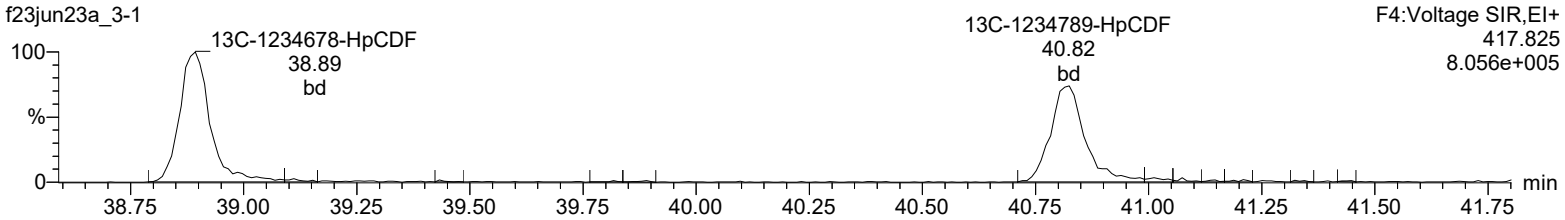
Total-heptafurans



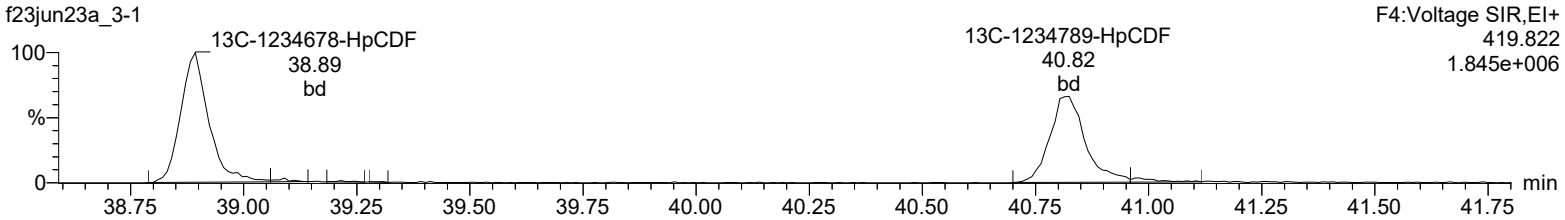
Total-heptafurans



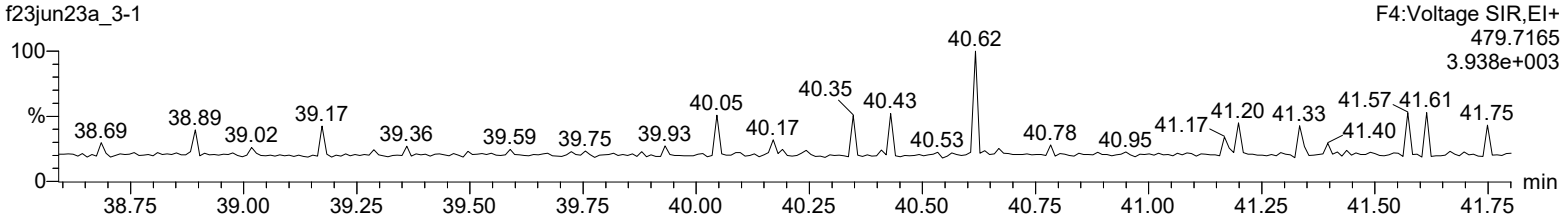
13C-1234678-HpCDF



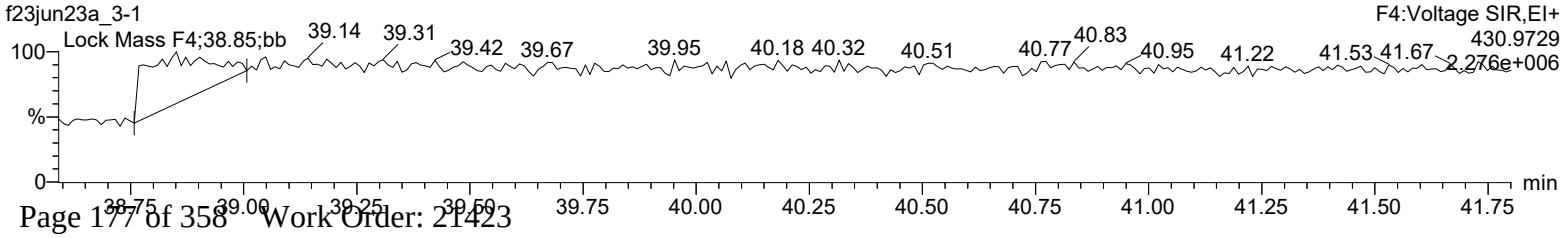
13C-1234678-HpCDF



NoDPE



Lock Mass F4



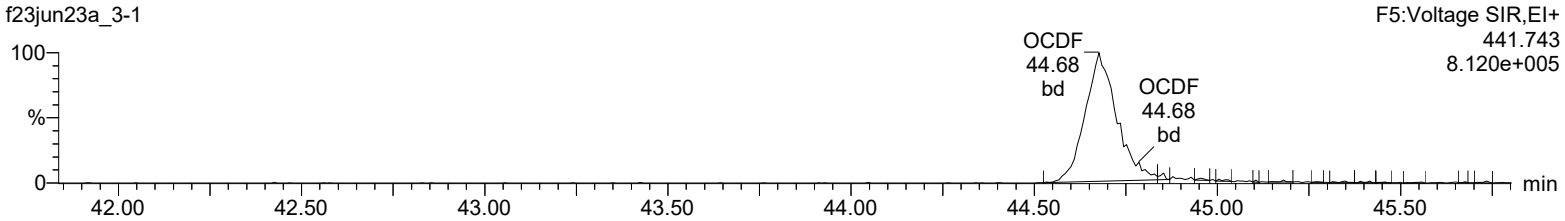
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

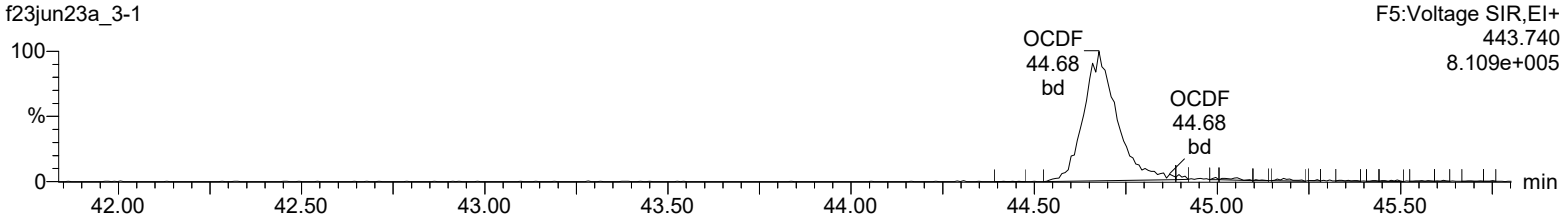
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

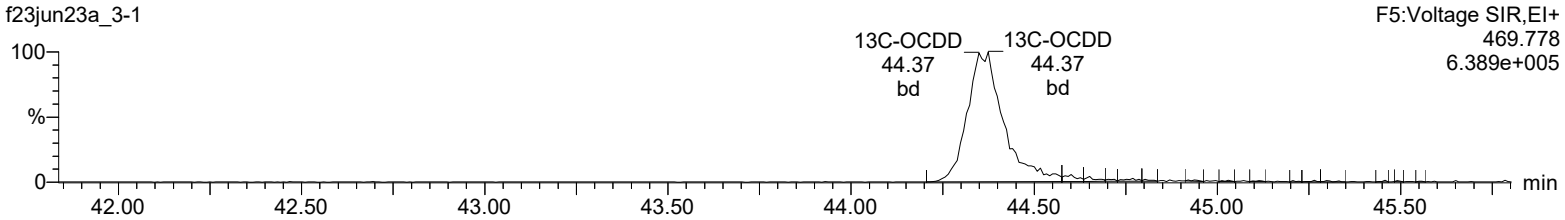
OCDF



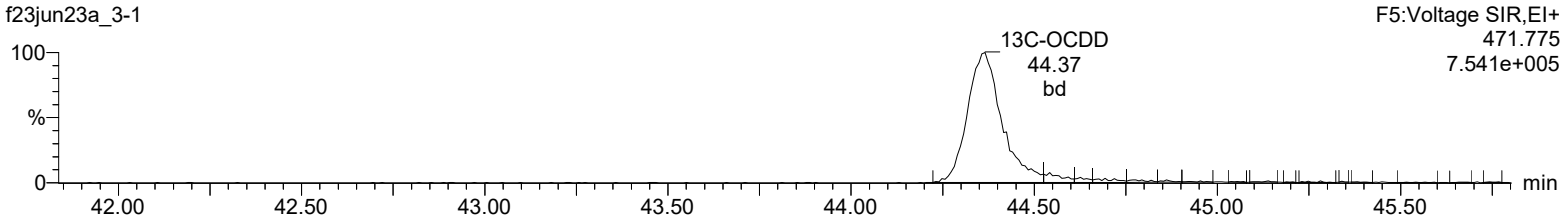
OCDF



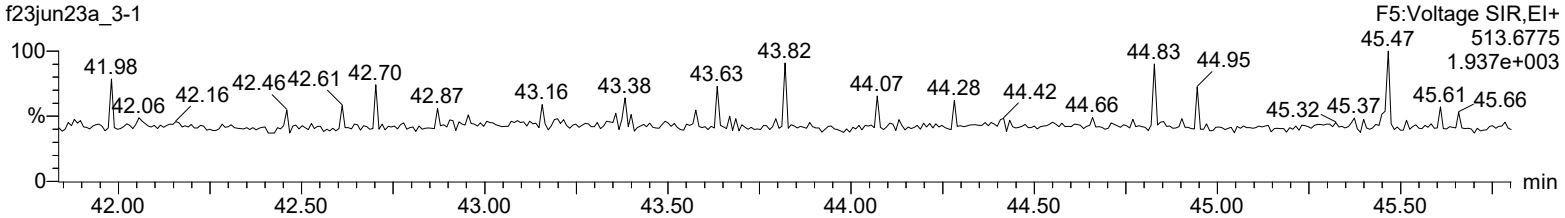
13C-OCDD



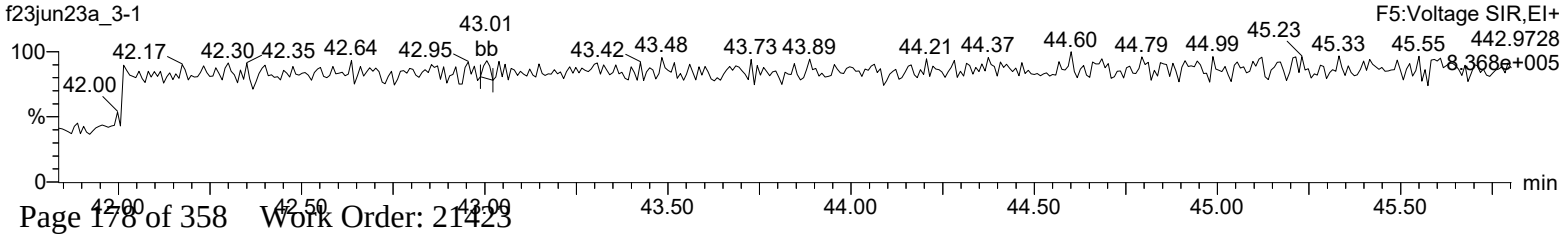
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21423**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034327**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCSD for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 09:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-2**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		213	pg/L	4.66	5.00
40321-76-4	1,2,3,7,8-PeCDD		998	pg/L	13.5	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		991	pg/L	12.3	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		993	pg/L	11.6	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1050	pg/L	12.0	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1020	pg/L	17.8	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1980	pg/L	44.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	3.36	10.0
57117-41-6	1,2,3,7,8-PeCDF		1040	pg/L	9.86	50.0
57117-31-4	2,3,4,7,8-PeCDF		1080	pg/L	9.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1010	pg/L	16.9	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1000	pg/L	15.1	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1030	pg/L	17.2	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1080	pg/L	24.6	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1090	pg/L	17.3	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1070	pg/L	27.2	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2240	pg/L	31.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1320	2000	pg/L	66.2	(20%-175%)
13C-1,2,3,7,8-PeCDD		1380	2000	pg/L	69.2	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1350	2000	pg/L	67.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	69.0	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1310	2000	pg/L	65.3	(22%-166%)
13C-OCDD		2300	4000	pg/L	57.4	(13%-199%)
13C-2,3,7,8-TCDF		1310	2000	pg/L	65.6	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	65.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1390	2000	pg/L	69.5	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1340	2000	pg/L	67.0	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1300	2000	pg/L	65.1	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1390	2000	pg/L	69.4	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1280	2000	pg/L	63.9	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1260	2000	pg/L	62.9	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1320	2000	pg/L	66.1	(20%-186%)
37Cl-2,3,7,8-TCDD		179	200	pg/L	89.7	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.69e3	1.14e4	2.01e4	31.30	1.001	0.76	NO	10.649	0.233	1.29e5	1116	115.8	1.66e5	1351	122.5	bd	bd
2	12378-PeCDD	4.55e4	2.88e4	7.43e4	34.15	1.000	1.58	NO	49.889	0.674	8.91e5	4136	215.5	5.07e5	3267	155.3	bd	bd
3	123478-HxCDD	3.47e4	2.70e4	6.17e4	36.77	1.001	1.29	NO	49.528	0.617	6.14e5	2057	298.5	4.67e5	3097	150.7	dd	bd
4	123678-HxCDD	4.28e4	3.34e4	7.62e4	36.86	1.001	1.28	NO	49.672	0.581	6.17e5	2057	300.1	4.67e5	3097	150.7	dd	dd
5	123789-HxCDD	4.17e4	3.08e4	7.25e4	37.08	1.007	1.35	NO	52.261	0.598	5.28e5	2057	256.5	4.30e5	3097	138.8	dd	dd
6	1234678-HpCDD	3.59e4	3.05e4	6.64e4	40.14	1.000	1.18	NO	50.927	0.892	4.16e5	2996	138.9	4.07e5	2644	154.0	bd	bb
7	OCDD	4.00e4	4.33e4	8.33e4	44.37	1.000	0.93	NO	98.888	2.24	3.93e5	4012	97.9	4.09e5	2555	160.1	bd	bd
8	2378-TCDF	1.75e4	2.16e4	3.91e4	30.58	1.001	0.81	NO	11.184	0.168	2.18e5	967	225.1	2.29e5	1489	153.9	bd	bd
9	12378-PeCDF	1.03e5	6.54e4	1.68e5	33.35	1.000	1.57	NO	51.803	0.493	2.29e6	8407	272.3	1.31e6	4922	265.5	bb	bd
10	23478-PeCDF	1.19e5	7.41e4	1.93e5	33.96	1.000	1.61	NO	54.198	0.469	2.43e6	8407	289.3	1.49e6	4922	302.0	bb	bb
11	123478-HxCDF	7.11e4	5.46e4	1.26e5	36.05	1.001	1.30	NO	50.414	0.846	1.19e6	7228	165.1	9.29e5	7015	132.4	bd	bd
12	123678-HxCDF	8.25e4	6.35e4	1.46e5	36.15	1.001	1.30	NO	50.121	0.754	1.25e6	7228	173.0	9.35e5	7015	133.3	dd	dd
13	234678-HxCDF	7.81e4	5.96e4	1.38e5	36.63	1.000	1.31	NO	51.345	0.862	1.16e6	7228	159.8	9.27e5	7015	132.1	bd	bd
14	123789-HxCDF	6.00e4	4.82e4	1.08e5	37.40	1.000	1.25	NO	53.809	1.23	7.94e5	7228	109.9	6.73e5	7015	96.0	dd	bd
15	1234678-HpCDF	7.73e4	7.15e4	1.49e5	38.88	1.000	1.08	NO	54.722	0.867	1.01e6	6221	161.7	9.73e5	6950	140.0	bd	bd
16	1234789-HpCDF	5.76e4	5.97e4	1.17e5	40.80	1.000	0.96	NO	53.446	1.36	6.68e5	6221	107.4	7.46e5	6950	107.4	bb	bd
17	OCDF	7.03e4	7.91e4	1.49e5	44.68	1.007	0.89	NO	112.085	1.55	6.50e5	3812	170.4	7.74e5	3355	230.7	bd	bd
18	13C-2378-TCDD	7.71e4	9.42e4	1.71e5	31.27	1.017	0.82	NO	66.198	0.454	1.08e6	2974	363.7	1.33e6	2690	495.7	bd	bd
19	13C-12378-PeCDD	7.79e4	4.99e4	1.28e5	34.14	1.110	1.56	NO	69.163	0.859	1.44e6	3417	420.9	9.41e5	4236	222.2	bb	bd
20	13C-123478-HxCDD	6.49e4	5.12e4	1.16e5	36.74	0.991	1.27	NO	67.415	1.29	1.09e6	5421	200.9	9.09e5	6238	145.8	bd	bd
21	13C-123678-HxCDD	8.14e4	6.27e4	1.44e5	36.83	0.993	1.30	NO	69.041	1.07	1.18e6	5421	217.2	9.04e5	6238	144.9	dd	dd
22	13C-1234678-HpCDD	5.56e4	5.06e4	1.06e5	40.14	1.082	1.10	NO	65.288	0.914	6.75e5	4414	152.8	6.23e5	3369	185.0	bd	bd
23	13C-OCDD	7.18e4	8.03e4	1.52e5	44.36	1.196	0.89	NO	114.760	1.13	6.24e5	3348	186.5	6.96e5	4506	154.5	bd	bd
24	13C-2378-TCDF	1.15e5	1.44e5	2.58e5	30.55	0.993	0.80	NO	65.570	0.214	1.20e6	1794	669.7	1.45e6	2266	640.3	bb	bd
25	13C-12378-PeCDF	1.61e5	9.35e4	2.55e5	33.34	1.084	1.73	NO	65.219	0.947	3.36e6	10457	321.1	1.89e6	7388	255.5	bd	bd
26	13C-23478-PeCDF	1.58e5	9.77e4	2.56e5	33.96	1.104	1.62	NO	69.500	1.01	3.15e6	10457	301.5	1.94e6	7388	263.1	bb	bd
27	13C-123478-HxCDF	6.00e4	1.16e5	1.76e5	36.03	0.971	0.52	NO	67.022	0.937	1.01e6	5923	171.0	1.92e6	6949	277.0	bd	bd
28	13C-123678-HxCDF	7.41e4	1.37e5	2.11e5	36.13	0.974	0.54	NO	65.117	0.757	1.20e6	5923	202.8	2.11e6	6949	303.1	dd	dd
29	13C-234678-HxCDF	6.76e4	1.21e5	1.89e5	36.62	0.987	0.56	NO	69.373	0.904	1.04e6	5923	175.9	1.90e6	6949	273.5	bd	bd
30	13C-123789-HxCDF	5.28e4	1.02e5	1.54e5	37.40	1.009	0.52	NO	63.853	1.02	7.58e5	5923	128.0	1.40e6	6949	201.2	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.08e4	1.36e5	1.96e5	38.88	1.048	0.45	NO	62.915	1.00	8.49e5	6956	122.0	1.76e6	9389	187.0	bb	bb
32	13C-1234789-HpCDF	4.93e4	1.12e5	1.61e5	40.81	1.101	0.44	NO	66.115	1.28	5.42e5	6956	78.0	1.27e6	9389	135.5	bd	bb
33	13C-1234-TCDD	1.02e5	1.26e5	2.27e5	30.75	0.000	0.81	NO	100.000	0.517	1.23e6	2974	412.6	1.49e6	2690	555.5	bd	bd
34	13C-123789-HxCDD	1.14e5	8.93e4	2.03e5	37.08	0.000	1.27	NO	100.000	1.10	1.49e6	5421	275.0	1.15e6	6238	185.1	dd	dd
35	37Cl-2378-TCDD	2.29e4		2.29e4	31.30	1.018			8.965	0.103	3.25e5	1268	256.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

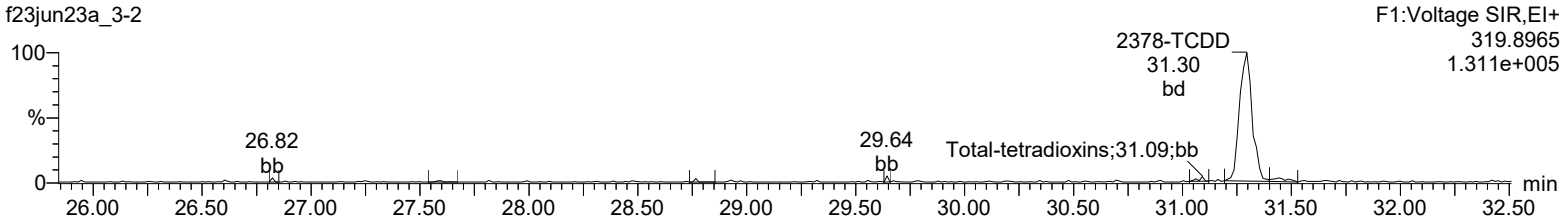
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

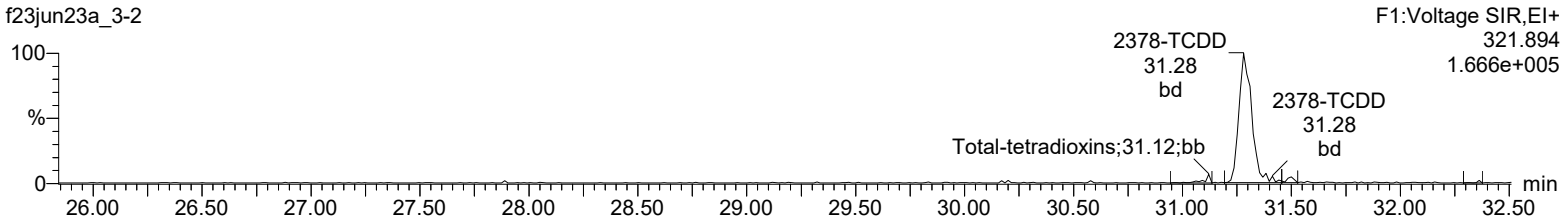
06/28/2023

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

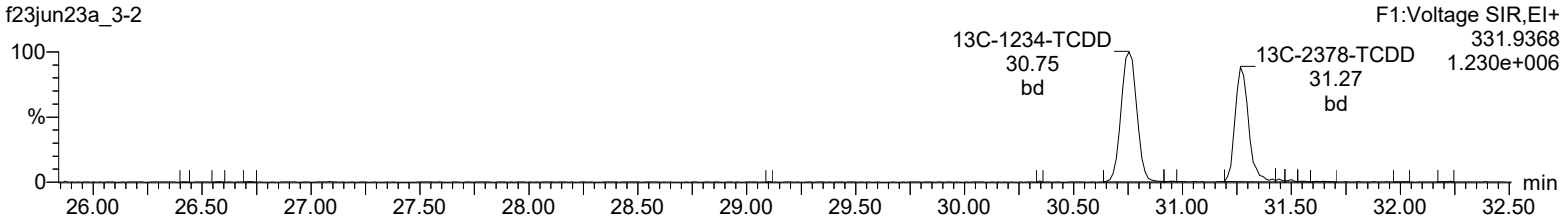
Total-tetradioxins



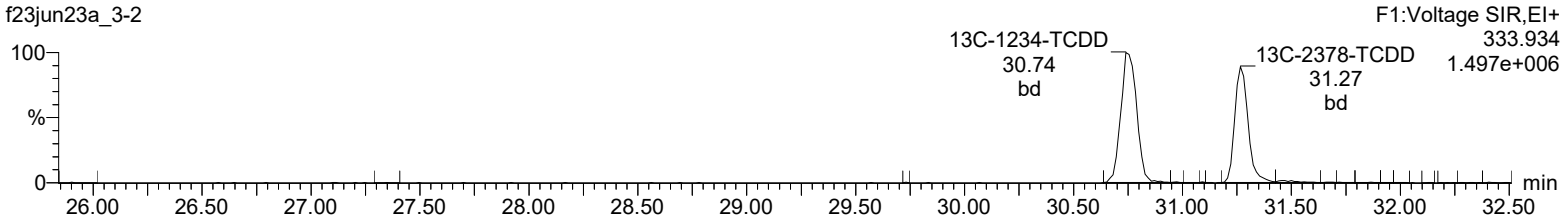
Total-tetradioxins



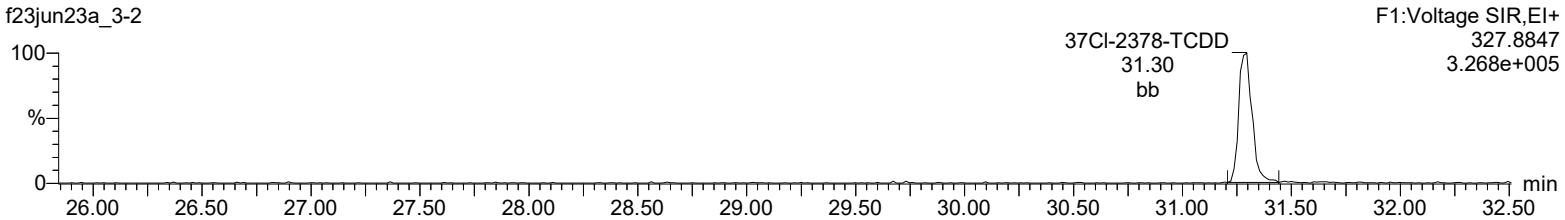
13C-2378-TCDD



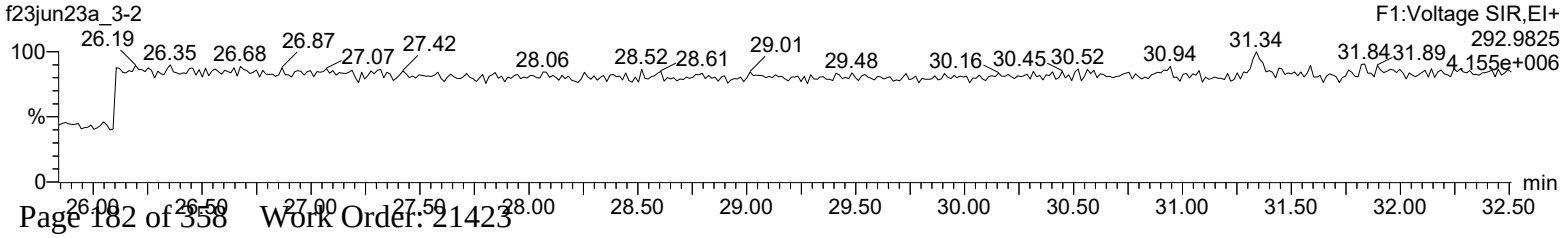
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



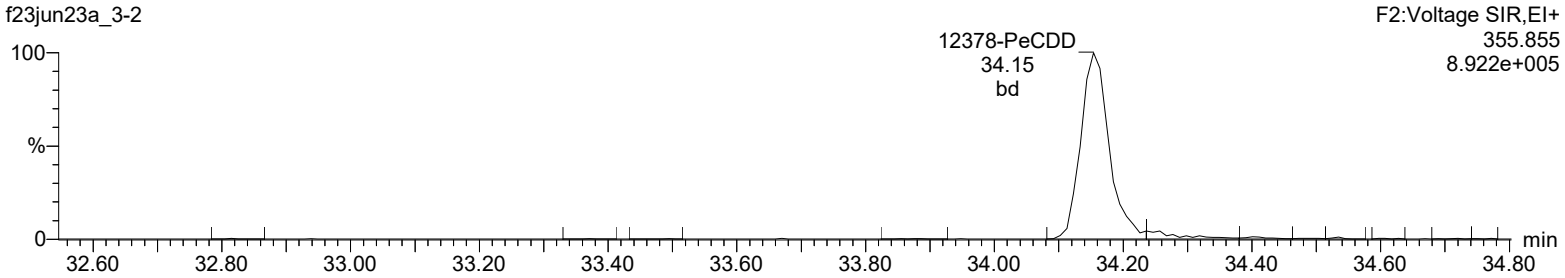
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

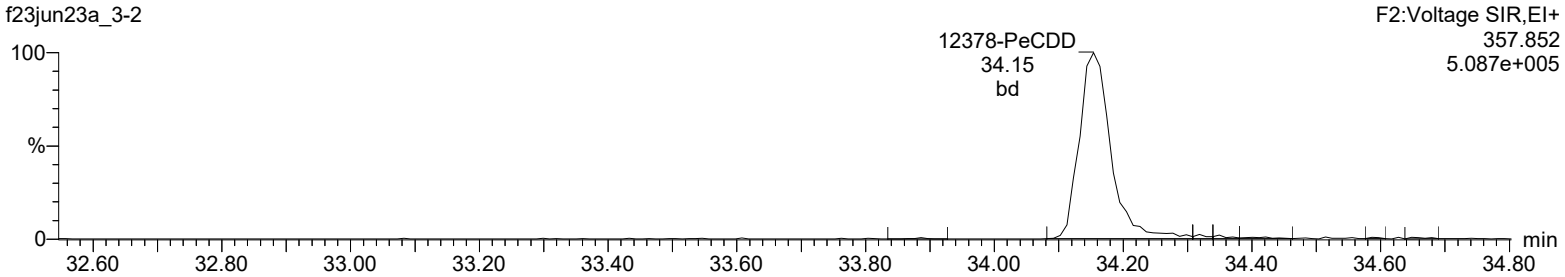
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

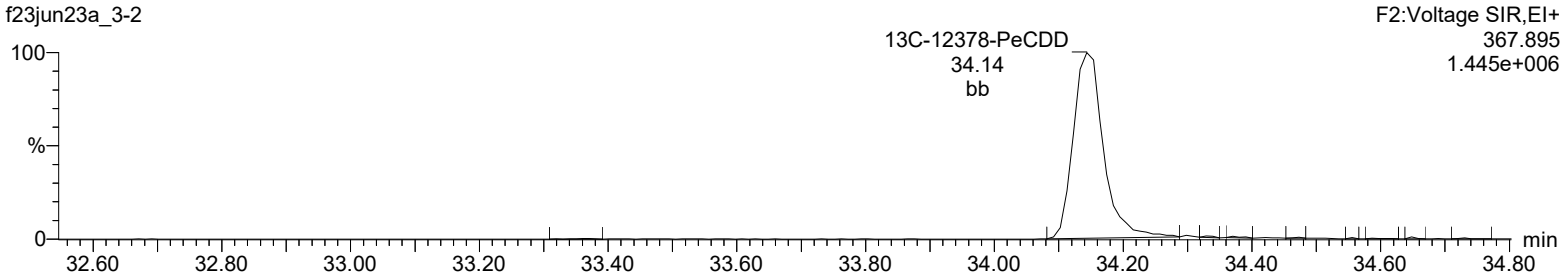
Total-pentadioxins



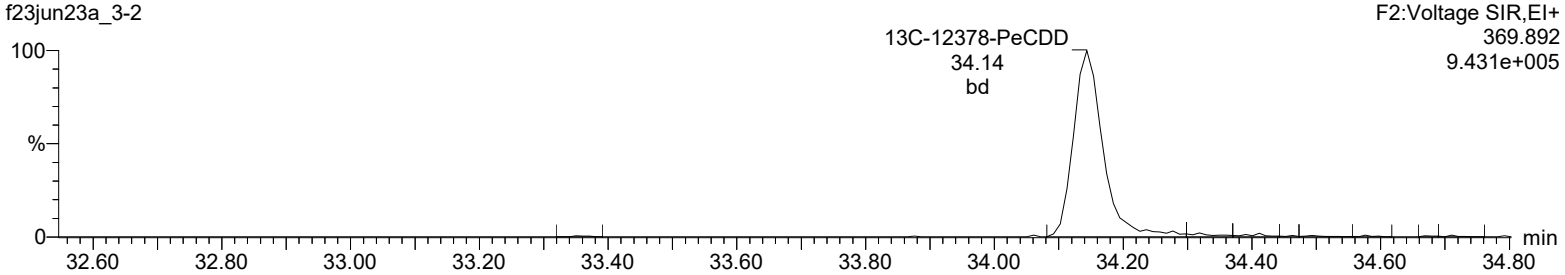
Total-pentadioxins



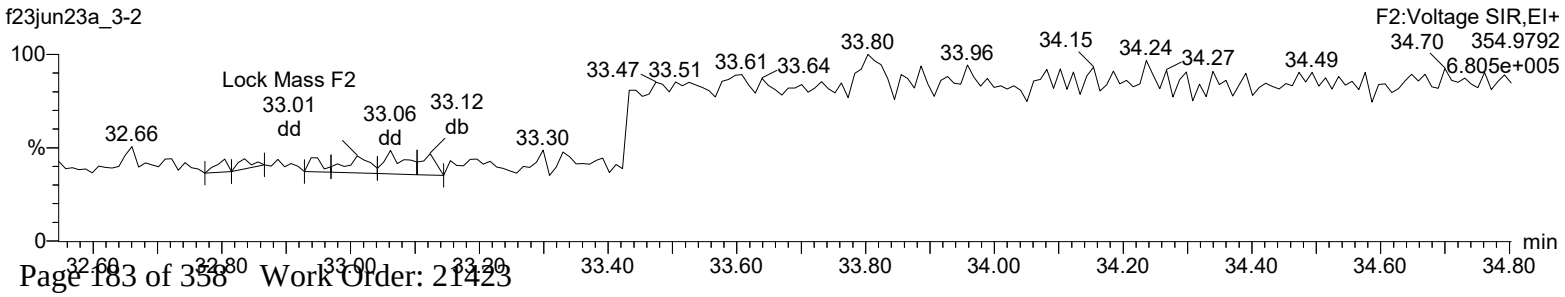
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



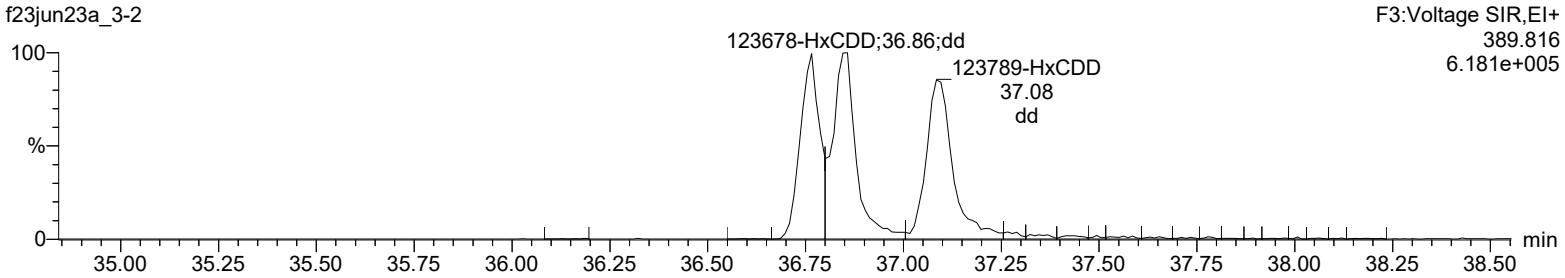
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

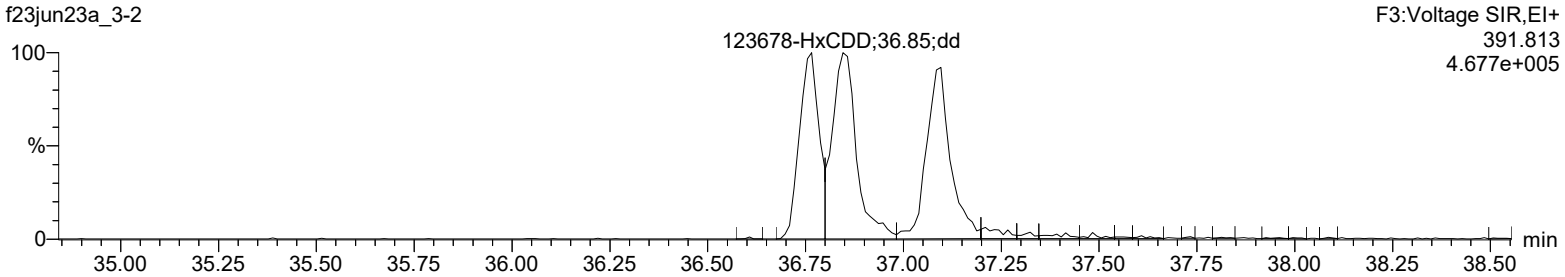
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

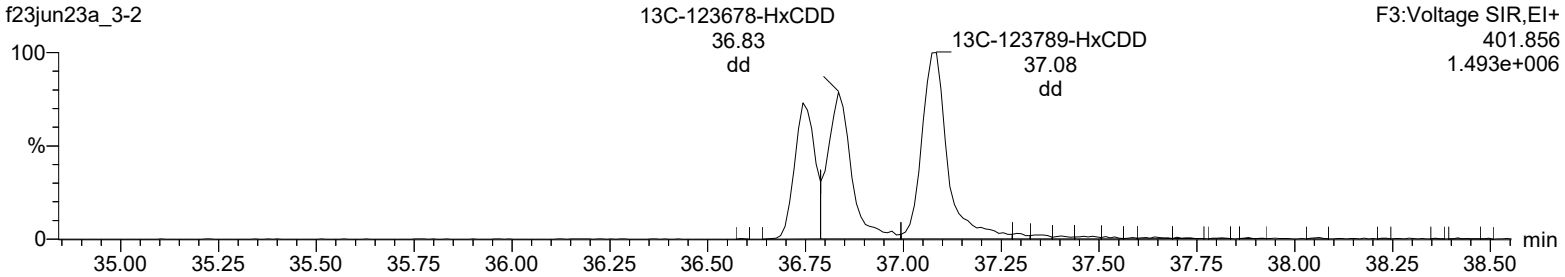
Total-hexadioxins



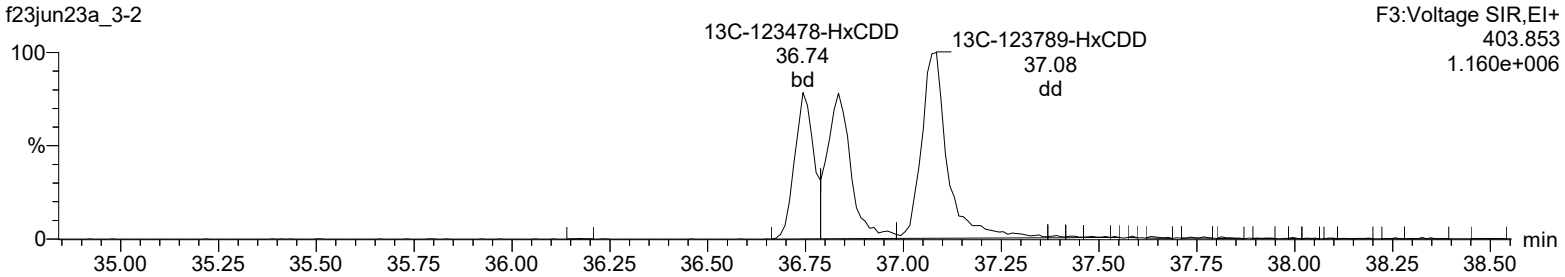
Total-hexadioxins



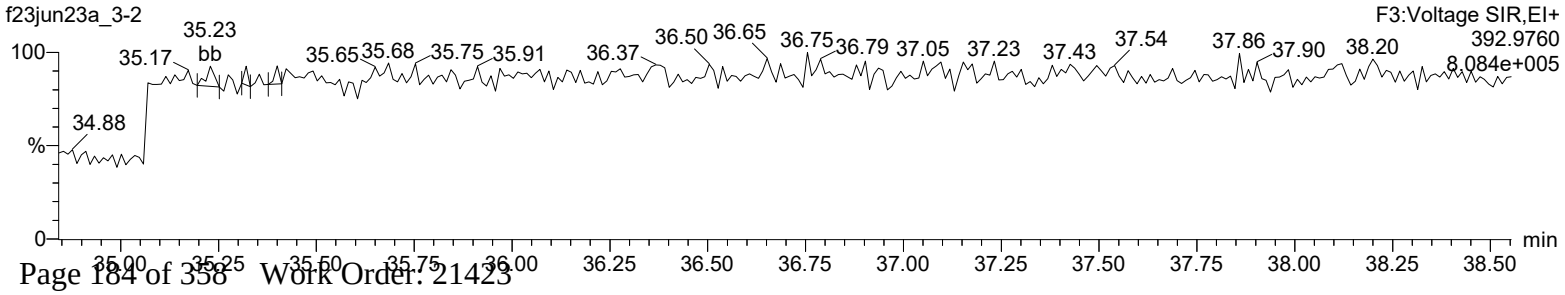
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



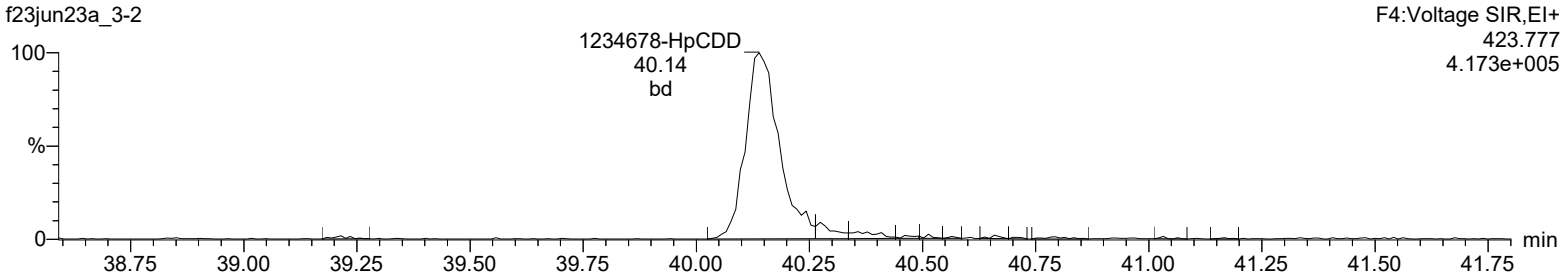
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

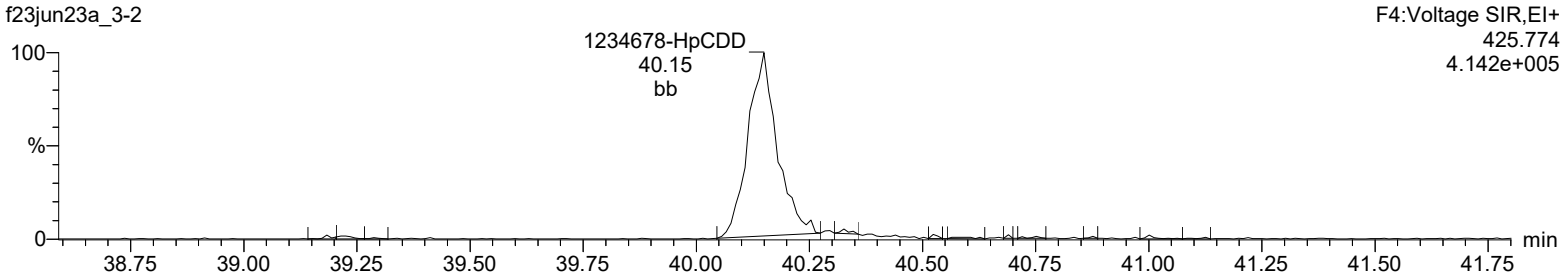
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

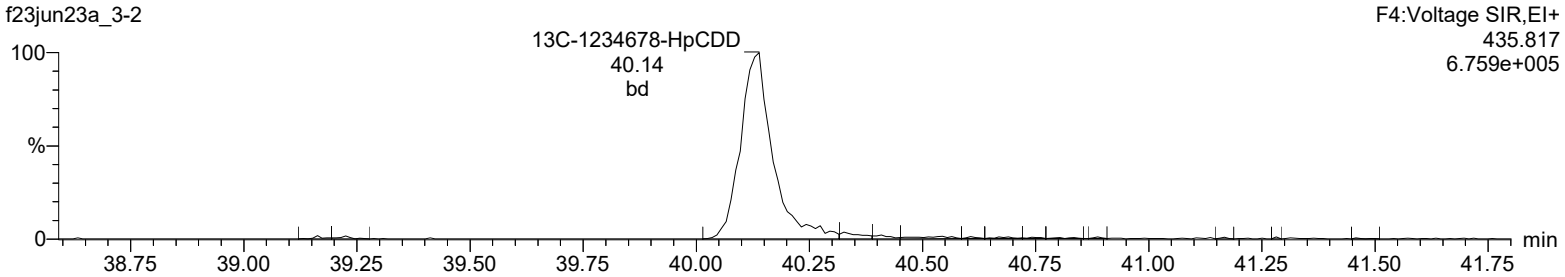
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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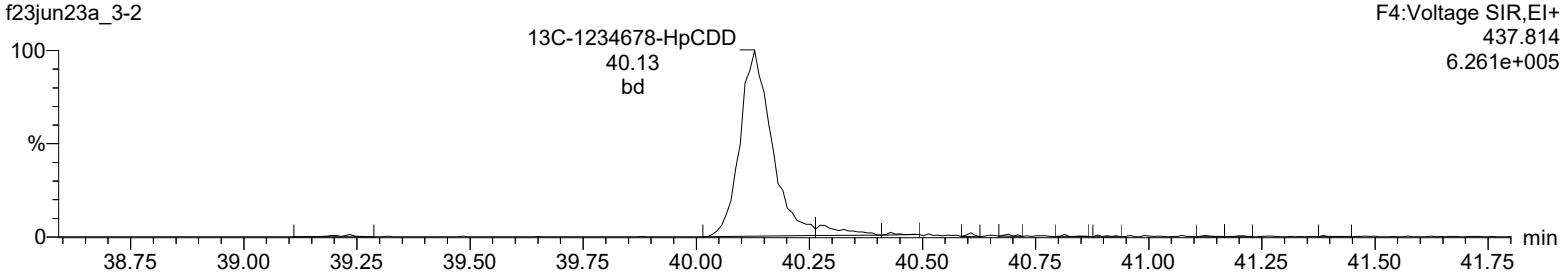
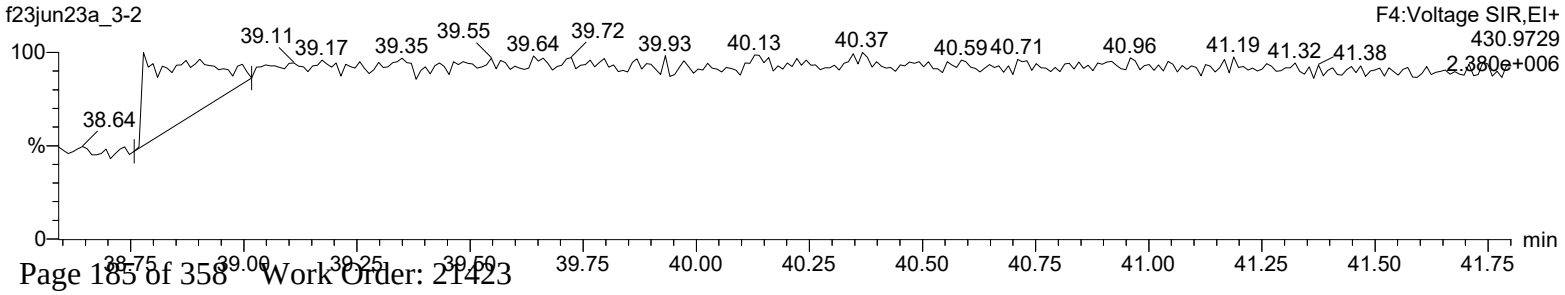


Lock Mass F4



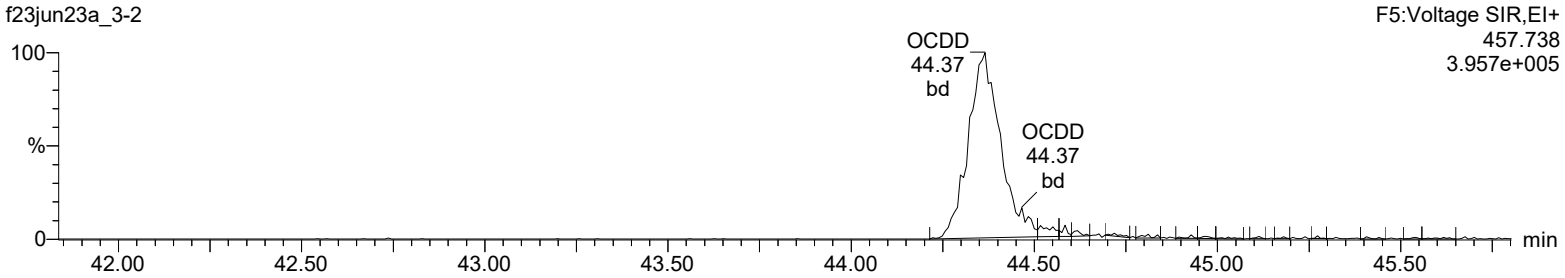
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

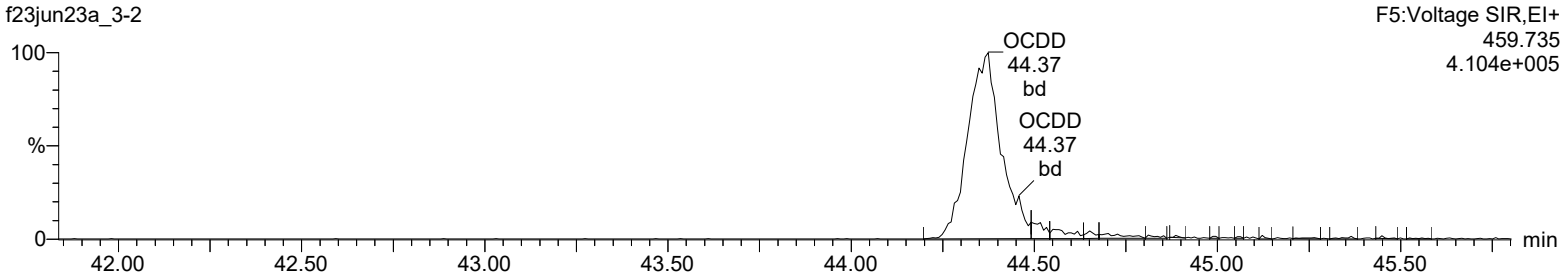
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

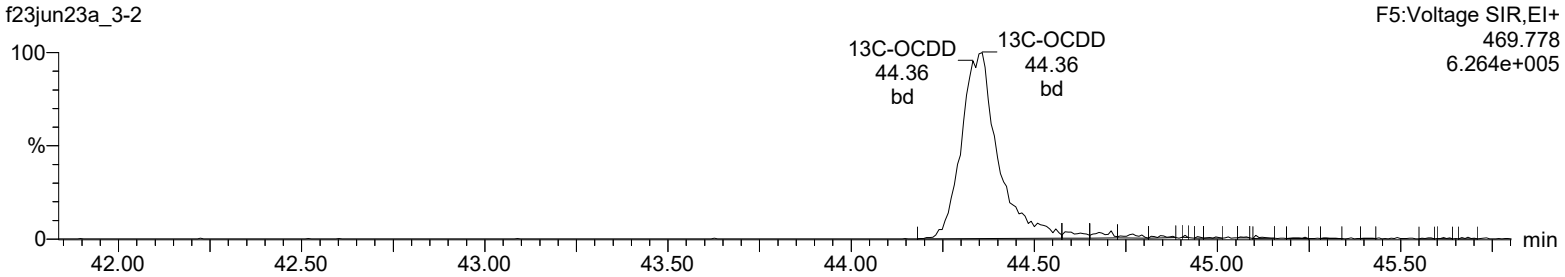
OCDD



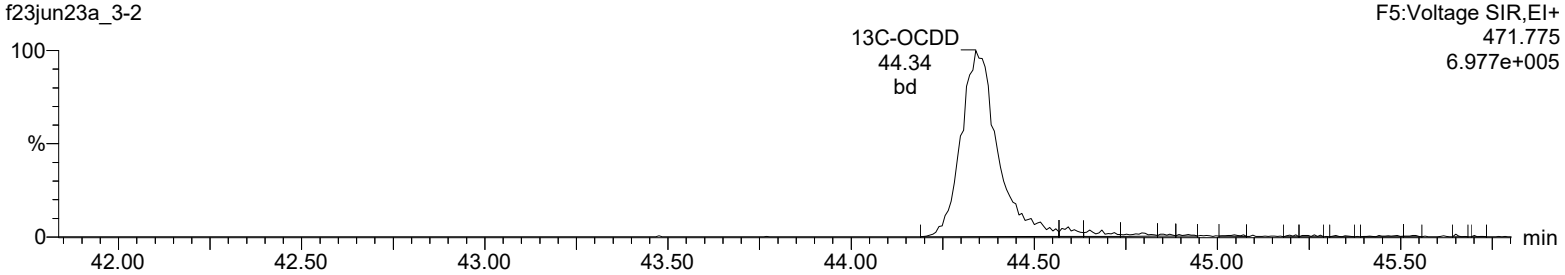
OCDD



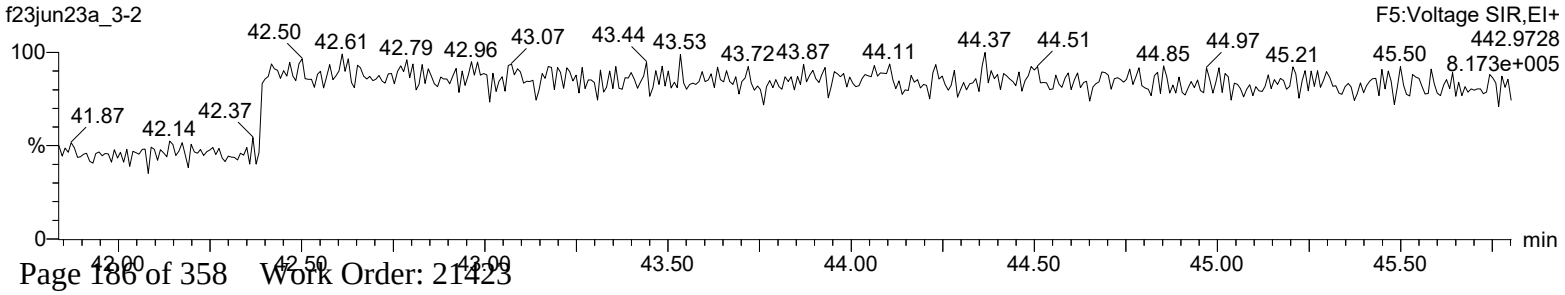
13C-OCDD



13C-OCDD



Lock Mass F5



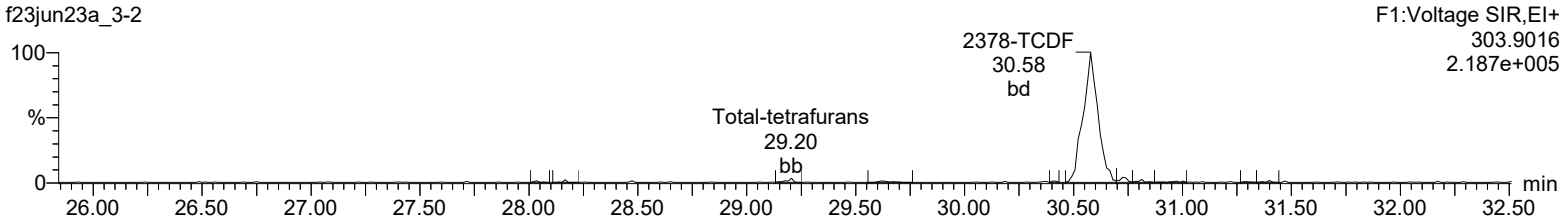
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

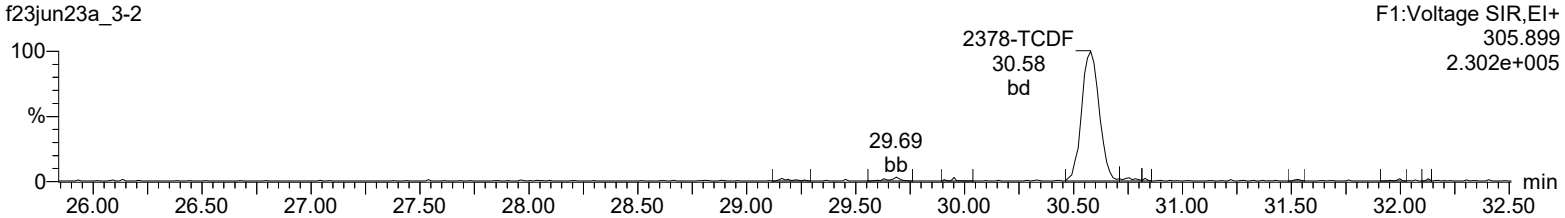
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

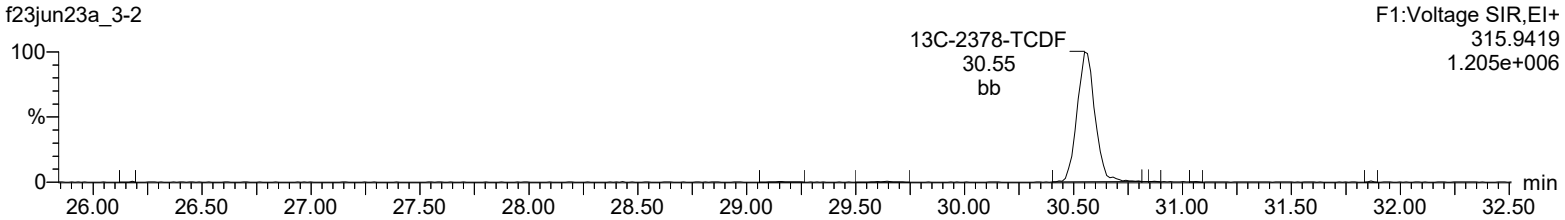
Total-tetrafurans



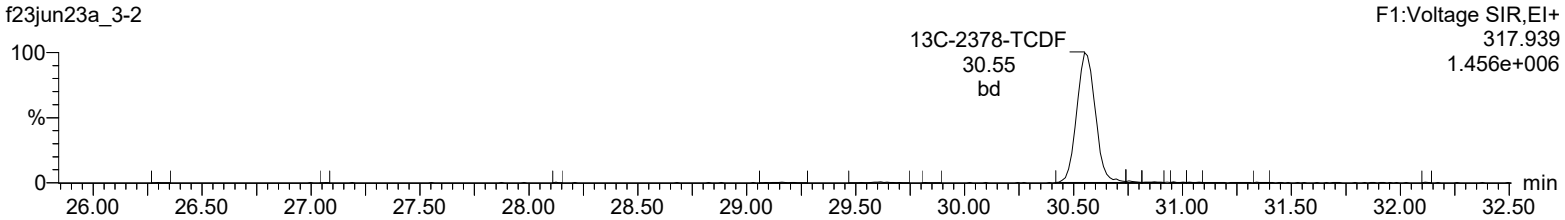
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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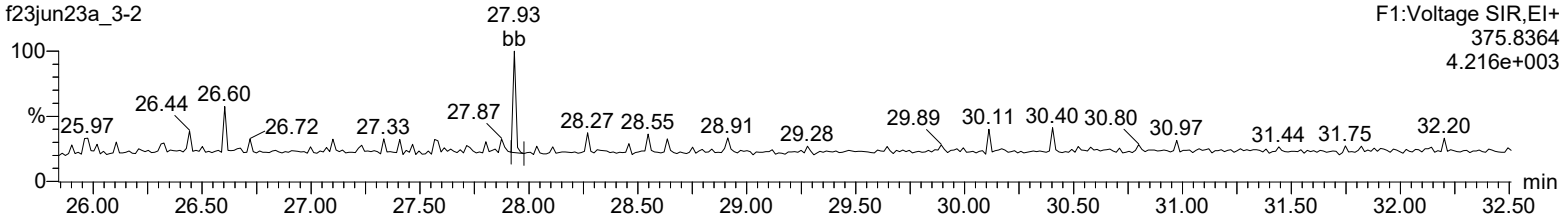
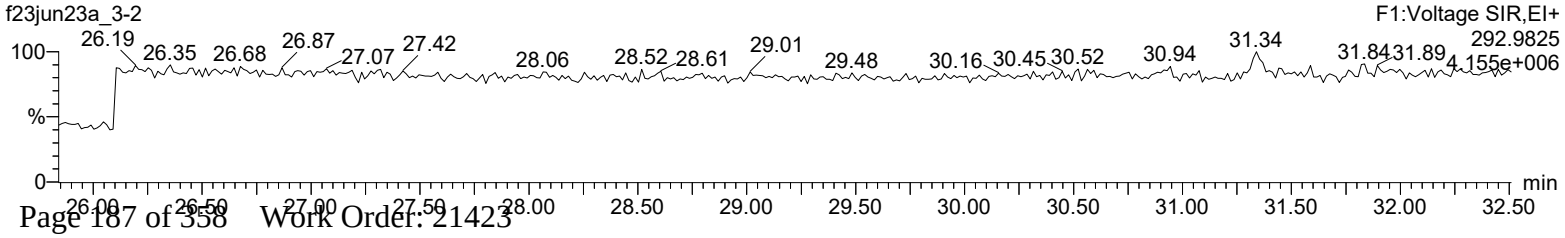


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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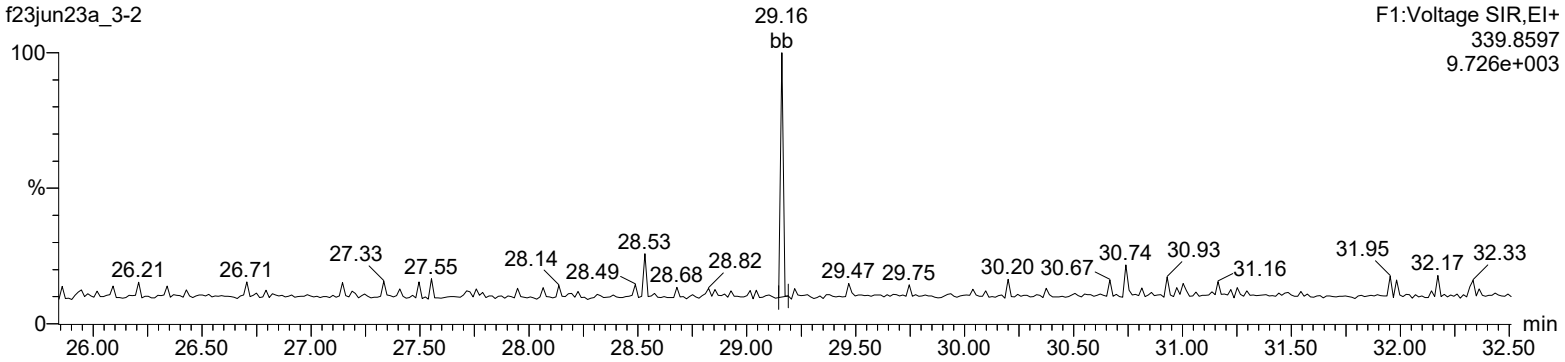
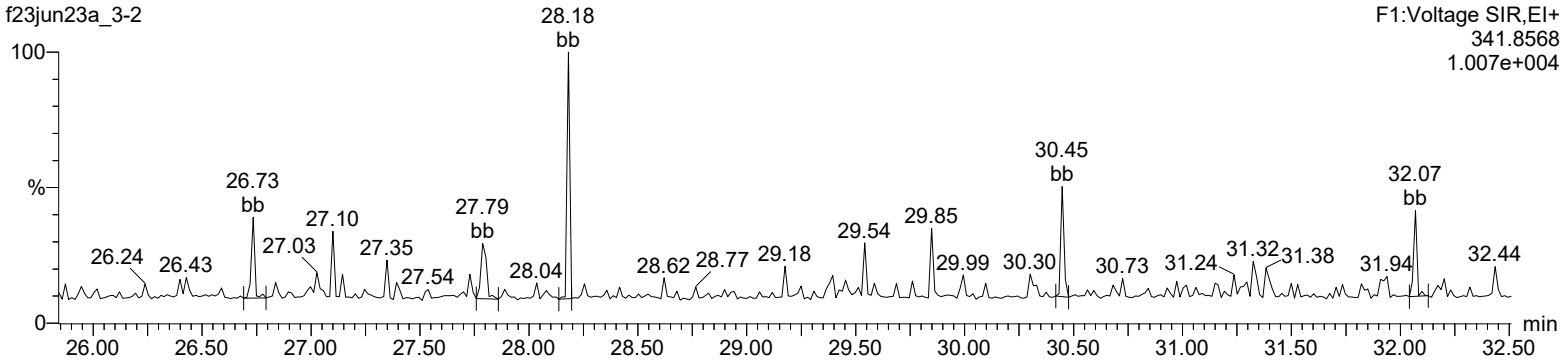
Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

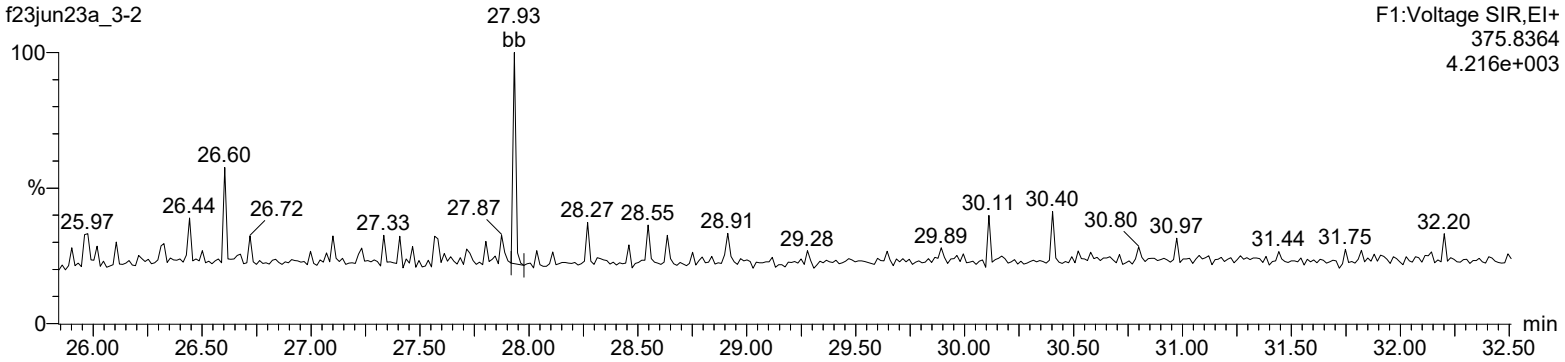
Total-pentafurans (F1)



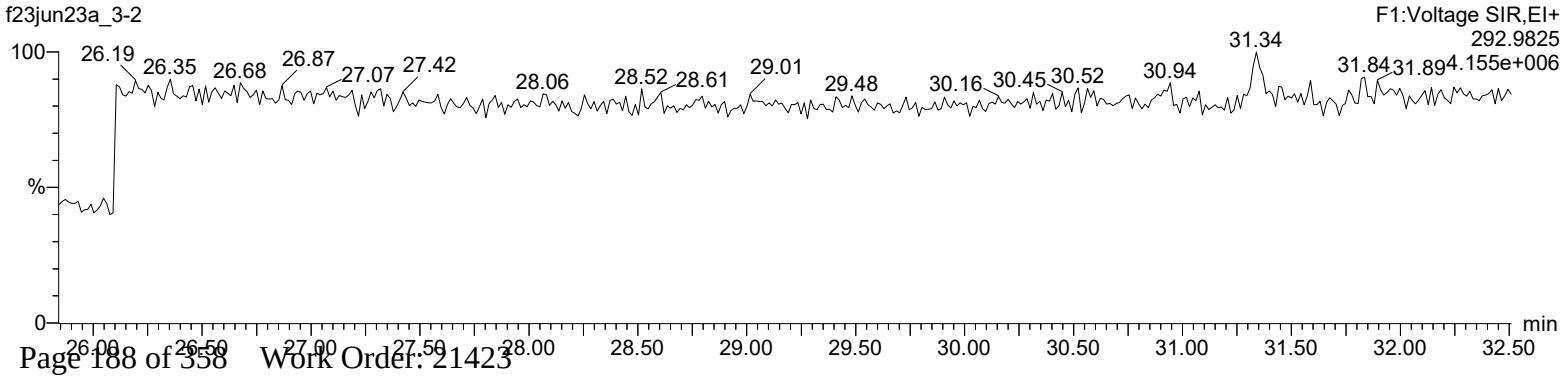
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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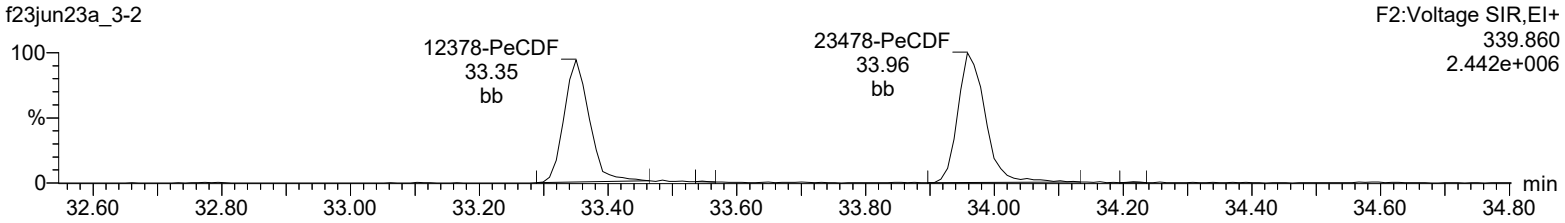
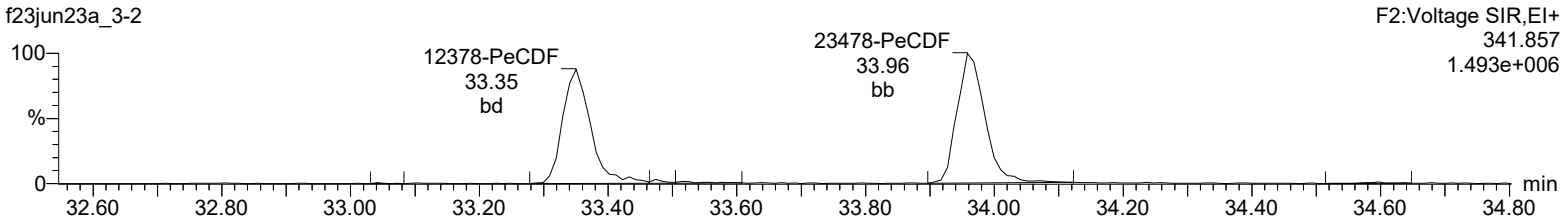
Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

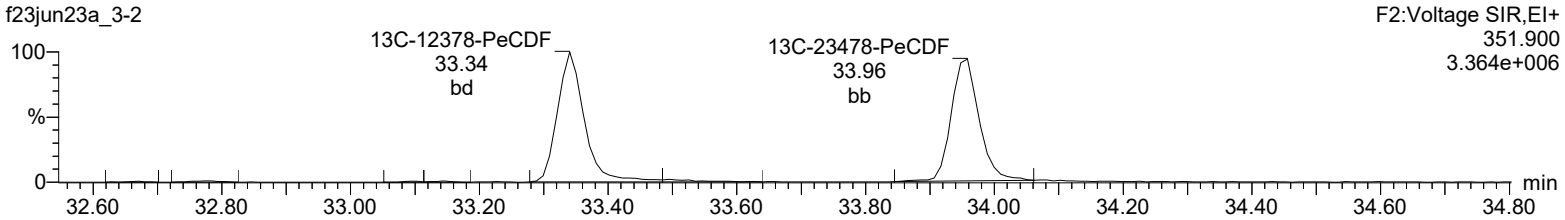
Total-pentafurans



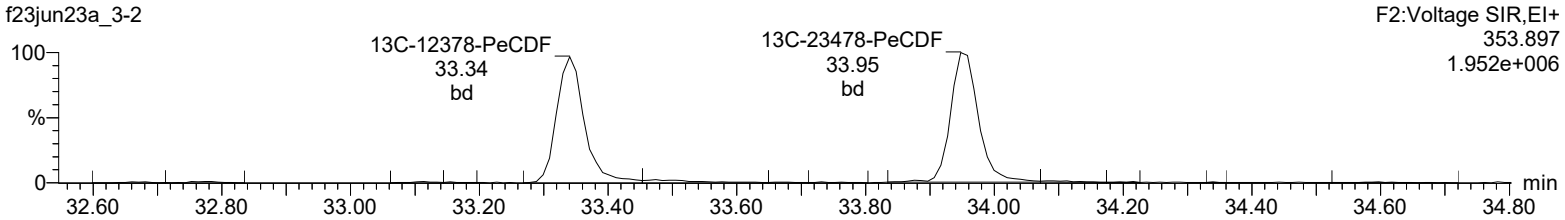
Total-pentafurans



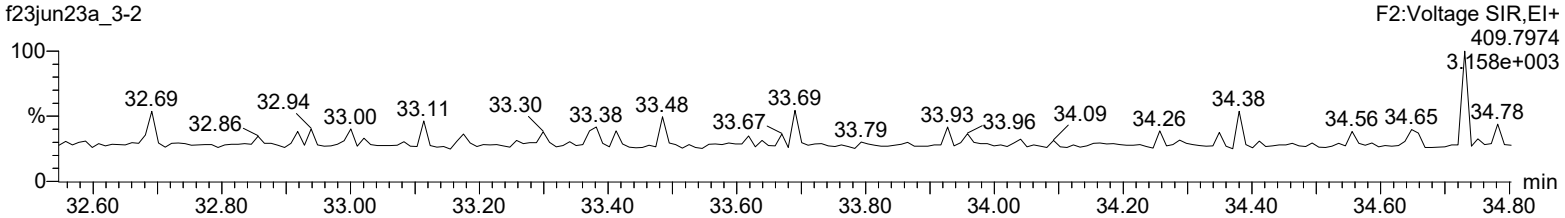
13C-12378-PeCDF



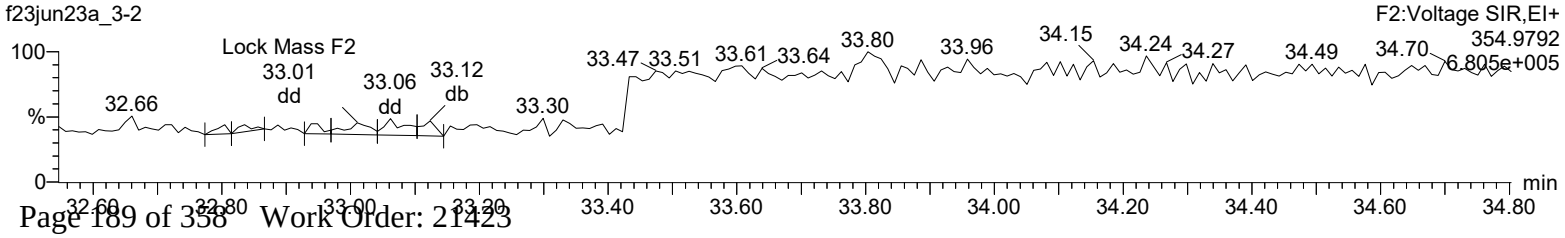
13C-12378-PeCDF



HpDPE



Lock Mass F2



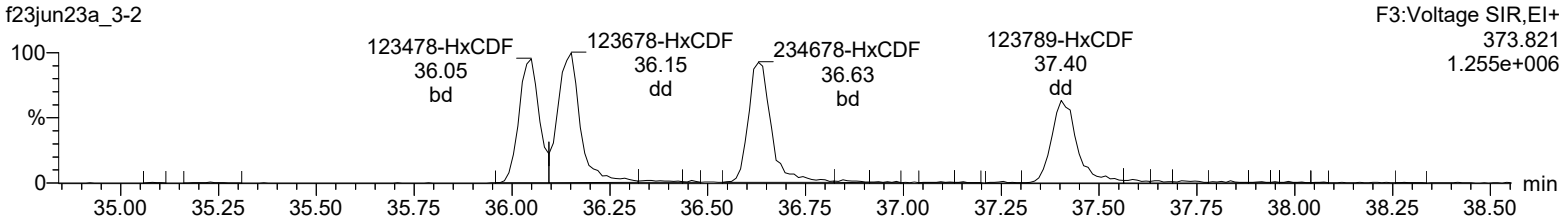
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

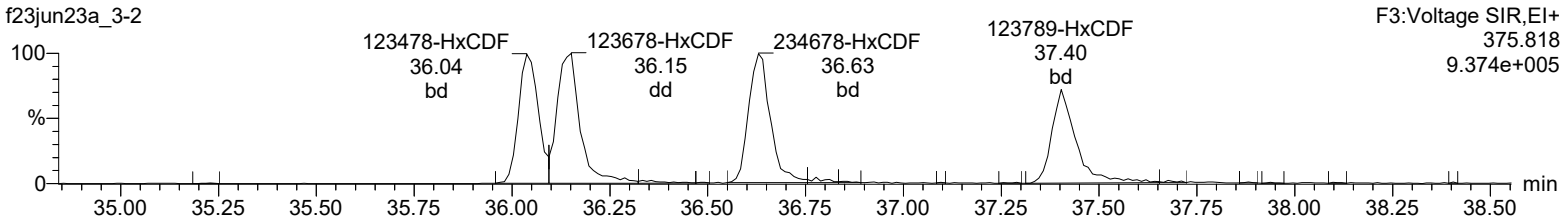
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

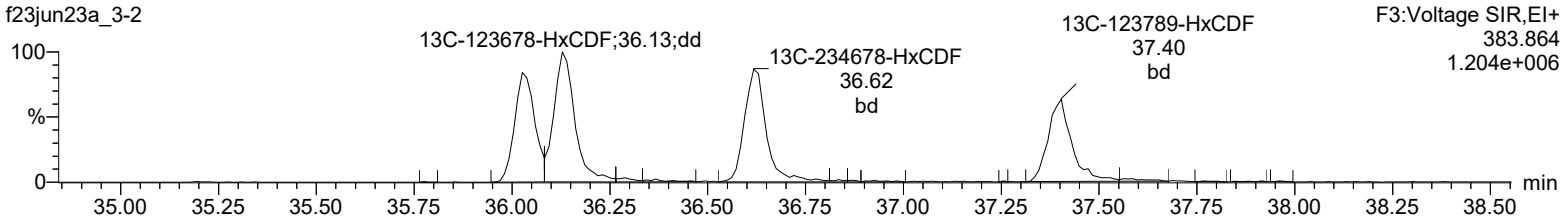
Total-hexafurans



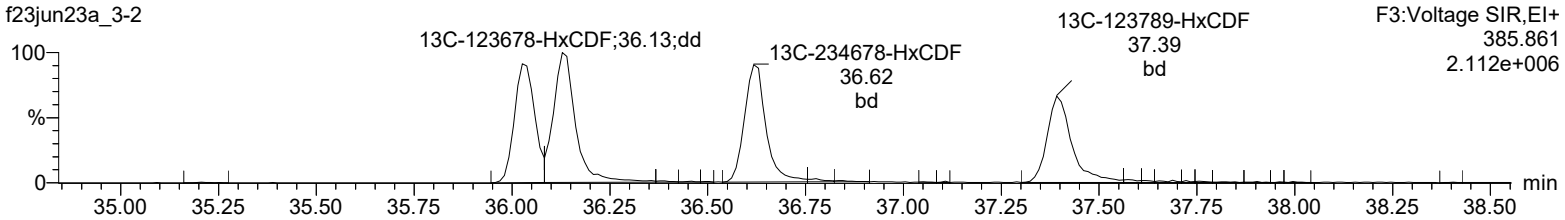
Total-hexafurans



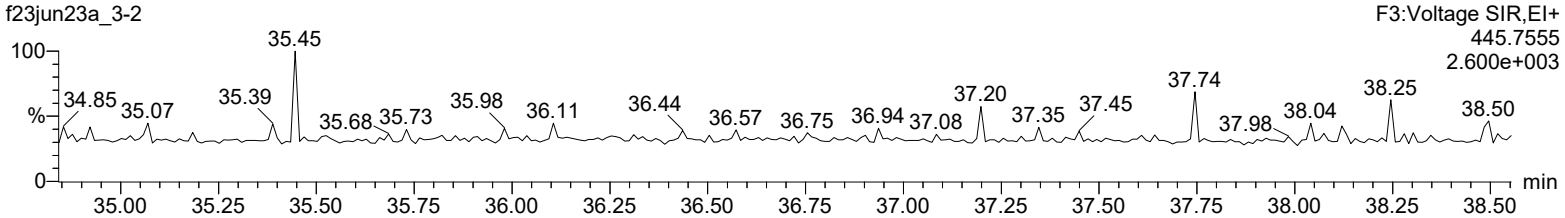
13C-123478-HxCDF



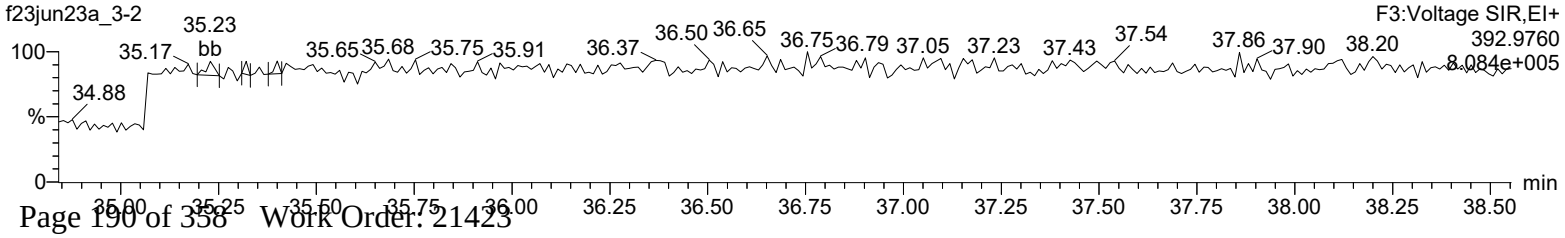
13C-123478-HxCDF



OcDPE



Lock Mass F3



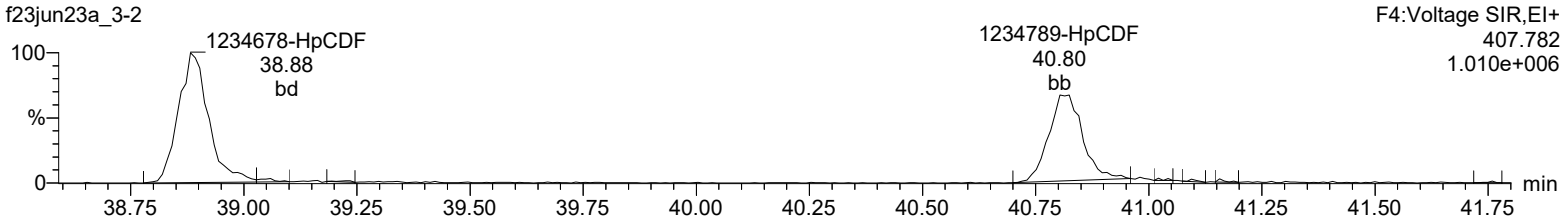
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

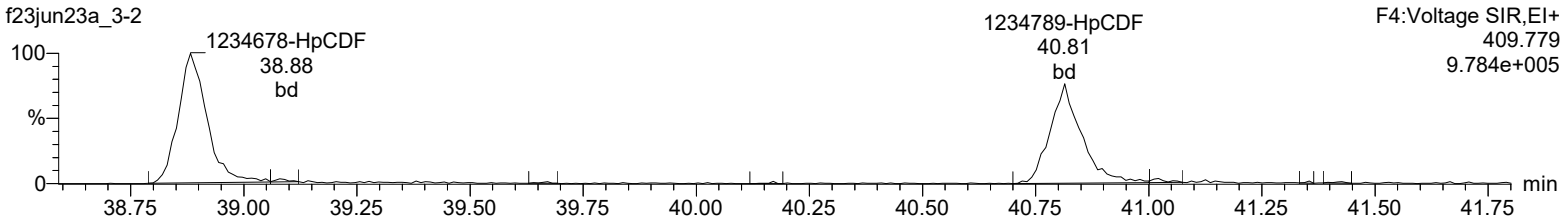
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

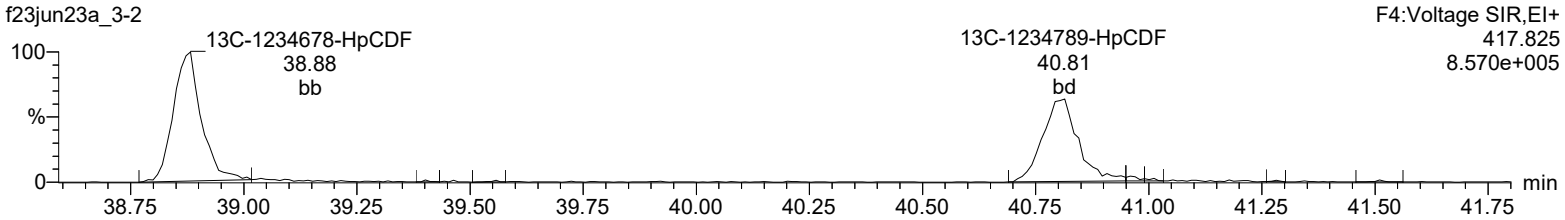
Total-heptafurans



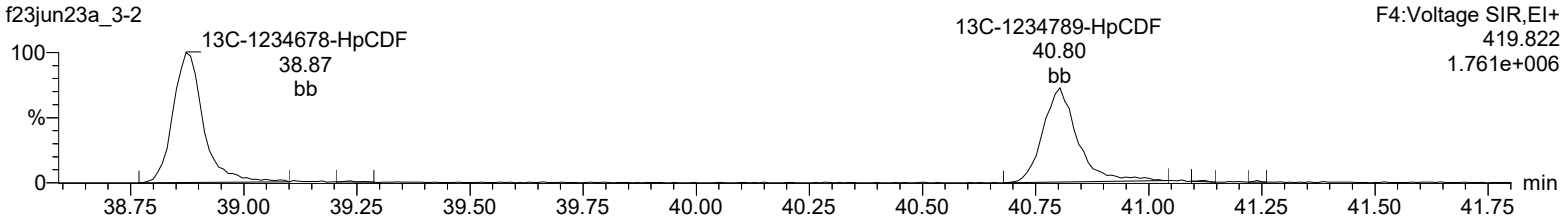
Total-heptafurans



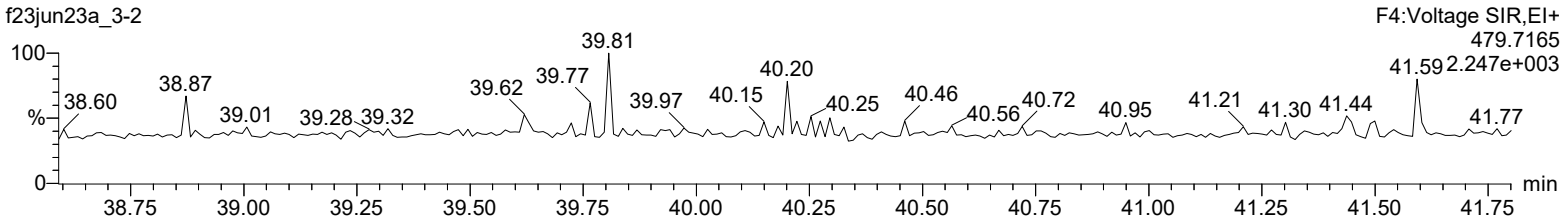
13C-1234678-HpCDF



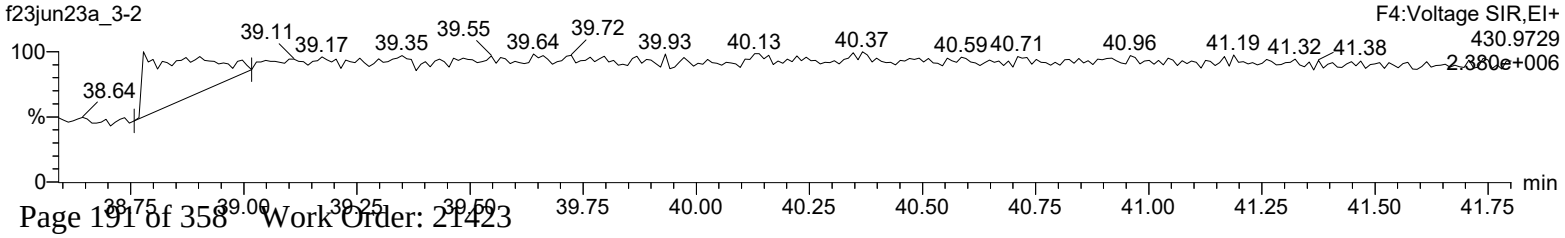
13C-1234678-HpCDF



NoDPE



Lock Mass F4



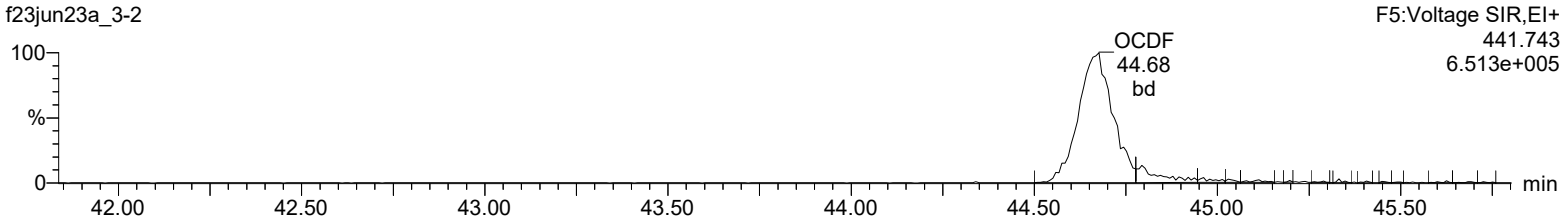
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

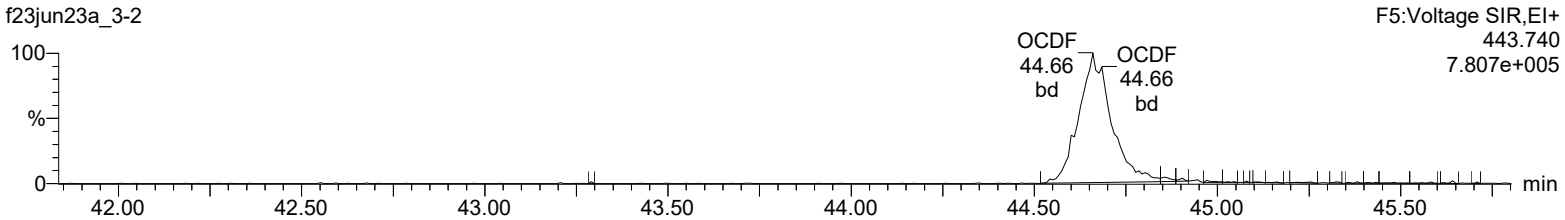
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

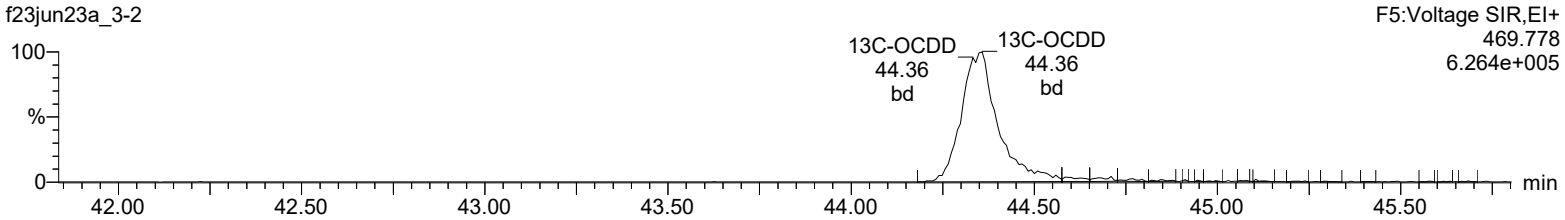
OCDF



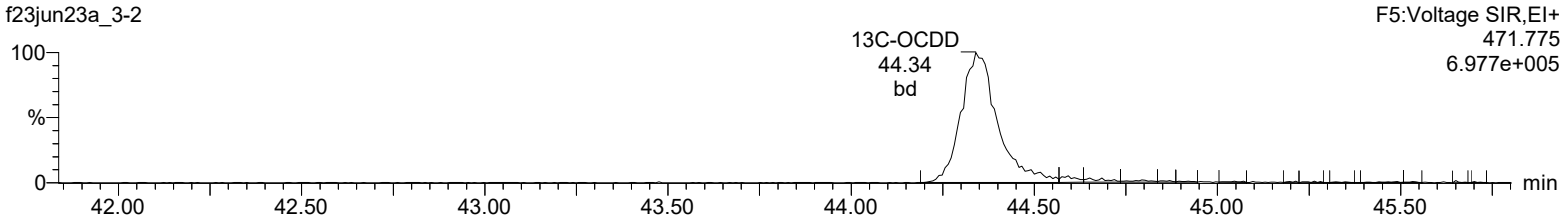
OCDF



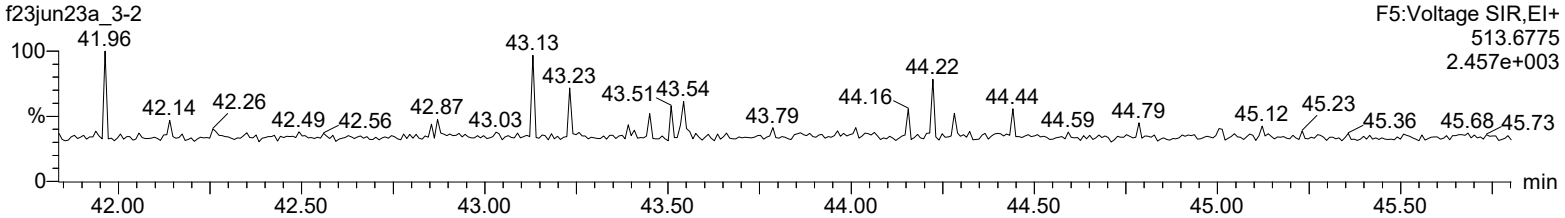
13C-OCDD



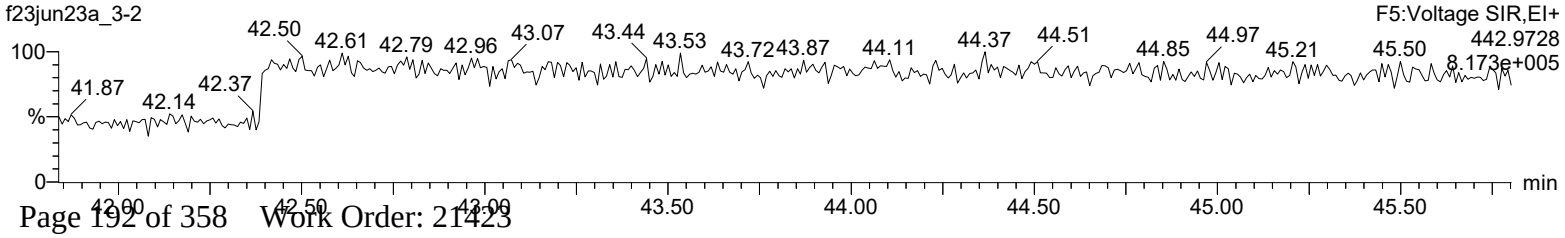
13C-OCDD



DeDPE



Lock Mass F5



Initial Calibration Data

RUN LOG

06/06/2023 06/06/2023

Instrument: HRP722_2

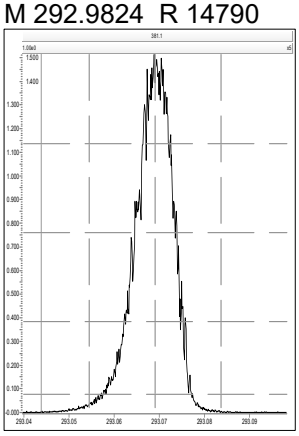
Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f01jun23d-1	01-JUN-2023 19:02:31	Skye McKinnon	CS3WT UD230328-04.1 CPSZS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-2	01-JUN-2023 19:50:39	Skye McKinnon	SB DIBLKCJ		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-3	01-JUN-2023 20:39:34	Skye McKinnon	CS0.5 UD230407-01.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-4	01-JUN-2023 21:28:29	Skye McKinnon	CS1 UD220929-05 CS153		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-5	01-JUN-2023 22:17:23	Skye McKinnon	CS2 UD220929-06 CS254		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-6	01-JUN-2023 23:06:18	Skye McKinnon	CS3 UD220929-07 CS3AF		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-7	01-JUN-2023 23:55:11	Skye McKinnon	CS4 UD220929-08 CS453		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-8	02-JUN-2023 00:44:05	Skye McKinnon	CS5 UD220929-09 CS553		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-9	02-JUN-2023 01:33:00	Skye McKinnon	SB DIBLKCK		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-10	02-JUN-2023 02:21:55	Skye McKinnon	CS3WT UD230328-04.1 CPSZT		1 uL	dioxin_db5ms-hrp722_2	10K_DX

File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

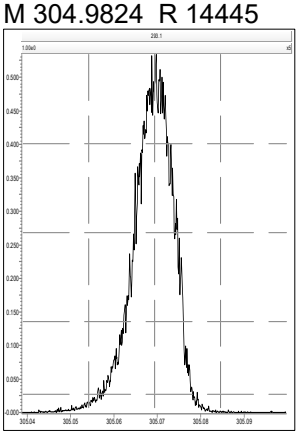
Printed: Thursday, June 01, 2023 18:42:07 Eastern Daylight Time

06/02/2023 06/02/2023

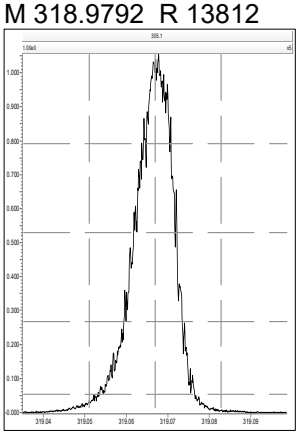
M 292.9824 R 14790



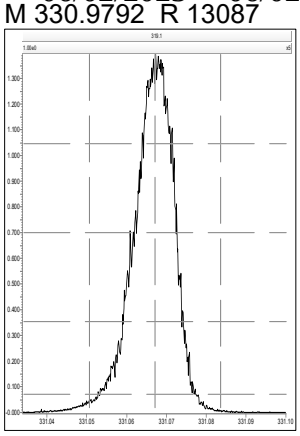
M 304.9824 R 14445



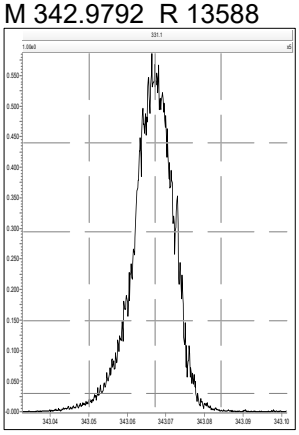
M 318.9792 R 13812



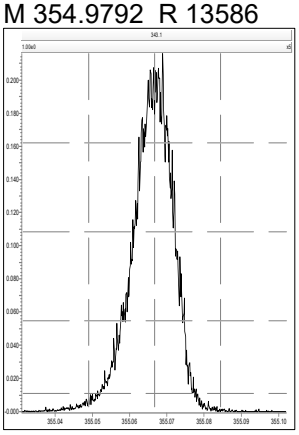
M 330.9792 R 13087



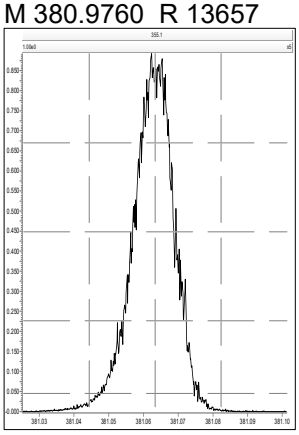
M 342.9792 R 13588



M 354.9792 R 13586



M 380.9760 R 13657

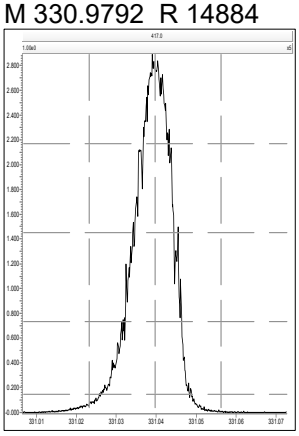


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

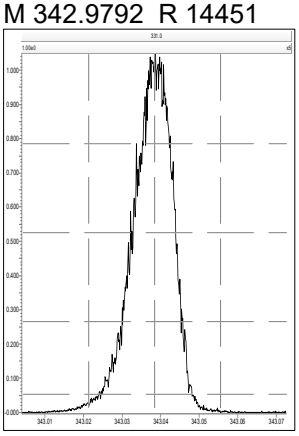
Printed: Thursday, June 01, 2023 18:43:07 Eastern Daylight Time

06/02/2023 06/02/2023

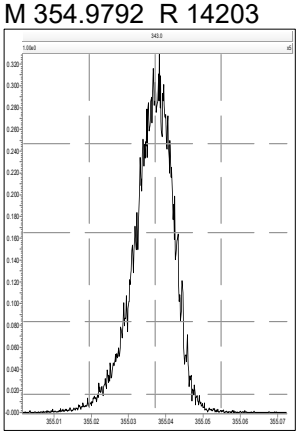
M 330.9792 R 14884



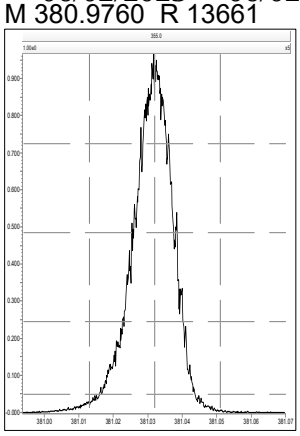
M 342.9792 R 14451



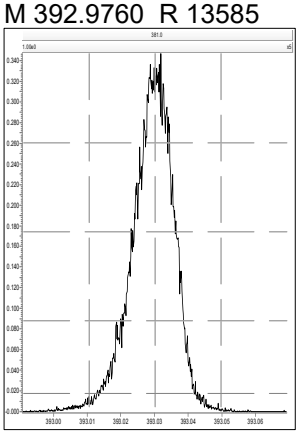
M 354.9792 R 14203



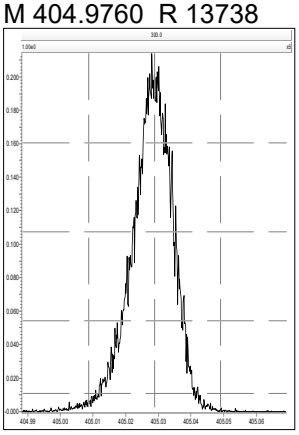
M 380.9760 R 13661



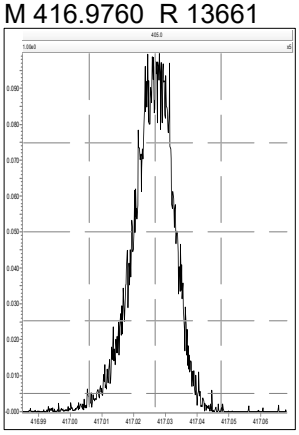
M 392.9760 R 13585



M 404.9760 R 13738



M 416.9760 R 13661

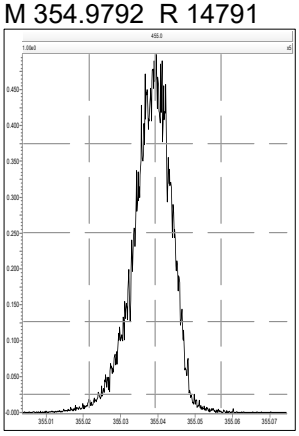


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

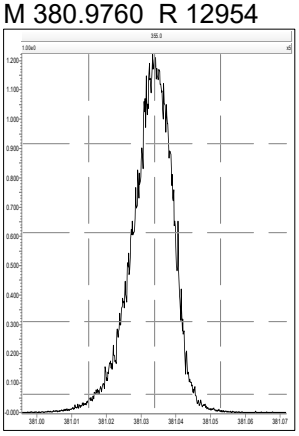
Printed: Thursday, June 01, 2023 18:43:59 Eastern Daylight Time

06/02/2023 06/02/2023

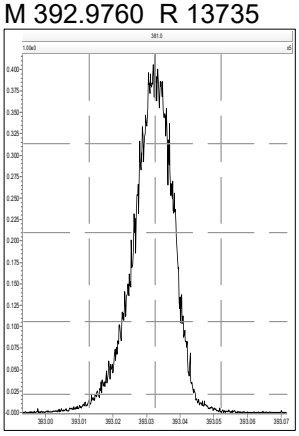
M 354.9792 R 14791



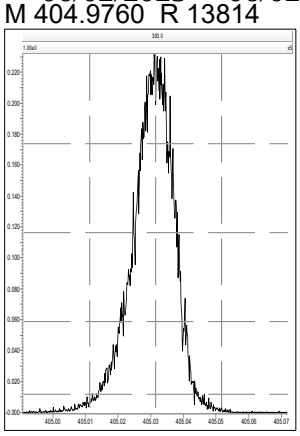
M 380.9760 R 12954



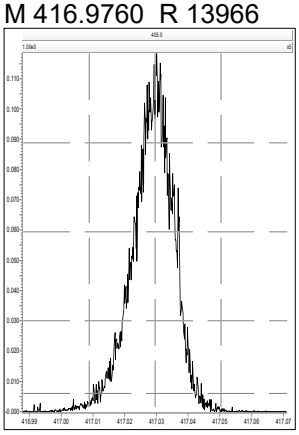
M 392.9760 R 13735



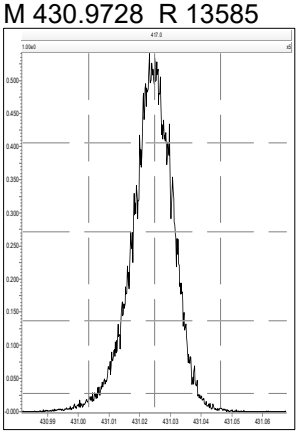
M 404.9760 R 13814



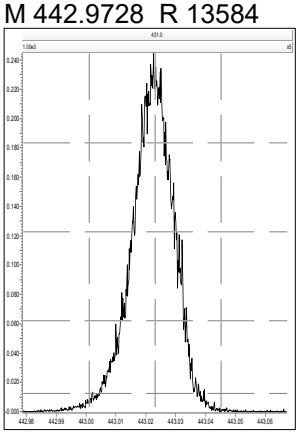
M 416.9760 R 13966



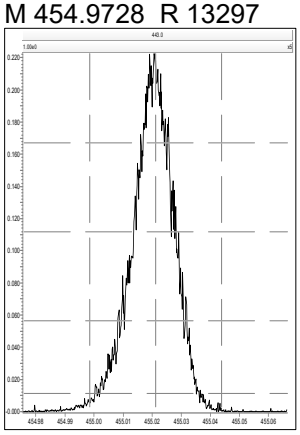
M 430.9728 R 13585



M 442.9728 R 13584



M 454.9728 R 13297

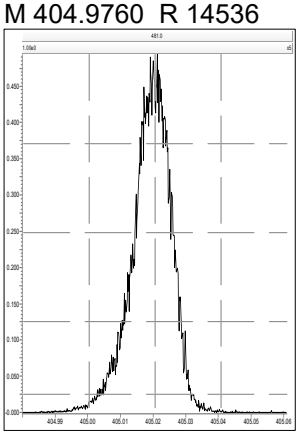


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

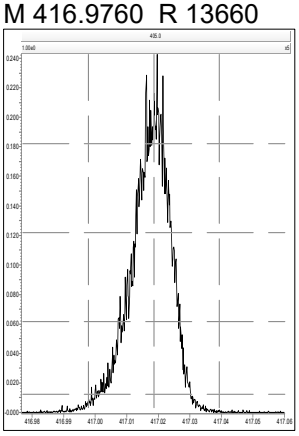
Printed: Thursday, June 01, 2023 18:44:20 Eastern Daylight Time

06/02/2023 06/02/2023

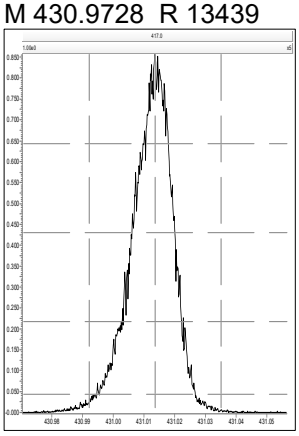
M 404.9760 R 14536



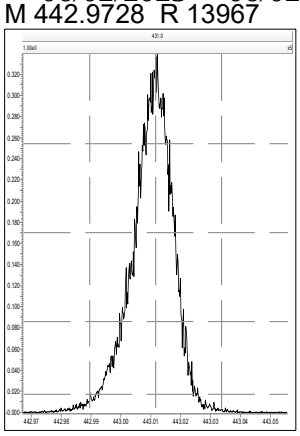
M 416.9760 R 13660



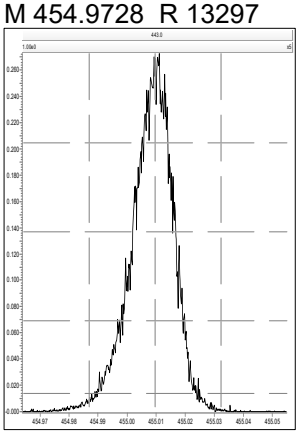
M 430.9728 R 13439



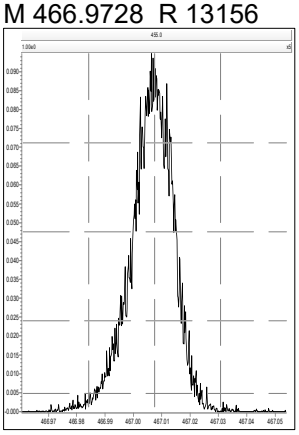
M 442.9728 R 13967



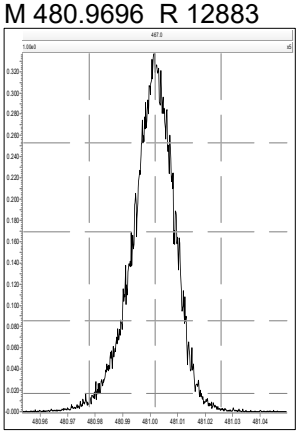
M 454.9728 R 13297



M 466.9728 R 13156



M 480.9696 R 12883

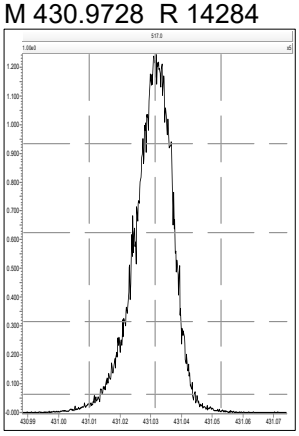


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

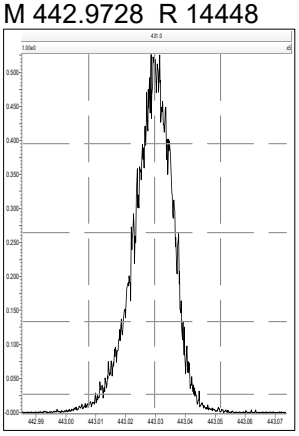
Printed: Thursday, June 01, 2023 18:44:50 Eastern Daylight Time

06/02/2023 06/02/2023

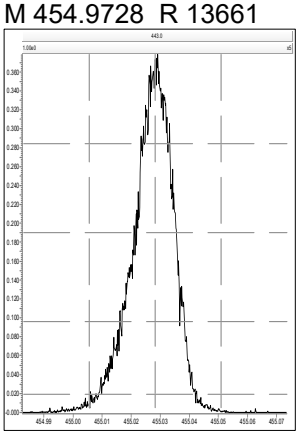
M 430.9728 R 14284



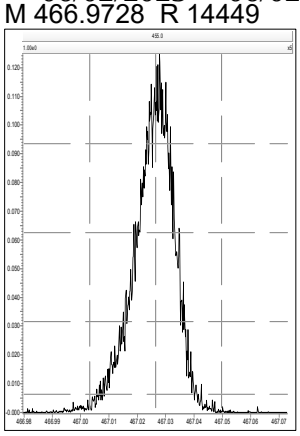
M 442.9728 R 14448



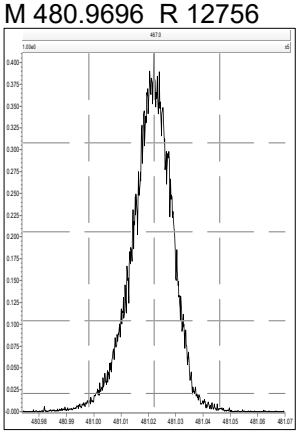
M 454.9728 R 13661



M 466.9728 R 14449



M 480.9696 R 12756



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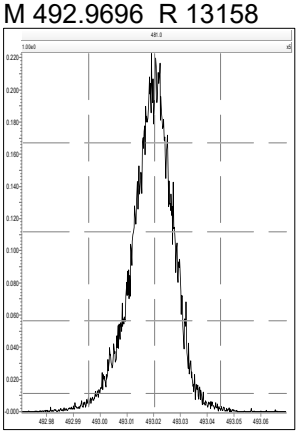
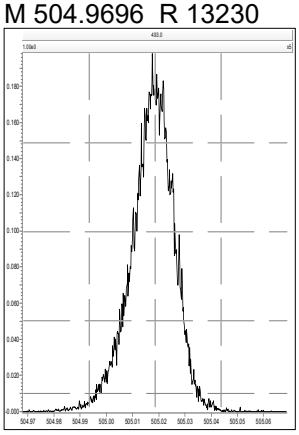


M 504.9696 R 13230



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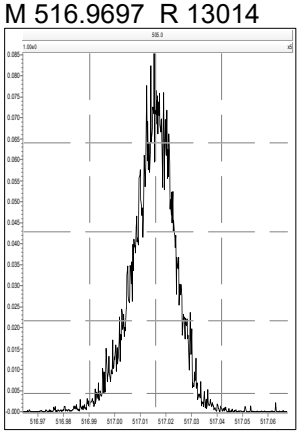

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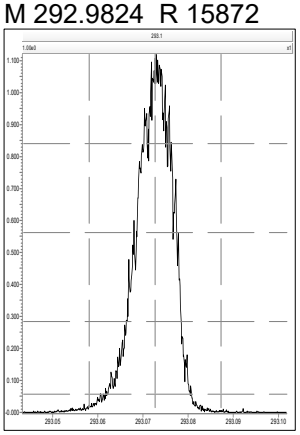
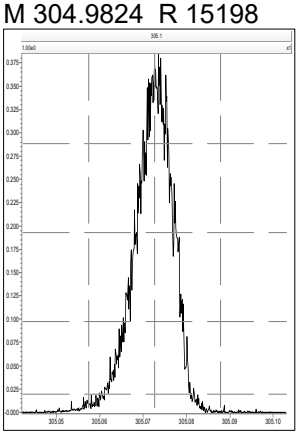
06/06/2023 06/06/2023

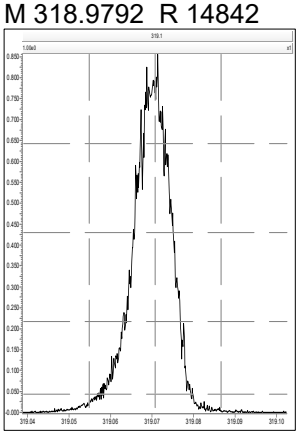
M 292.9824 R 15872



M 304.9824 R 15198



M 318.9792 R 14842



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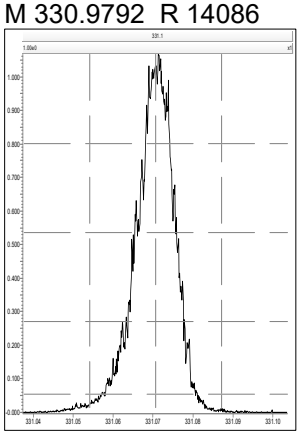

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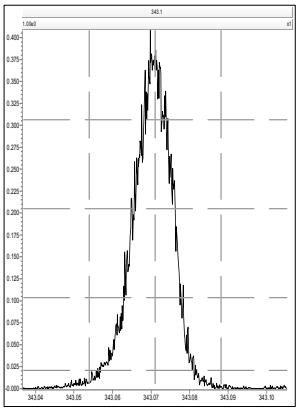

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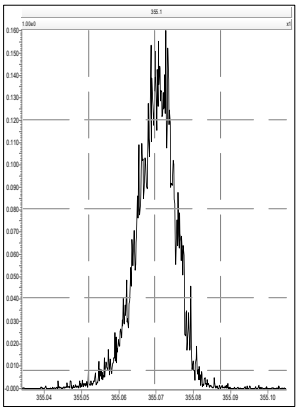

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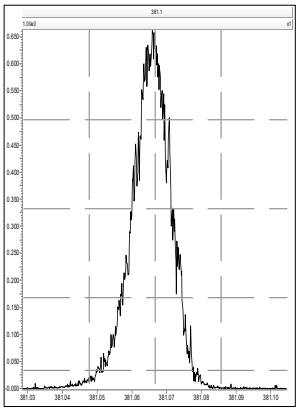

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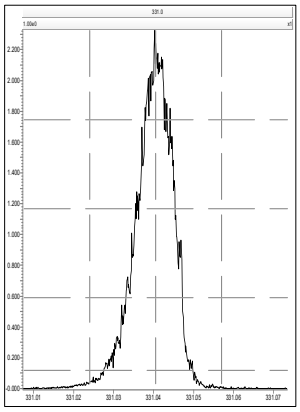

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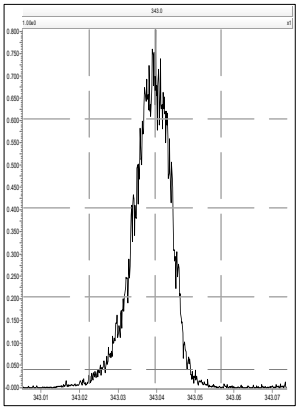

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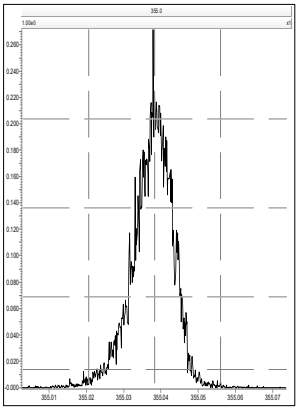
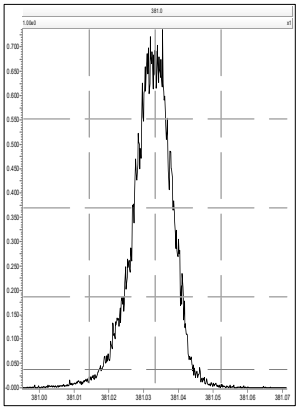


M 380.9760 R 13700



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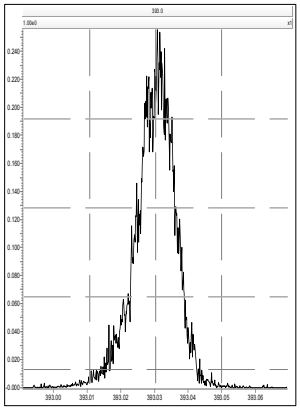
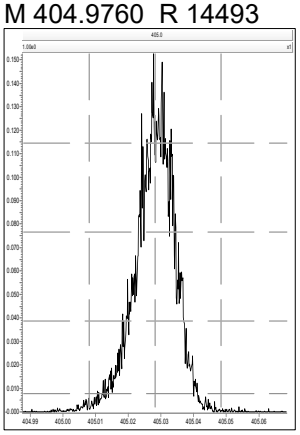
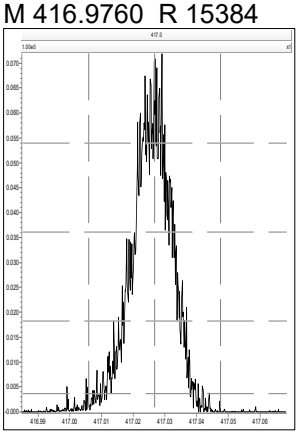


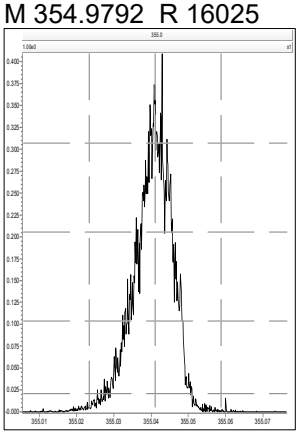
M 404.9760 R 14493



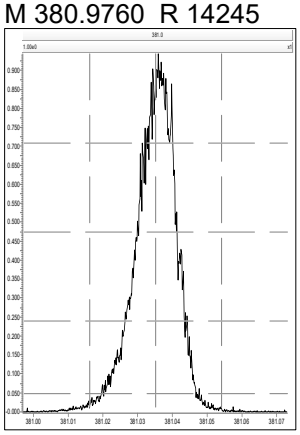
M 416.9760 R 15384



M 354.9792 R 16025



M 380.9760 R 14245



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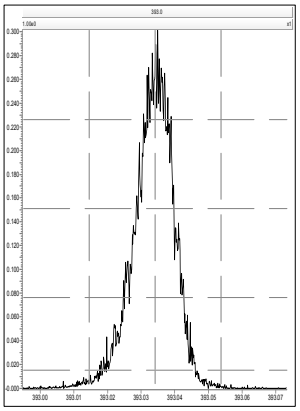

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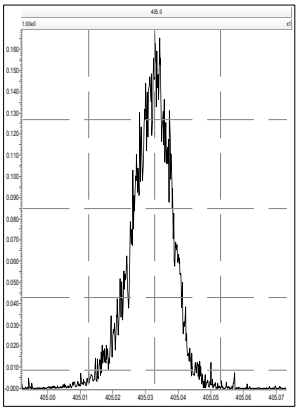

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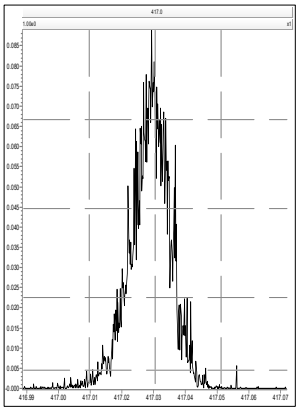
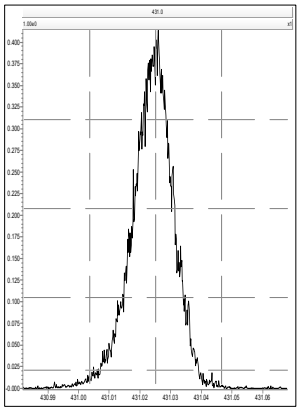
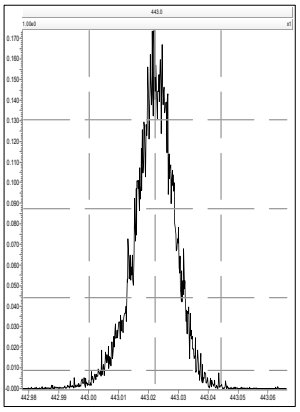


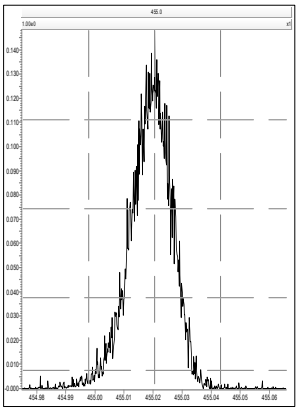
M 430.9728 R 13298



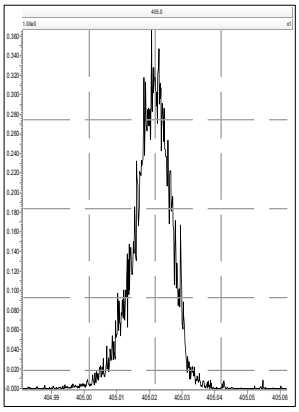
M 442.9728 R 14084



M 454.9728 R 14124



M 404.9760 R 15480



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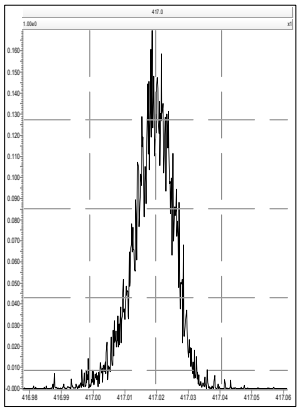
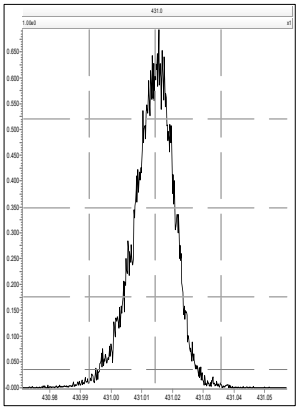
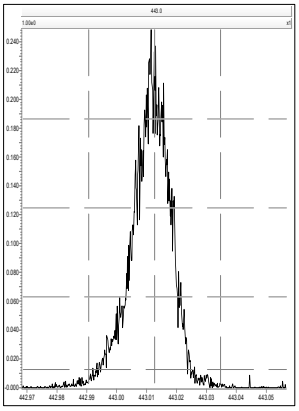


M 430.9728 R 13297



M 442.9728 R 14384



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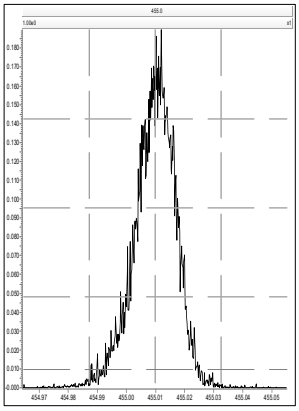
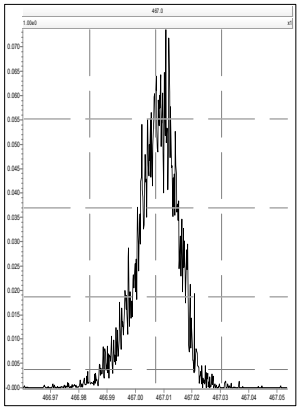
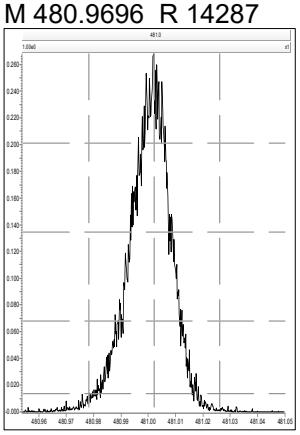


M 466.9728 R 14454



M 480.9696 R 14287



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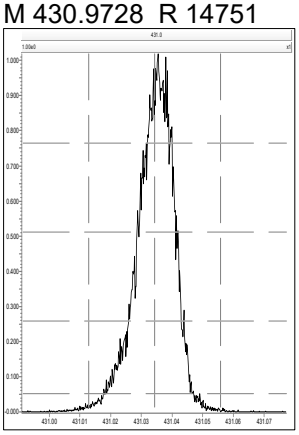

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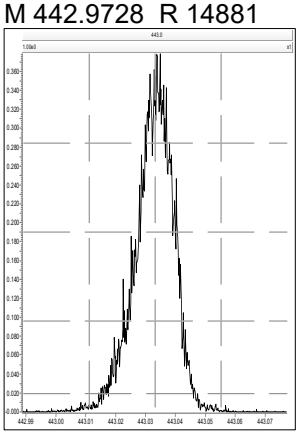

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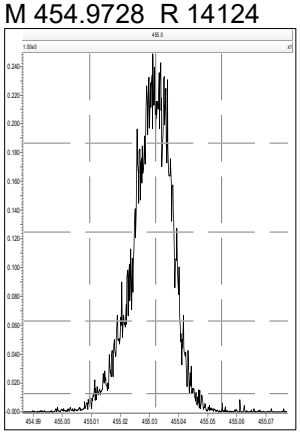

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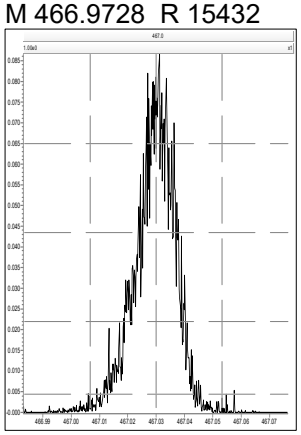
M 466.9728 R 15432



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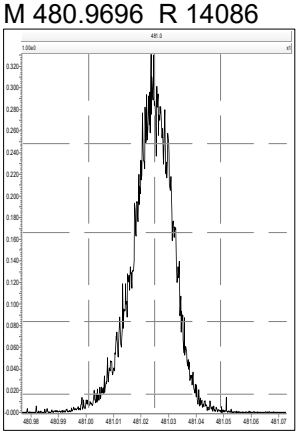
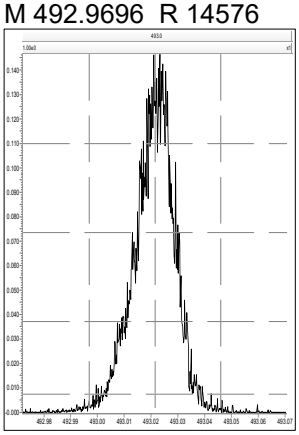


M 492.9696 R 14576



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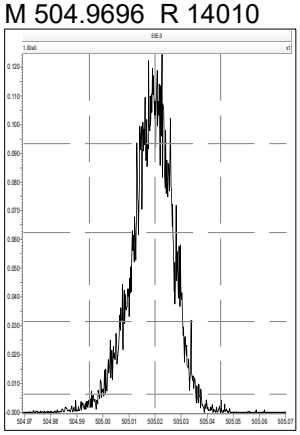

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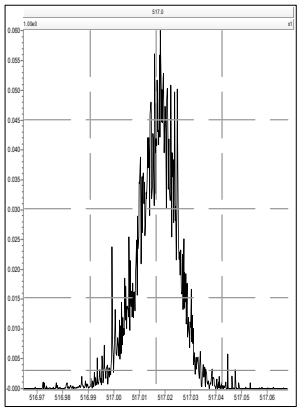
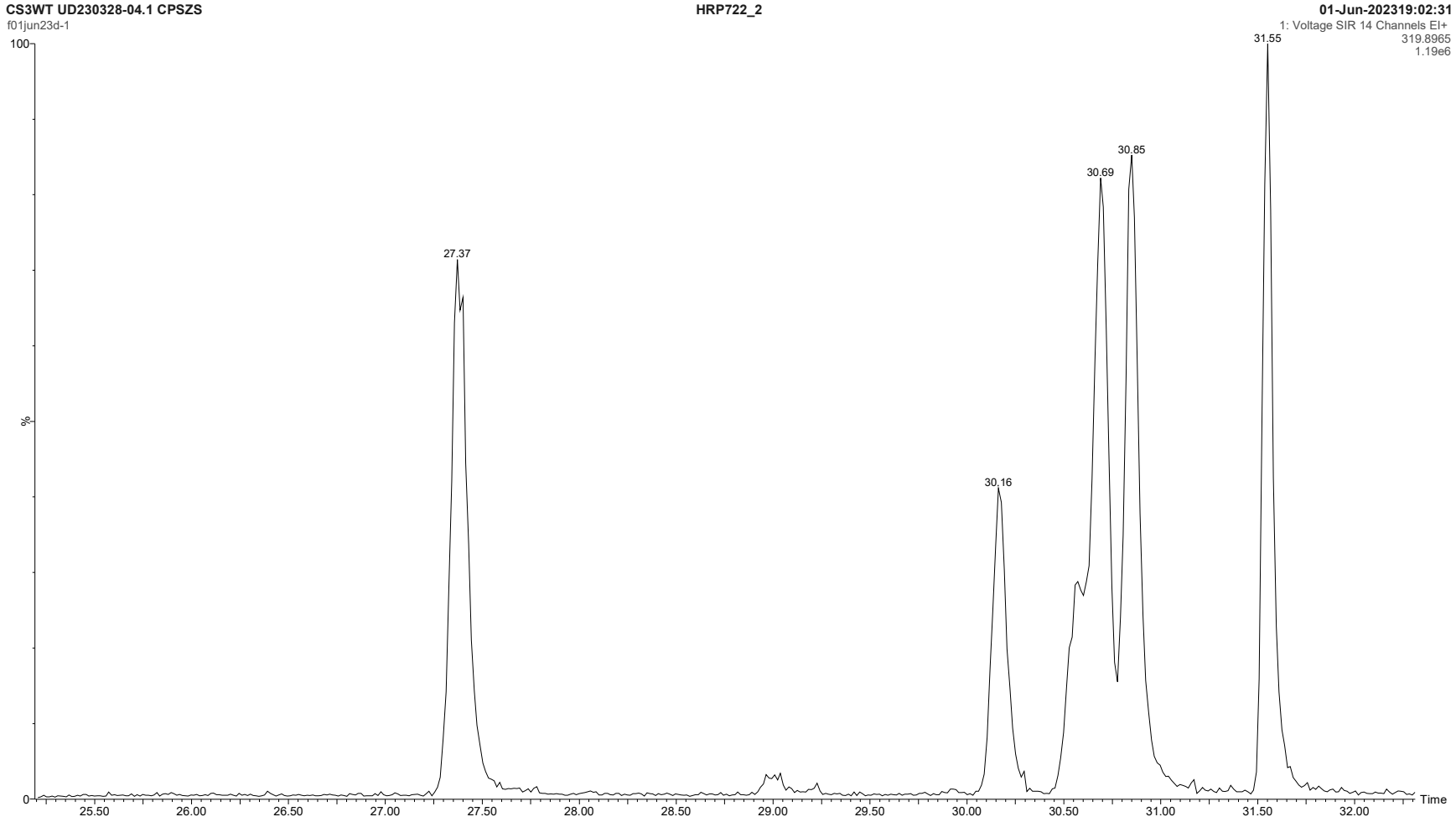
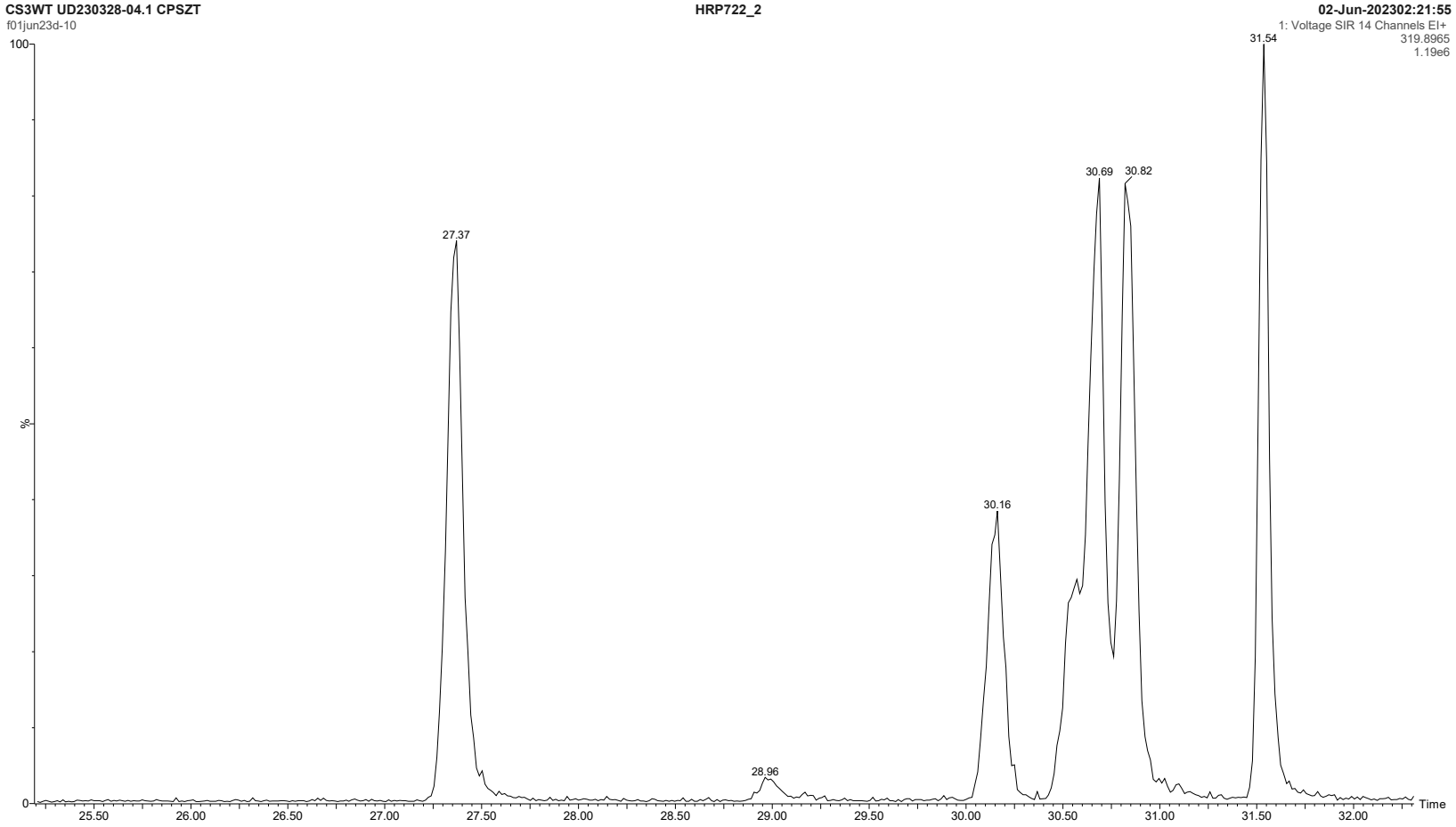


COLUMN CHECK (2378-TCDD 17%)



06/02/2023 06/02/2023

COLUMN CHECK (2378-TCDD 22%)



06/02/2023 06/02/2023

06/06/2023

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Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

06/06/2023

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Compound name: 2378-TCDD
Response Factor: 1.09967
RRF SD: 0.0648097, Relative SD: 5.89356
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.81	0.26	1.158	1.100	bb	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.83	0.45	0.998	1.100	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.82	1.91	1.048	1.100	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.82	10.06	1.106	1.100	bd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	40.89	1.124	1.100	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	211.45	1.163	1.100	bb	bb	HRP722_2

Compound name: 12378-PeCDD
Response Factor: 1.16447
RRF SD: 0.0502668, Relative SD: 4.31671
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.88	1.23	1.144	1.164	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.86	2.32	1.082	1.164	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.86	9.85	1.147	1.164	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.86	52.08	1.213	1.164	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.88	206.88	1.204	1.164	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.86	1028.15	1.197	1.164	bb	bb	HRP722_2

Compound name: 123478-HxCDD
Response Factor: 1.07257
RRF SD: 0.0458007, Relative SD: 4.27018
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.39	1.15	0.989	1.073	dd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.38	2.50	1.070	1.073	dd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.38	9.90	1.061	1.073	dd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.39	50.87	1.091	1.073	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.39	207.13	1.111	1.073	bd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.39	1037.19	1.112	1.073	bd	bd	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 123678-HxCDD
Response Factor: 1.06416
RRF SD: 0.0610233, Relative SD: 5.73439
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.46	1.19	1.017	1.064	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.46	2.28	0.971	1.064	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.47	9.91	1.054	1.064	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.47	51.99	1.107	1.064	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.48	209.87	1.117	1.064	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.47	1052.03	1.120	1.064	dd	dd	HRP722_2

Compound name: 123789-HxCDD
Response Factor: 1.06631
RRF SD: 0.0734334, Relative SD: 6.88669
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.69	1.12	0.959	1.066	dd	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.68	2.33	0.993	1.066	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.69	10.06	1.073	1.066	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.69	52.63	1.122	1.066	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.71	210.57	1.123	1.066	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.69	1057.72	1.128	1.066	dd	dd	HRP722_2

Compound name: 1234678-HpCDD
Response Factor: 1.22797
RRF SD: 0.0884953, Relative SD: 7.20665
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	39.62	1.11	1.092	1.228	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	39.62	2.36	1.159	1.228	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	39.63	9.93	1.219	1.228	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	39.63	52.99	1.302	1.228	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	39.63	214.27	1.316	1.228	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	39.63	1042.97	1.281	1.228	bb	bb	HRP722_2

Compound name: OCDD
Response Factor: 1.10705
RRF SD: 0.0666494, Relative SD: 6.02046
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.65	2.37	1.050	1.107	MM	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.65	4.72	1.044	1.107	MM	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
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Compound name: OCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.64	18.90	1.046	1.107	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.65	104.24	1.154	1.107	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.65	426.92	1.182	1.107	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.66	2107.45	1.167	1.107	bd	bd	HRP722_2

Compound name: 2378-TCDF
Response Factor: 1.35236
RRF SD: 0.0653155, Relative SD: 4.82973
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	29.91	0.24	1.277	1.352	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	29.91	0.47	1.274	1.352	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	29.91	1.99	1.349	1.352	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	29.93	10.24	1.385	1.352	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	29.94	41.34	1.398	1.352	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	29.91	211.79	1.432	1.352	bb	bb	HRP722_2

Compound name: 12378-PeCDF
Response Factor: 1.27379
RRF SD: 0.0883789, Relative SD: 6.93827
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.07	1.19	1.214	1.274	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.06	2.26	1.151	1.274	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.07	9.86	1.256	1.274	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.07	50.30	1.282	1.274	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.08	210.61	1.341	1.274	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.07	1097.92	1.399	1.274	bd	bb	HRP722_2

Compound name: 23478-PeCDF
Response Factor: 1.39417
RRF SD: 0.0578353, Relative SD: 4.14838
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.68	1.23	1.368	1.394	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.68	2.37	1.322	1.394	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.68	9.61	1.339	1.394	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.68	51.60	1.439	1.394	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.69	207.94	1.450	1.394	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.68	1037.83	1.447	1.394	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 123478-HxCDF
Response Factor: 1.41809
RRF SD: 0.0582147, Relative SD: 4.10513
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.68	1.20	1.361	1.418	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.68	2.38	1.353	1.418	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.69	9.81	1.391	1.418	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.69	51.27	1.454	1.418	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.70	204.79	1.452	1.418	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.69	1055.77	1.497	1.418	bd	bd	HRP722_2

Compound name: 123678-HxCDF
Response Factor: 1.37798
RRF SD: 0.0572412, Relative SD: 4.15398
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.78	1.22	1.341	1.378	db	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.78	2.39	1.315	1.378	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.78	9.60	1.323	1.378	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.78	51.91	1.430	1.378	db	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.79	206.90	1.426	1.378	db	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.78	1039.78	1.433	1.378	db	db	HRP722_2

Compound name: 234678-HxCDF
Response Factor: 1.42194
RRF SD: 0.0847991, Relative SD: 5.96364
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.25	1.17	1.331	1.422	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.25	2.41	1.368	1.422	bb	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.25	9.46	1.345	1.422	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.26	51.23	1.457	1.422	bb	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.26	213.78	1.520	1.422	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.26	1062.74	1.511	1.422	bd	bd	HRP722_2

Compound name: 123789-HxCDF
Response Factor: 1.30221
RRF SD: 0.070686, Relative SD: 5.42814
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	37.00	1.15	1.202	1.302	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	37.00	2.44	1.273	1.302	bb	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
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Compound name: 123789-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	10.000	37.00	9.67	1.259	1.302	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	37.00	50.95	1.327	1.302	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	37.00	208.62	1.358	1.302	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	37.00	1070.51	1.394	1.302	bb	bb	HRP722_2

Compound name: 1234678-HpCDF
Response Factor: 1.38391
RRF SD: 0.0630964, Relative SD: 4.55929
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	38.41	1.17	1.295	1.384	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	38.41	2.48	1.375	1.384	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	38.42	9.63	1.332	1.384	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	38.41	51.44	1.424	1.384	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	38.42	203.72	1.410	1.384	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	38.42	1060.45	1.468	1.384	bb	bb	HRP722_2

Compound name: 1234789-HpCDF
Response Factor: 1.36358
RRF SD: 0.116204, Relative SD: 8.52199
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	40.25	1.10	1.203	1.364	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	40.26	2.30	1.255	1.364	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	40.27	9.86	1.345	1.364	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	40.26	52.32	1.427	1.364	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	40.27	217.55	1.483	1.364	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	40.26	1077.43	1.469	1.364	bb	bb	HRP722_2

Compound name: OCDF
Response Factor: 1.7522
RRF SD: 0.29471, Relative SD: 16.8194
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.96	2.01	1.411	1.752	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.93	4.30	1.508	1.752	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.94	17.84	1.563	1.752	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.93	107.80	1.889	1.752	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.94	474.32	2.078	1.752	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.95	2356.78	2.065	1.752	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-2378-TCDD
Response Factor: 1.13864
RRF SD: 0.0319578, Relative SD: 2.80667
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.81	97.47	1.110	1.139	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.81	97.99	1.116	1.139	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.81	100.03	1.139	1.139	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.81	99.60	1.134	1.139	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.82	99.56	1.134	1.139	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.81	105.35	1.200	1.139	bb	bb	HRP722_2

Compound name: 13C-12378-PeCDD
Response Factor: 0.813147
RRF SD: 0.0496779, Relative SD: 6.10934
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.85	95.01	0.773	0.813	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.85	97.94	0.796	0.813	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.85	99.13	0.806	0.813	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.85	96.07	0.781	0.813	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.86	99.97	0.813	0.813	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.85	111.89	0.910	0.813	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDD
Response Factor: 0.847482
RRF SD: 0.029141, Relative SD: 3.43854
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.38	96.00	0.814	0.847	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.36	97.47	0.826	0.847	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.36	99.44	0.843	0.847	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.38	98.75	0.837	0.847	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.38	104.28	0.884	0.847	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.38	104.06	0.882	0.847	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDD
Response Factor: 1.02718
RRF SD: 0.0100553, Relative SD: 0.97892
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.46	101.81	1.046	1.027	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.44	99.18	1.019	1.027	dd	dd	HRP722_2

Compound name: 13C-123678-HxCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.46	99.50	1.022	1.027	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.46	99.30	1.020	1.027	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.47	100.30	1.030	1.027	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.46	99.91	1.026	1.027	dd	dd	HRP722_2

Compound name: 13C-1234678-HpCDD
Response Factor: 0.800489
RRF SD: 0.0176475, Relative SD: 2.20459
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	39.61	97.28	0.779	0.800	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	39.61	99.83	0.799	0.800	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	39.61	103.34	0.827	0.800	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	39.61	98.59	0.789	0.800	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	39.62	99.20	0.794	0.800	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	39.62	101.76	0.815	0.800	bd	bb	HRP722_2

Compound name: 13C-OCDD
Response Factor: 0.652502
RRF SD: 0.0281295, Relative SD: 4.31103
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	200.000	43.64	189.67	0.619	0.653	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	200.000	43.63	194.36	0.634	0.653	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	200.000	43.63	205.25	0.670	0.653	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	200.000	43.63	196.89	0.642	0.653	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	43.64	199.84	0.652	0.653	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	43.65	214.00	0.698	0.653	bd	bd	HRP722_2

Compound name: 13C-2378-TCDF
Response Factor: 1.73398
RRF SD: 0.0262921, Relative SD: 1.51628
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	29.90	98.57	1.709	1.734	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	29.89	98.62	1.710	1.734	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	29.90	99.54	1.726	1.734	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	29.90	100.64	1.745	1.734	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	29.91	100.00	1.734	1.734	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	29.90	102.63	1.780	1.734	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-12378-PeCDF
Response Factor: 1.71872
RRF SD: 0.0685337, Relative SD: 3.98748
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.06	95.67	1.644	1.719	dd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.06	98.47	1.693	1.719	db	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.06	98.93	1.700	1.719	bb	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.06	98.98	1.701	1.719	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.07	100.46	1.727	1.719	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.06	107.49	1.847	1.719	bb	bd	HRP722_2

Compound name: 13C-23478-PeCDF
Response Factor: 1.61906
RRF SD: 0.113554, Relative SD: 7.0136
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.67	94.74	1.534	1.619	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.66	94.72	1.534	1.619	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.67	100.02	1.619	1.619	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.67	96.39	1.561	1.619	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.68	100.82	1.632	1.619	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.67	113.30	1.834	1.619	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDF
Response Factor: 1.29127
RRF SD: 0.04042, Relative SD: 3.13026
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.68	96.39	1.245	1.291	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.67	95.99	1.240	1.291	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.68	101.19	1.307	1.291	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.68	100.39	1.296	1.291	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.69	102.77	1.327	1.291	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.68	103.27	1.333	1.291	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDF
Response Factor: 1.59829
RRF SD: 0.0276943, Relative SD: 1.73275
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.77	100.06	1.599	1.598	db	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.77	102.38	1.636	1.598	dd	db	HRP722_2

Compound name: 13C-123678-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.77	100.91	1.613	1.598	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.77	99.20	1.585	1.598	db	db	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.78	100.25	1.602	1.598	dd	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.77	97.21	1.554	1.598	db	db	HRP722_2

Compound name: 13C-234678-HxCDF
Response Factor: 1.33772
RRF SD: 0.0172676, Relative SD: 1.29082
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.25	97.96	1.310	1.338	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.24	98.91	1.323	1.338	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.25	100.54	1.345	1.338	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.25	100.71	1.347	1.338	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.25	100.50	1.344	1.338	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.25	101.39	1.356	1.338	bd	bd	HRP722_2

Compound name: 13C-123789-HxCDF
Response Factor: 1.18984
RRF SD: 0.0308055, Relative SD: 2.58904
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.99	96.35	1.146	1.190	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.98	97.27	1.157	1.190	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.99	102.97	1.225	1.190	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.99	100.95	1.201	1.190	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	37.00	101.33	1.206	1.190	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.99	101.12	1.203	1.190	bd	bb	HRP722_2

Compound name: 13C-1234678-HpCDF
Response Factor: 1.53684
RRF SD: 0.031116, Relative SD: 2.02467
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	38.40	98.20	1.509	1.537	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	38.40	98.02	1.506	1.537	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	38.41	102.00	1.568	1.537	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	38.40	101.35	1.558	1.537	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	38.41	102.14	1.570	1.537	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	38.41	98.29	1.511	1.537	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-1234789-HpCDF
Response Factor: 1.19821
RRF SD: 0.0266865, Relative SD: 2.22719
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	40.25	96.97	1.162	1.198	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	40.25	97.35	1.166	1.198	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	40.25	101.87	1.221	1.198	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	40.25	101.03	1.211	1.198	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	40.26	101.08	1.211	1.198	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	40.25	101.70	1.219	1.198	bb	bb	HRP722_2

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.12	100.00	1.000	1.000	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.13	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.69	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2

Compound name: 37Cl-2378-TCDD
Response Factor: 1.1239
RRF SD: 0.0721847, Relative SD: 6.42271
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.82	0.24	1.079	1.124	bb		HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.82	0.47	1.062	1.124	bb		HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 37Cl-2378-TCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.83	1.89	1.061	1.124	bb		HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.83	10.12	1.138	1.124	bb		HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	41.22	1.158	1.124	bb		HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	221.68	1.246	1.124	bb		HRP722_2

ICAL Calculation

Inst ID: HRP722_2
ICAL: 06Jun23d

amq
06Jun2023

478 HxD
CS0.5 RRF

$$\frac{(2.15e4)}{(1.74e4)}\frac{(100)}{(1.25)} = 0.9885$$

478 HxD
RRF SD

$$(0.989-1.073)^2+(1.070-1.073)^2+(1.061-1.073)^2+(1.091-1.073)^2+(1.111-1.073)^2+(1.112-1.073)^2 =$$

$$\sqrt{\frac{0.010498}{5}} = 0.04582$$

478 HxD
Relative SD

$$\frac{0.04582}{1.073} \times 100 = 4.27027$$

AVG RRF

$$\frac{6.434}{6} = 1.0723$$

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.66
2	Last TCDF	31.64
3	First PeCDF	31.61
4	Last PeCDF	34.31
5	First HxCDF	34.78
6	Last HxCDF	37.01
7	First HpCDF	38.43
8	Last HpCDF	40.28
9	OCDF	43.95
10	First TCDD	27.37
11	2378-TCDD	30.85
12	Last TCDD	31.55
13	First PeCDD	32.56
14	Last PeCDD	34.13
15	First HxCDD	35.20
16	Last HxCDD	36.70
17	First HpCDD	38.75
18	Last HpCDD	39.64
19	OCDD	43.65

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

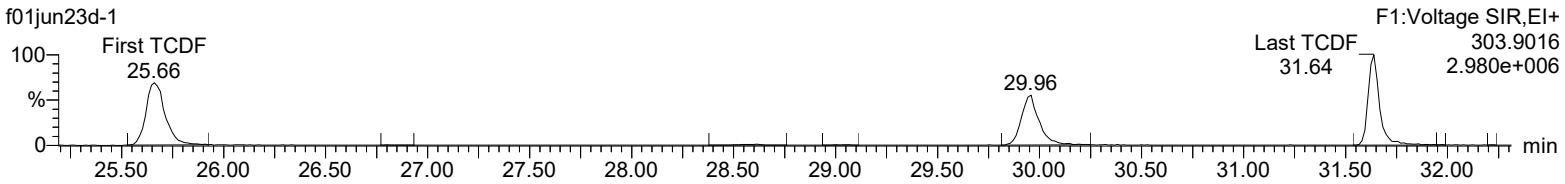
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

06/02/2023

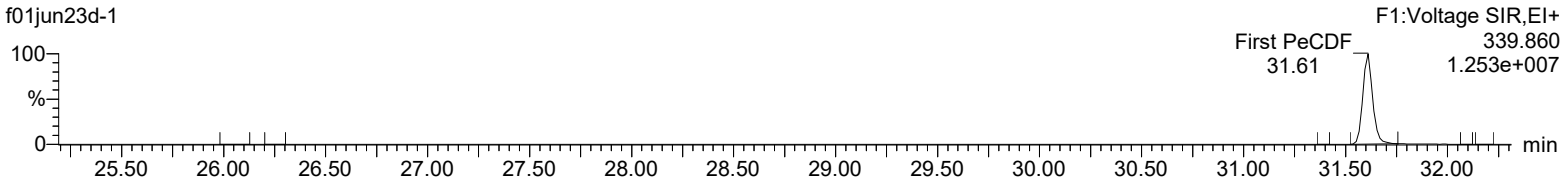
Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

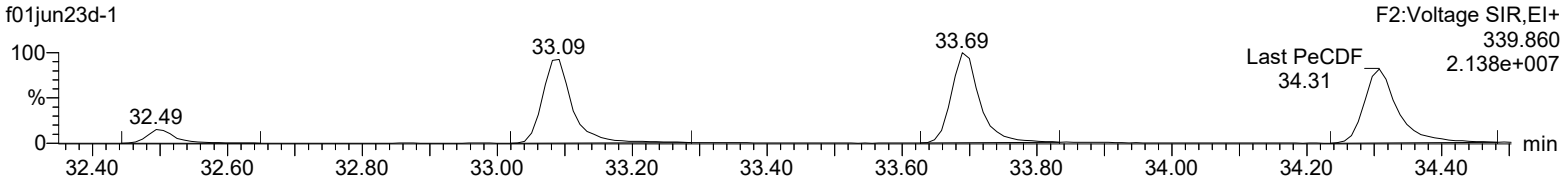
First TCDF



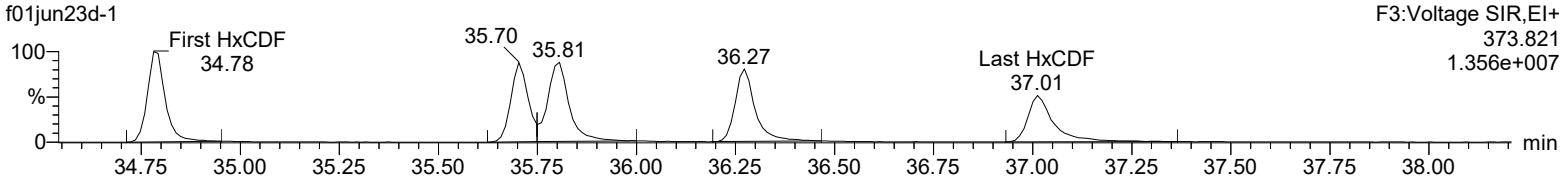
First PeCDF



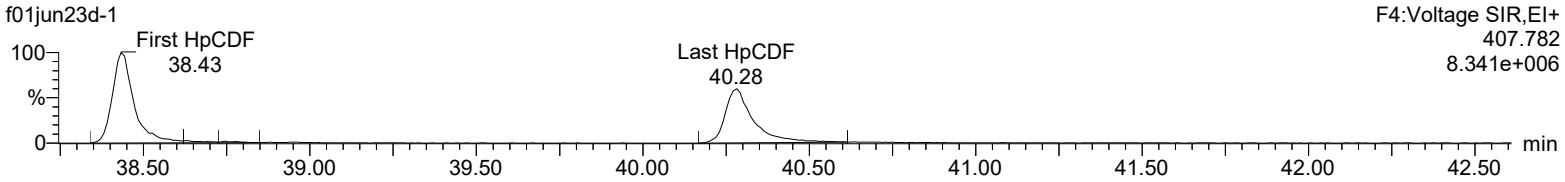
Last PeCDF



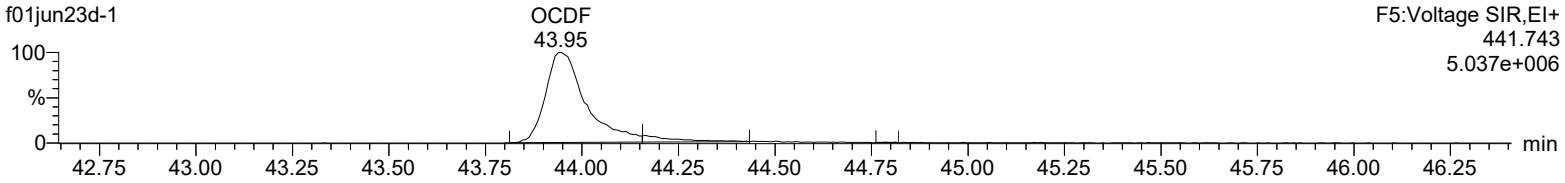
First HxCDF



First HpCDF



OCDF



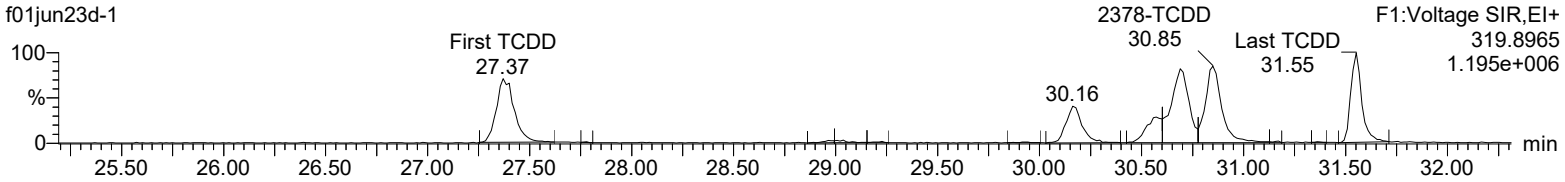
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

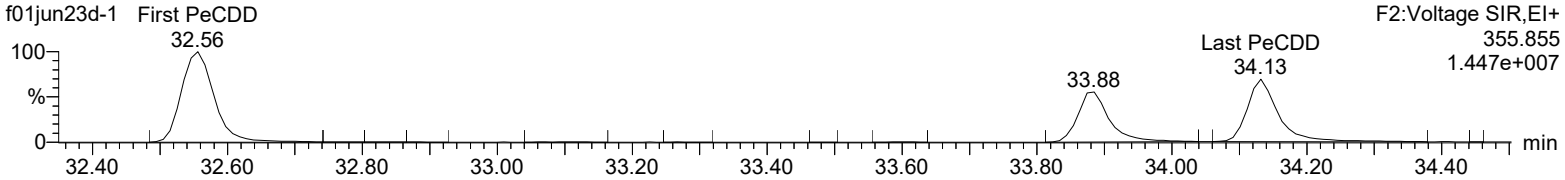
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

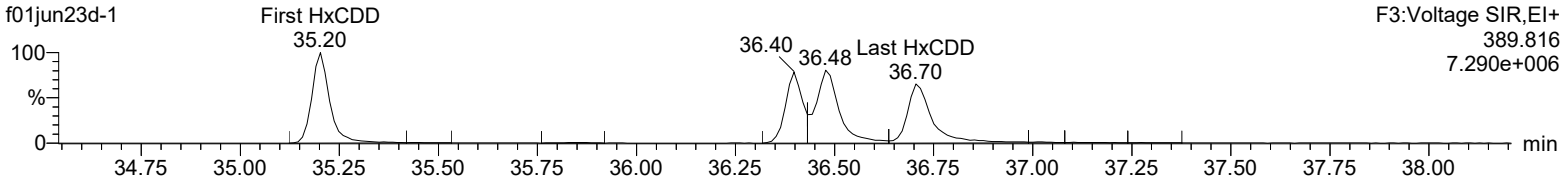
First TCDD



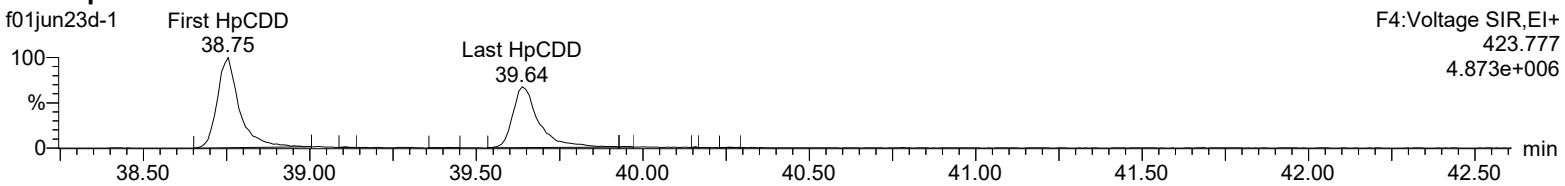
First PeCDD



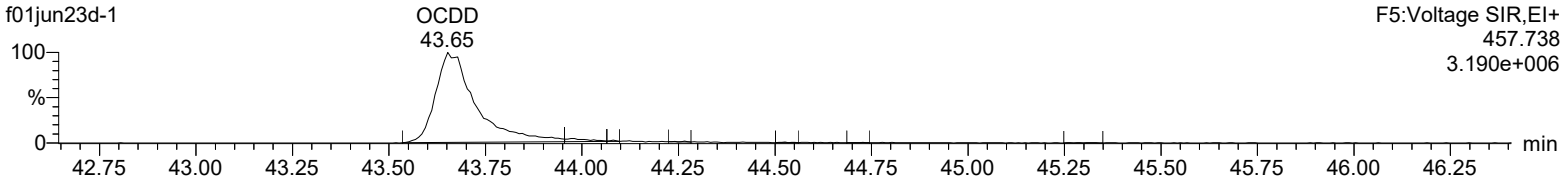
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	3.99e3	4.82e3	8.81e3	30.81	1.000	0.83	NO	0.263	1.158	1.100	5.89	0.00933	4.40e4	255	172.7	5.45e4	1100	49.6	bb	MM
2	12378-PeCDD	1.86e4	1.17e4	3.03e4	33.88	1.001	1.59	NO	1.228	1.144	1.164	4.32	0.0237	3.23e5	2547	126.8	2.37e5	1577	150.3	bd	bd
3	123478-HxCDD	1.22e4	9.31e3	2.15e4	36.39	1.000	1.31	NO	1.153	0.989	1.073	4.27	0.0639	2.09e5	3209	65.2	1.90e5	4994	38.0	dd	bd
4	123678-HxCDD	1.60e4	1.24e4	2.84e4	36.46	1.000	1.29	NO	1.195	1.017	1.064	5.73	0.0576	2.27e5	3209	70.9	2.09e5	4994	41.9	dd	dd
5	123789-HxCDD	1.31e4	1.07e4	2.38e4	36.69	1.007	1.22	NO	1.125	0.959	1.066	6.89	0.0605	2.24e5	3209	69.8	1.47e5	4994	29.4	dd	db
6	1234678-HpCDD	1.16e4	1.11e4	2.27e4	39.62	1.000	1.04	NO	1.112	1.092	1.228	7.21	0.138	1.51e5	3479	43.3	1.23e5	8177	15.1	bd	bd
7	OCDD	1.68e4	1.80e4	3.47e4	43.65	1.000	0.93	NO	2.371	1.050	1.107	6.02	0.153	1.46e5	4118	35.5	1.67e5	2563	65.0	MM	MM
8	2378-TCDF	6.88e3	8.09e3	1.50e4	29.91	1.000	0.85	NO	0.236	1.277	1.352	4.83	0.0410	7.09e4	2379	29.8	8.14e4	6786	12.0	bd	bb
9	12378-PeCDF	4.13e4	2.71e4	6.84e4	33.07	1.000	1.53	NO	1.191	1.214	1.274	6.94	0.0297	7.84e5	6293	124.5	4.85e5	6481	74.8	bd	bd
10	23478-PeCDF	4.49e4	2.71e4	7.19e4	33.68	1.000	1.66	NO	1.227	1.368	1.394	4.15	0.0283	8.39e5	6293	133.3	5.75e5	6481	88.7	bd	bb
11	123478-HxCDF	2.57e4	1.96e4	4.53e4	35.68	1.000	1.31	NO	1.200	1.361	1.418	4.11	0.0372	4.72e5	6472	72.9	3.28e5	3716	88.3	bd	bd
12	123678-HxCDF	3.35e4	2.39e4	5.74e4	35.78	1.000	1.40	NO	1.217	1.341	1.378	4.15	0.0355	5.59e5	6472	86.4	3.72e5	3716	100.2	db	dd
13	234678-HxCDF	2.55e4	2.12e4	4.66e4	36.25	1.000	1.20	NO	1.170	1.331	1.422	5.96	0.0403	4.37e5	6472	67.6	3.73e5	3716	100.3	bd	dd
14	123789-HxCDF	2.13e4	1.56e4	3.68e4	37.00	1.000	1.36	NO	1.154	1.202	1.302	5.43	0.0596	2.87e5	6472	44.4	2.21e5	3716	59.4	bd	dd
15	1234678-HpCDF	2.68e4	2.54e4	5.23e4	38.41	1.000	1.06	NO	1.170	1.295	1.384	4.56	0.0538	3.52e5	7827	44.9	3.47e5	4579	75.9	bd	bb
16	1234789-HpCDF	1.78e4	1.95e4	3.74e4	40.25	1.000	0.92	NO	1.102	1.203	1.364	8.52	0.0980	2.06e5	7827	26.3	1.95e5	4579	42.6	bb	bd
17	OCDF	2.09e4	2.58e4	4.67e4	43.96	1.007	0.81	NO	2.013	1.411	1.752	16.82	0.213	1.78e5	7974	22.3	2.21e5	6812	32.4	bd	bd
18	13C-2378-TCDD	1.35e6	1.69e6	3.04e6	30.81	1.023	0.80	NO	97.471	1.110	1.139	2.81	0.130	1.47e7	8948	1638.4	1.81e7	6703	2704.5	bb	bb
19	13C-12378-PeCDD	1.30e6	8.14e5	2.12e6	33.85	1.124	1.60	NO	95.012	0.773	0.813	6.11	0.153	2.30e7	4806	4791.6	1.45e7	8318	1748.8	bb	bb
20	13C-123478-HxCDD	9.76e5	7.64e5	1.74e6	36.38	0.992	1.28	NO	95.996	0.814	0.847	3.44	0.224	1.68e7	7674	2188.1	1.32e7	13419	982.2	bd	bd
21	13C-123678-HxCDD	1.26e6	9.77e5	2.24e6	36.46	0.994	1.29	NO	101.810	1.046	1.027	0.98	0.185	1.88e7	7674	2454.2	1.48e7	13419	1102.3	dd	dd
22	13C-1234678-HpCDD	8.60e5	8.05e5	1.67e6	39.61	1.080	1.07	NO	97.282	0.779	0.800	2.20	0.313	8.91e6	14518	613.6	8.25e6	13339	618.6	bd	bd
23	13C-OCDD	1.28e6	1.36e6	2.65e6	43.64	1.190	0.94	NO	189.670	0.619	0.653	4.31	0.401	9.60e6	13346	719.1	1.05e7	15754	668.9	bd	bd
24	13C-2378-TCDF	2.13e6	2.56e6	4.69e6	29.90	0.993	0.83	NO	98.574	1.709	1.734	1.52	0.110	1.88e7	10447	1795.6	2.30e7	9788	2348.4	bd	bb
25	13C-12378-PeCDF	2.78e6	1.73e6	4.51e6	33.06	1.098	1.61	NO	95.671	1.644	1.719	3.99	0.361	5.20e7	30446	1707.0	3.13e7	35022	893.6	dd	bb
26	13C-23478-PeCDF	2.61e6	1.59e6	4.21e6	33.67	1.118	1.64	NO	94.743	1.534	1.619	7.01	0.383	5.02e7	30446	1648.7	3.02e7	35022	861.4	bb	bb
27	13C-123478-HxCDF	9.30e5	1.73e6	2.66e6	35.68	0.973	0.54	NO	96.389	1.245	1.291	3.13	0.249	1.69e7	17160	982.7	3.15e7	18671	1685.7	bd	bd
28	13C-123678-HxCDF	1.21e6	2.21e6	3.42e6	35.77	0.975	0.55	NO	100.061	1.599	1.598	1.73	0.202	1.85e7	17160	1075.4	3.42e7	18671	1829.7	db	db
29	13C-234678-HxCDF	9.92e5	1.81e6	2.80e6	36.25	0.988	0.55	NO	97.959	1.310	1.338	1.29	0.241	1.57e7	17160	916.1	2.83e7	18671	1516.4	bb	bb
30	13C-123789-HxCDF	8.53e5	1.60e6	2.45e6	36.99	1.008	0.53	NO	96.350	1.146	1.190	2.59	0.271	1.14e7	17160	665.2	2.07e7	18671	1106.6	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.91e5	2.24e6	3.23e6	38.40	1.047	0.44	NO	98.196	1.509	1.537	2.02	0.271	1.28e7	18387	695.8	2.74e7	27953	979.8	bb	bd
32	13C-1234789-HpCDF	7.81e5	1.70e6	2.49e6	40.25	1.097	0.46	NO	96.969	1.162	1.198	2.23	0.348	7.30e6	18387	396.8	1.60e7	27953	573.8	bd	bb
33	13C-1234-TCDD	1.22e6	1.53e6	2.74e6	30.12	0.000	0.80	NO	100.000	1.000	1.000	0.00	0.148	1.17e7	8948	1309.0	1.46e7	6703	2179.4	bb	bd
34	13C-123789-HxCDD	1.21e6	9.30e5	2.14e6	36.68	0.000	1.30	NO	100.000	1.000	1.000	0.00	0.190	1.57e7	7674	2048.5	1.20e7	13419	892.9	dd	dd
35	37Cl-2378-TCDD	7.40e3		7.40e3	30.82	1.023			0.240	1.079	1.124	6.42	0.0130	8.72e4	1545	56.4				bb	

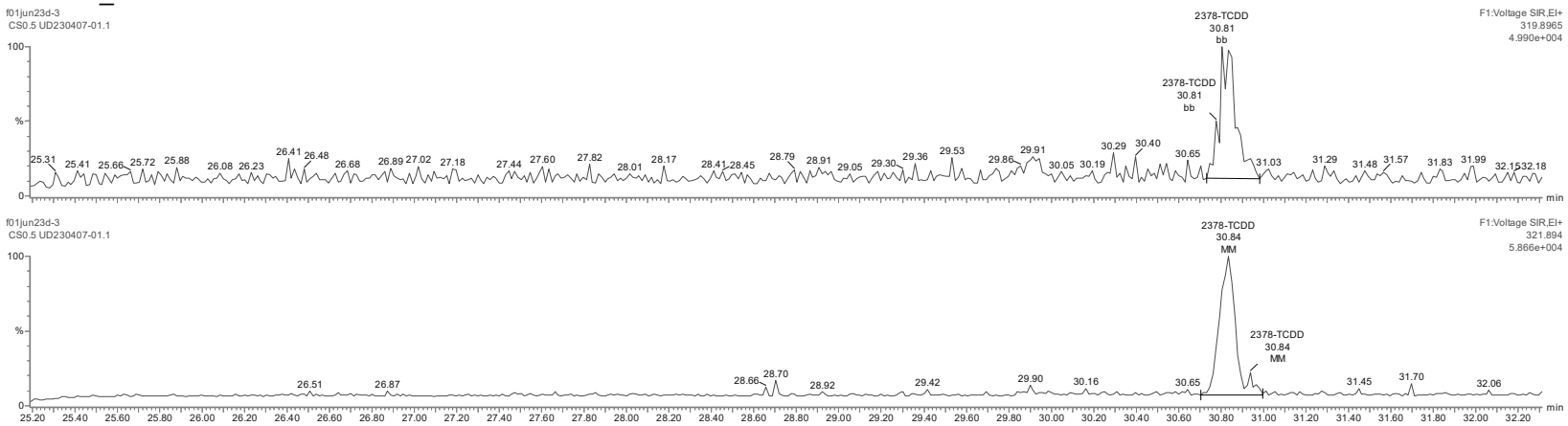
Reasons for Analyst Intervention

Name:f01jun23d-3, ID:

M	M2
	1 2378-TCDD 30.81 - AB
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB

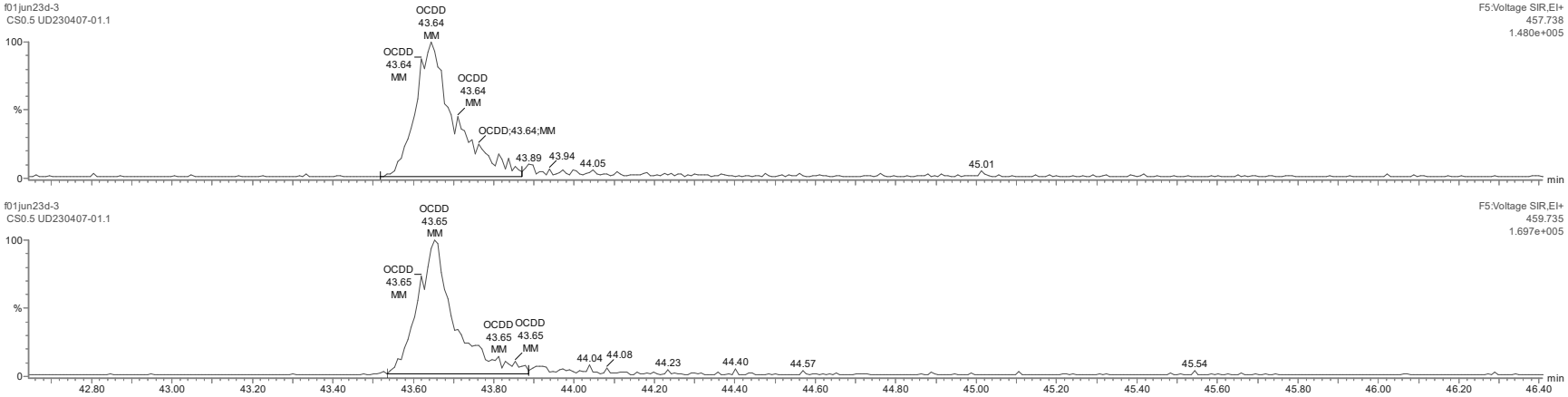
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/05/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/05/2023 06/05/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/05/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

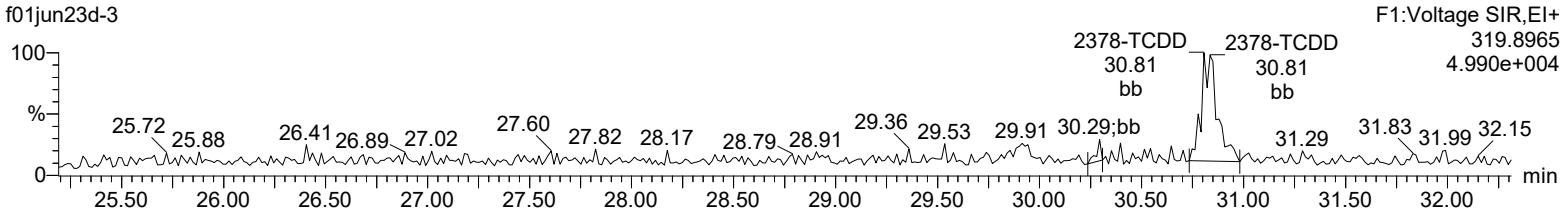
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

06/06/2023

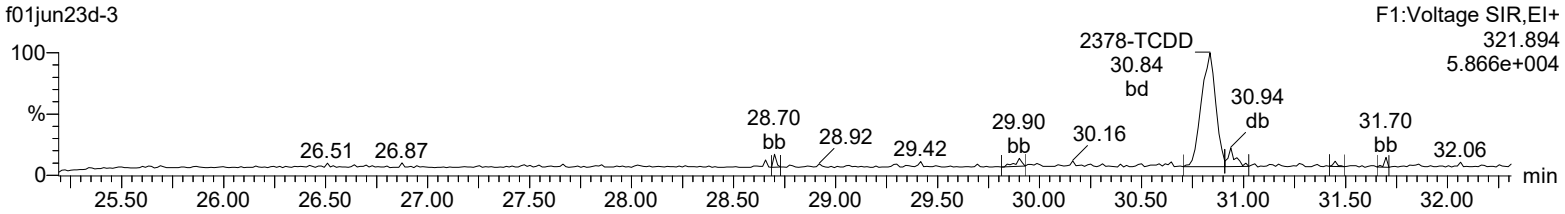
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 02 Jun 2023 15:27:46

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

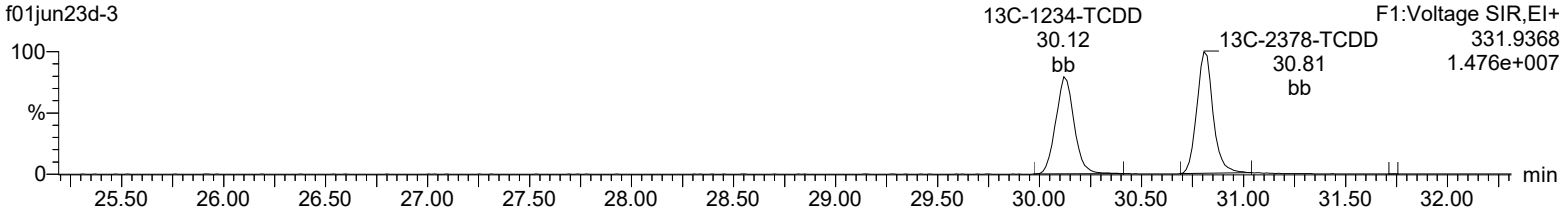
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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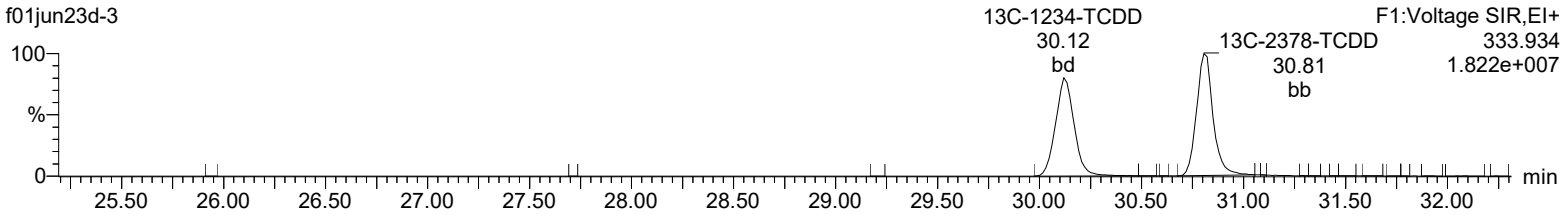
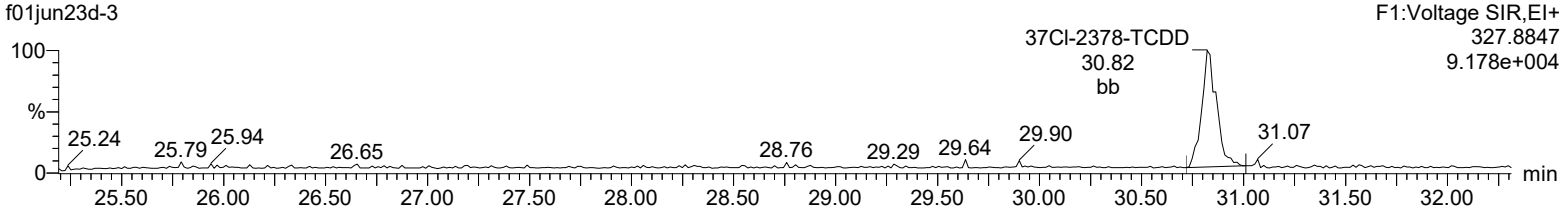


37Cl-2378-TCDD



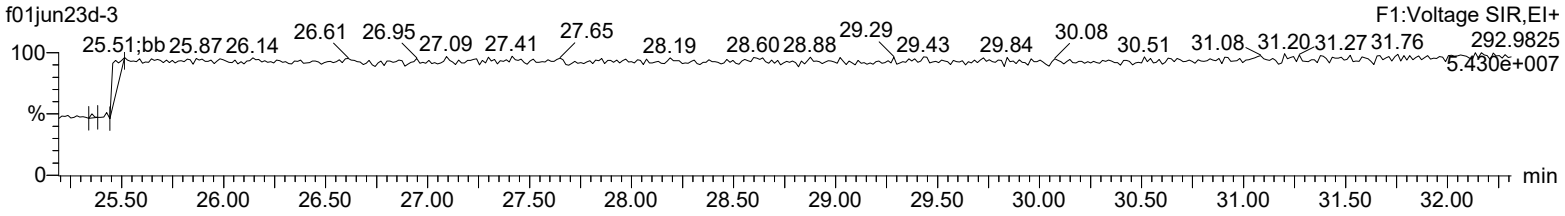
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

Lock Mass F1



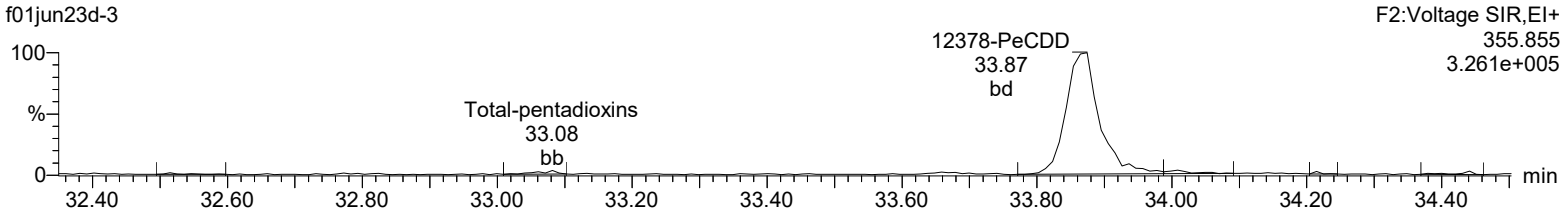
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

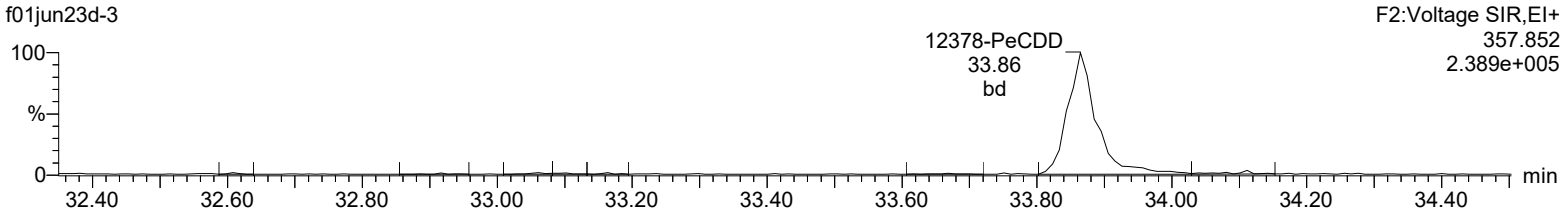
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

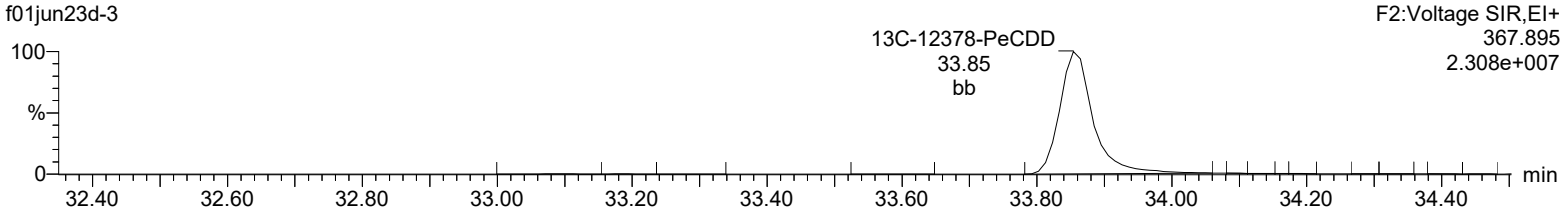
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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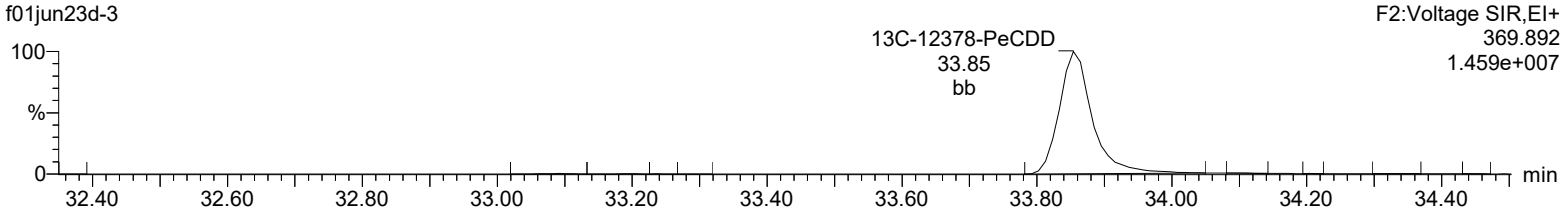
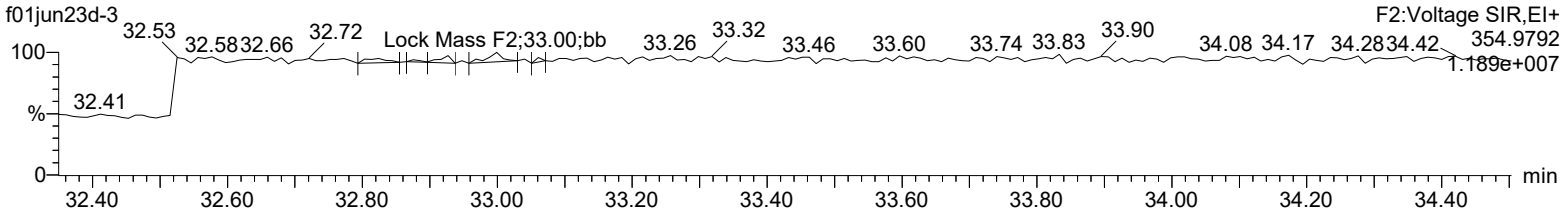


Lock Mass F2



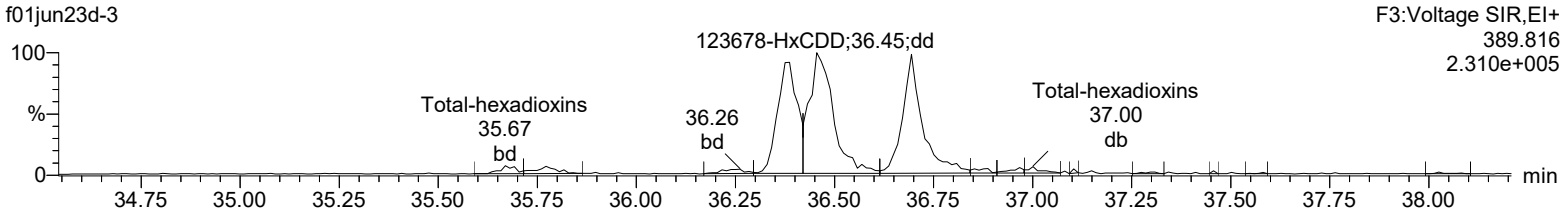
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

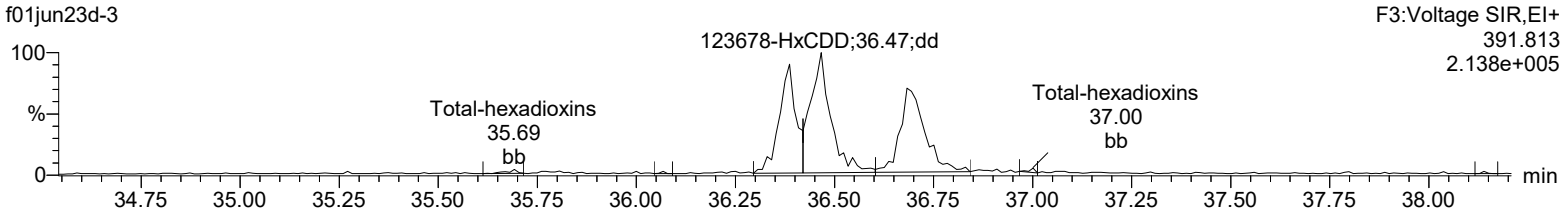
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

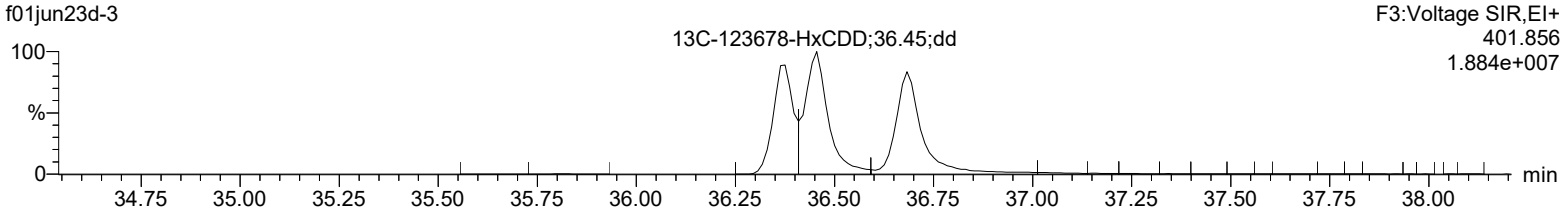
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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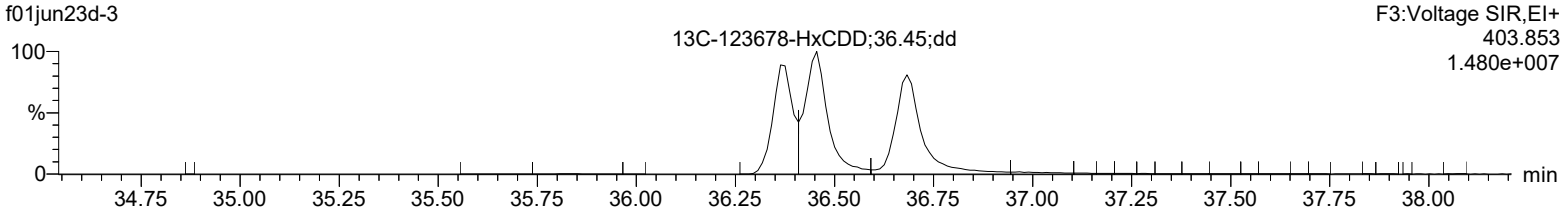
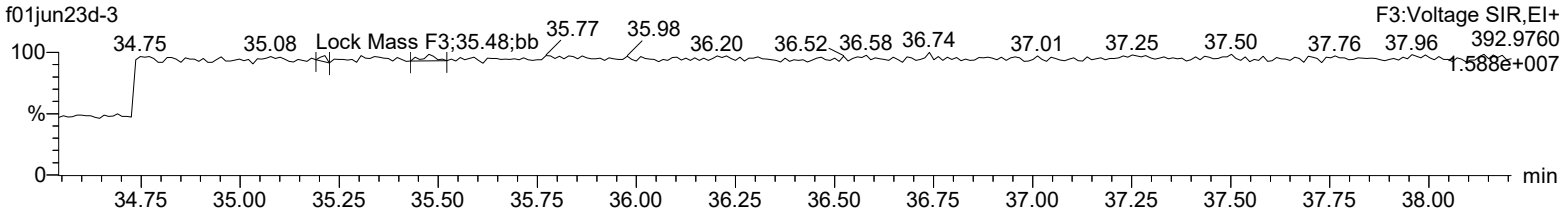


Lock Mass F3



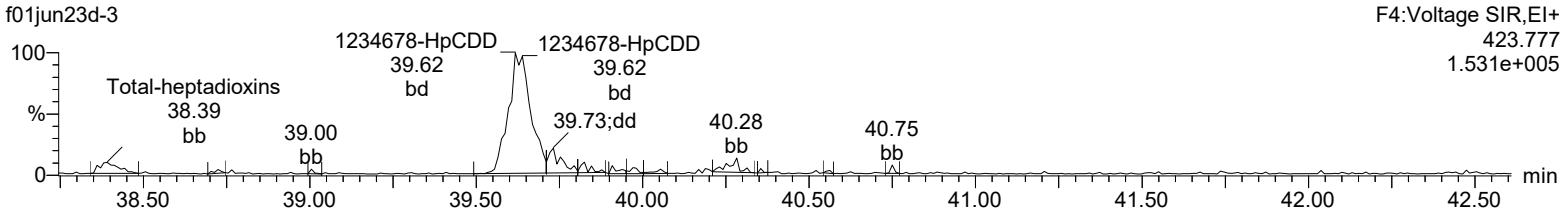
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

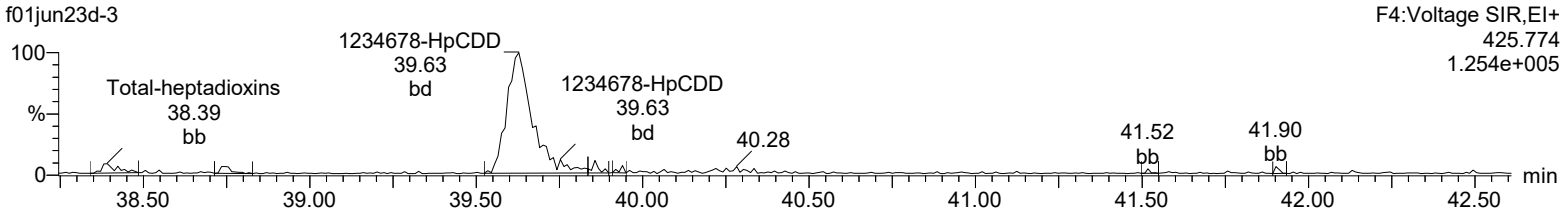
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

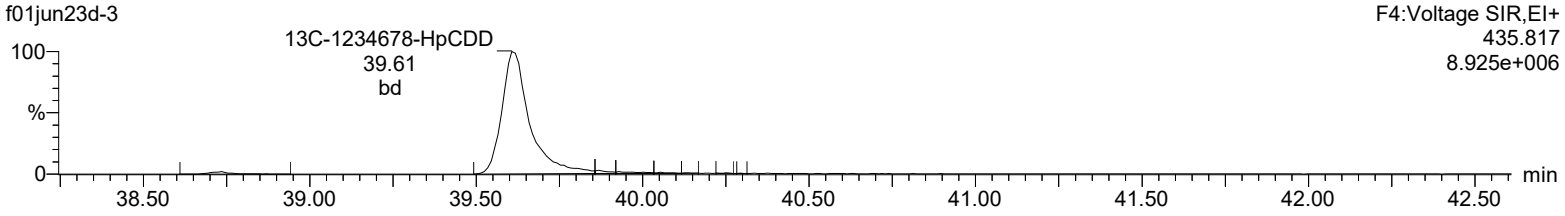
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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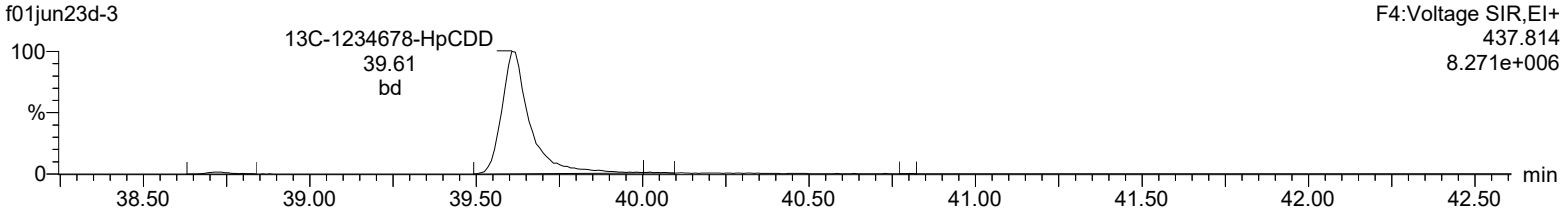
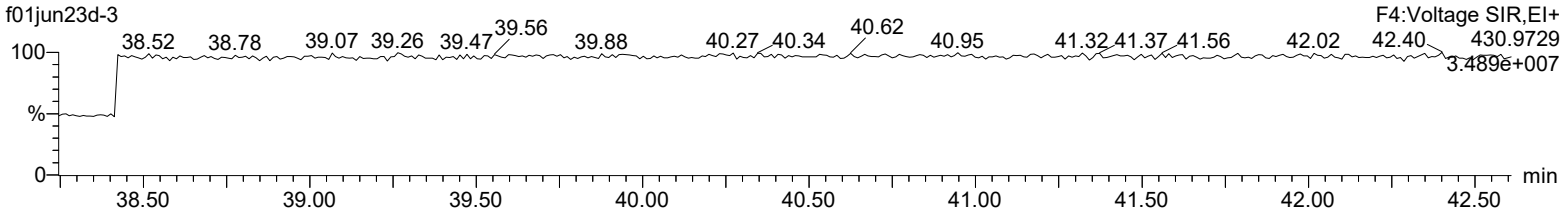


Lock Mass F4



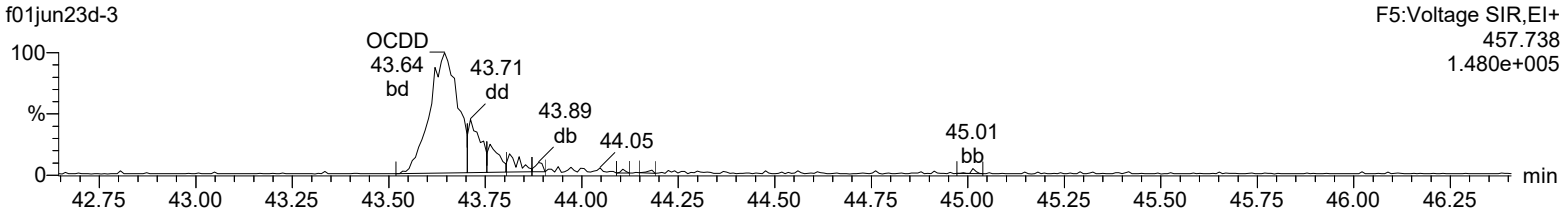
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

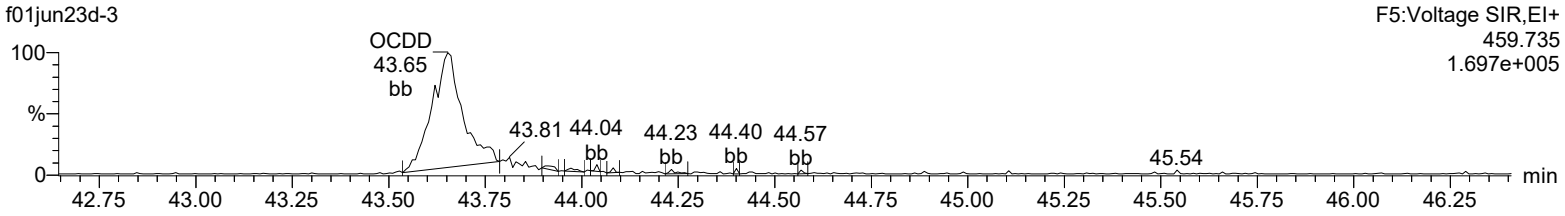
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

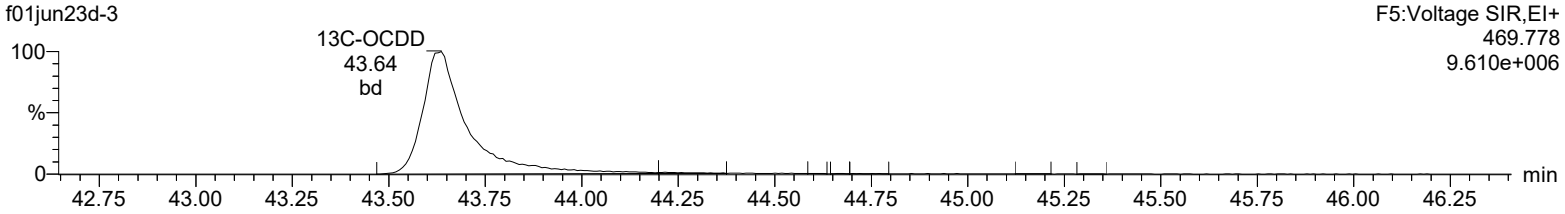
OCDD



OCDD



13C-OCDD



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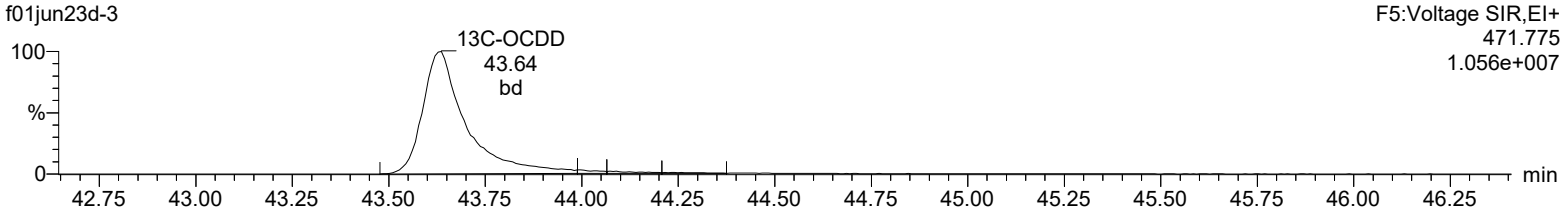
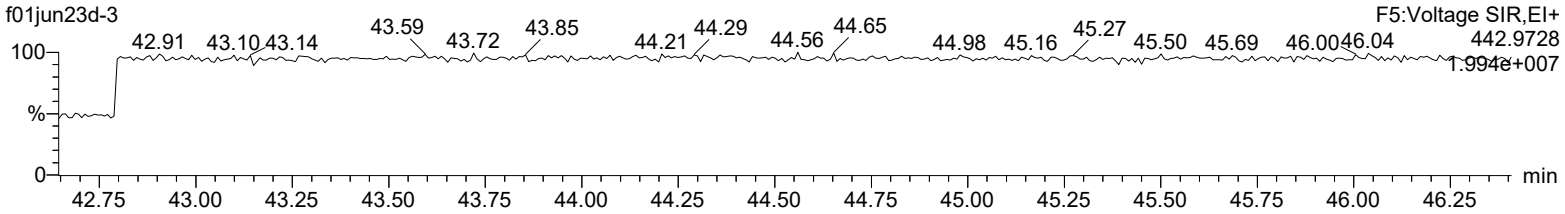


Lock Mass F5



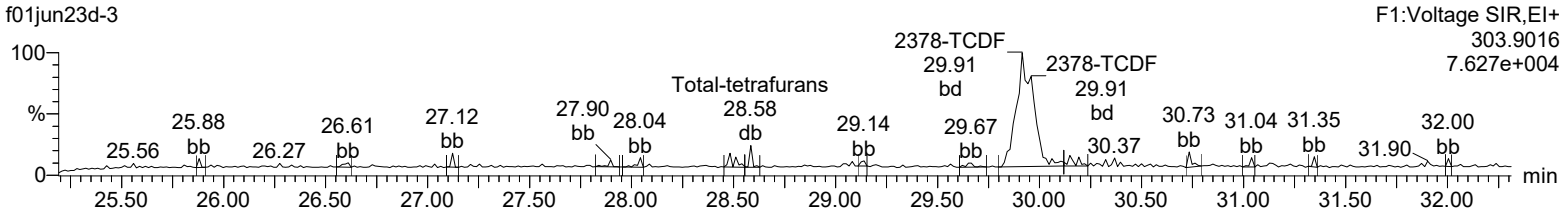
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

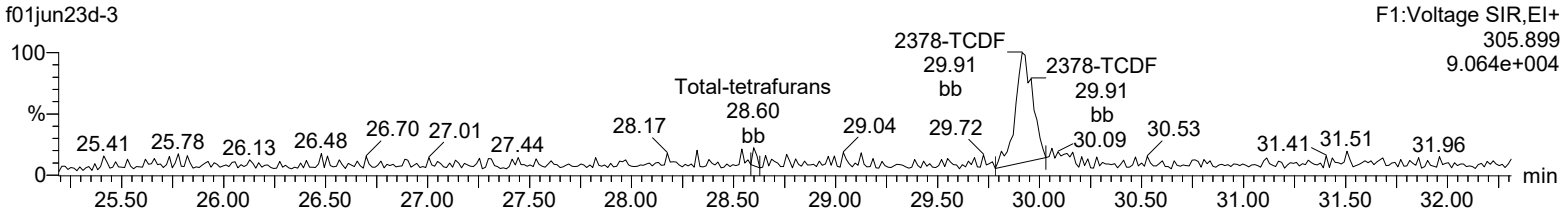
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

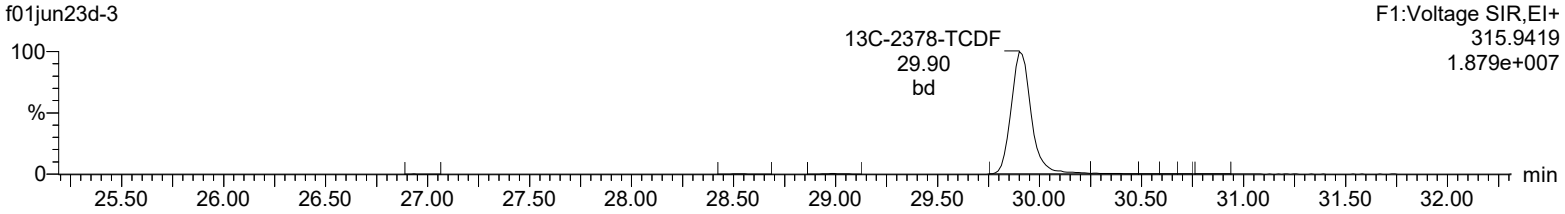
Total-tetrafurans



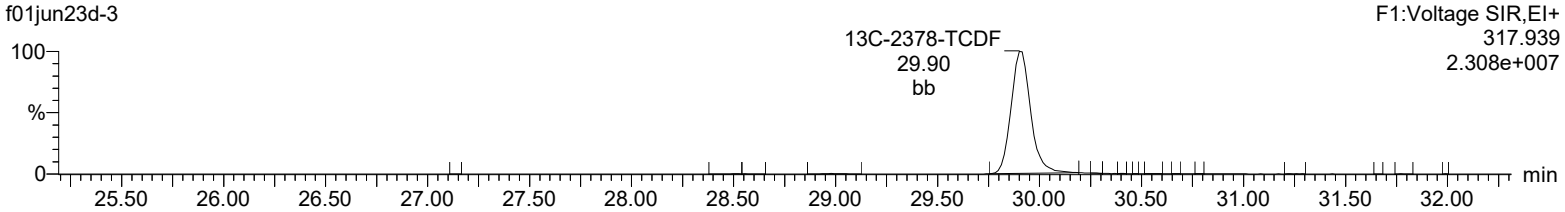
Total-tetrafurans



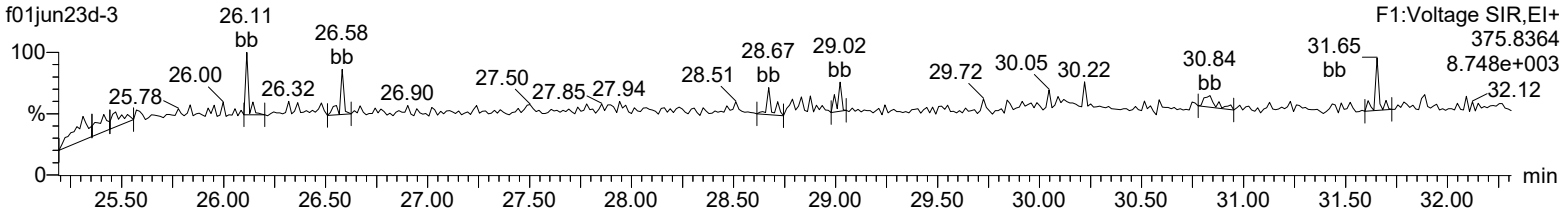
13C-2378-TCDF



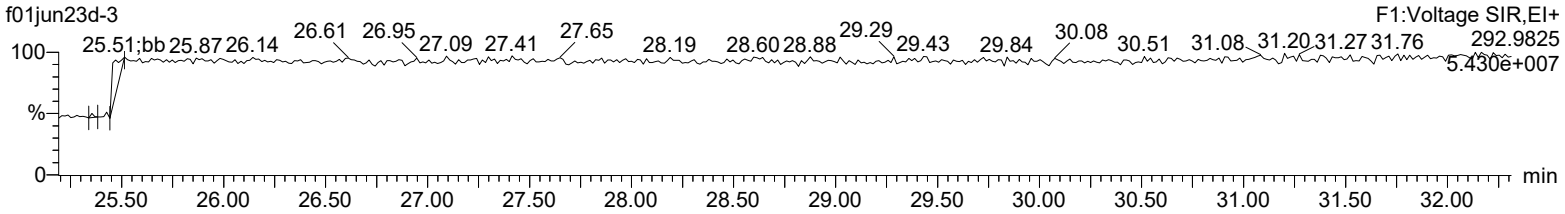
13C-2378-TCDF



HxDPE



Lock Mass F1



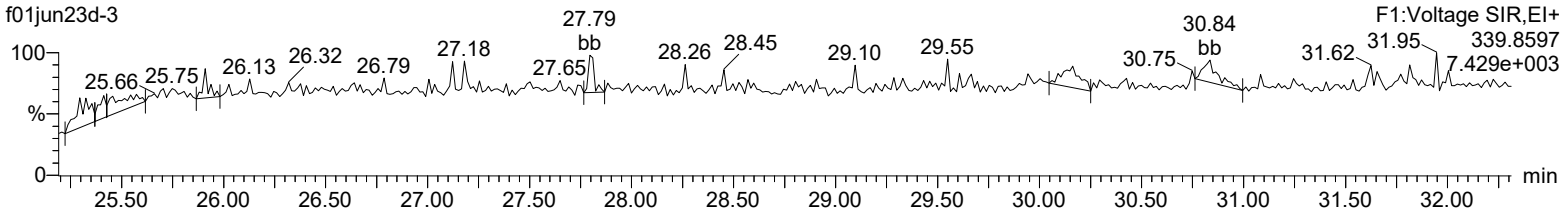
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

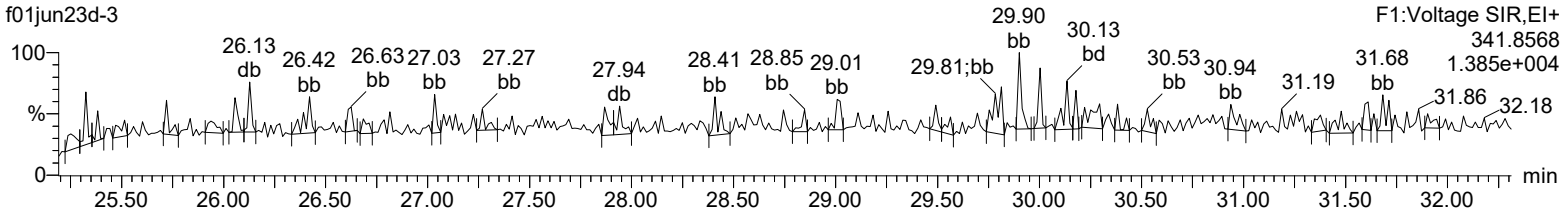
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

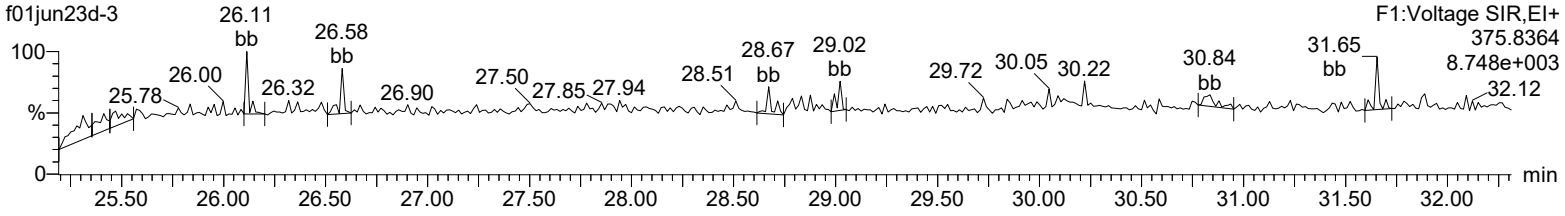
Total-pentafurans (F1)



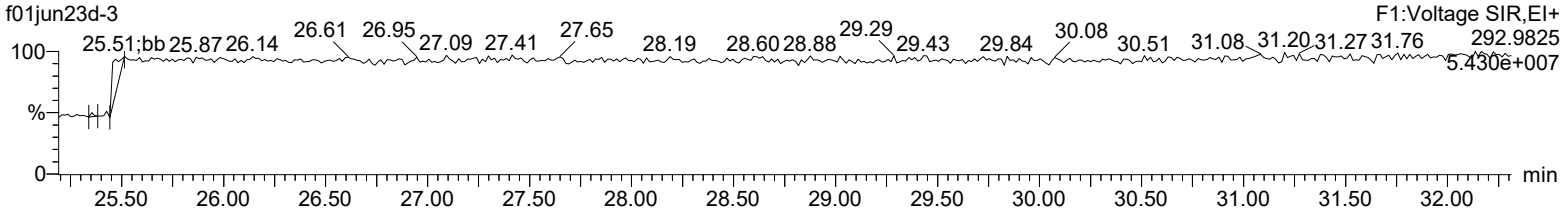
Total-pentafurans (F1)



HxDPE



Lock Mass F1



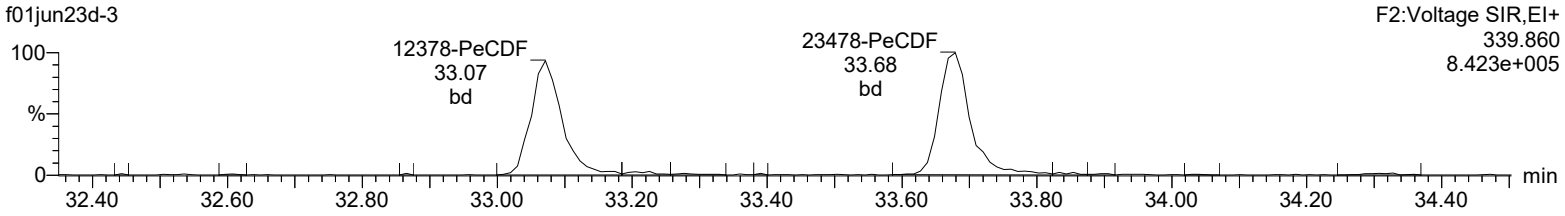
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

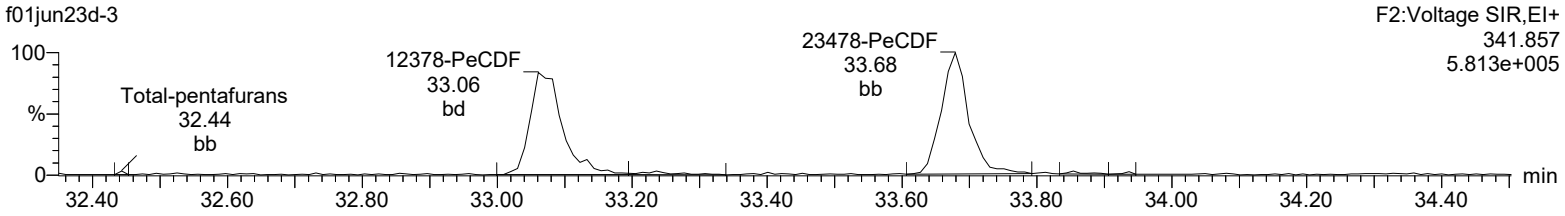
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

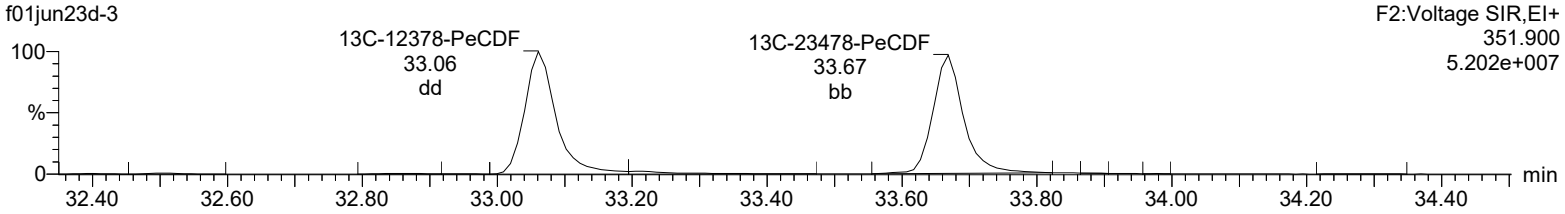
Total-pentafurans



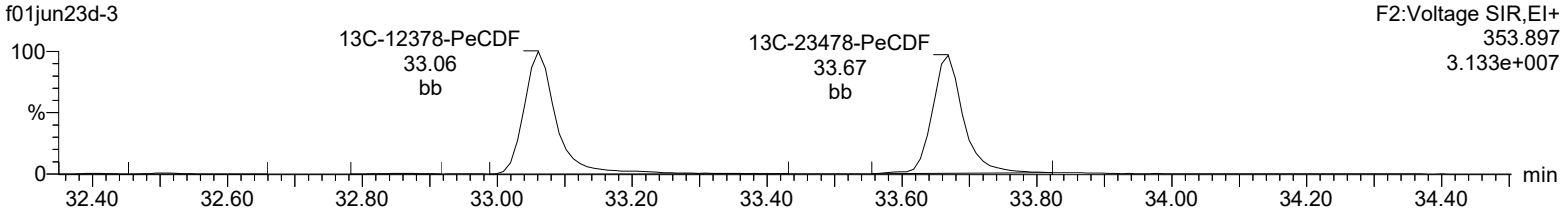
Total-pentafurans



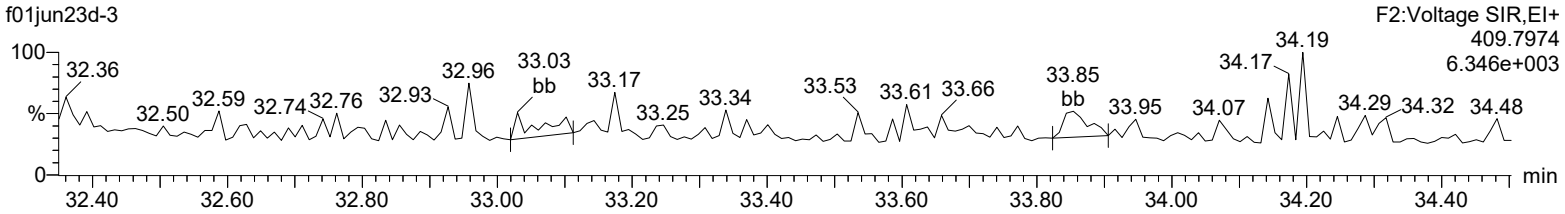
13C-12378-PeCDF



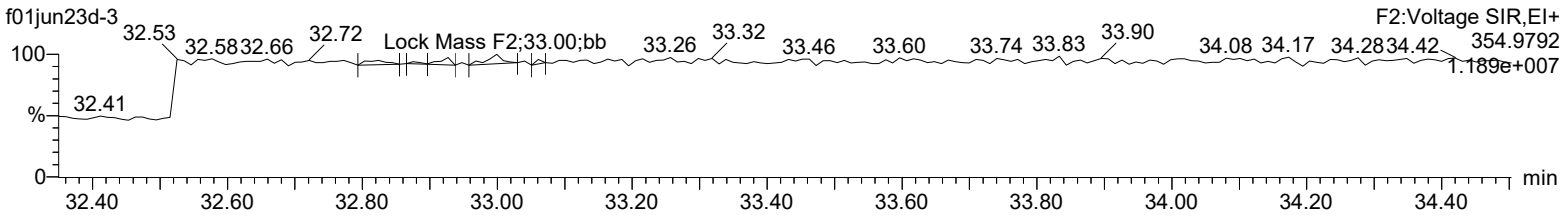
13C-12378-PeCDF



HpDPE



Lock Mass F2



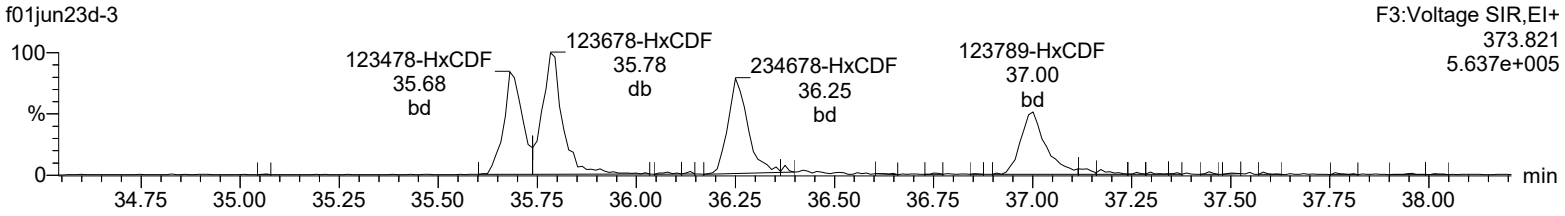
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

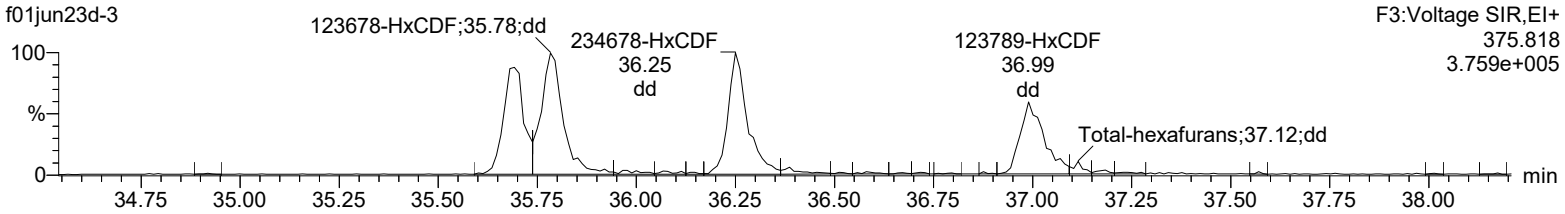
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

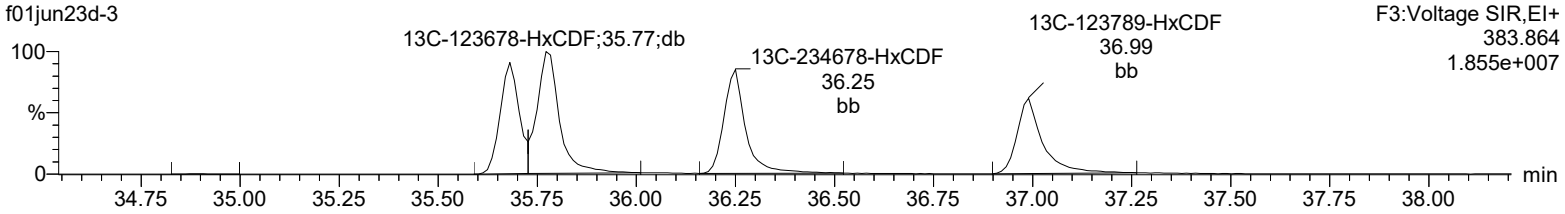
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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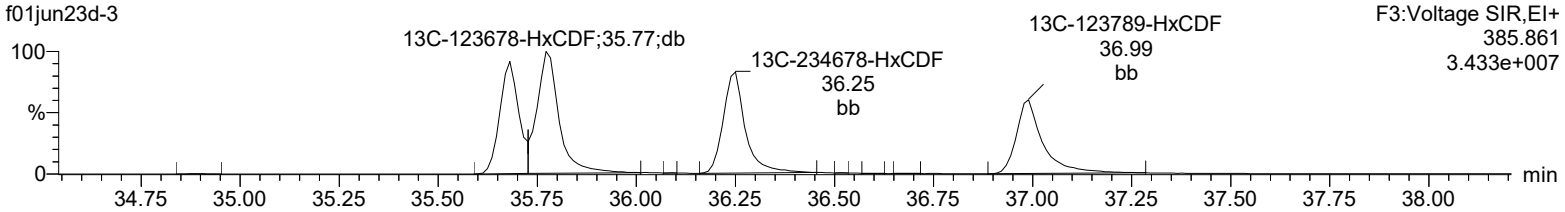
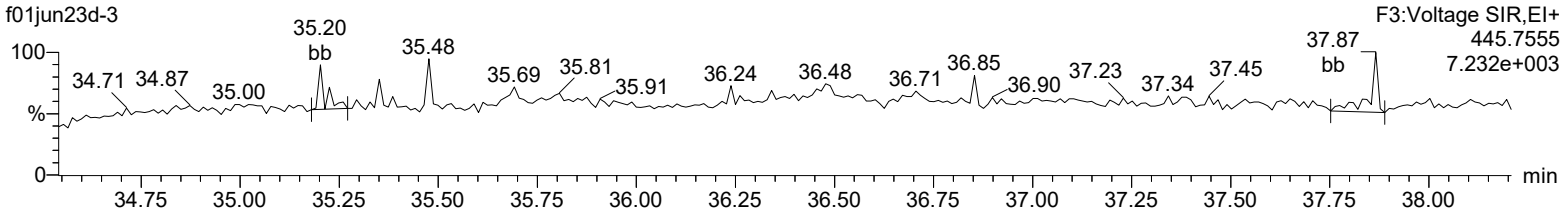
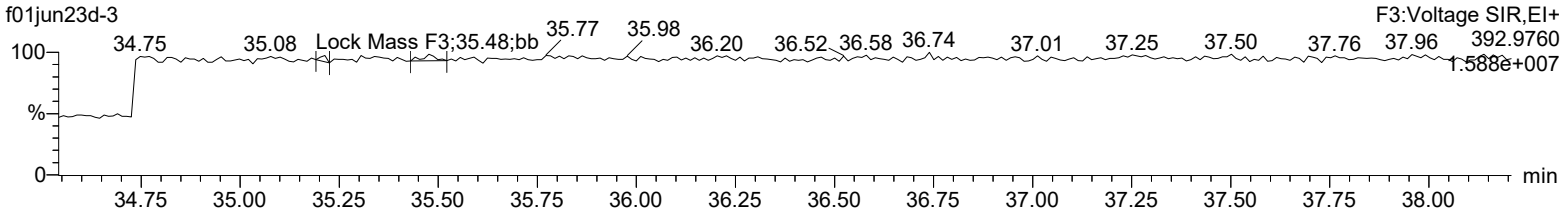


OcDPE



Lock Mass F3



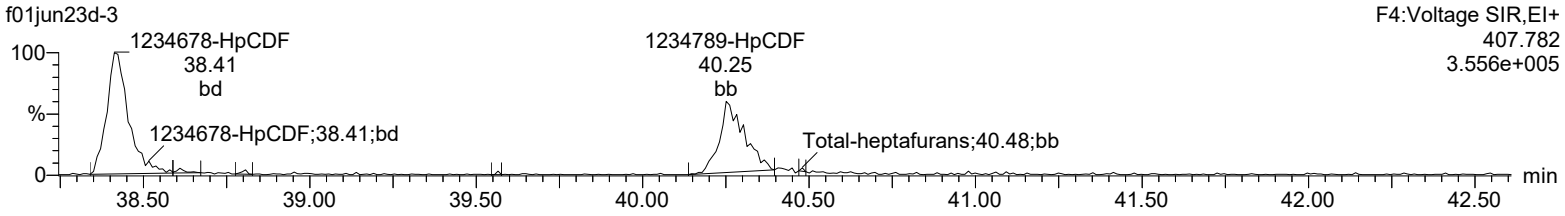
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

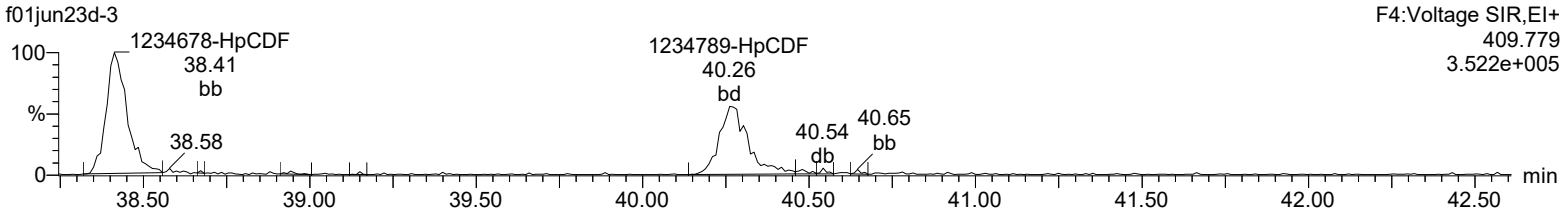
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

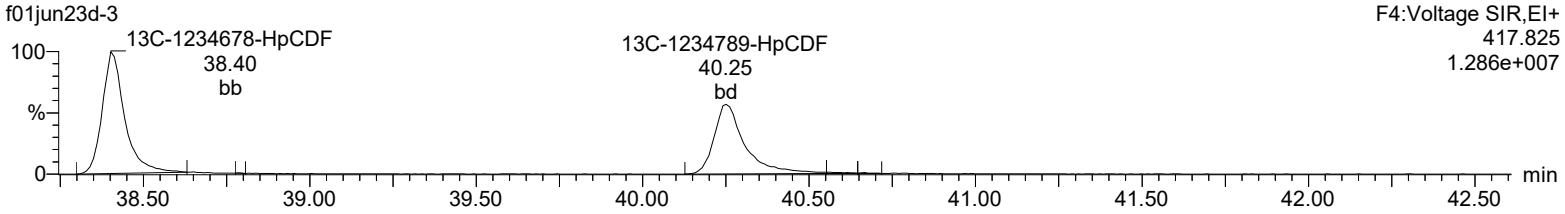
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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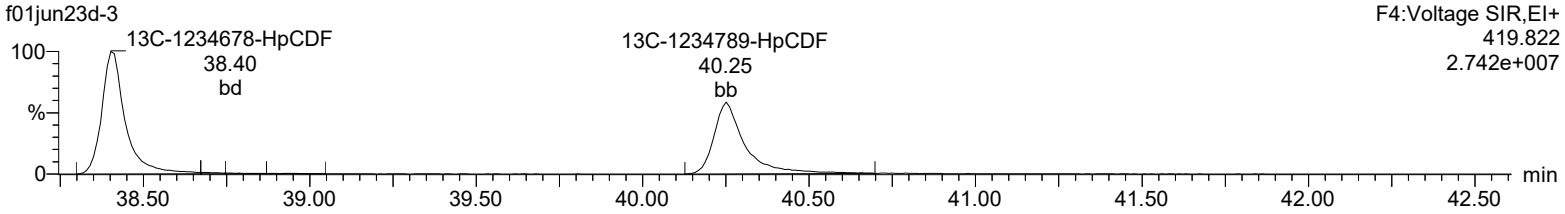
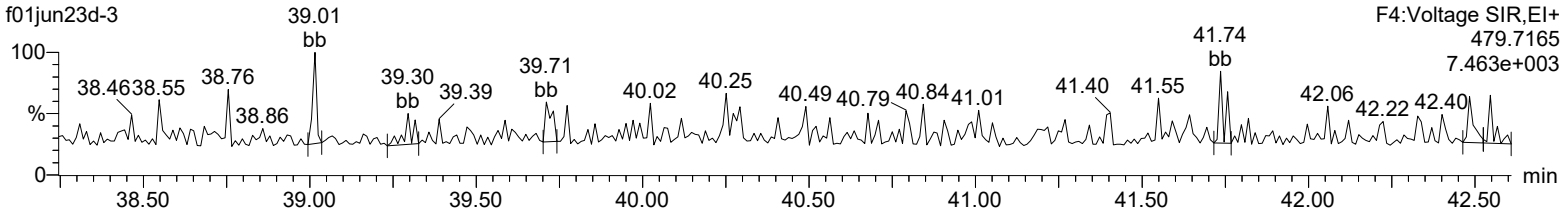
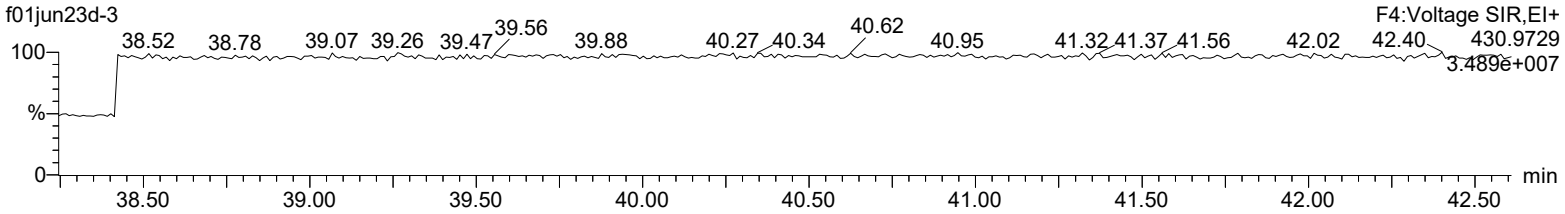


NoDPE



Lock Mass F4



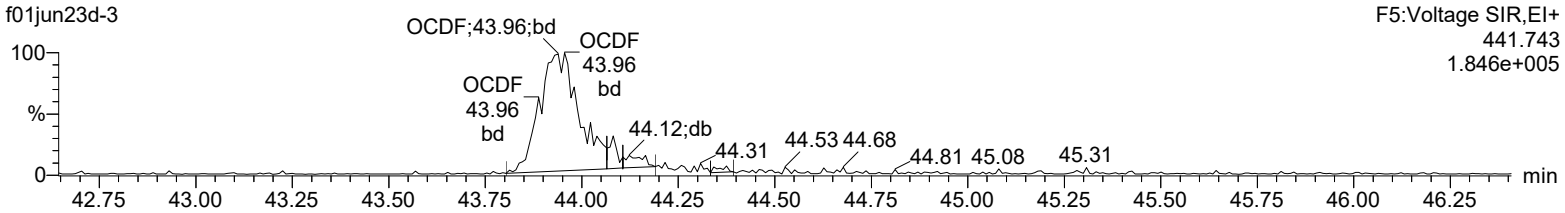
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

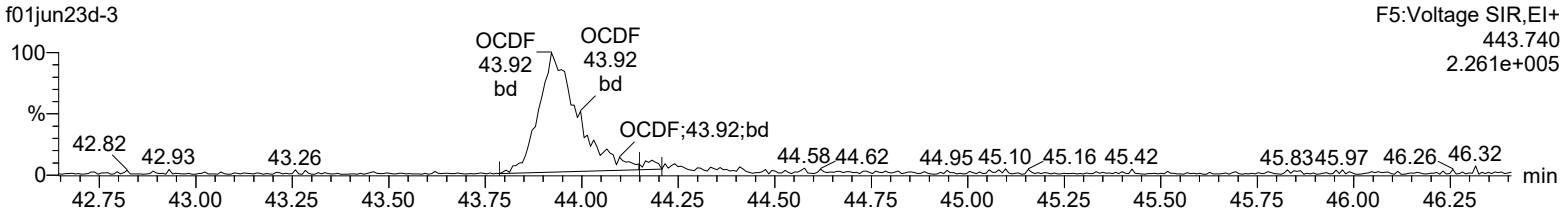
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

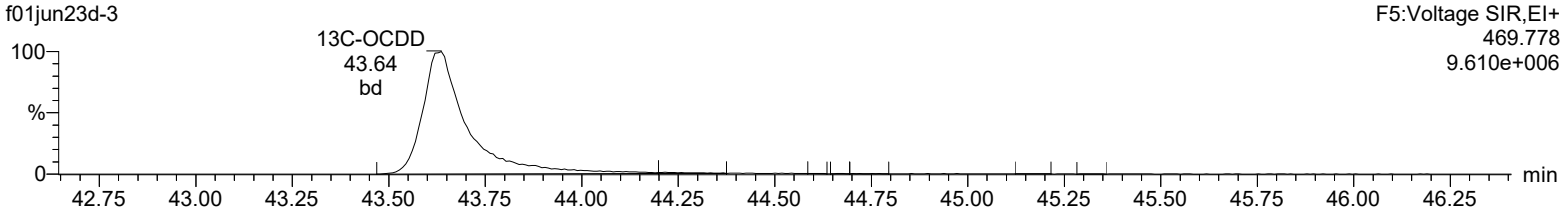
OCDF



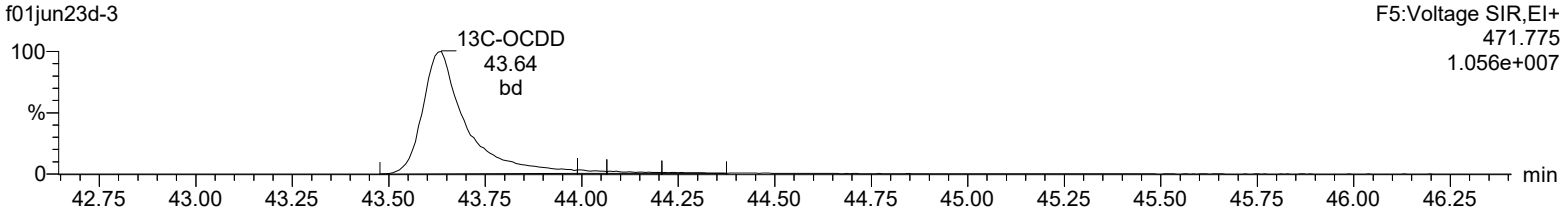
OCDF



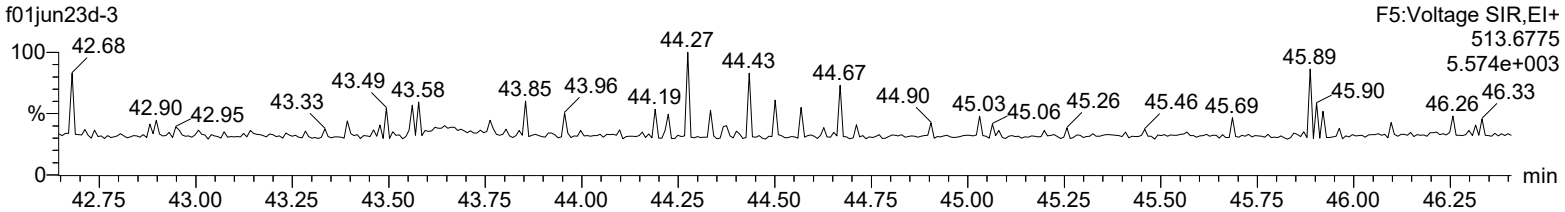
13C-OCDD



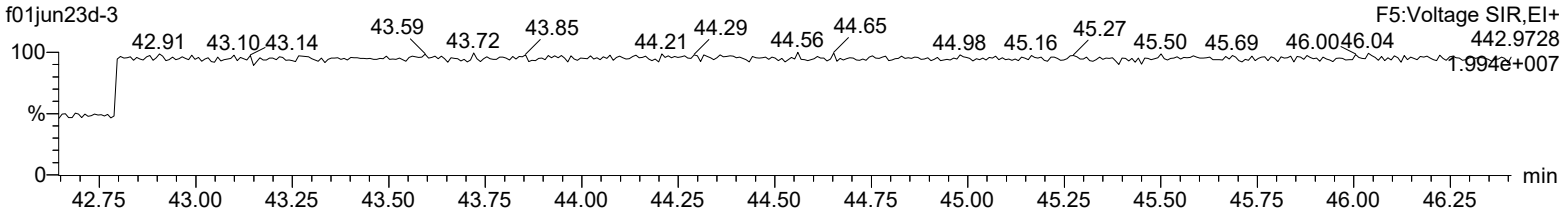
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	6.71e3	7.85e3	1.46e4	30.83	1.001	0.86	NO	0.454	0.998	1.100	5.89	0.0262	7.91e4	2606	30.4	8.54e4	765	111.6	bb	bb
2	12378-PeCDD	3.55e4	2.08e4	5.63e4	33.86	1.000	1.71	NO	2.322	1.082	1.164	4.32	0.0408	6.03e5	4443	135.8	3.48e5	2145	162.3	bb	bd
3	123478-HxCDD	2.52e4	2.04e4	4.57e4	36.38	1.000	1.23	NO	2.495	1.070	1.073	4.27	0.0645	4.07e5	4354	93.5	3.11e5	2850	109.3	dd	bd
4	123678-HxCDD	2.83e4	2.27e4	5.11e4	36.46	1.000	1.25	NO	2.281	0.971	1.064	5.73	0.0541	4.30e5	4354	98.8	3.67e5	2850	128.9	dd	dd
5	123789-HxCDD	2.63e4	2.10e4	4.73e4	36.68	1.007	1.25	NO	2.328	0.993	1.066	6.89	0.0589	3.48e5	4354	79.9	2.85e5	2850	99.8	dd	dd
6	1234678-HpCDD	2.57e4	2.21e4	4.78e4	39.62	1.000	1.16	NO	2.359	1.159	1.228	7.21	0.104	2.82e5	4584	61.5	2.39e5	4491	53.2	bd	bb
7	OCDD	3.37e4	3.47e4	6.84e4	43.65	1.001	0.97	NO	4.717	1.044	1.107	6.02	0.266	2.82e5	8069	34.9	3.10e5	3528	87.8	MM	MM
8	2378-TCDF	1.34e4	1.51e4	2.85e4	29.91	1.001	0.88	NO	0.471	1.274	1.352	4.83	0.0500	1.16e5	4412	26.4	1.48e5	5805	25.5	bd	bb
9	12378-PeCDF	8.05e4	4.69e4	1.27e5	33.06	1.000	1.72	NO	2.260	1.151	1.274	6.94	0.0402	1.38e6	7770	177.1	8.24e5	7550	109.2	bd	bb
10	23478-PeCDF	8.20e4	5.06e4	1.33e5	33.68	1.001	1.62	NO	2.371	1.322	1.394	4.15	0.0406	1.44e6	7770	185.9	8.87e5	7550	117.4	bd	bb
11	123478-HxCDF	4.91e4	3.75e4	8.66e4	35.68	1.000	1.31	NO	2.385	1.353	1.418	4.11	0.0515	8.80e5	6656	132.3	6.38e5	6159	103.5	bd	bd
12	123678-HxCDF	6.37e4	4.74e4	1.11e5	35.78	1.000	1.34	NO	2.386	1.315	1.378	4.15	0.0481	9.61e5	6656	144.4	6.76e5	6159	109.8	dd	dd
13	234678-HxCDF	5.08e4	4.26e4	9.35e4	36.25	1.000	1.19	NO	2.406	1.368	1.422	5.96	0.0569	7.61e5	6656	114.4	6.58e5	6159	106.9	bb	dd
14	123789-HxCDF	4.35e4	3.26e4	7.60e4	37.00	1.001	1.34	NO	2.443	1.273	1.302	5.43	0.0837	5.40e5	6656	81.1	3.73e5	6159	60.6	bb	MM
15	1234678-HpCDF	5.80e4	4.90e4	1.07e5	38.41	1.000	1.18	NO	2.484	1.375	1.384	4.56	0.0545	6.76e5	5792	116.7	6.80e5	5644	120.4	bb	bb
16	1234789-HpCDF	3.81e4	3.75e4	7.56e4	40.26	1.000	1.02	NO	2.301	1.255	1.364	8.52	0.0917	4.20e5	5792	72.4	3.94e5	5644	69.8	bd	bd
17	OCDF	4.65e4	5.22e4	9.87e4	43.93	1.007	0.89	NO	4.303	1.508	1.752	16.82	0.172	3.79e5	6494	58.3	4.23e5	5395	78.4	bd	bd
18	13C-2378-TCDD	1.28e6	1.64e6	2.92e6	30.81	1.023	0.78	NO	97.987	1.116	1.139	2.81	0.140	1.28e7	9897	1291.5	1.61e7	4815	3337.1	bb	bd
19	13C-12378-PeCDD	1.29e6	7.90e5	2.08e6	33.85	1.124	1.63	NO	97.937	0.796	0.813	6.11	0.210	2.15e7	7387	2910.7	1.32e7	8366	1583.7	bd	bb
20	13C-123478-HxCDD	1.00e6	7.06e5	1.71e6	36.36	0.991	1.42	NO	97.466	0.826	0.847	3.44	0.219	1.53e7	10881	1401.6	1.21e7	8680	1399.2	bd	bd
21	13C-123678-HxCDD	1.14e6	9.66e5	2.10e6	36.44	0.993	1.18	NO	99.179	1.019	1.027	0.98	0.181	1.69e7	10881	1555.1	1.35e7	8680	1553.3	dd	dd
22	13C-1234678-HpCDD	8.66e5	7.84e5	1.65e6	39.61	1.080	1.10	NO	99.829	0.799	0.800	2.20	0.288	9.31e6	11537	807.1	8.45e6	12721	664.3	bd	bd
23	13C-OCDD	1.27e6	1.35e6	2.62e6	43.63	1.189	0.94	NO	194.356	0.634	0.653	4.31	0.418	9.55e6	13402	712.4	1.06e7	15270	691.7	bd	bd
24	13C-2378-TCDF	1.99e6	2.49e6	4.47e6	29.89	0.992	0.80	NO	98.617	1.710	1.734	1.52	0.104	1.68e7	9319	1798.0	2.06e7	7377	2799.2	bb	bd
25	13C-12378-PeCDF	2.76e6	1.66e6	4.43e6	33.06	1.098	1.66	NO	98.474	1.693	1.719	3.99	0.368	4.67e7	29968	1559.8	2.84e7	28321	1001.7	db	dd
26	13C-23478-PeCDF	2.50e6	1.51e6	4.01e6	33.66	1.117	1.65	NO	94.723	1.534	1.619	7.01	0.391	4.22e7	29968	1407.3	2.54e7	28321	895.9	bb	bb
27	13C-123478-HxCDF	8.92e5	1.67e6	2.56e6	35.67	0.972	0.54	NO	95.994	1.240	1.291	3.13	0.275	1.53e7	18604	821.3	2.92e7	18731	1556.3	bd	bd
28	13C-123678-HxCDF	1.19e6	2.19e6	3.38e6	35.77	0.975	0.55	NO	102.380	1.636	1.598	1.73	0.222	1.71e7	18604	917.1	3.13e7	18731	1672.4	dd	db
29	13C-234678-HxCDF	9.60e5	1.77e6	2.73e6	36.24	0.988	0.54	NO	98.906	1.323	1.338	1.29	0.265	1.39e7	18604	747.6	2.56e7	18731	1368.3	bd	bb
30	13C-123789-HxCDF	8.38e5	1.55e6	2.39e6	36.98	1.008	0.54	NO	97.274	1.157	1.190	2.59	0.298	1.03e7	18604	553.8	1.89e7	18731	1006.9	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.82e5	2.13e6	3.11e6	38.40	1.047	0.46	NO	98.019	1.506	1.537	2.02	0.287	1.20e7	20024	597.9	2.51e7	26349	953.2	bd	bb
32	13C-1234789-HpCDF	7.70e5	1.64e6	2.41e6	40.25	1.097	0.47	NO	97.353	1.166	1.198	2.23	0.368	7.31e6	20024	365.2	1.56e7	26349	590.8	bd	bb
33	13C-1234-TCDD	1.17e6	1.45e6	2.62e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.160	1.03e7	9897	1041.1	1.28e7	4815	2666.6	bb	bb
34	13C-123789-HxCDD	1.15e6	9.11e5	2.07e6	36.68	0.000	1.27	NO	100.000	1.000	1.000	0.00	0.186	1.47e7	10881	1350.8	1.13e7	8680	1298.4	dd	dd
35	37Cl-2378-TCDD	1.39e4		1.39e4	30.82	1.023			0.472	1.062	1.124	6.42	0.0191	1.42e5	1983	71.6				bb	

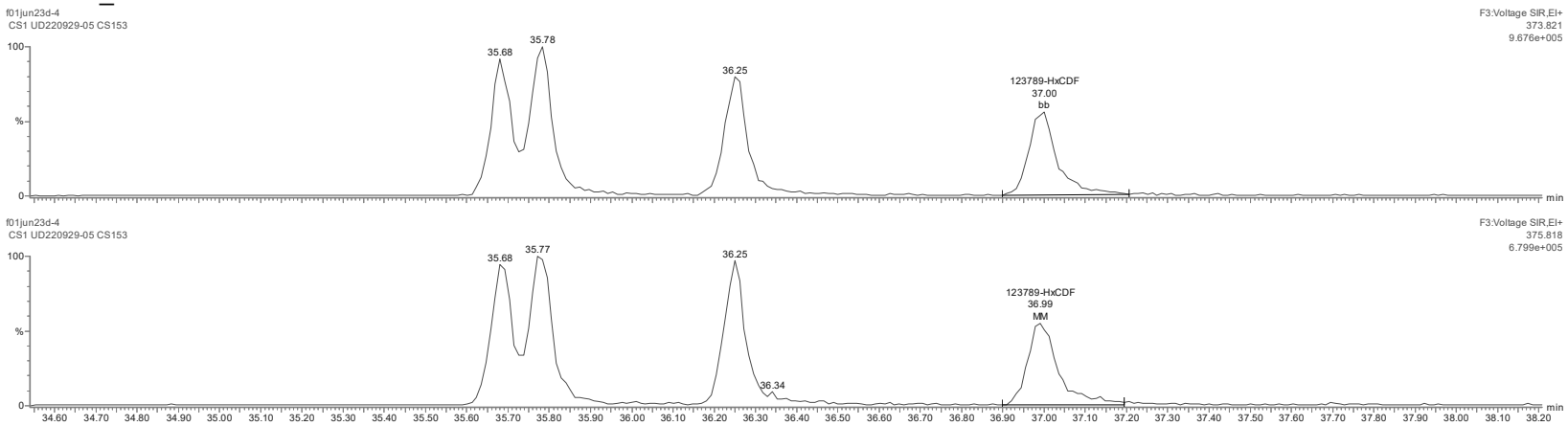
Reasons for Analyst Intervention

Name:f01jun23d-4, ID:

M	M2
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB
	14 123789-HxCDF 37.00 - AB

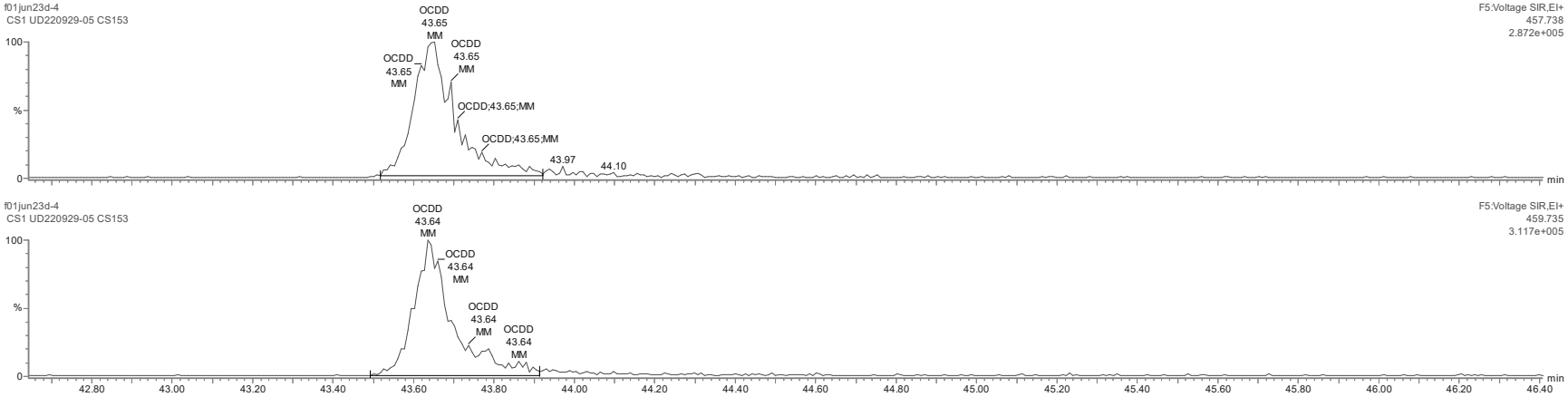
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/06/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/05/2023 06/06/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

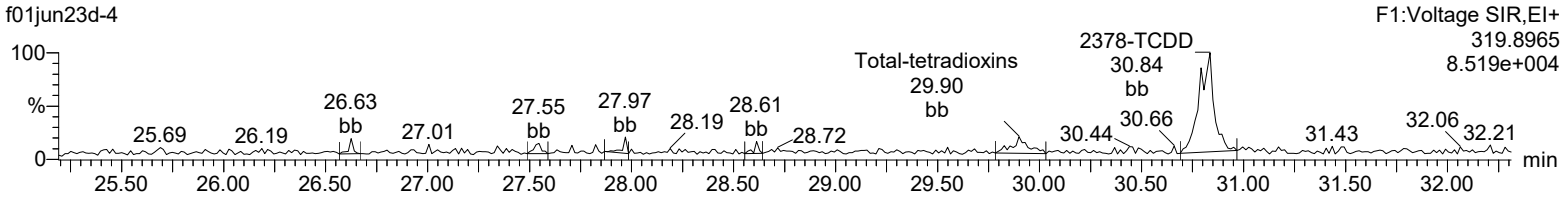
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

06/06/2023

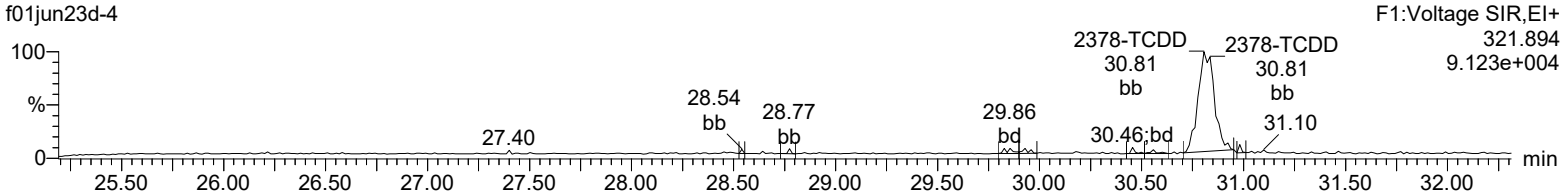
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

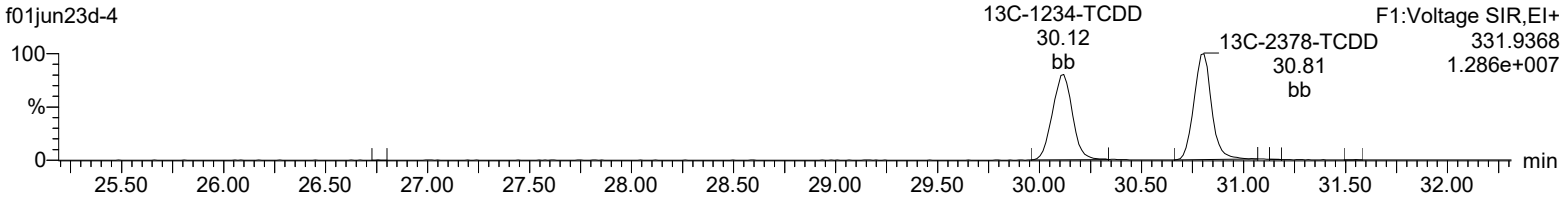
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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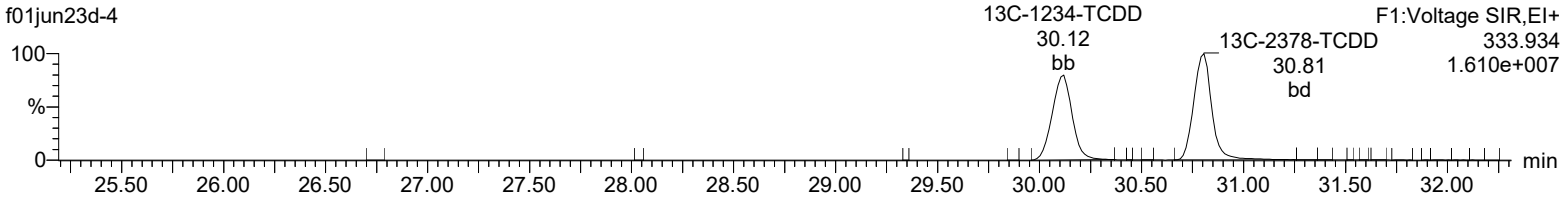

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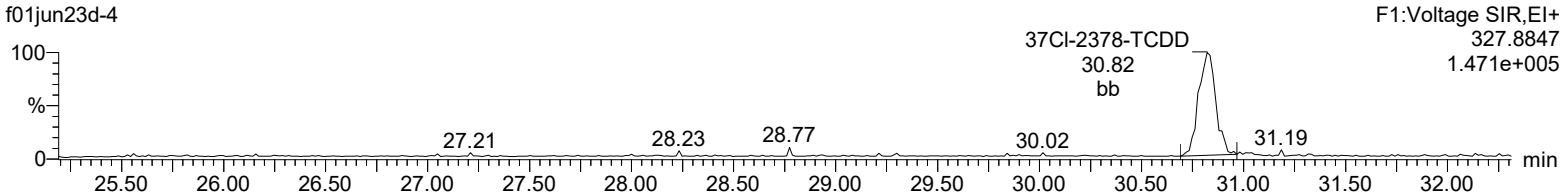
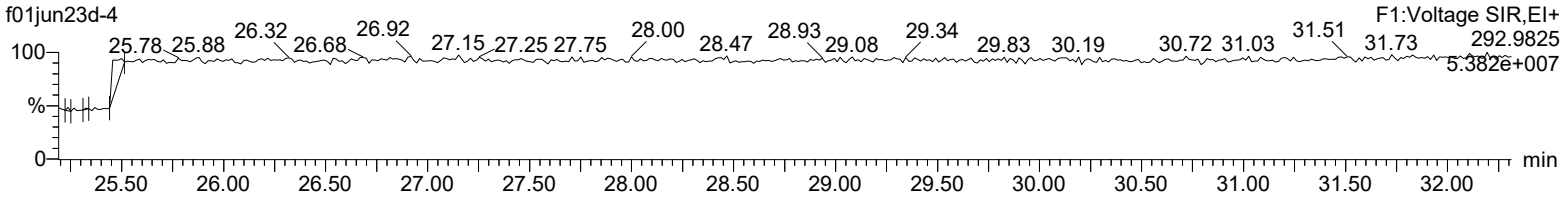


Lock Mass F1



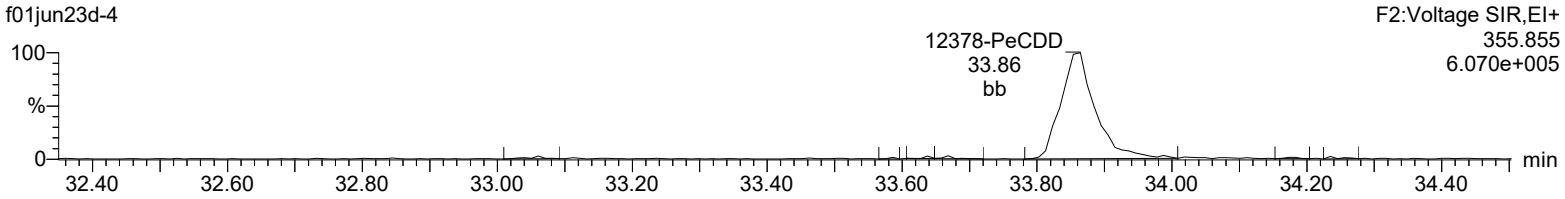
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

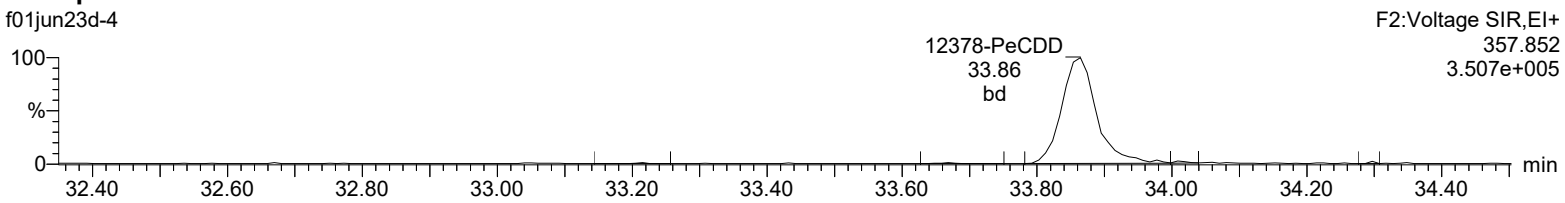
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

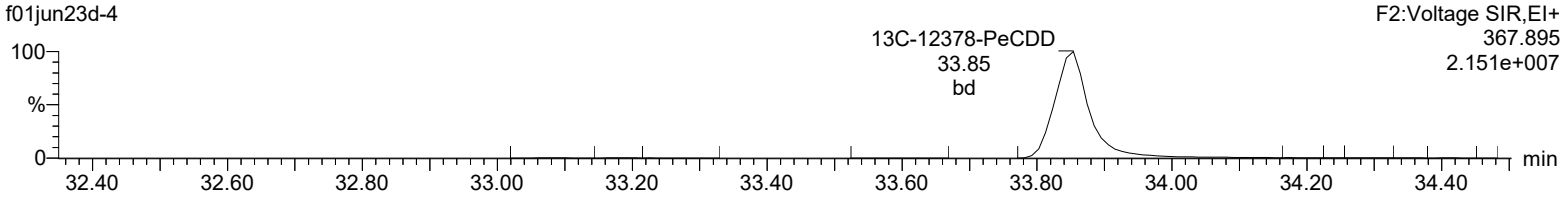
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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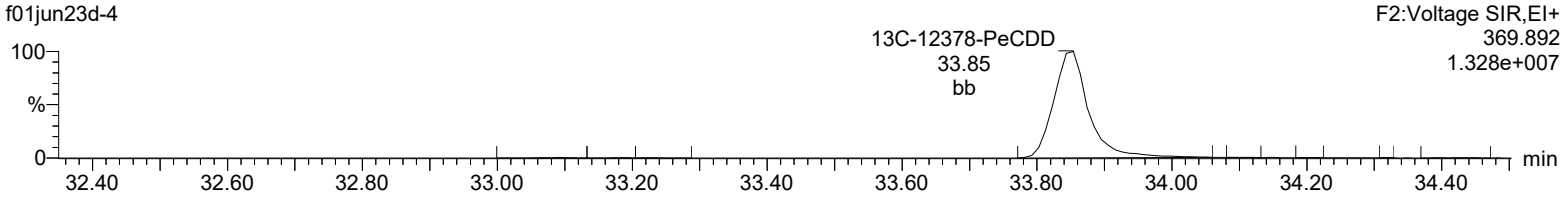
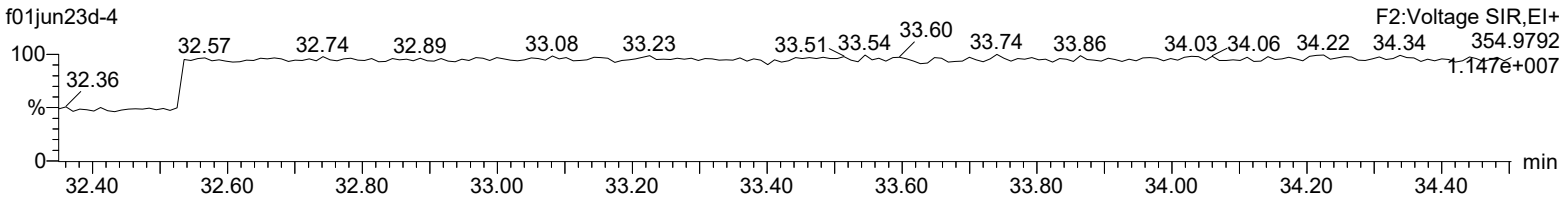


Lock Mass F2



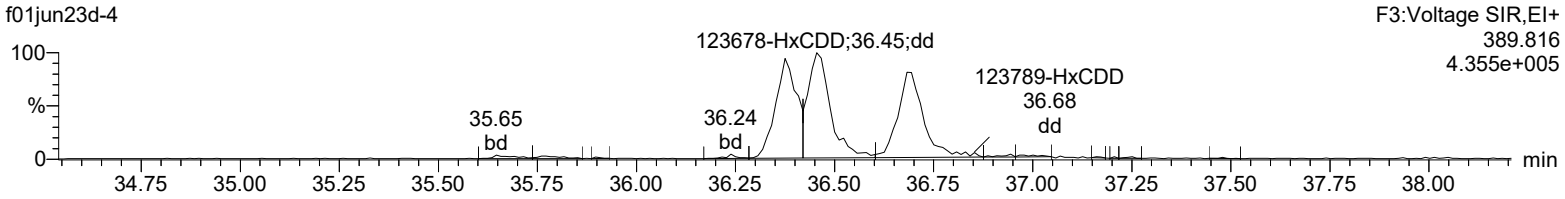
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

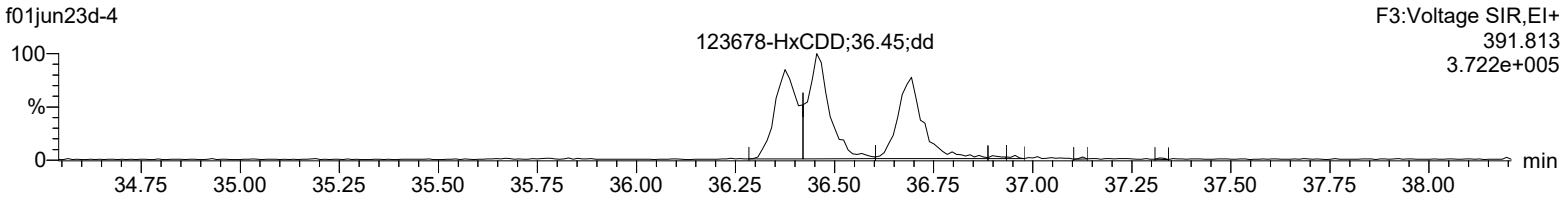
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

Total-hexadioxins



Total-hexadioxins



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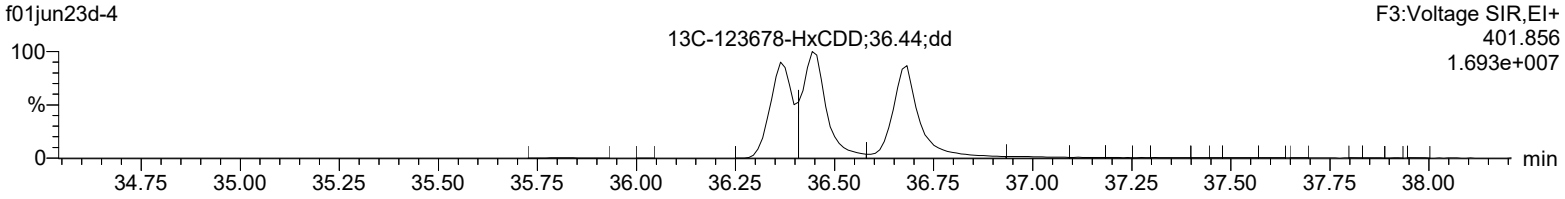

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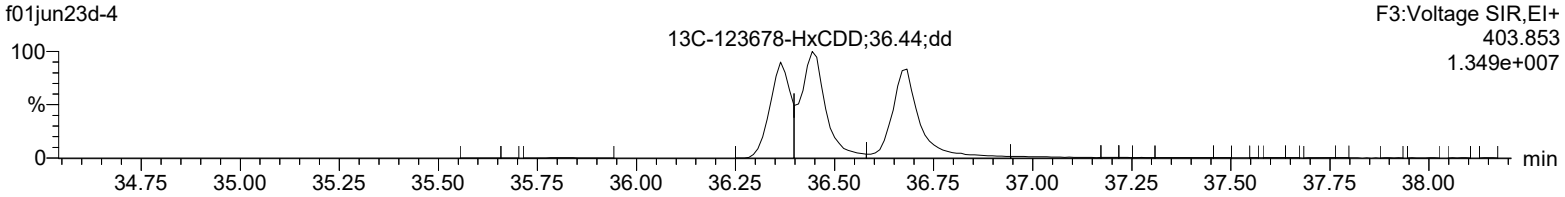
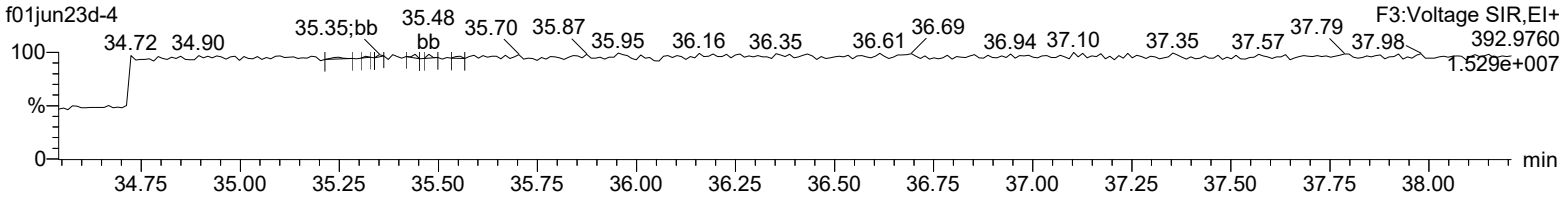


Lock Mass F3



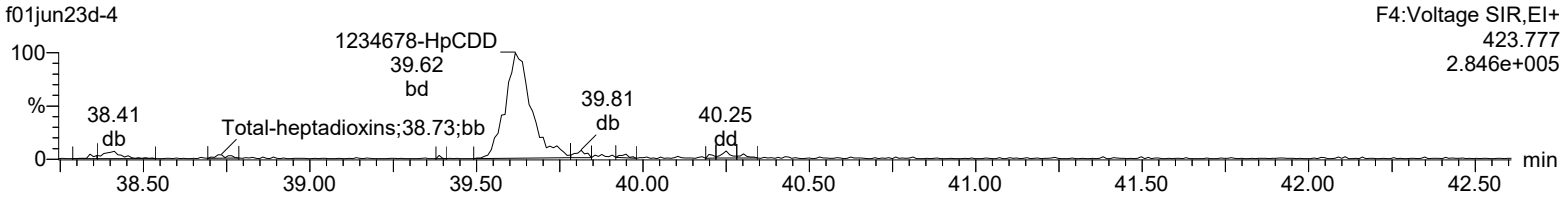
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

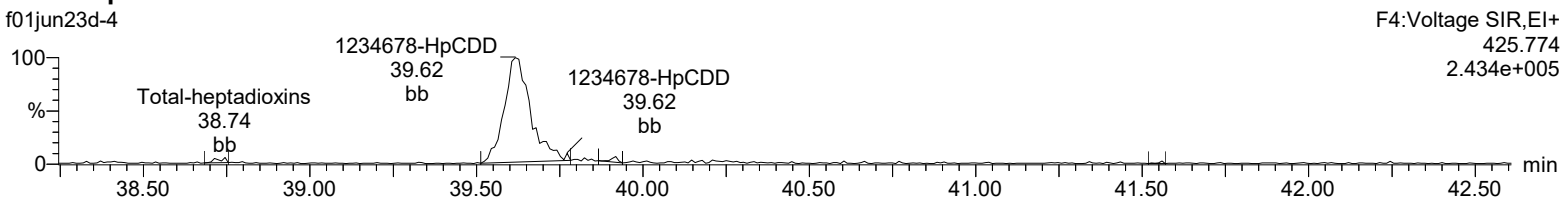
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

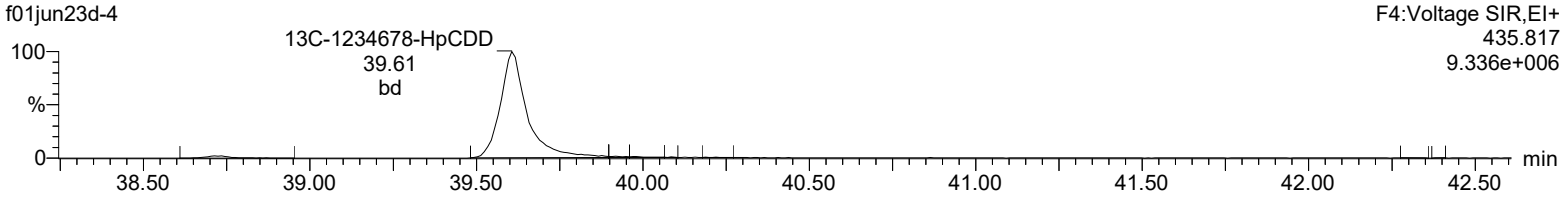
Total-heptadioxins



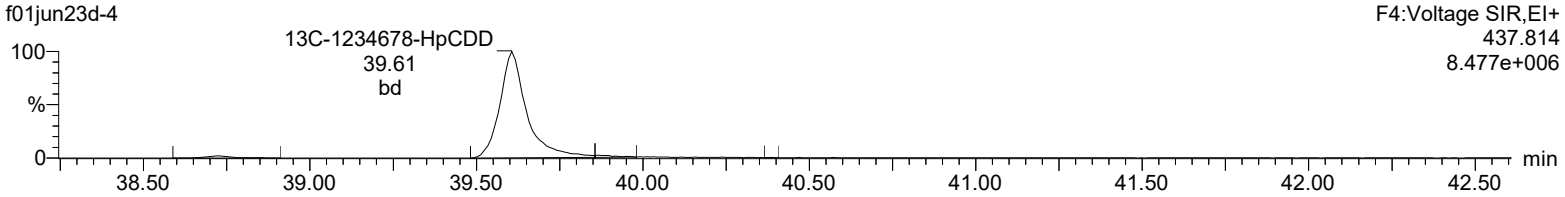
Total-heptadioxins



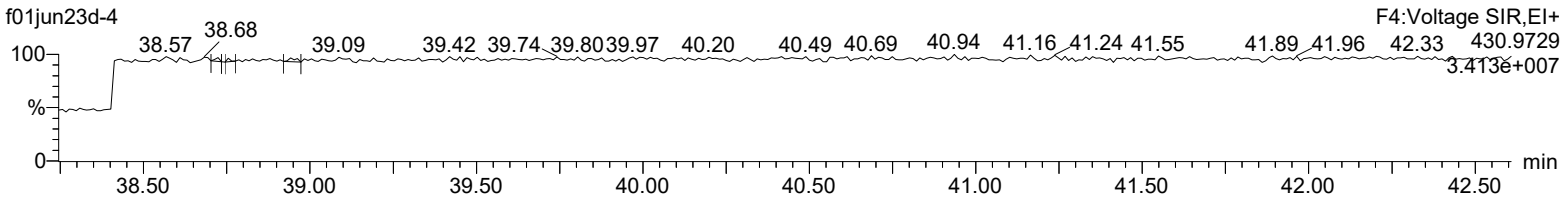
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



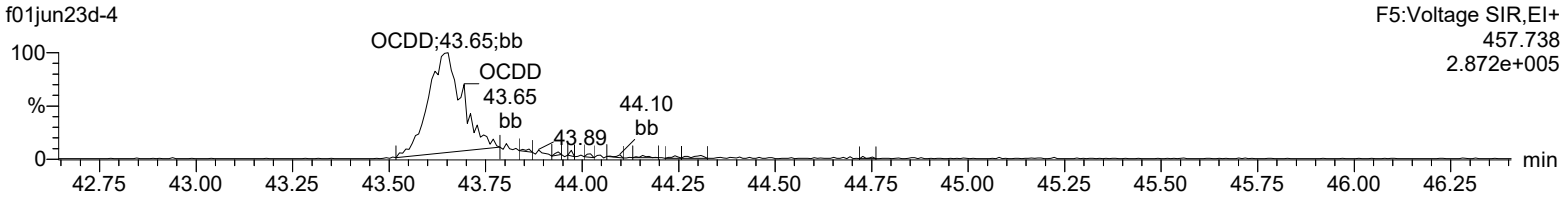
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

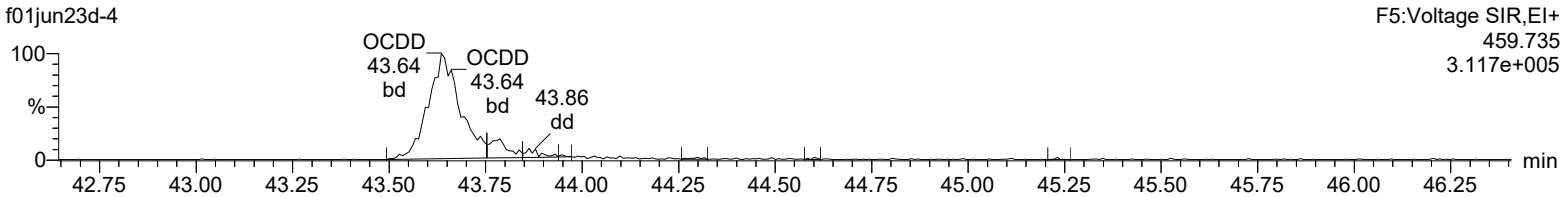
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

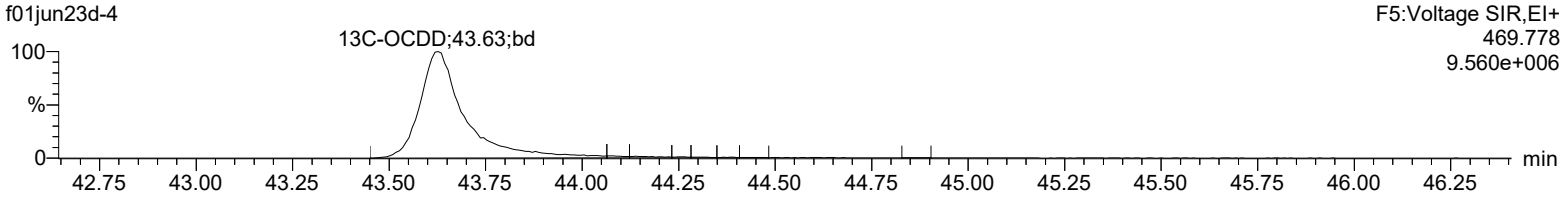
OCDD



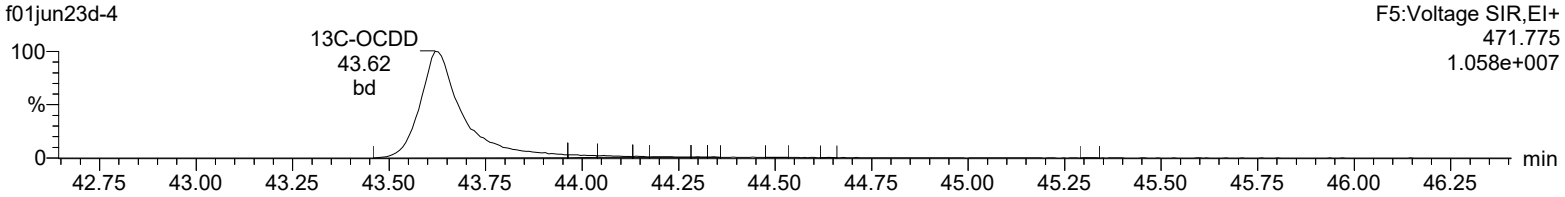
OCDD



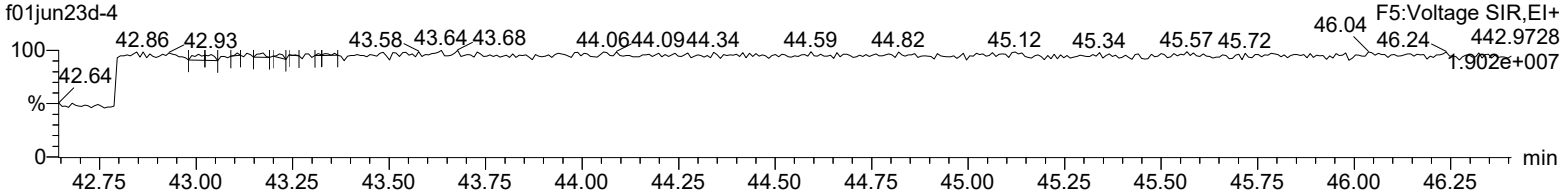
13C-OCDD



13C-OCDD



Lock Mass F5



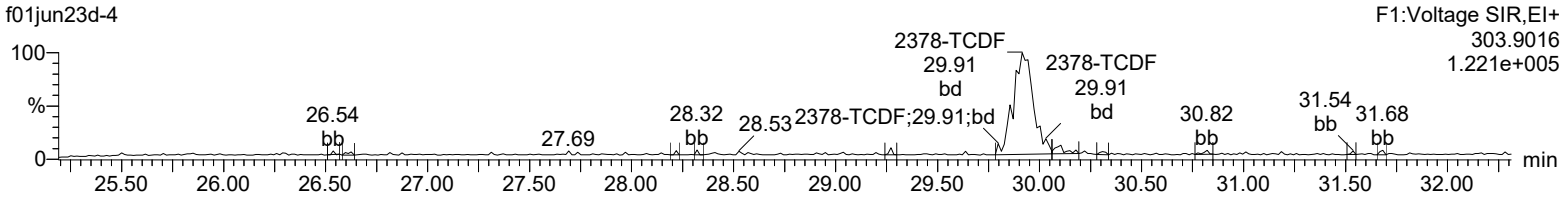
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

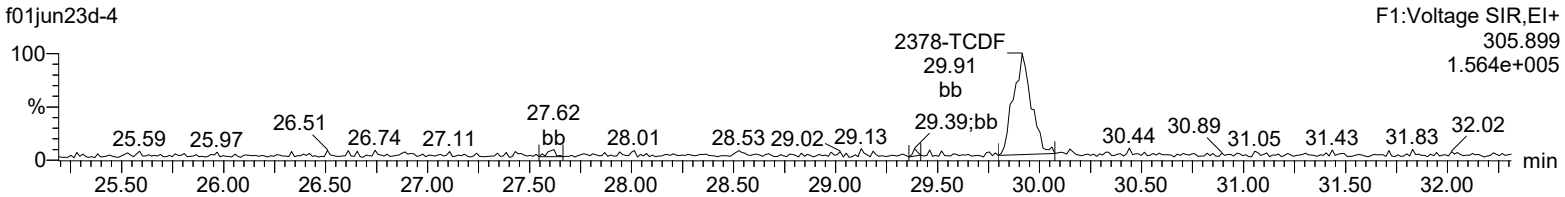
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

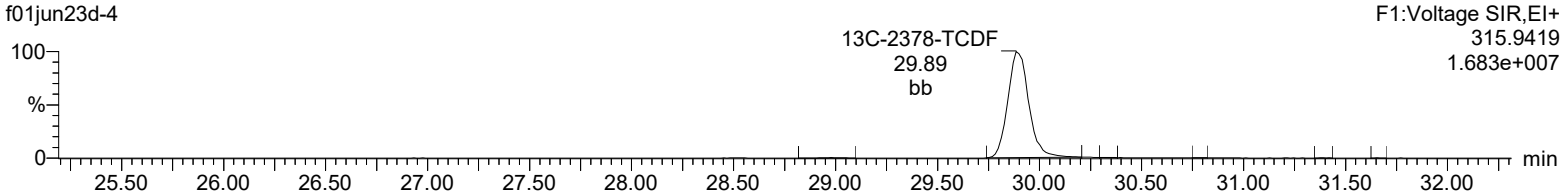
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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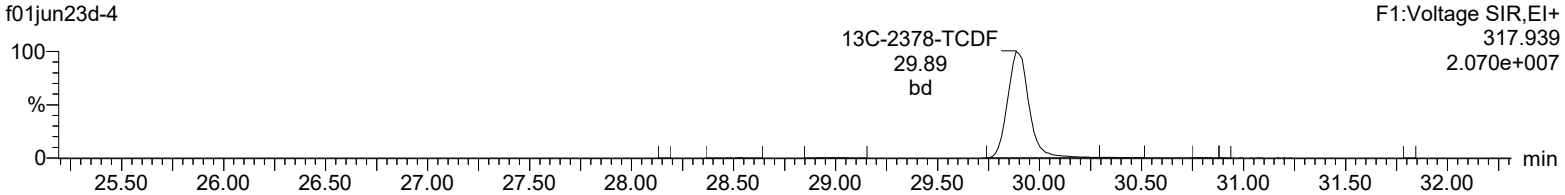
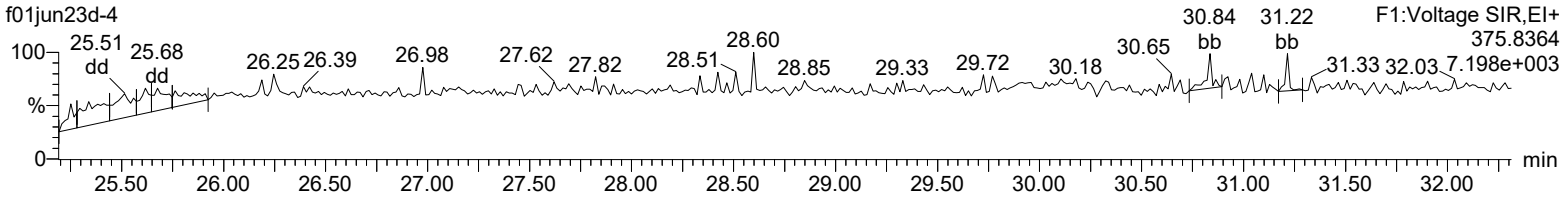
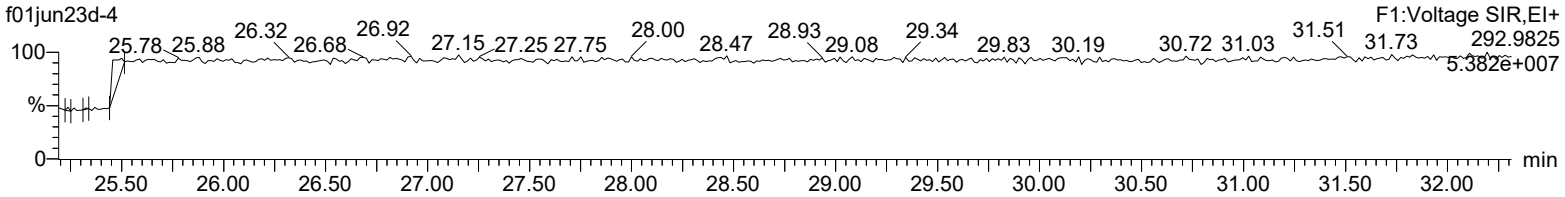


HxDPE



Lock Mass F1



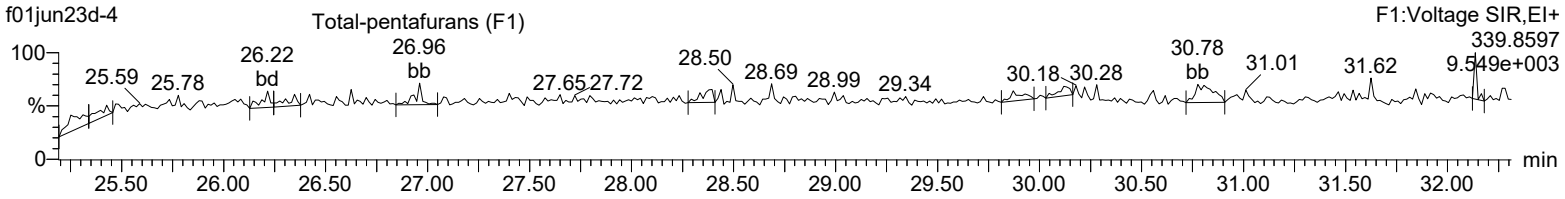
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

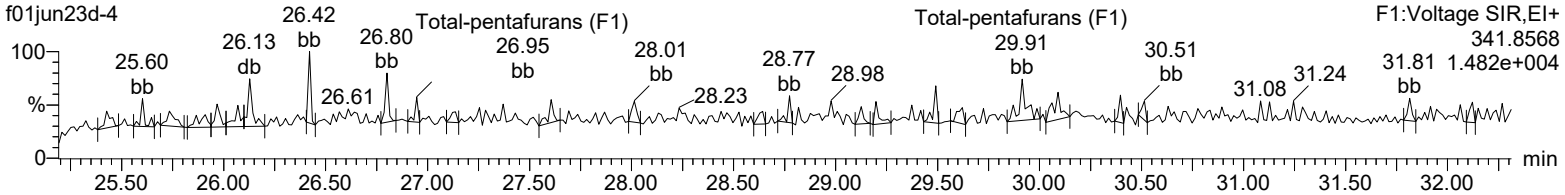
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

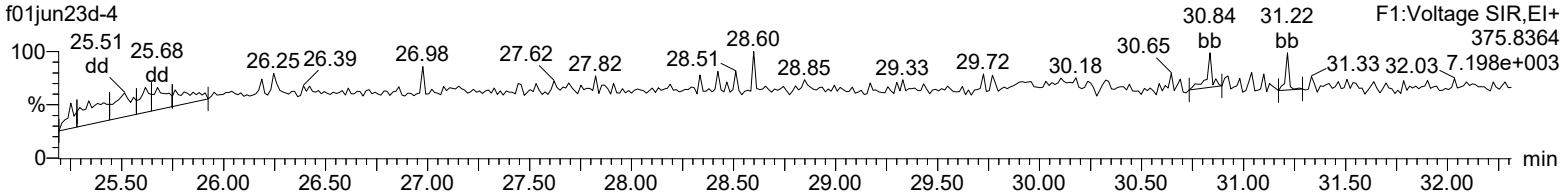
Total-pentafurans (F1)



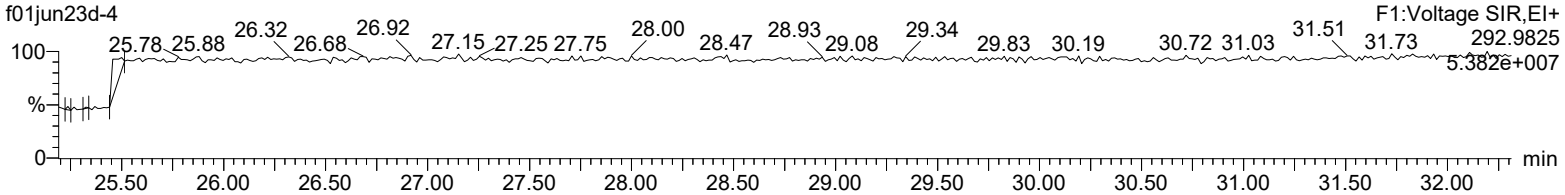
Total-pentafurans (F1)



HxDPE



Lock Mass F1



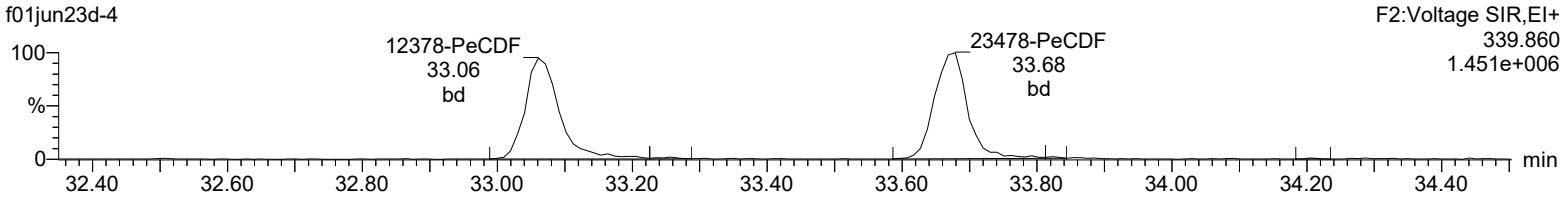
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

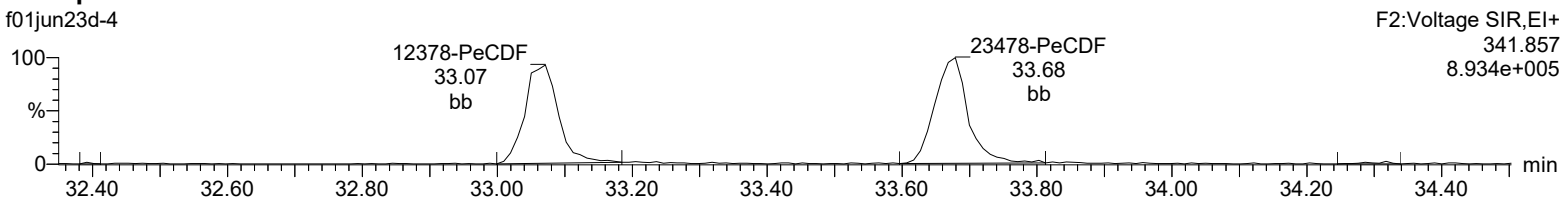
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

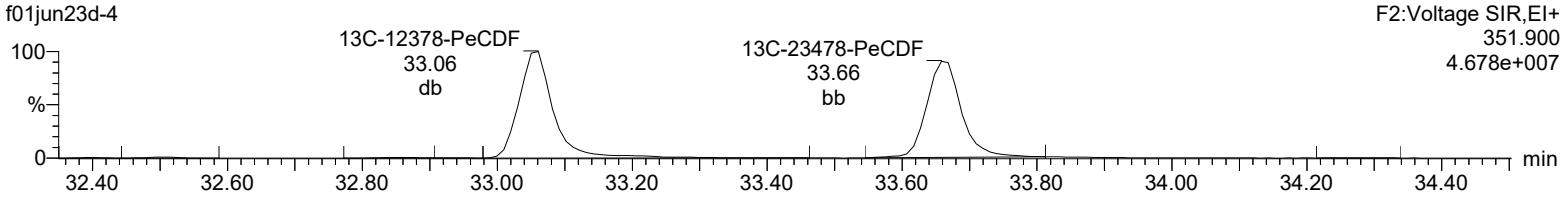
Total-pentafurans



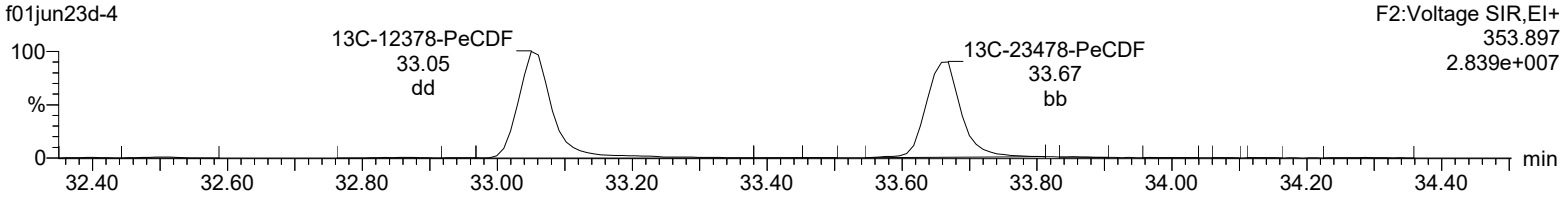
Total-pentafurans



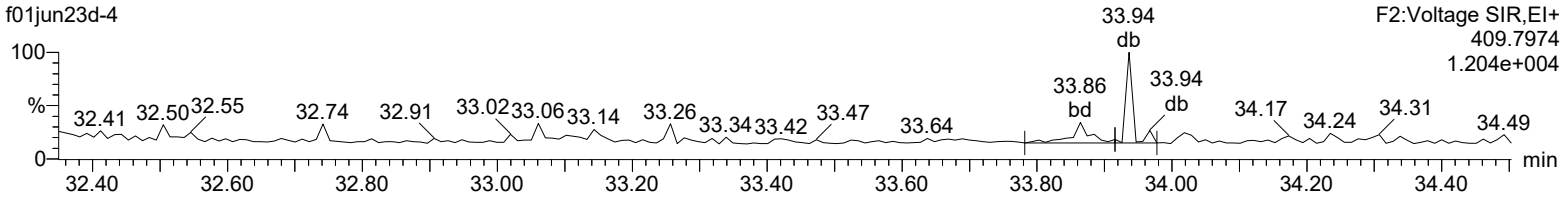
13C-12378-PeCDF



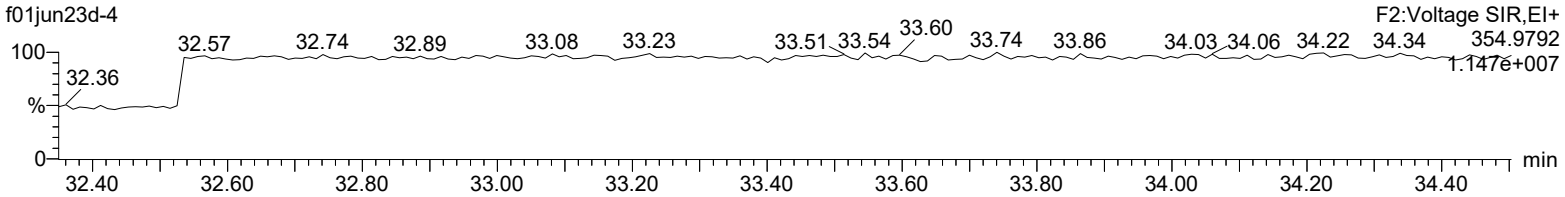
13C-12378-PeCDF



HpDPE



Lock Mass F2



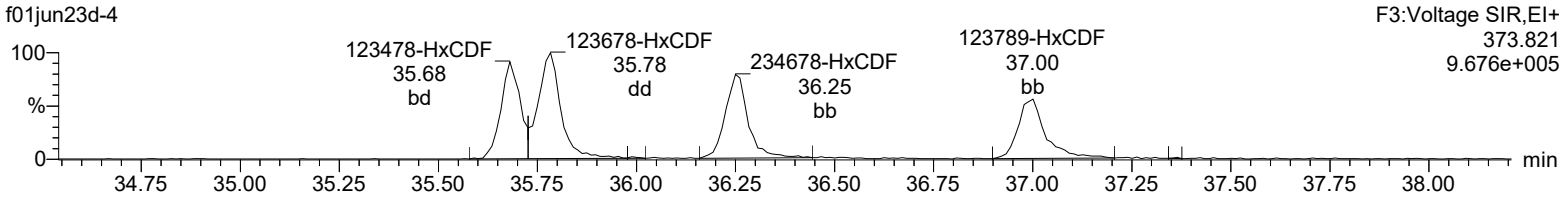
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

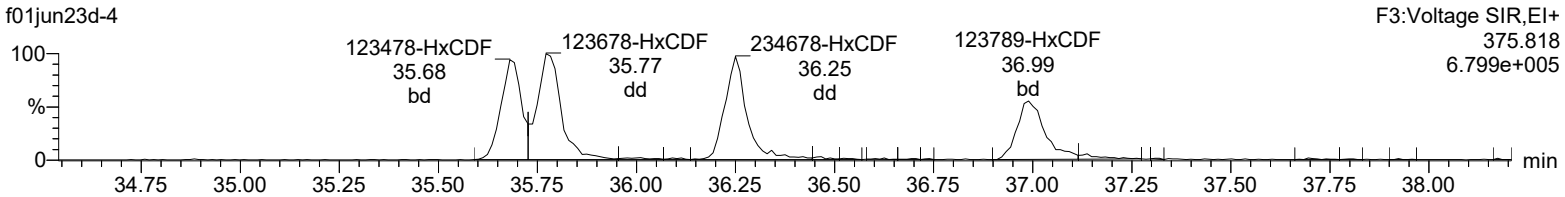
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

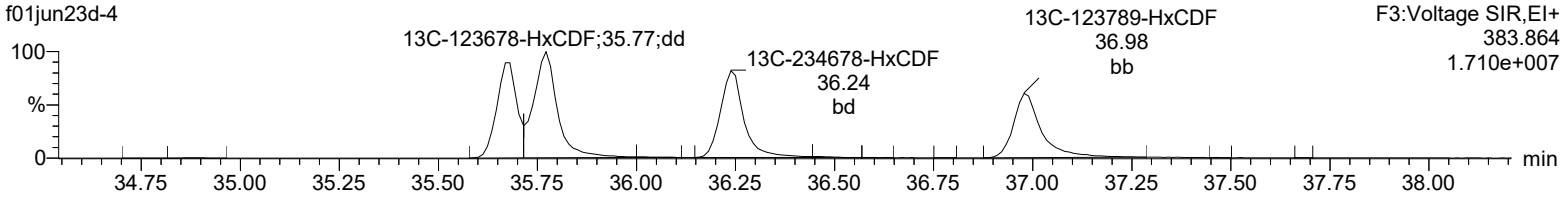
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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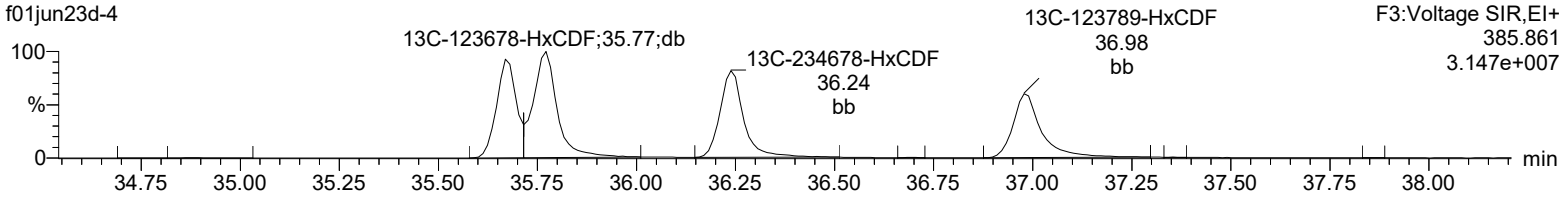
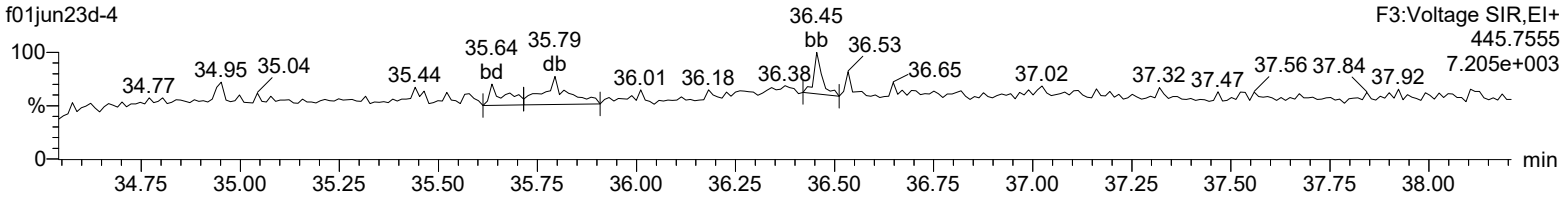
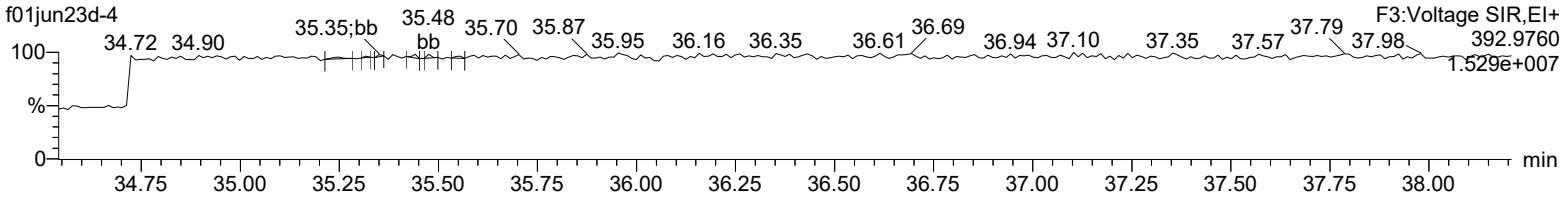


OcDPE



Lock Mass F3



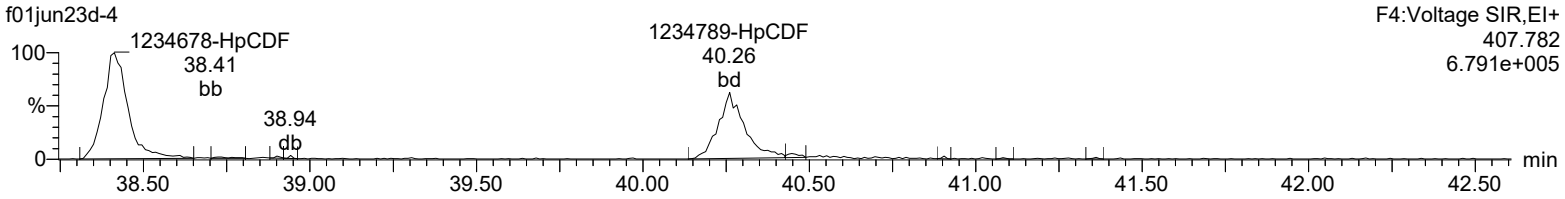
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

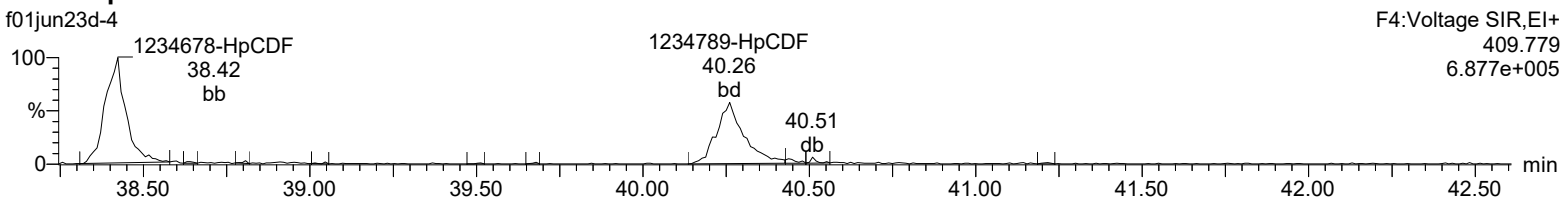
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

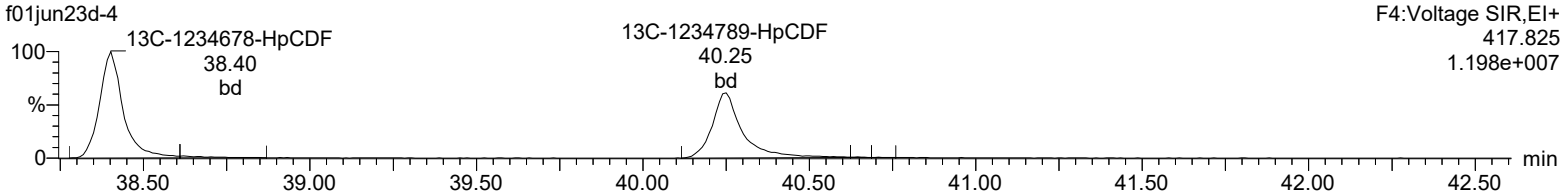
Total-heptafurans



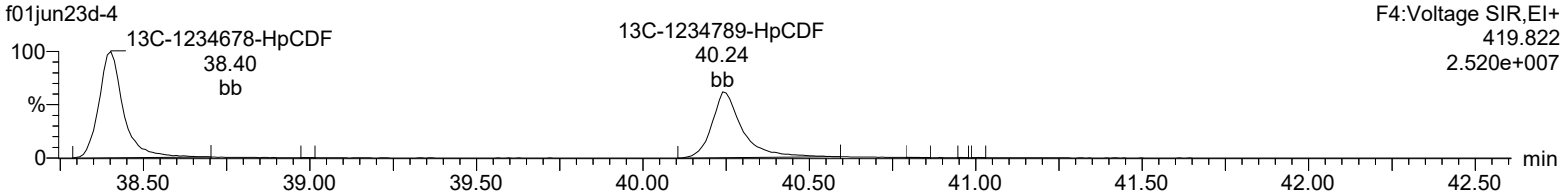
Total-heptafurans



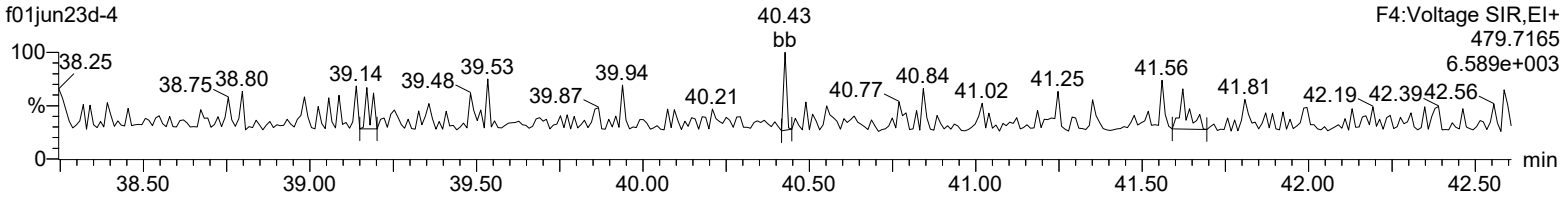
13C-1234678-HpCDF



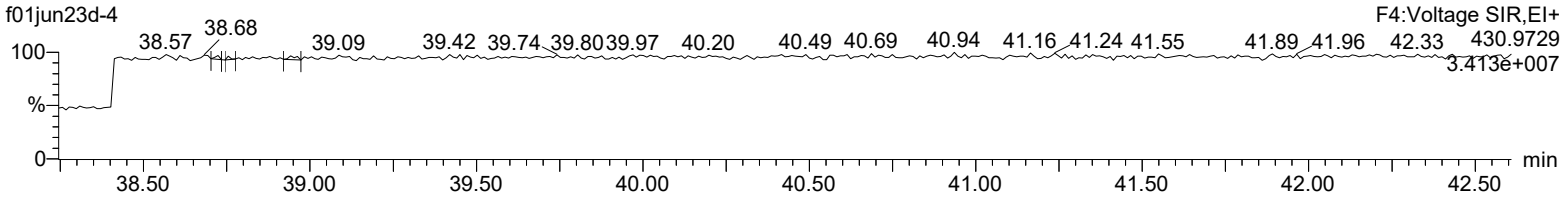
13C-1234678-HpCDF



NoDPE



Lock Mass F4



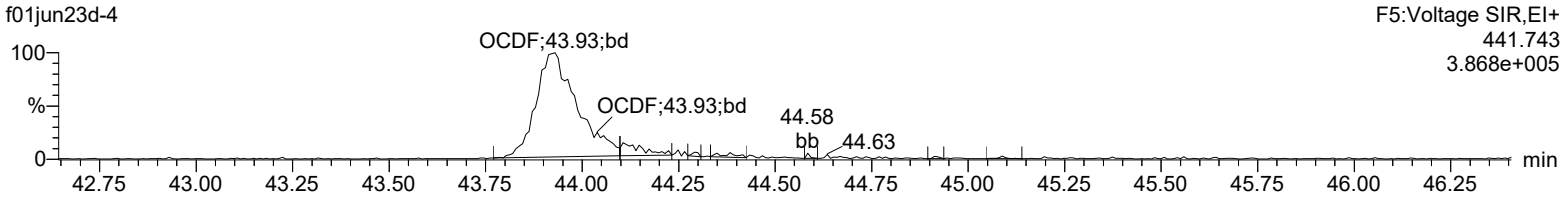
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

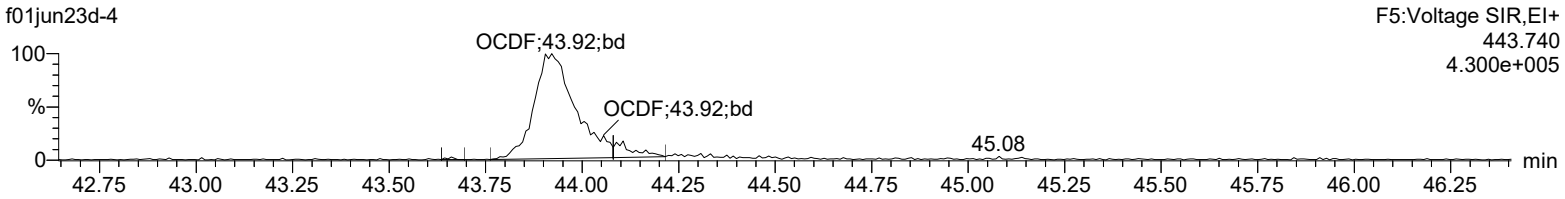
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

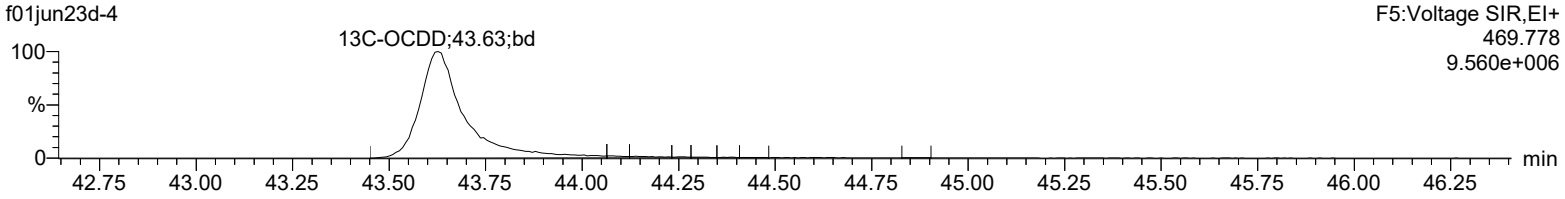
OCDF



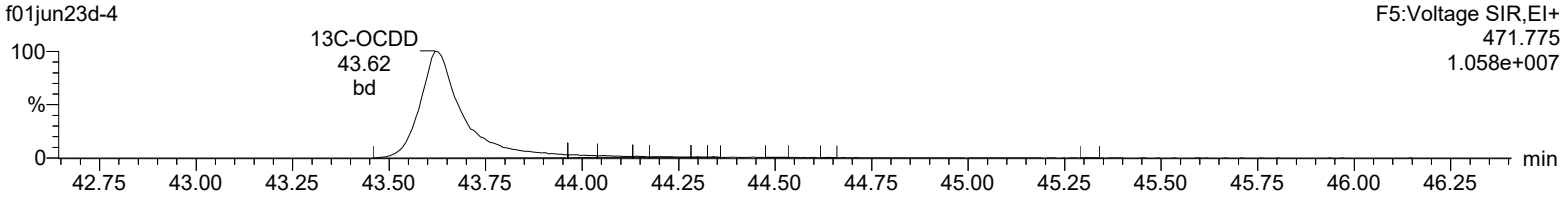
OCDF



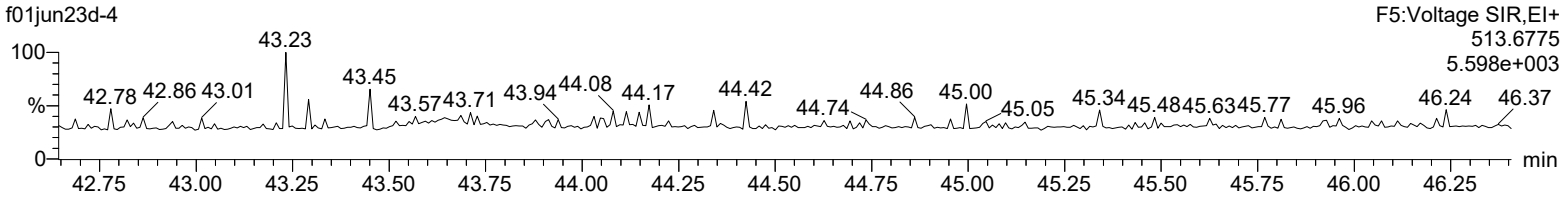
13C-OCDD



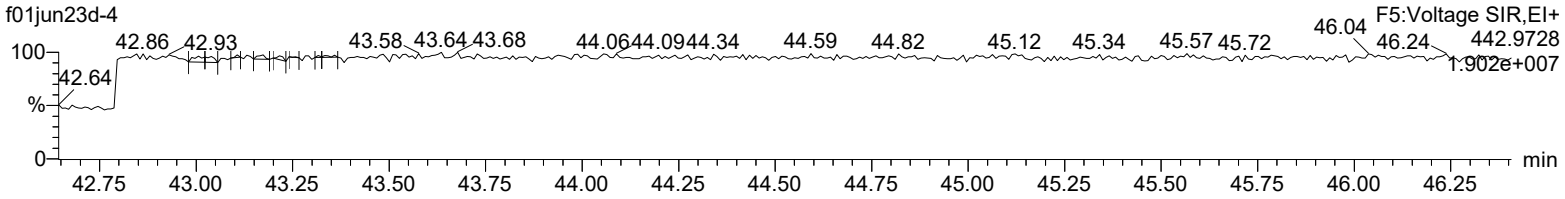
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.88e4	3.46e4	6.34e4	30.82	1.000	0.83	NO	1.906	1.048	1.100	5.89	0.0158	3.09e5	1575	196.4	3.81e5	273	1395.9	bb	bb
2	12378-PeCDD	1.54e5	9.14e4	2.46e5	33.86	1.000	1.69	NO	9.849	1.147	1.164	4.32	0.0676	2.89e6	6232	463.3	1.68e6	3397	495.1	bd	bb
3	123478-HxCDD	1.08e5	8.34e4	1.92e5	36.38	1.000	1.30	NO	9.895	1.061	1.073	4.27	0.101	1.83e6	6176	296.4	1.39e6	4443	313.9	dd	bd
4	123678-HxCDD	1.30e5	1.01e5	2.31e5	36.47	1.000	1.28	NO	9.905	1.054	1.064	5.73	0.0925	1.92e6	6176	311.1	1.55e6	4443	349.6	dd	dd
5	123789-HxCDD	1.23e5	9.15e4	2.14e5	36.69	1.007	1.34	NO	10.059	1.073	1.066	6.89	0.0966	1.68e6	6176	272.1	1.26e6	4443	283.2	dd	dd
6	1234678-HpCDD	1.16e5	1.00e5	2.16e5	39.63	1.000	1.16	NO	9.927	1.219	1.228	7.21	0.179	1.22e6	7696	159.1	1.12e6	6203	180.3	bd	bb
7	OCDD	1.44e5	1.56e5	3.00e5	43.64	1.000	0.93	NO	18.896	1.046	1.107	6.02	0.356	1.24e6	5748	215.0	1.40e6	9265	151.3	bd	bd
8	2378-TCDF	5.68e4	6.69e4	1.24e5	29.91	1.000	0.85	NO	1.995	1.349	1.352	4.83	0.0549	5.45e5	3188	171.1	6.16e5	6665	92.4	bd	bb
9	12378-PeCDF	3.55e5	2.13e5	5.67e5	33.07	1.000	1.67	NO	9.861	1.256	1.274	6.94	0.0664	6.60e6	9243	714.1	4.00e6	13388	298.8	bb	bd
10	23478-PeCDF	3.57e5	2.19e5	5.76e5	33.68	1.000	1.63	NO	9.607	1.339	1.394	4.15	0.0616	6.88e6	9243	744.6	4.07e6	13388	304.4	bd	bb
11	123478-HxCDF	2.19e5	1.70e5	3.90e5	35.69	1.000	1.29	NO	9.809	1.391	1.418	4.11	0.0944	3.77e6	10066	375.0	2.92e6	11324	257.9	bd	bd
12	123678-HxCDF	2.62e5	1.96e5	4.57e5	35.78	1.000	1.34	NO	9.599	1.323	1.378	4.15	0.0891	4.14e6	10066	411.1	3.18e6	11324	281.1	db	db
13	234678-HxCDF	2.21e5	1.67e5	3.88e5	36.25	1.000	1.33	NO	9.457	1.345	1.422	5.96	0.102	3.67e6	10066	364.3	2.73e6	11324	241.3	bb	bb
14	123789-HxCDF	1.88e5	1.42e5	3.31e5	37.00	1.000	1.32	NO	9.671	1.259	1.302	5.43	0.151	2.34e6	10066	232.8	1.86e6	11324	164.0	bb	bb
15	1234678-HpCDF	2.28e5	2.20e5	4.48e5	38.42	1.000	1.04	NO	9.626	1.332	1.384	4.56	0.143	2.99e6	14106	211.8	2.89e6	12946	223.3	bb	bd
16	1234789-HpCDF	1.82e5	1.70e5	3.52e5	40.27	1.000	1.07	NO	9.862	1.345	1.364	8.52	0.230	1.92e6	14106	135.9	1.78e6	12946	137.3	bd	bd
17	OCDF	2.25e5	2.23e5	4.49e5	43.94	1.007	1.01	NO	17.840	1.563	1.752	16.82	0.287	1.86e6	8013	232.2	1.97e6	11162	176.7	bd	bd
18	13C-2378-TCDD	1.35e6	1.67e6	3.03e6	30.81	1.023	0.81	NO	100.033	1.139	1.139	2.81	0.171	1.42e7	9073	1569.7	1.77e7	6809	2598.9	bd	bb
19	13C-12378-PeCDD	1.34e6	8.02e5	2.14e6	33.85	1.124	1.67	NO	99.127	0.806	0.813	6.11	0.316	2.29e7	11132	2061.6	1.45e7	9870	1473.8	bd	bb
20	13C-123478-HxCDD	1.02e6	7.91e5	1.81e6	36.36	0.991	1.28	NO	99.444	0.843	0.847	3.44	0.213	1.65e7	8647	1907.5	1.29e7	8462	1518.8	bd	bd
21	13C-123678-HxCDD	1.22e6	9.67e5	2.19e6	36.46	0.994	1.26	NO	99.503	1.022	1.027	0.98	0.175	1.81e7	8647	2090.5	1.45e7	8462	1716.2	dd	dd
22	13C-1234678-HpCDD	9.25e5	8.49e5	1.77e6	39.61	1.080	1.09	NO	103.341	0.827	0.800	2.20	0.388	9.91e6	17042	581.5	9.00e6	12460	722.4	bd	bd
23	13C-OCDD	1.36e6	1.51e6	2.87e6	43.63	1.189	0.90	NO	205.248	0.670	0.653	4.31	0.411	1.08e7	13952	777.1	1.18e7	11501	1030.3	bd	bd
24	13C-2378-TCDF	2.05e6	2.53e6	4.59e6	29.90	0.993	0.81	NO	99.536	1.726	1.734	1.52	0.122	1.78e7	8314	2143.3	2.22e7	9017	2458.6	bb	bb
25	13C-12378-PeCDF	2.81e6	1.71e6	4.52e6	33.06	1.098	1.65	NO	98.926	1.700	1.719	3.99	0.392	4.99e7	31531	1582.9	3.04e7	23543	1291.1	bb	db
26	13C-23478-PeCDF	2.73e6	1.58e6	4.30e6	33.67	1.118	1.73	NO	100.021	1.619	1.619	7.01	0.417	5.01e7	31531	1587.7	2.99e7	23543	1271.2	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.80e6	35.68	0.973	0.54	NO	101.189	1.307	1.291	3.13	0.327	1.69e7	16190	1041.4	3.09e7	23881	1292.2	bd	bd
28	13C-123678-HxCDF	1.24e6	2.22e6	3.46e6	35.77	0.975	0.56	NO	100.909	1.613	1.598	1.73	0.264	1.87e7	16190	1154.2	3.49e7	23881	1460.1	db	db
29	13C-234678-HxCDF	9.95e5	1.89e6	2.88e6	36.25	0.988	0.53	NO	100.545	1.345	1.338	1.29	0.315	1.53e7	16190	946.4	2.82e7	23881	1182.9	bb	bd
30	13C-123789-HxCDF	9.11e5	1.71e6	2.63e6	36.99	1.008	0.53	NO	102.971	1.225	1.190	2.59	0.355	1.13e7	16190	699.3	2.12e7	23881	888.4	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.05e6	2.31e6	3.36e6	38.41	1.047	0.46	NO	102.001	1.568	1.537	2.02	0.283	1.28e7	17646	727.7	2.81e7	23644	1188.4	bb	bd
32	13C-1234789-HpCDF	8.22e5	1.79e6	2.62e6	40.25	1.097	0.46	NO	101.868	1.221	1.198	2.23	0.363	8.13e6	17646	460.8	1.75e7	23644	739.2	bd	bb
33	13C-1234-TCDD	1.19e6	1.47e6	2.66e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.195	1.09e7	9073	1204.6	1.36e7	6809	1998.6	bb	bb
34	13C-123789-HxCDD	1.19e6	9.54e5	2.14e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.180	1.58e7	8647	1828.1	1.25e7	8462	1473.3	dd	dd
35	37Cl-2378-TCDD	5.64e4		5.64e4	30.83	1.024			1.888	1.061	1.124	6.42	0.0231	5.85e5	2121	276.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

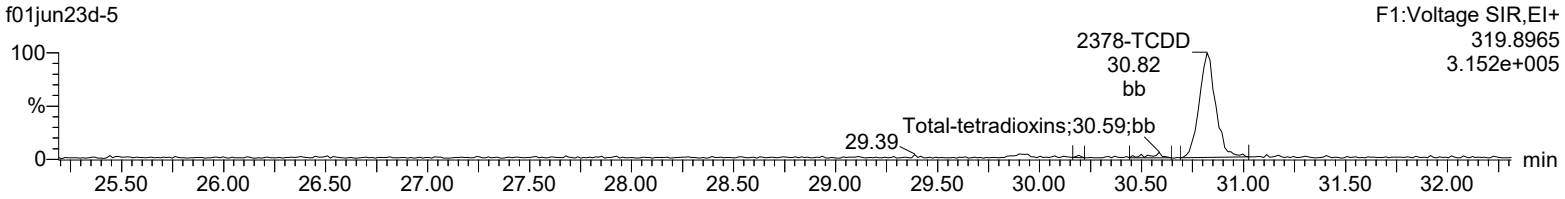
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

06/06/2023

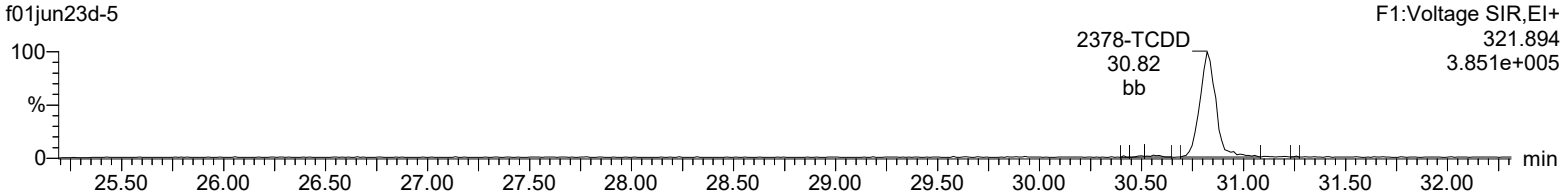
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

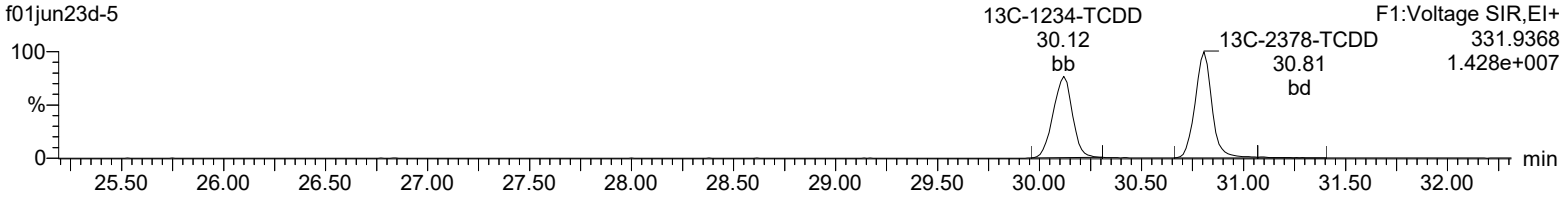
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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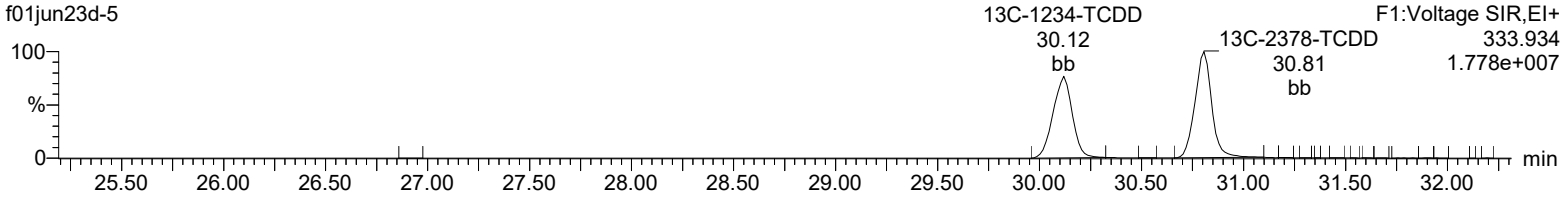

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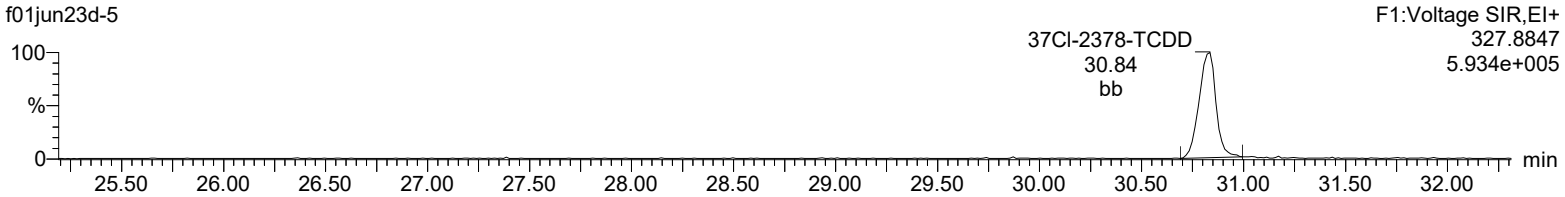
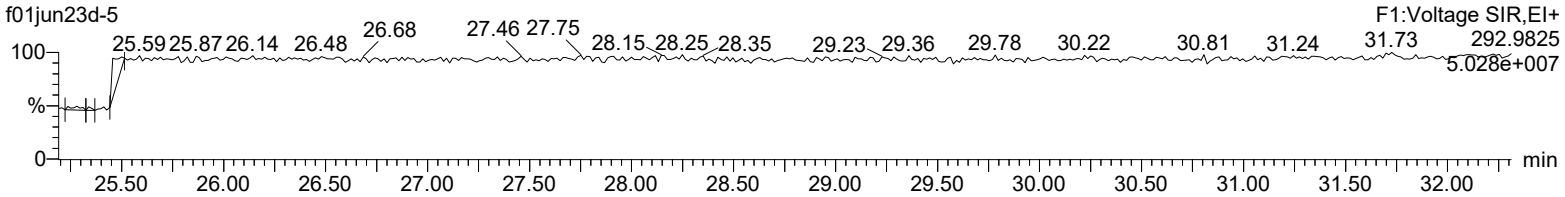


Lock Mass F1



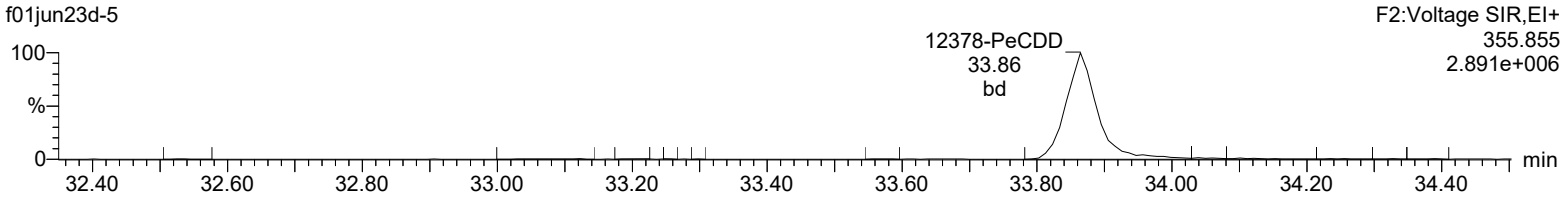
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

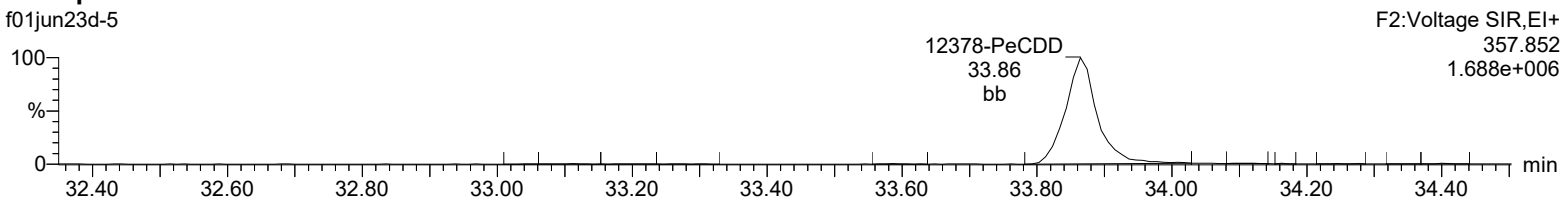
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

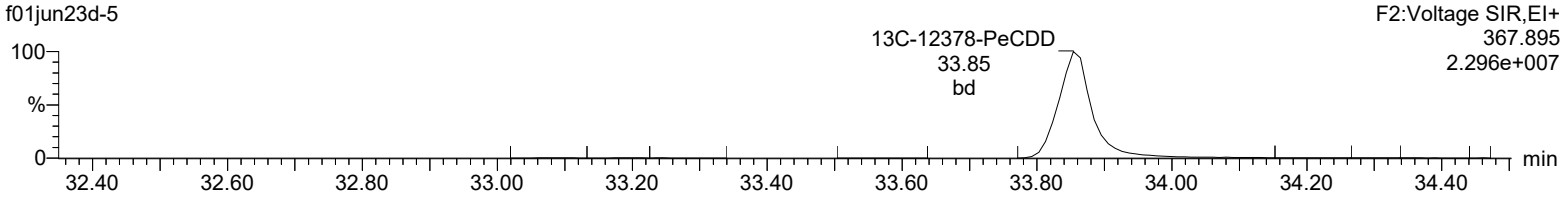
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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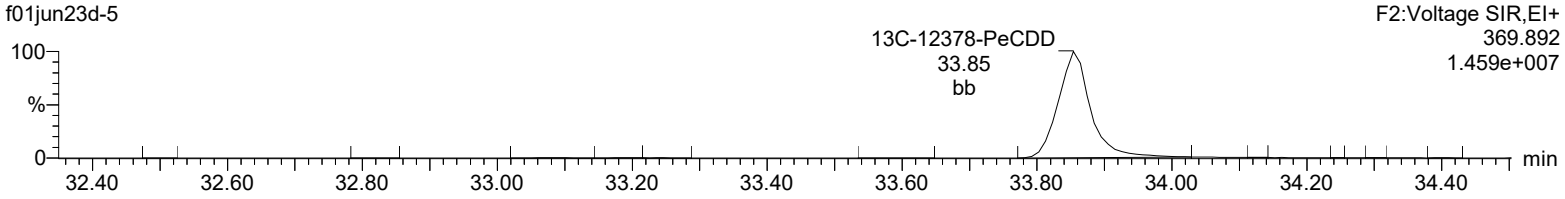
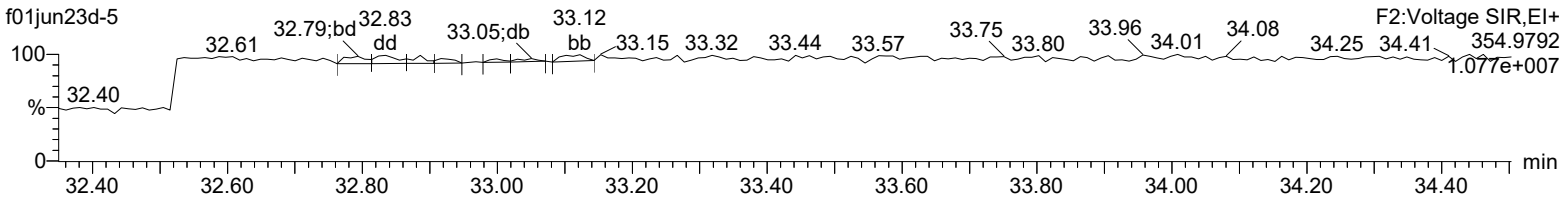


Lock Mass F2



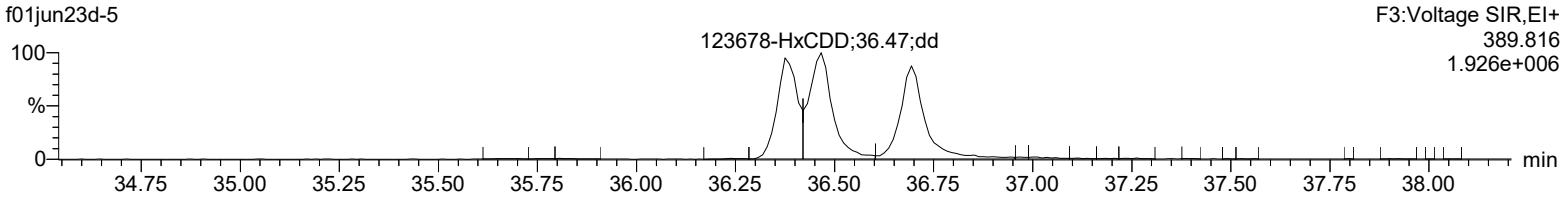
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

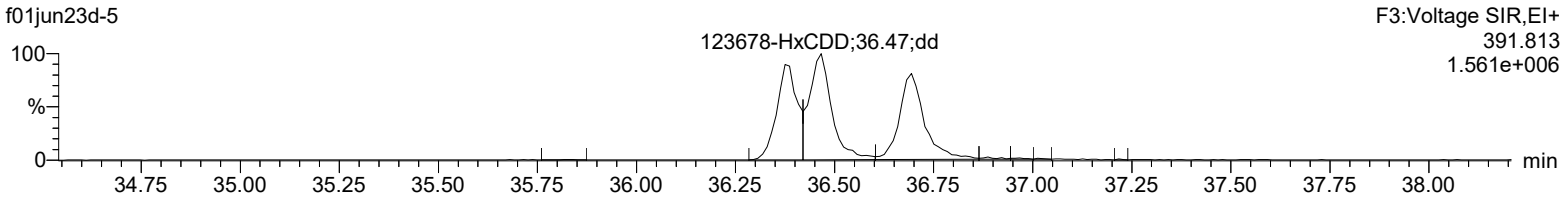
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

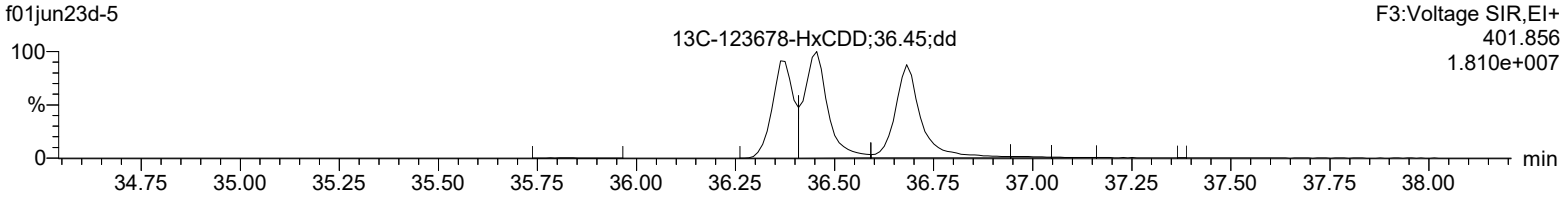
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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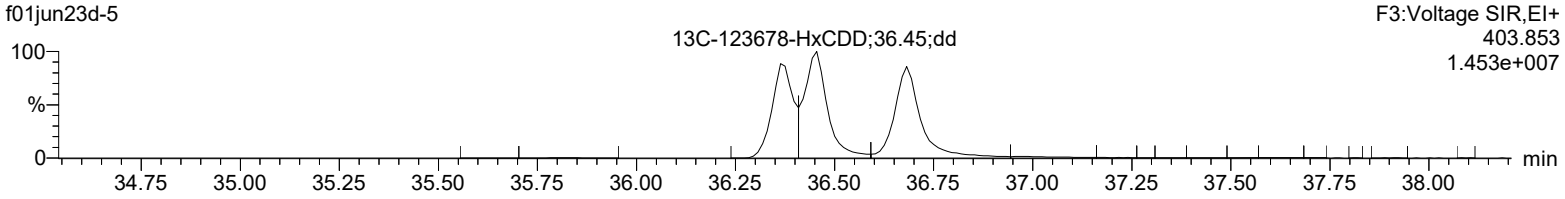
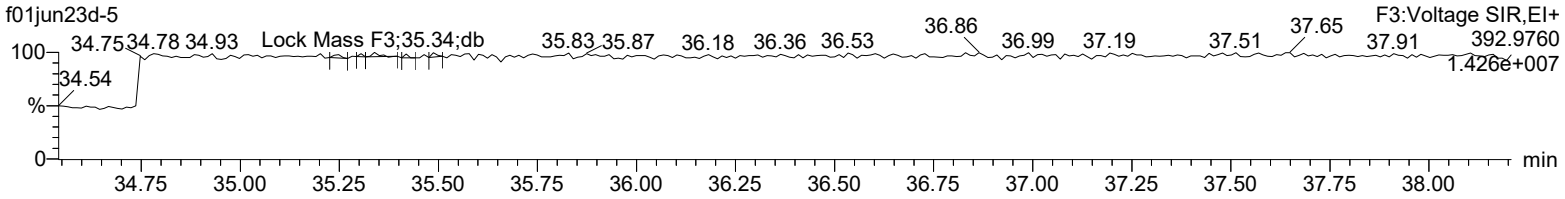


Lock Mass F3



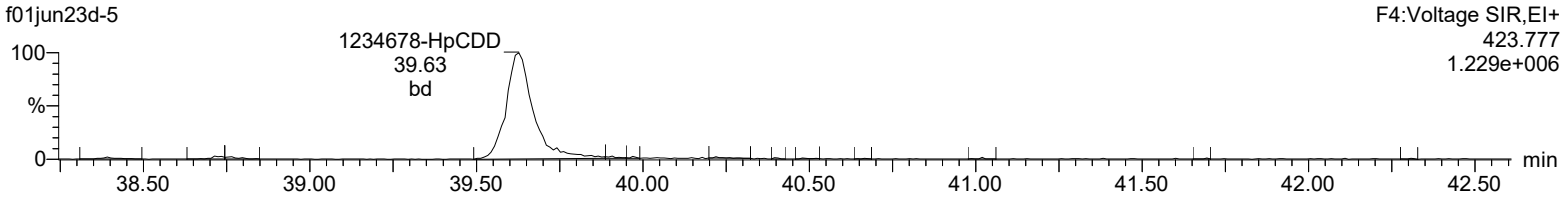
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

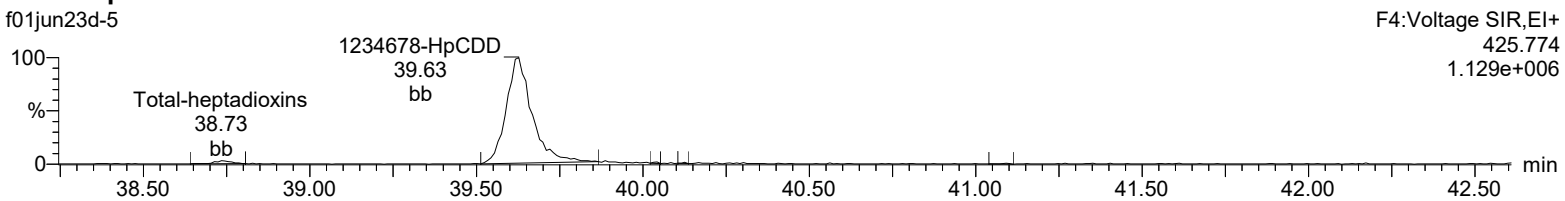
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

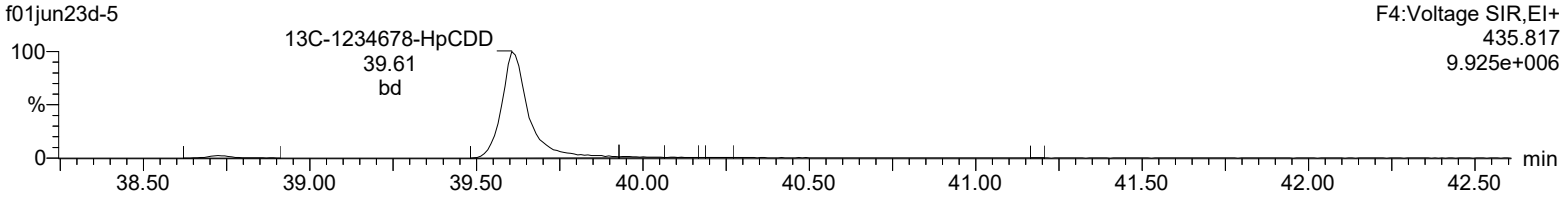
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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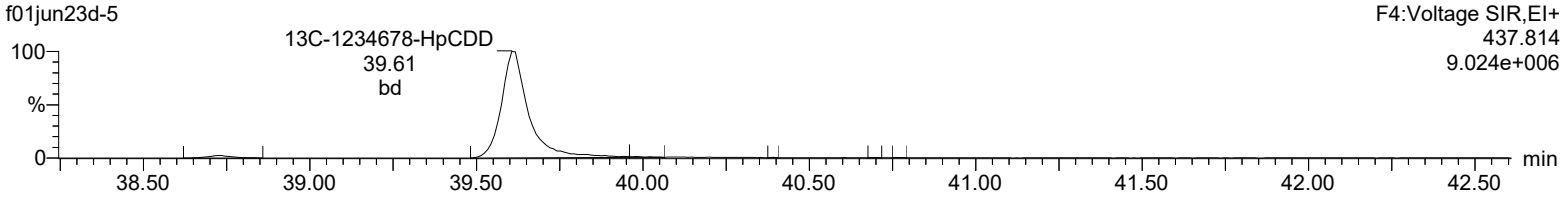
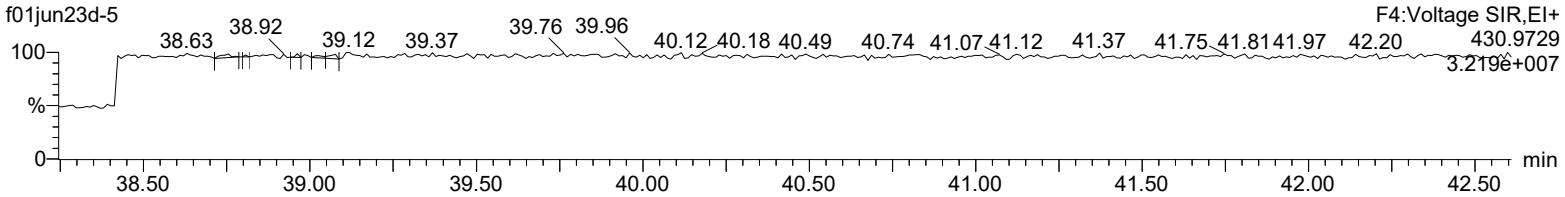


Lock Mass F4



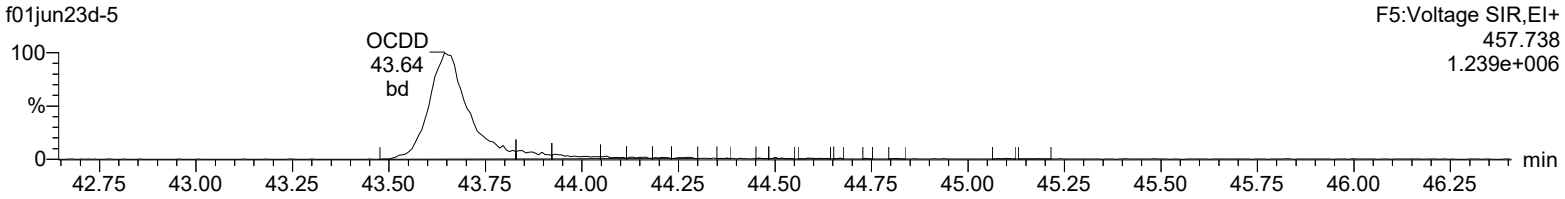
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

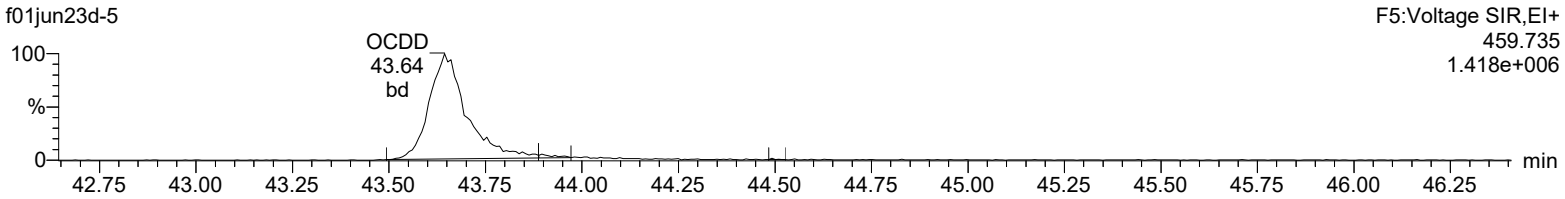
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

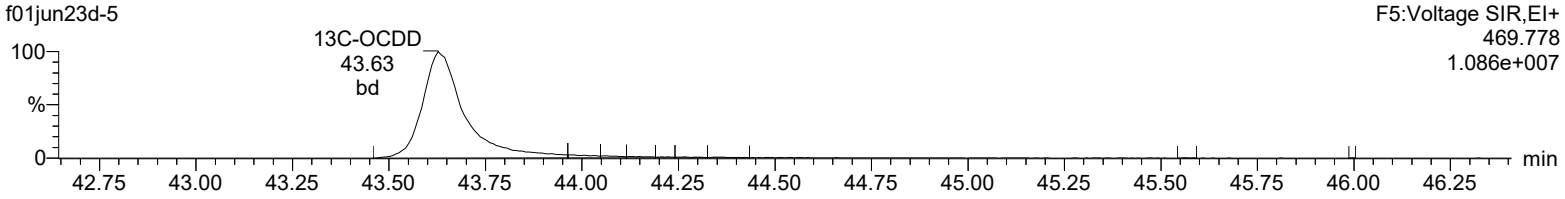
OCDD



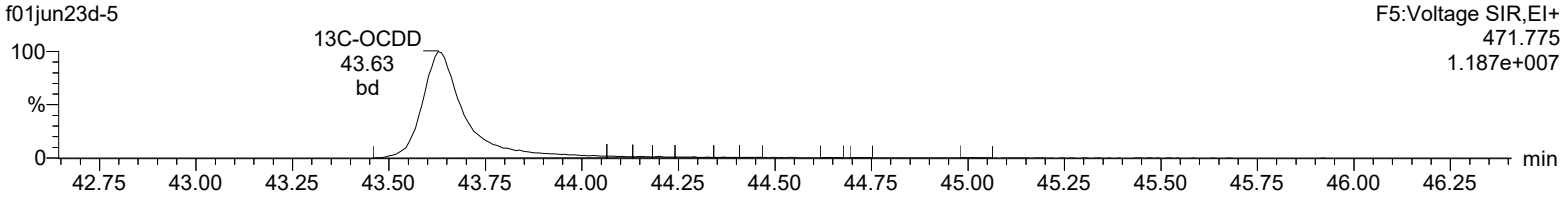
OCDD



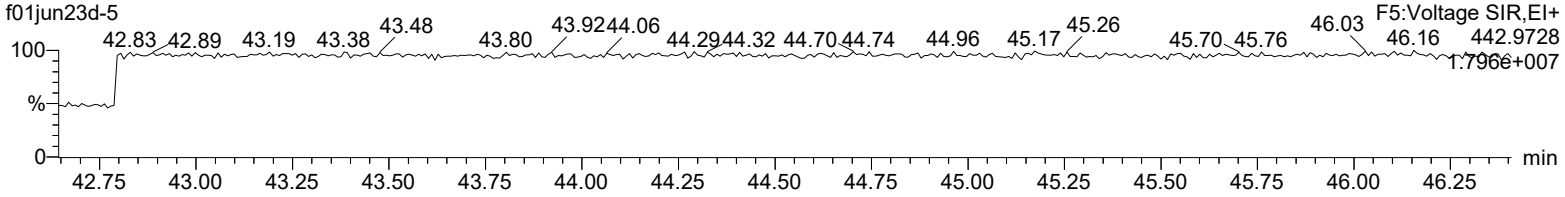
13C-OCDD



13C-OCDD



Lock Mass F5



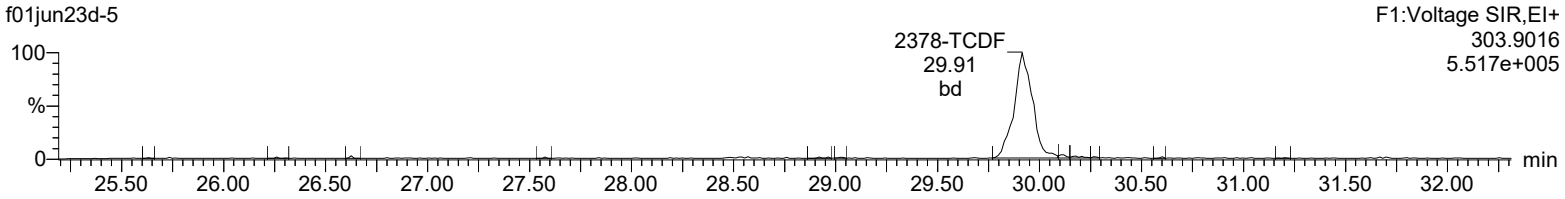
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

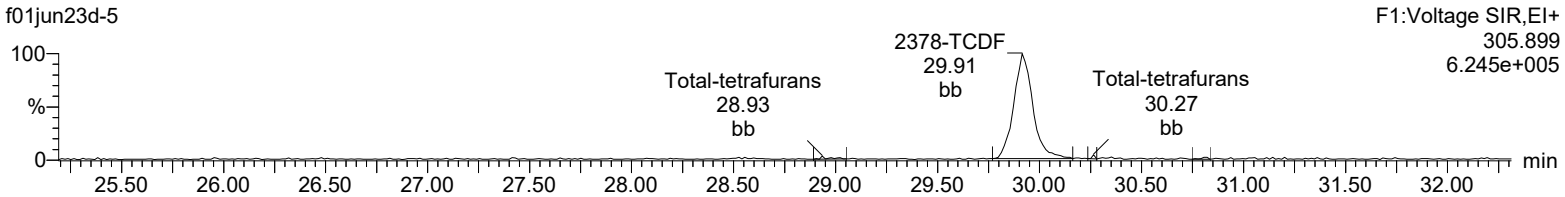
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

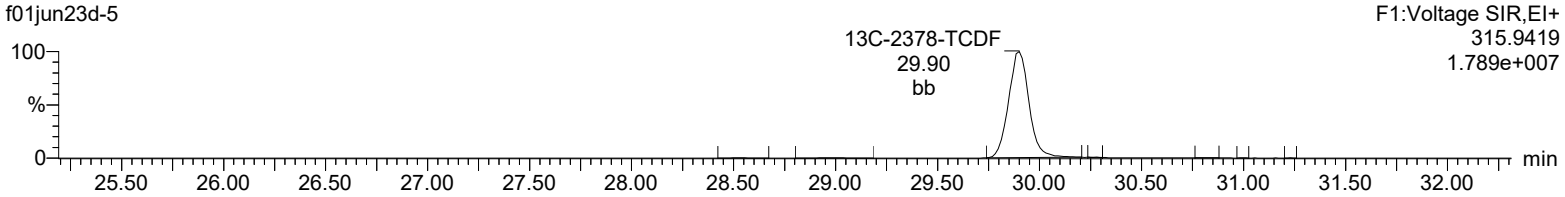
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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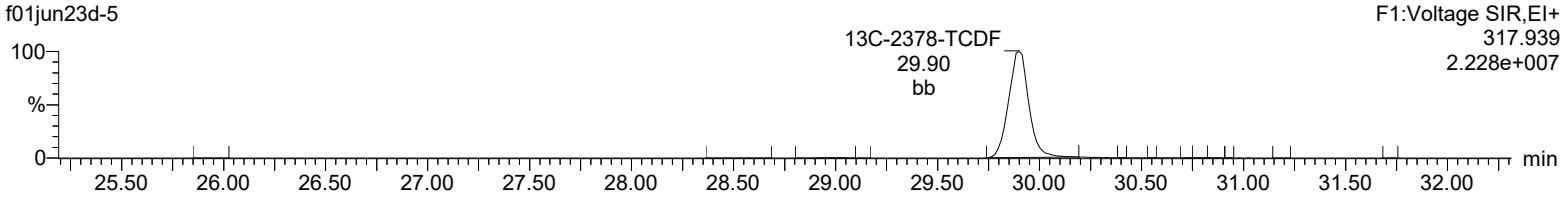
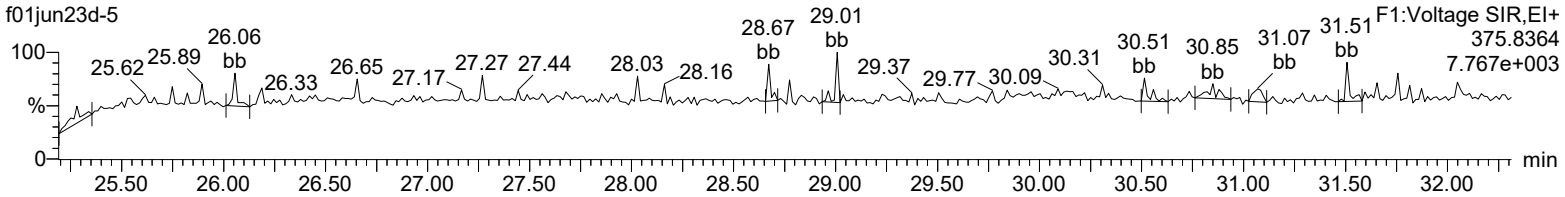
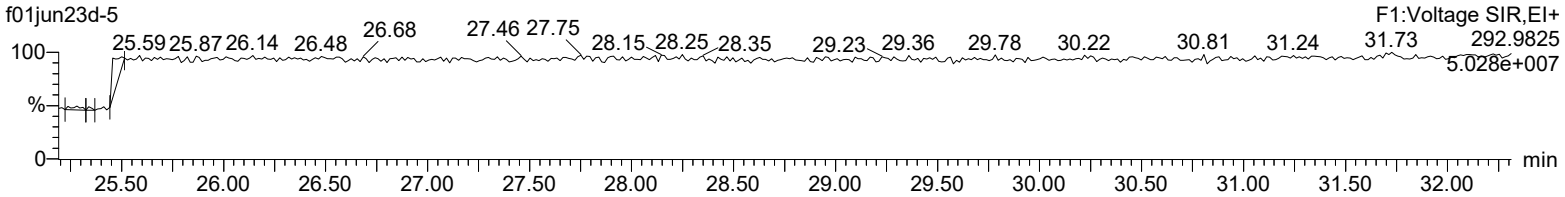


HxDPE



Lock Mass F1



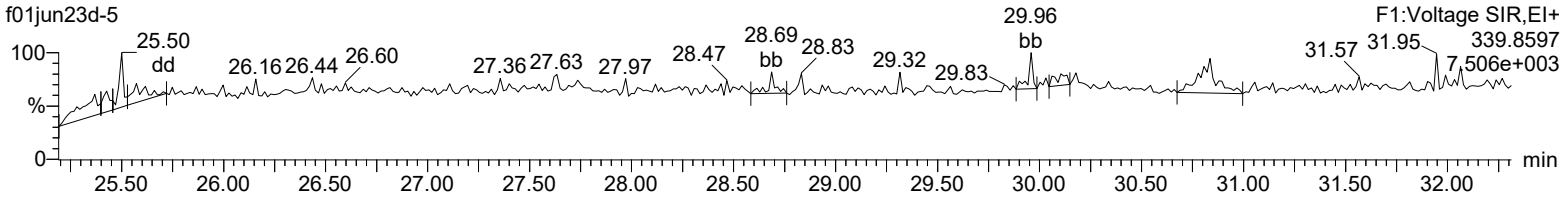
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

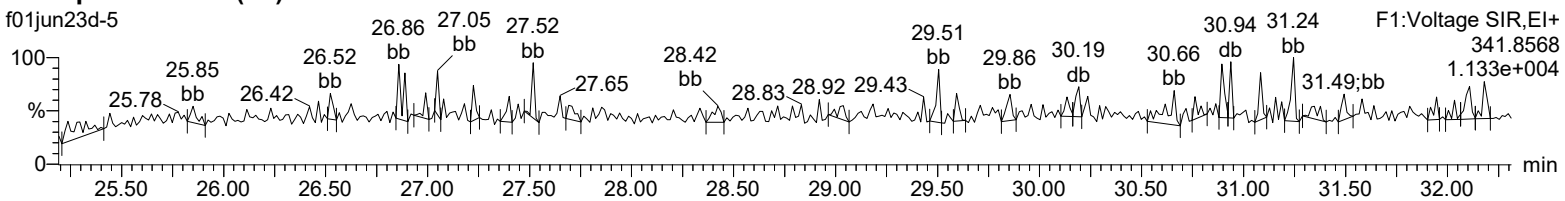
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

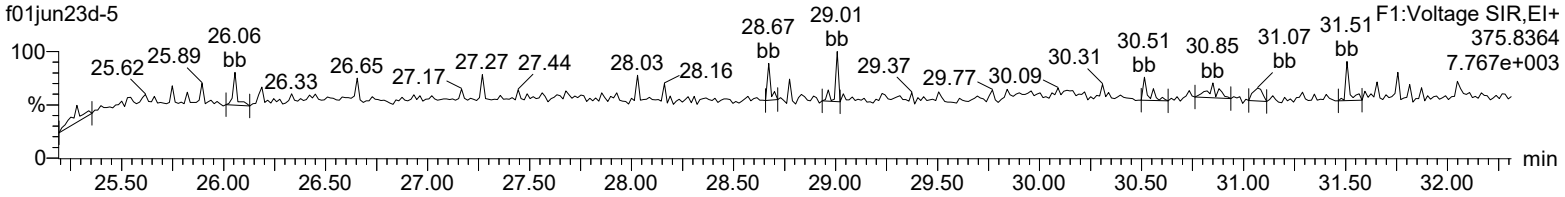
Total-pentafurans (F1)



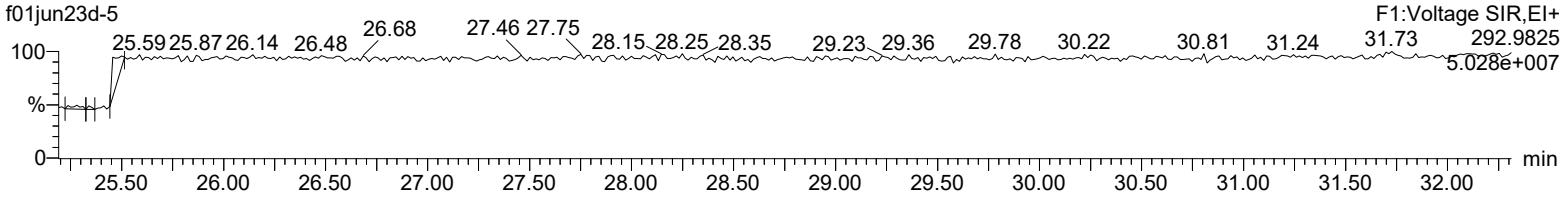
Total-pentafurans (F1)



HxDPE



Lock Mass F1



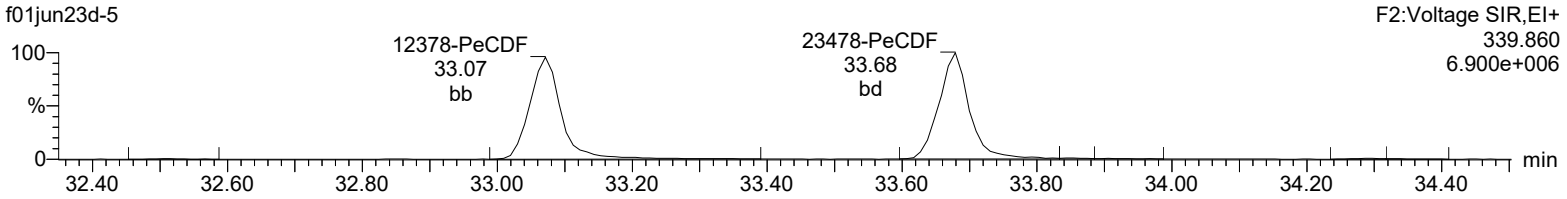
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

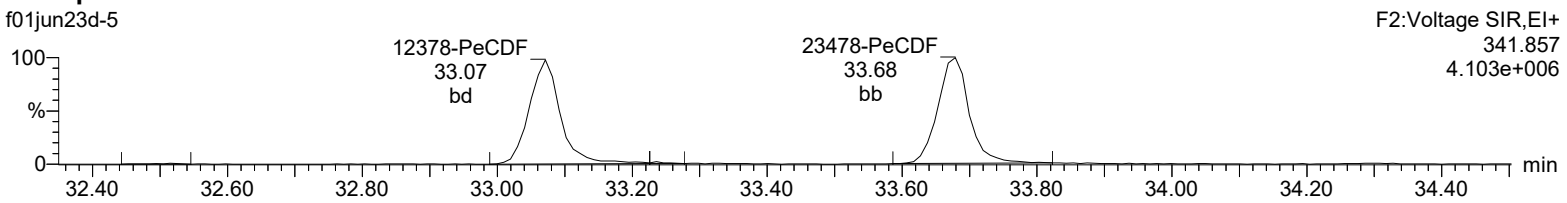
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

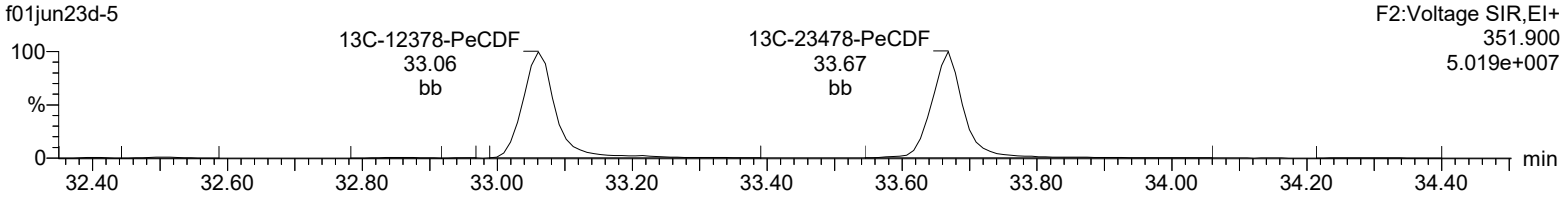
Total-pentafurans



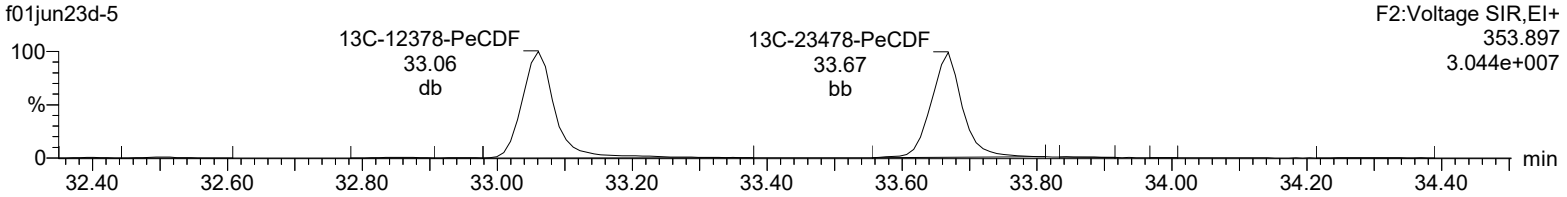
Total-pentafurans



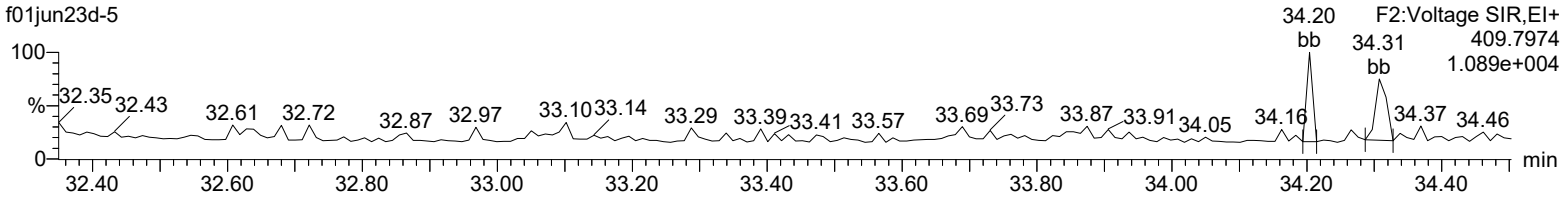
13C-12378-PeCDF



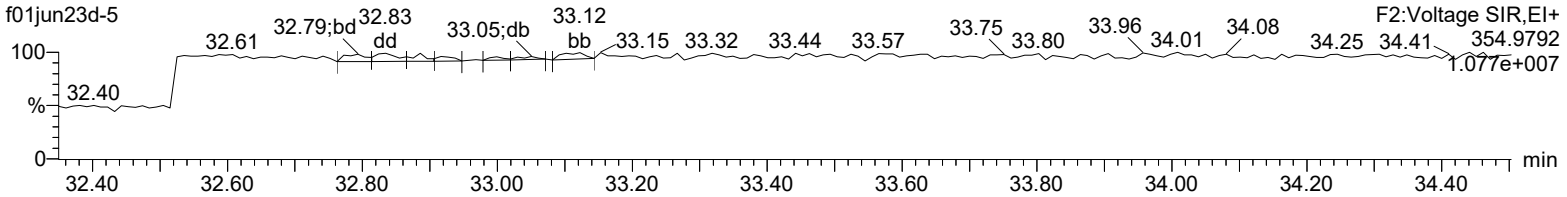
13C-12378-PeCDF



HpDPE



Lock Mass F2



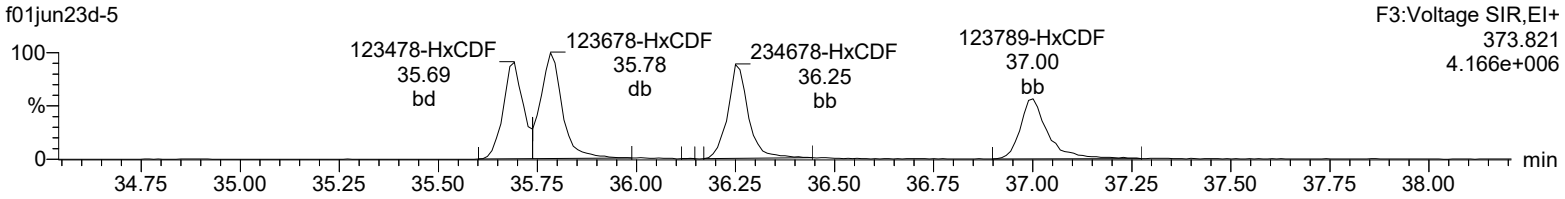
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

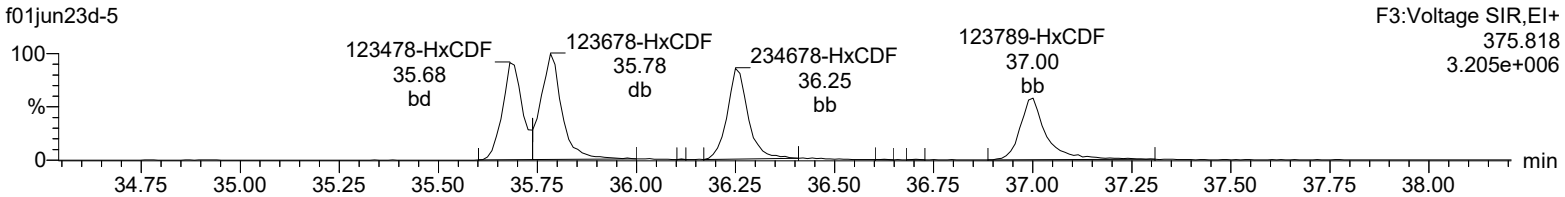
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

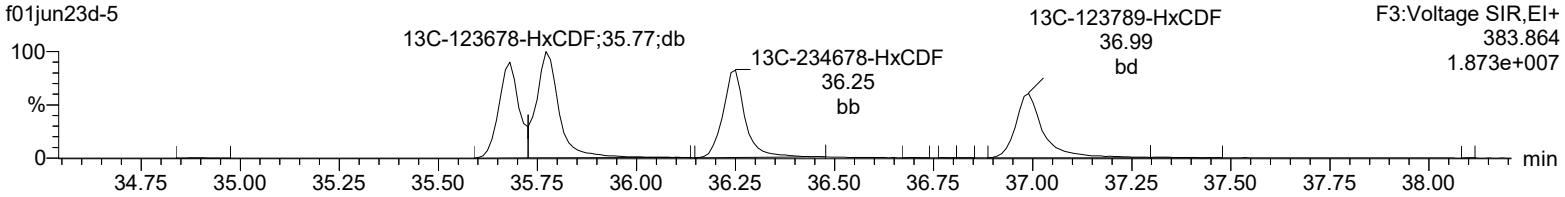
Total-hexafurans



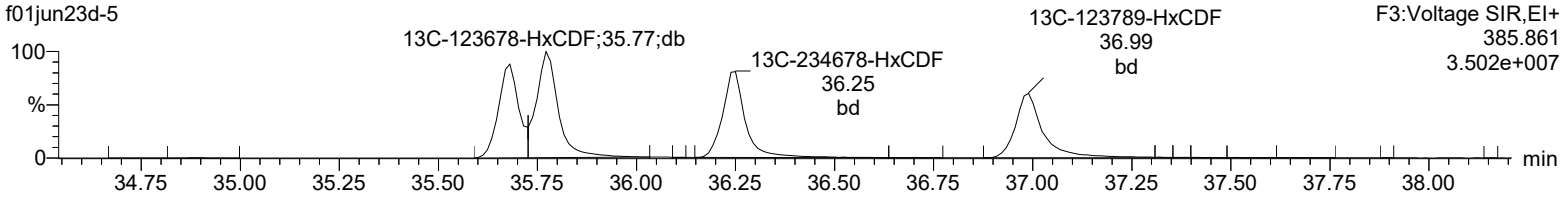
Total-hexafurans



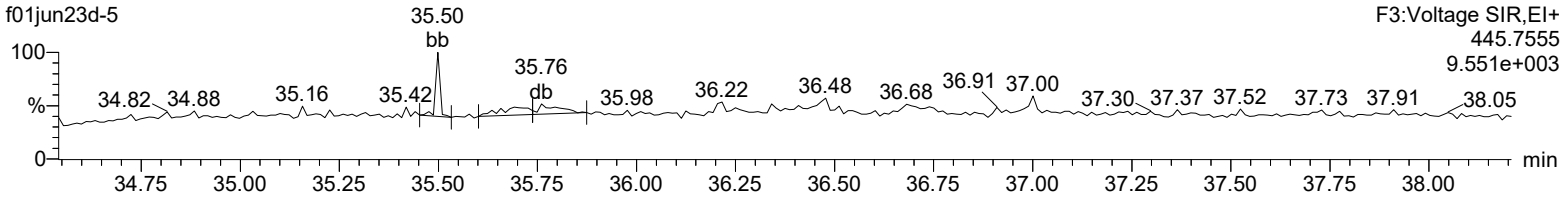
13C-123478-HxCDF



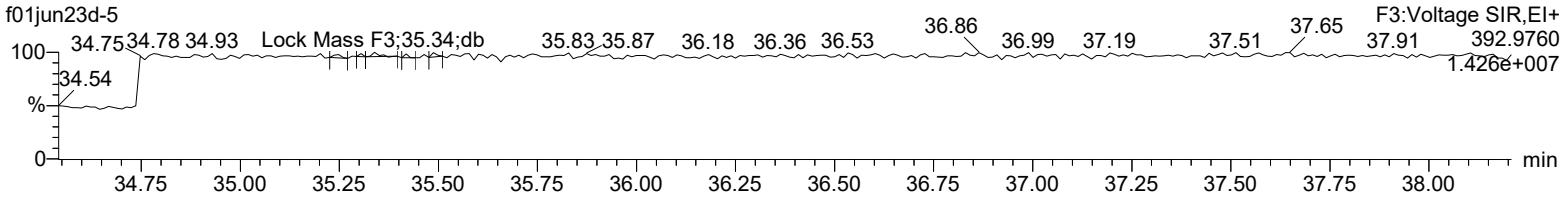
13C-123478-HxCDF



OcDPE



Lock Mass F3



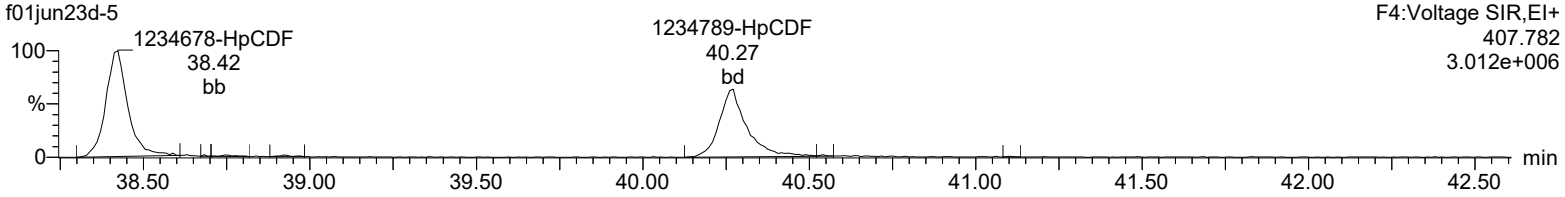
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

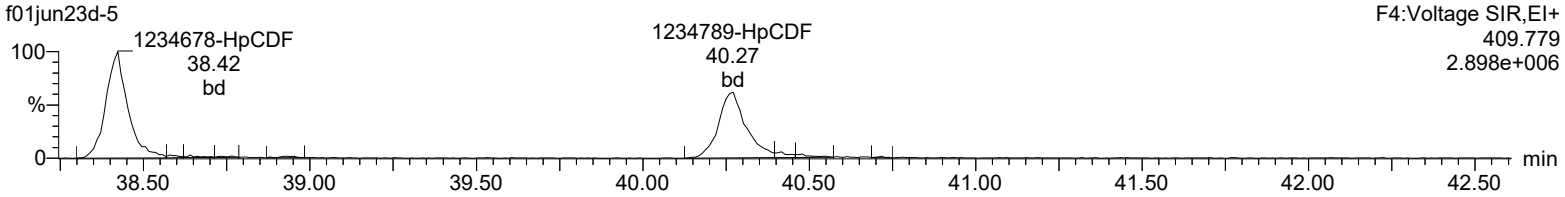
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

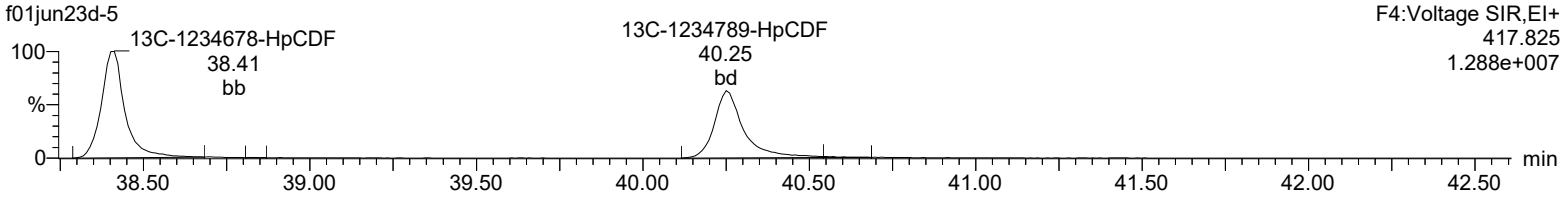
Total-heptafurans



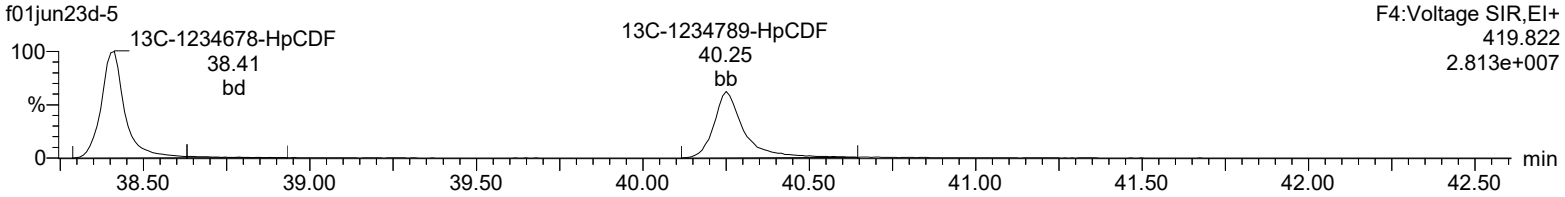
Total-heptafurans



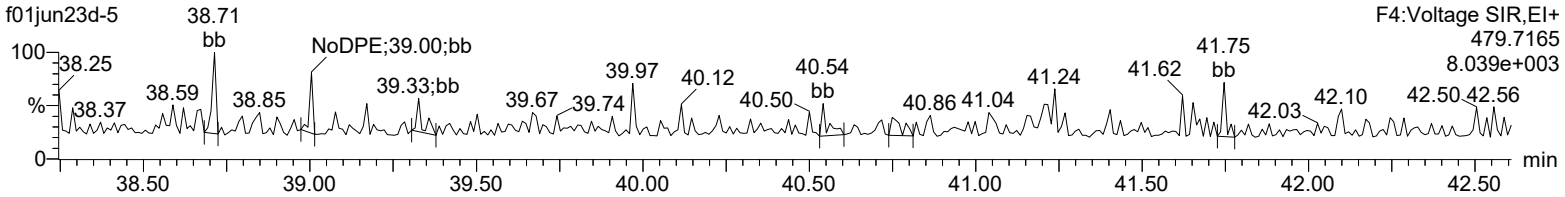
13C-1234678-HpCDF



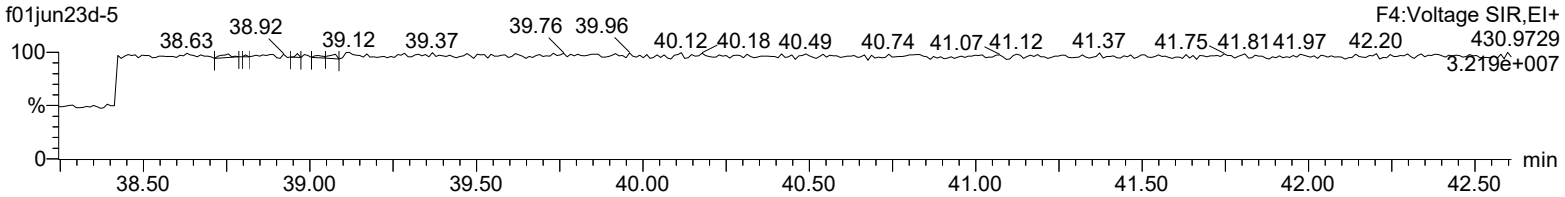
13C-1234678-HpCDF



NoDPE



Lock Mass F4



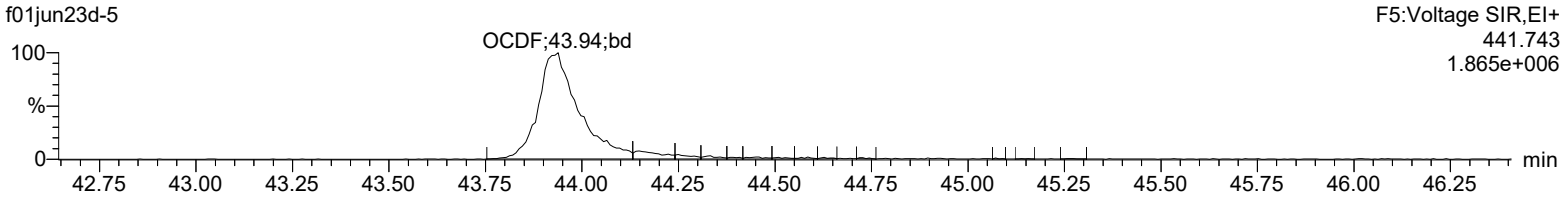
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

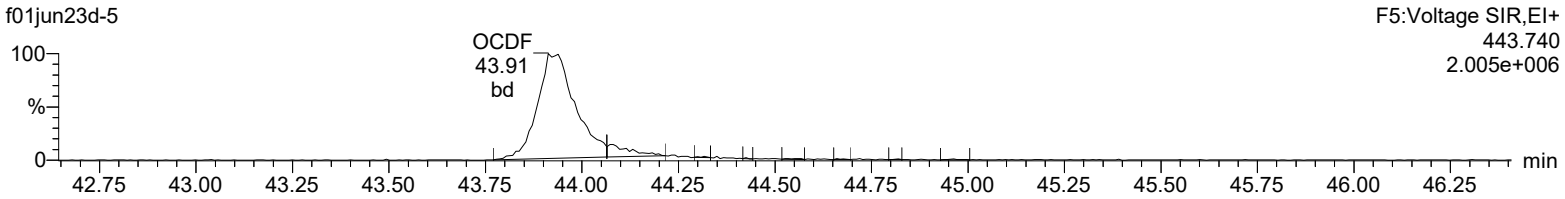
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

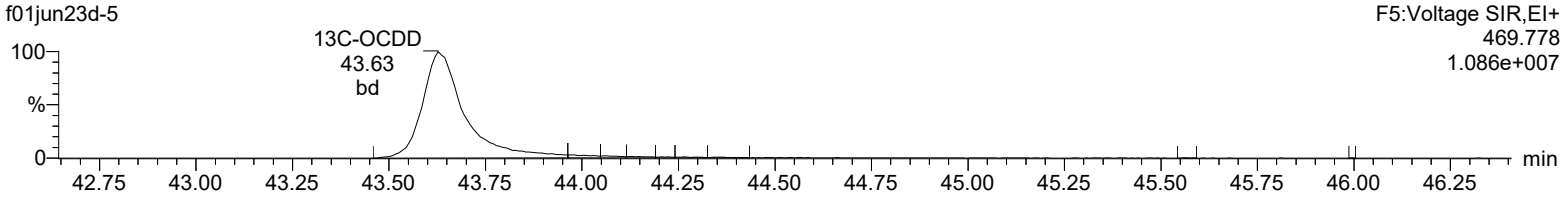
OCDF



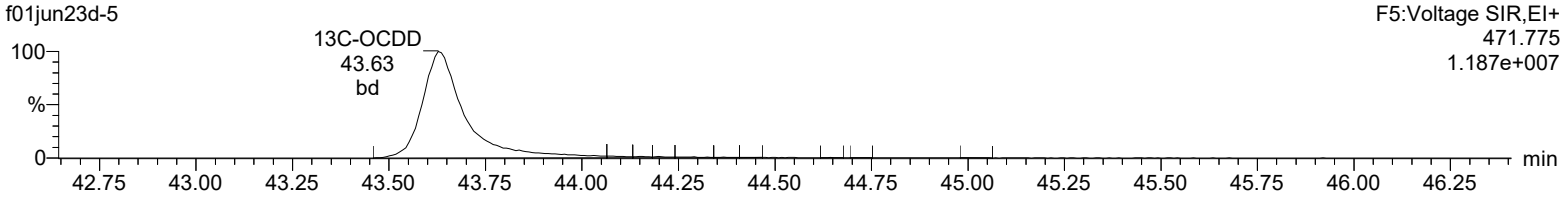
OCDF



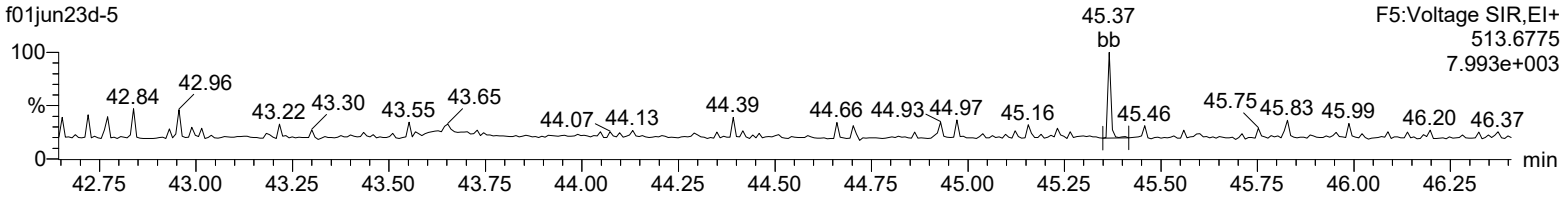
13C-OCDD



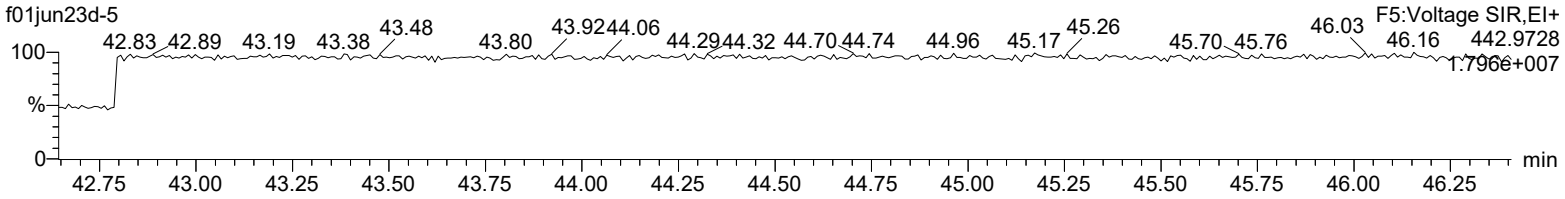
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.25e5	1.57e5	2.82e5	30.82	1.000	0.79	NO	10.061	1.106	1.100	5.89	0.0753	1.31e6	4107	317.8	1.64e6	3339	492.5	bd	dd
2	12378-PeCDD	6.60e5	4.05e5	1.06e6	33.86	1.000	1.63	NO	52.078	1.213	1.164	4.32	0.139	1.12e7	12670	886.6	7.03e6	4064	1729.7	bb	bd
3	123478-HxCDD	4.55e5	3.57e5	8.11e5	36.39	1.000	1.27	NO	50.870	1.091	1.073	4.27	0.240	7.68e6	9520	806.8	5.93e6	11453	517.5	bd	bd
4	123678-HxCDD	5.66e5	4.37e5	1.00e6	36.47	1.000	1.29	NO	51.990	1.107	1.064	5.73	0.222	8.25e6	9520	866.8	6.63e6	11453	578.9	dd	dd
5	123789-HxCDD	5.23e5	4.02e5	9.26e5	36.69	1.007	1.30	NO	52.629	1.122	1.066	6.89	0.231	6.95e6	9520	730.1	5.39e6	11453	470.3	dd	dd
6	1234678-HpCDD	4.81e5	4.31e5	9.12e5	39.63	1.000	1.12	NO	52.995	1.302	1.228	7.21	0.376	5.41e6	11926	453.7	4.70e6	10953	429.4	bd	bd
7	OCDD	6.39e5	6.78e5	1.32e6	43.65	1.001	0.94	NO	104.237	1.154	1.107	6.02	0.680	5.19e6	11063	469.5	5.50e6	11567	475.8	bd	bd
8	2378-TCDF	2.47e5	2.96e5	5.43e5	29.93	1.001	0.83	NO	10.240	1.385	1.352	4.83	0.0812	2.19e6	5916	370.6	2.60e6	6861	379.5	bd	bb
9	12378-PeCDF	1.54e6	9.15e5	2.45e6	33.07	1.000	1.68	NO	50.304	1.282	1.274	6.94	0.160	2.76e7	28214	977.7	1.68e7	18864	891.9	bb	bb
10	23478-PeCDF	1.55e6	9.76e5	2.52e6	33.68	1.000	1.59	NO	51.604	1.439	1.394	4.15	0.156	2.87e7	28214	1018.1	1.78e7	18864	946.1	bb	bb
11	123478-HxCDF	9.41e5	7.34e5	1.67e6	35.69	1.000	1.28	NO	51.274	1.454	1.418	4.11	0.205	1.66e7	19775	837.7	1.28e7	19524	653.9	bd	bd
12	123678-HxCDF	1.13e6	8.87e5	2.01e6	35.78	1.000	1.27	NO	51.905	1.430	1.378	4.15	0.202	1.72e7	19775	871.2	1.31e7	19524	671.8	db	dd
13	234678-HxCDF	9.66e5	7.77e5	1.74e6	36.26	1.000	1.24	NO	51.232	1.457	1.422	5.96	0.228	1.47e7	19775	745.9	1.16e7	19524	592.9	bb	dd
14	123789-HxCDF	8.03e5	6.13e5	1.42e6	37.00	1.000	1.31	NO	50.954	1.327	1.302	5.43	0.343	1.01e7	19775	509.0	7.73e6	19524	395.9	bd	bd
15	1234678-HpCDF	1.03e6	9.37e5	1.97e6	38.41	1.000	1.10	NO	51.441	1.424	1.384	4.56	0.290	1.27e7	22122	573.2	1.17e7	23280	503.6	bd	bb
16	1234789-HpCDF	8.06e5	7.28e5	1.53e6	40.26	1.000	1.11	NO	52.317	1.427	1.364	8.52	0.474	7.91e6	22122	357.5	7.16e6	23280	307.7	bb	bb
17	OCDF	1.03e6	1.13e6	2.16e6	43.93	1.007	0.91	NO	107.799	1.889	1.752	16.82	0.797	8.29e6	20300	408.4	8.93e6	21646	412.5	bd	bd
18	13C-2378-TCDD	1.13e6	1.42e6	2.55e6	30.81	1.023	0.79	NO	99.603	1.134	1.139	2.81	0.191	1.19e7	9284	1284.4	1.49e7	5268	2834.8	bd	bd
19	13C-12378-PeCDD	1.08e6	6.72e5	1.76e6	33.85	1.124	1.61	NO	96.071	0.781	0.813	6.11	0.224	1.91e7	5373	3561.7	1.19e7	6817	1743.4	bb	bb
20	13C-123478-HxCDD	8.35e5	6.52e5	1.49e6	36.38	0.992	1.28	NO	98.754	0.837	0.847	3.44	0.418	1.37e7	14778	928.0	1.06e7	12575	841.8	bd	bd
21	13C-123678-HxCDD	1.02e6	7.97e5	1.81e6	36.46	0.994	1.27	NO	99.296	1.020	1.027	0.98	0.344	1.49e7	14778	1009.6	1.19e7	12575	946.9	dd	dd
22	13C-1234678-HpCDD	7.28e5	6.74e5	1.40e6	39.61	1.080	1.08	NO	98.587	0.789	0.800	2.20	0.412	7.72e6	12301	627.9	7.41e6	13219	560.5	bd	bd
23	13C-OCDD	1.11e6	1.17e6	2.28e6	43.63	1.189	0.95	NO	196.889	0.642	0.653	4.31	0.507	8.77e6	15310	572.9	9.48e6	10268	923.7	bd	bd
24	13C-2378-TCDF	1.76e6	2.16e6	3.92e6	29.90	0.993	0.81	NO	100.638	1.745	1.734	1.52	0.156	1.56e7	10087	1550.7	1.88e7	8071	2333.8	bd	bd
25	13C-12378-PeCDF	2.38e6	1.44e6	3.82e6	33.06	1.098	1.65	NO	98.984	1.701	1.719	3.99	0.493	4.30e7	29482	1458.2	2.64e7	27336	965.6	bd	bb
26	13C-23478-PeCDF	2.19e6	1.32e6	3.51e6	33.67	1.118	1.66	NO	96.395	1.561	1.619	7.01	0.523	4.06e7	29482	1378.2	2.50e7	27336	914.2	bb	bb
27	13C-123478-HxCDF	8.00e5	1.50e6	2.30e6	35.68	0.973	0.53	NO	100.391	1.296	1.291	3.13	0.432	1.41e7	22167	634.9	2.61e7	21002	1244.7	bd	bd
28	13C-123678-HxCDF	9.88e5	1.83e6	2.82e6	35.77	0.975	0.54	NO	99.196	1.585	1.598	1.73	0.349	1.48e7	22167	669.6	2.82e7	21002	1343.9	db	db
29	13C-234678-HxCDF	8.25e5	1.57e6	2.39e6	36.25	0.988	0.53	NO	100.706	1.347	1.338	1.29	0.417	1.26e7	22167	566.7	2.33e7	21002	1108.5	bb	bd
30	13C-123789-HxCDF	7.42e5	1.39e6	2.13e6	36.99	1.008	0.53	NO	100.954	1.201	1.190	2.59	0.469	9.17e6	22167	413.8	1.70e7	21002	809.3	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.51e5	1.92e6	2.77e6	38.40	1.047	0.44	NO	101.350	1.558	1.537	2.02	0.326	1.04e7	17586	592.7	2.25e7	21106	1065.7	bd	bb
32	13C-1234789-HpCDF	6.58e5	1.49e6	2.15e6	40.25	1.097	0.44	NO	101.026	1.211	1.198	2.23	0.418	6.44e6	17586	366.4	1.39e7	21106	658.1	bd	bb
33	13C-1234-TCDD	1.00e6	1.24e6	2.25e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.217	8.99e6	9284	968.2	1.13e7	5268	2147.3	bb	bb
34	13C-123789-HxCDD	9.99e5	7.78e5	1.78e6	36.68	0.000	1.28	NO	100.000	1.000	1.000	0.00	0.354	1.30e7	14778	882.4	1.04e7	12575	823.5	dd	dd
35	37Cl-2378-TCDD	2.56e5		2.56e5	30.83	1.024			10.125	1.138	1.124	6.42	0.0314	2.65e6	2368	1120.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

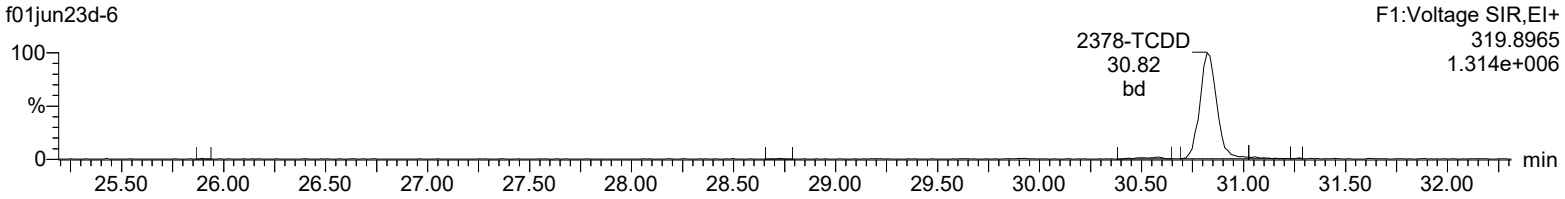
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

06/06/2023

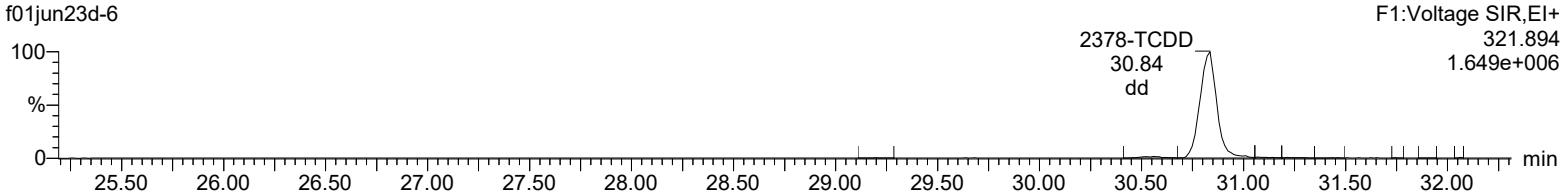
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

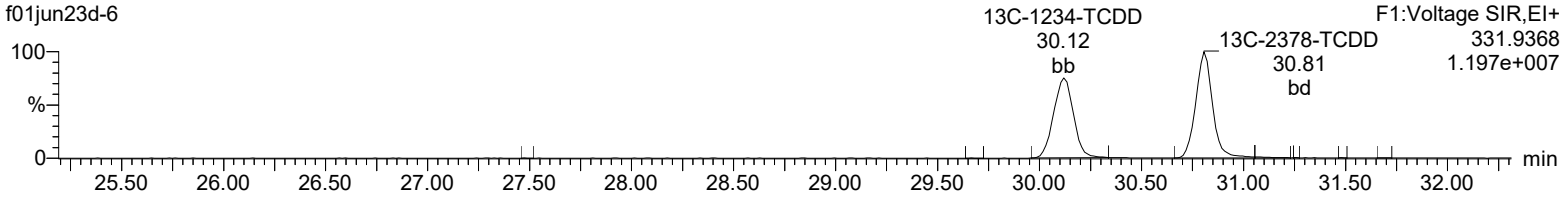
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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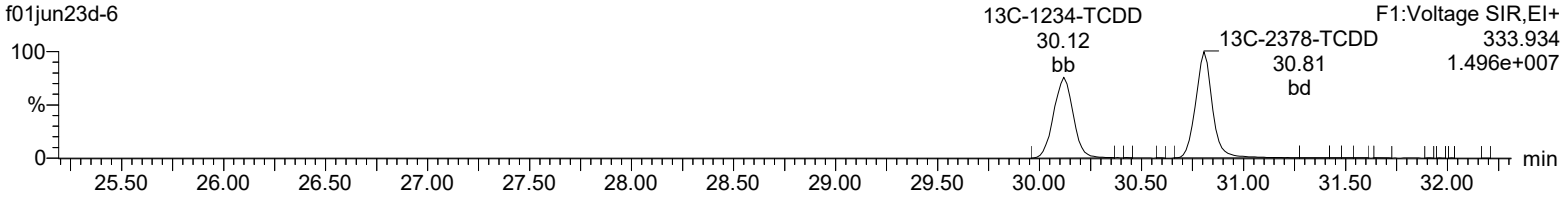

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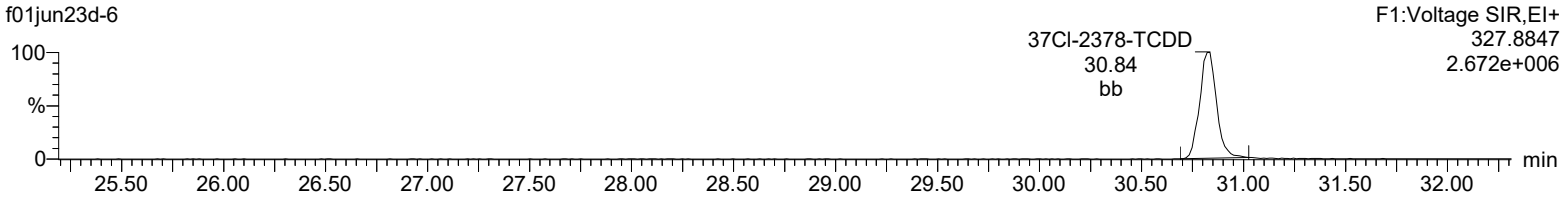
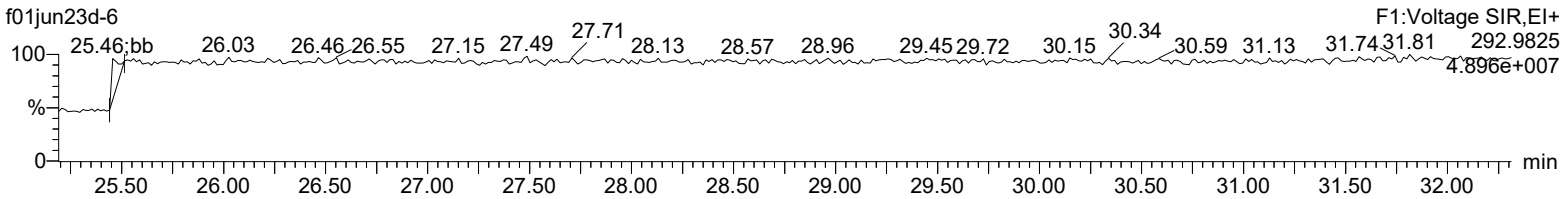


Lock Mass F1



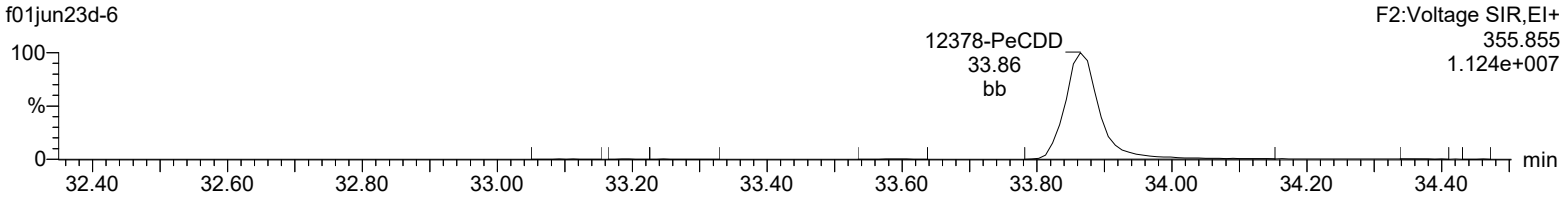
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

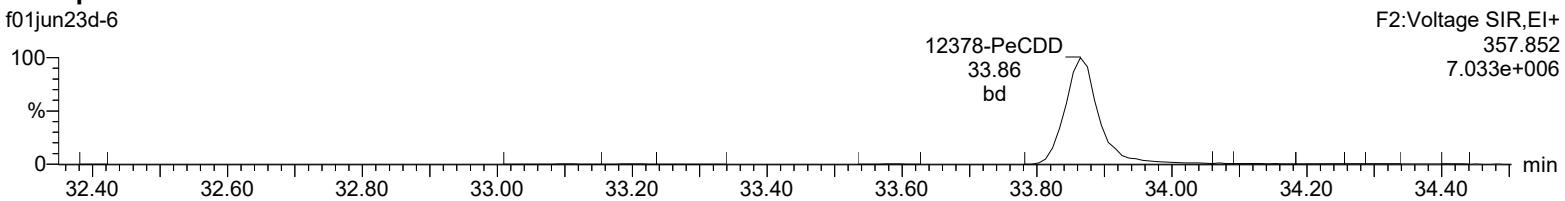
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

Total-pentadioxins



Total-pentadioxins



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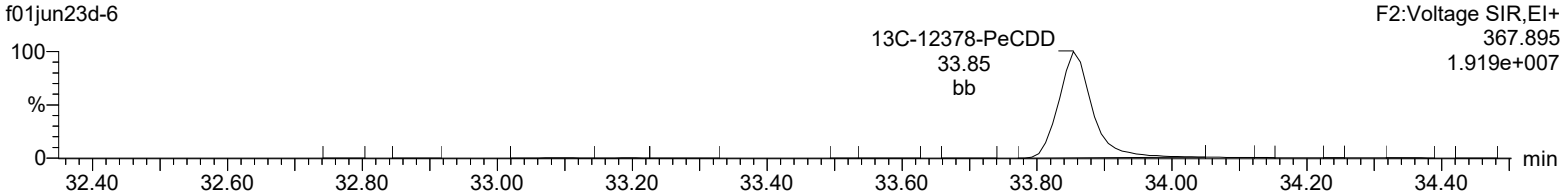

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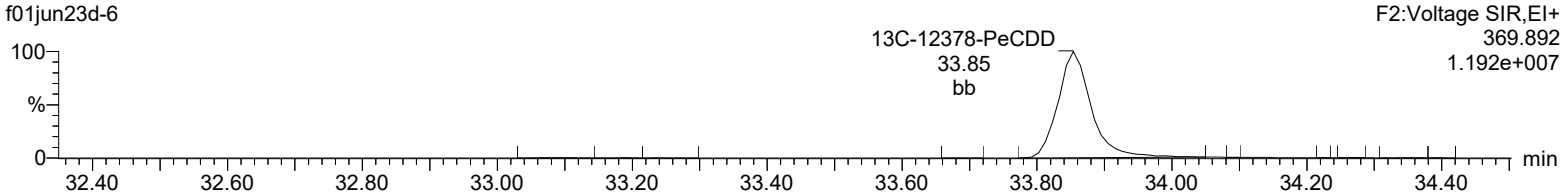
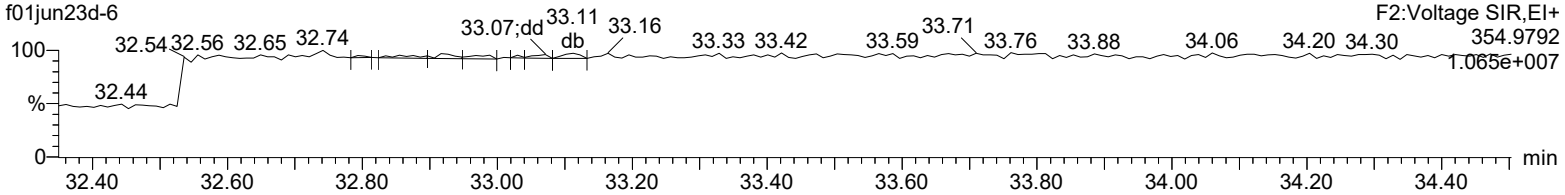


Lock Mass F2



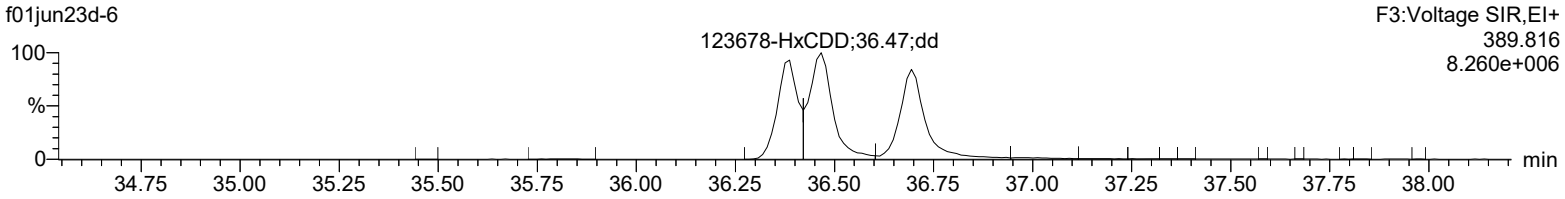
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

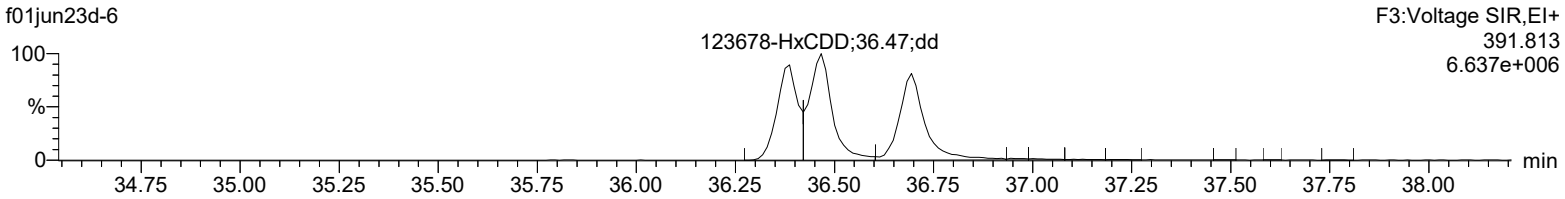
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

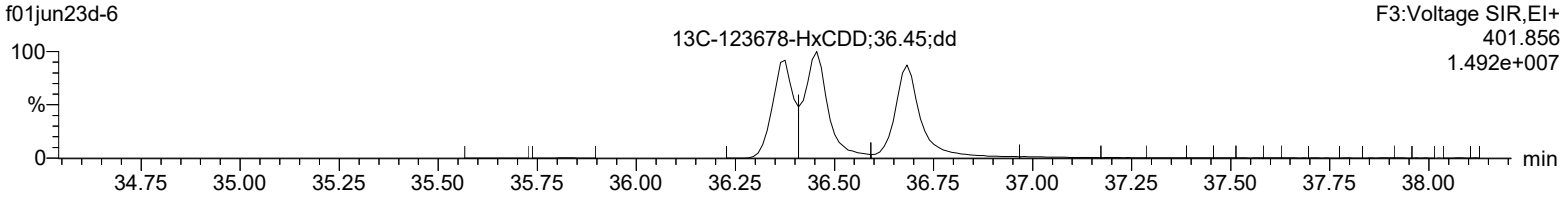
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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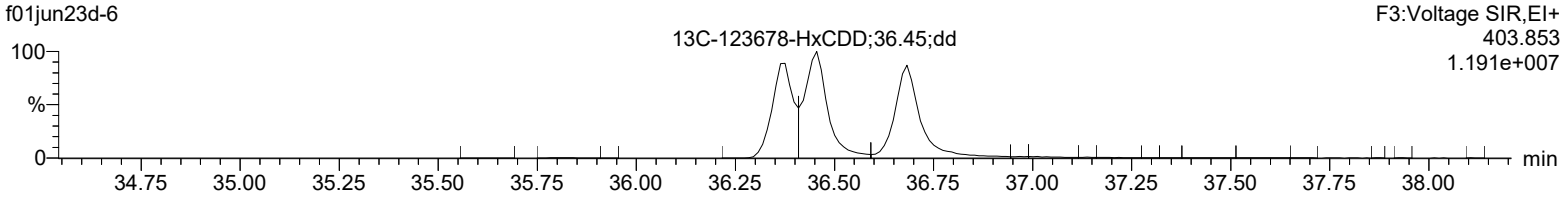
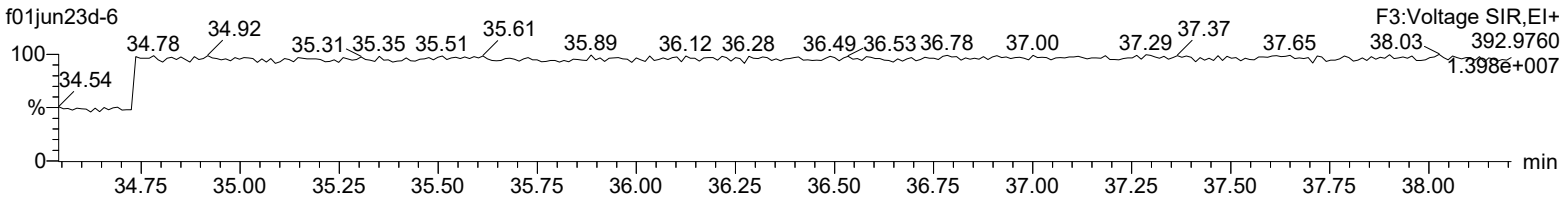


Lock Mass F3



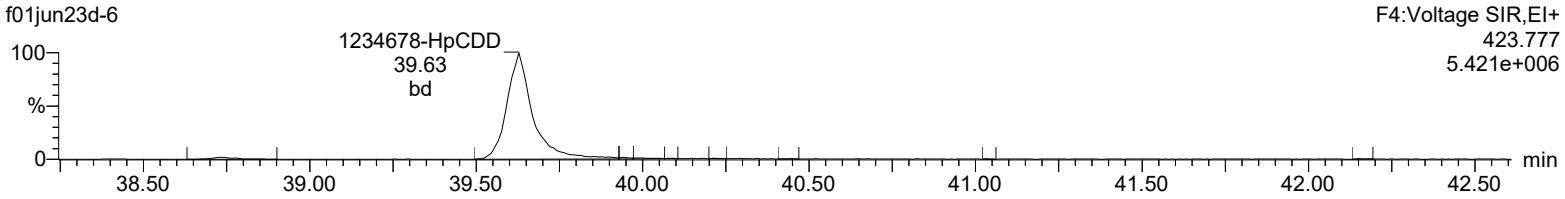
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

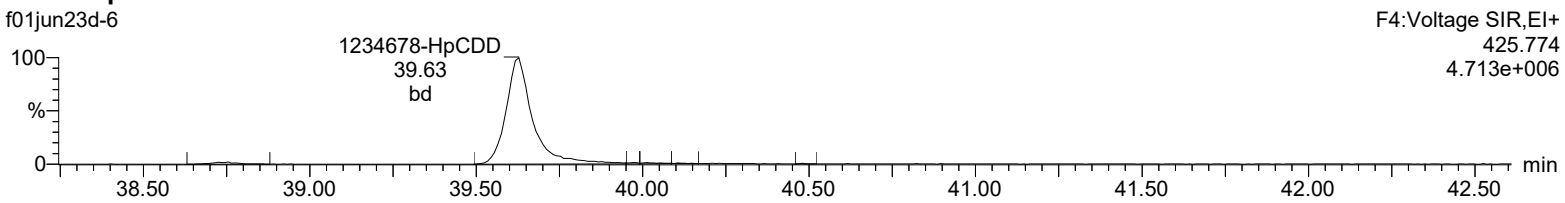
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

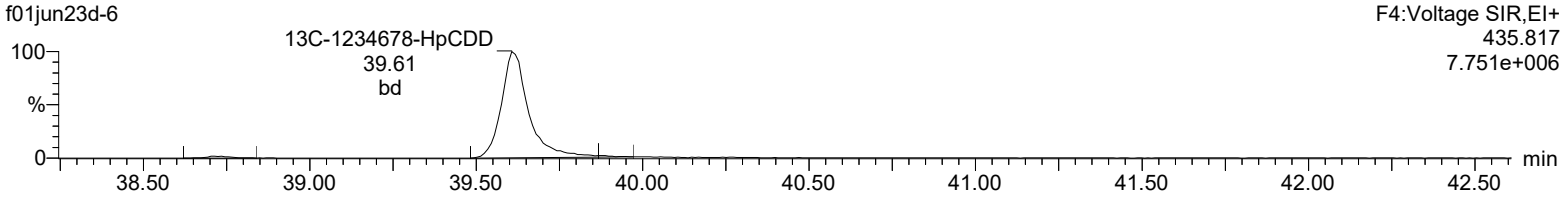
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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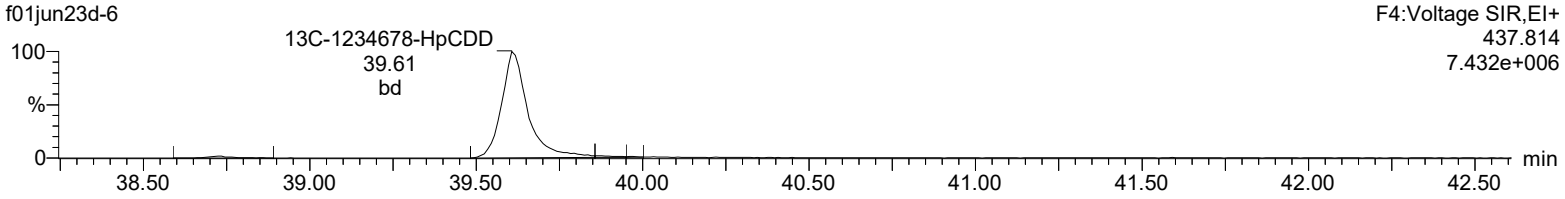
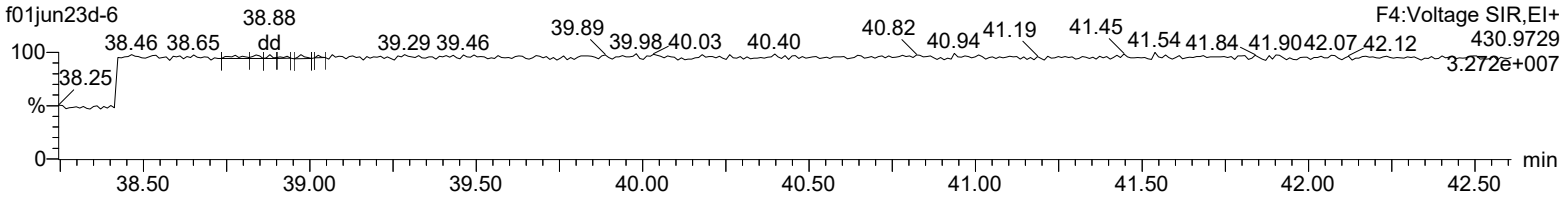


Lock Mass F4



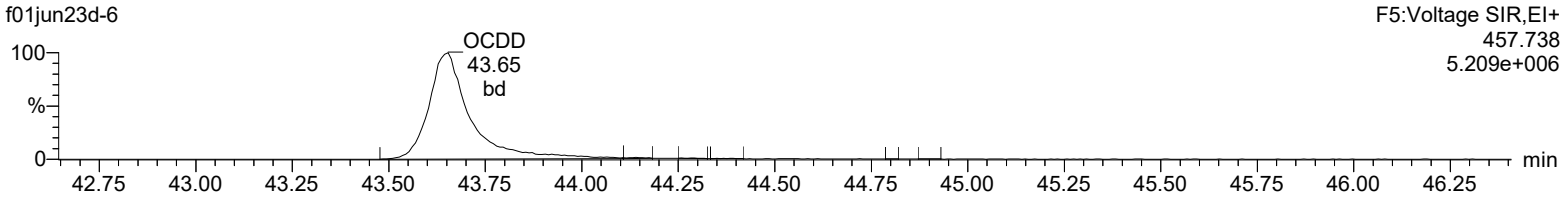
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

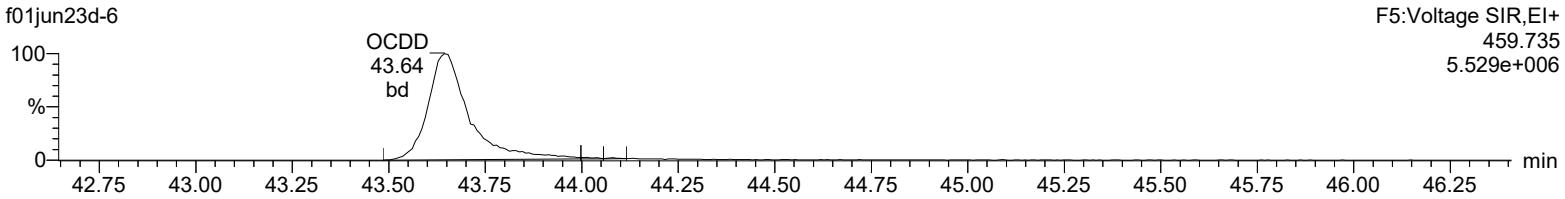
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

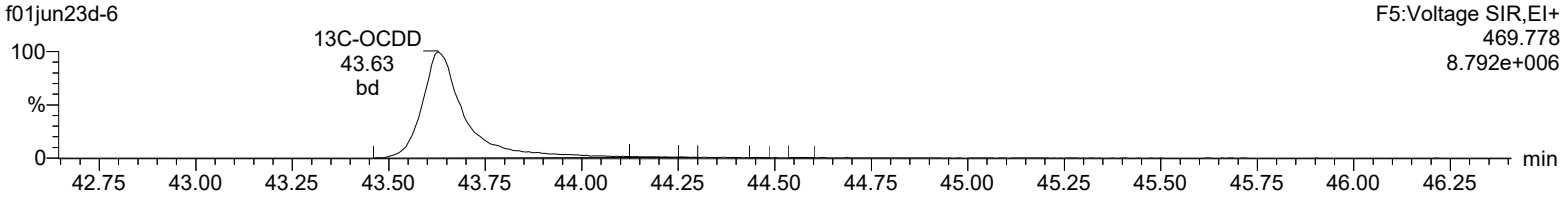
OCDD



OCDD



13C-OCDD



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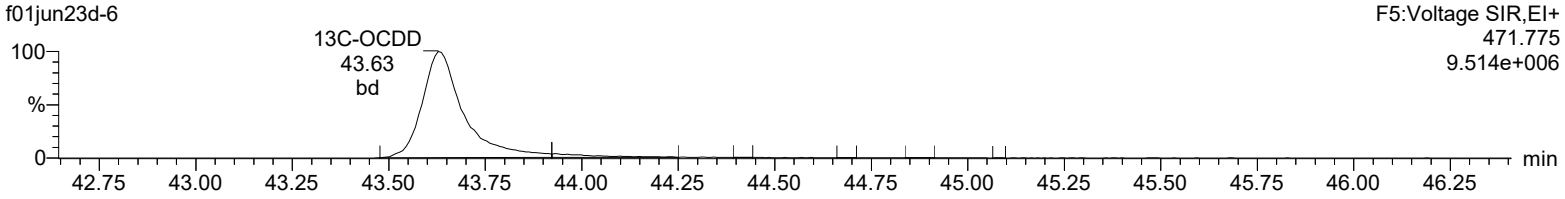
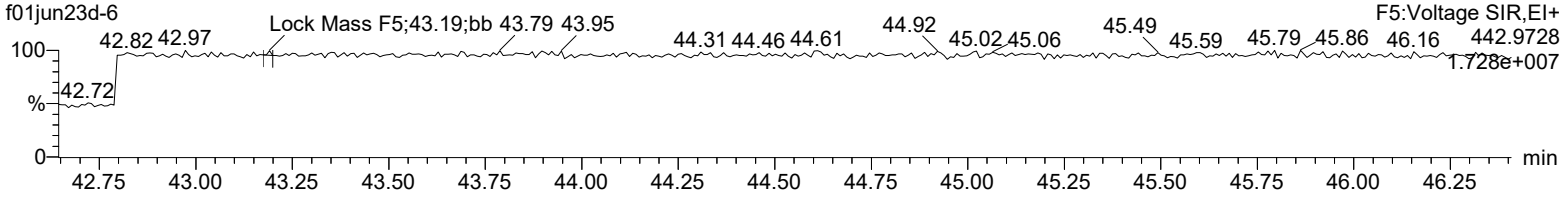


Lock Mass F5



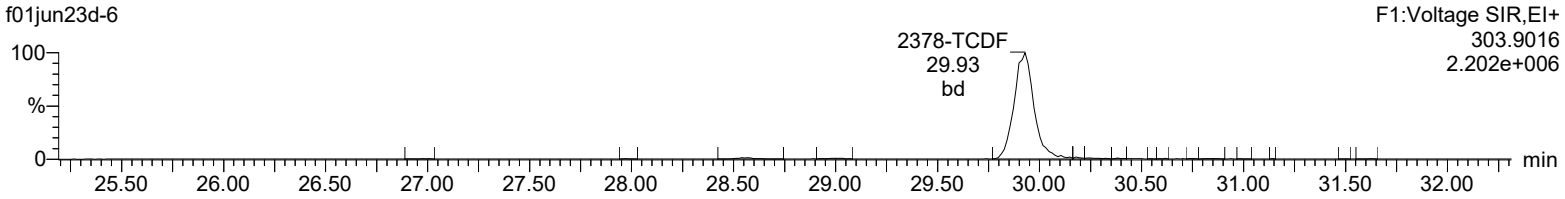
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

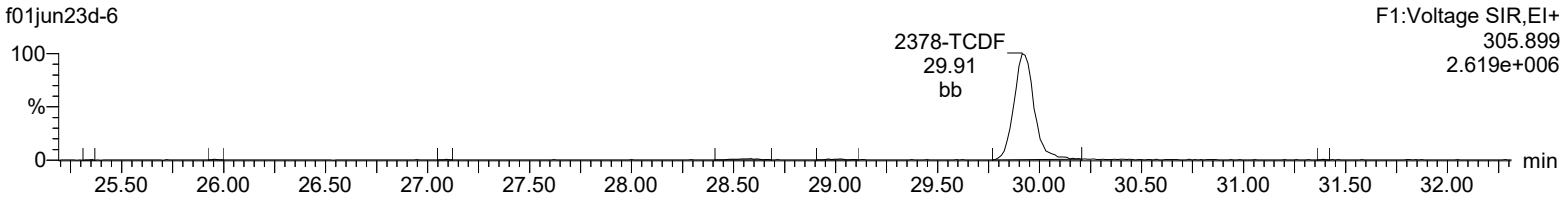
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

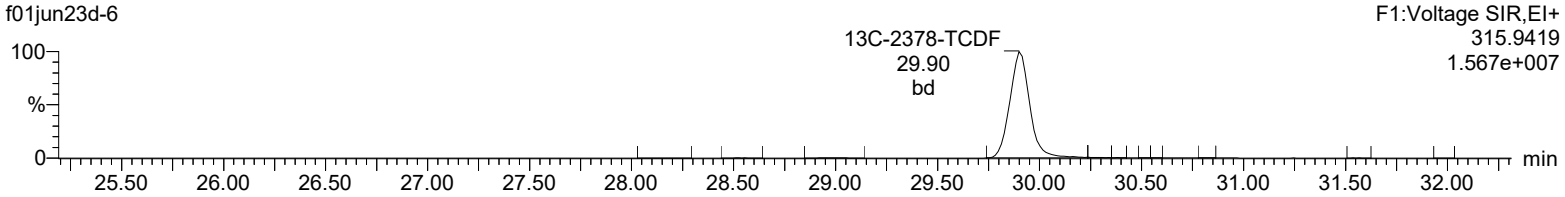
Total-tetrafurans



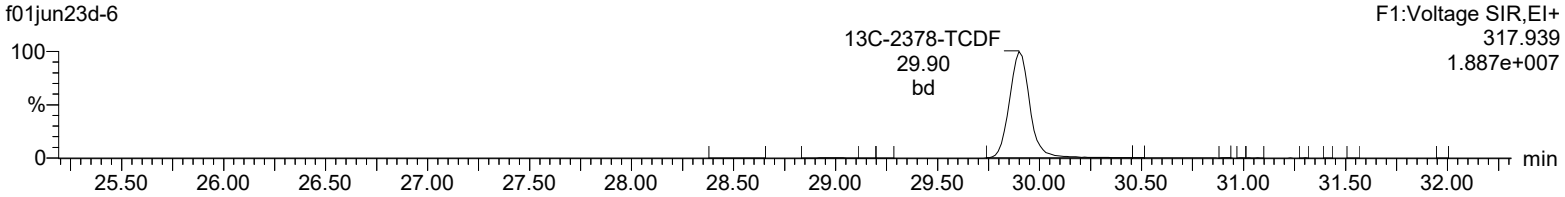
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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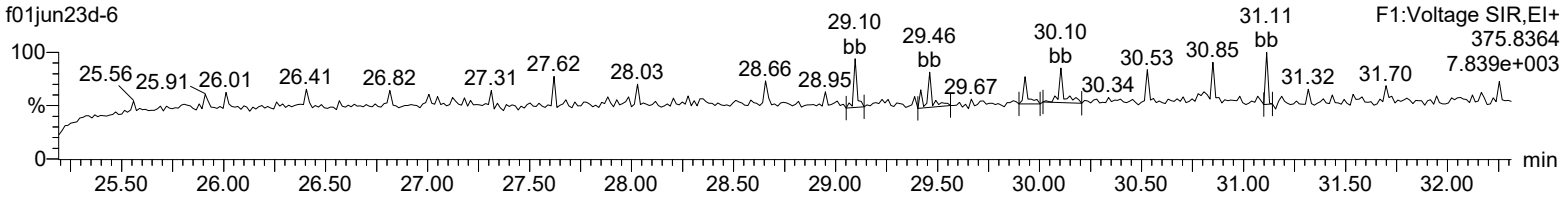
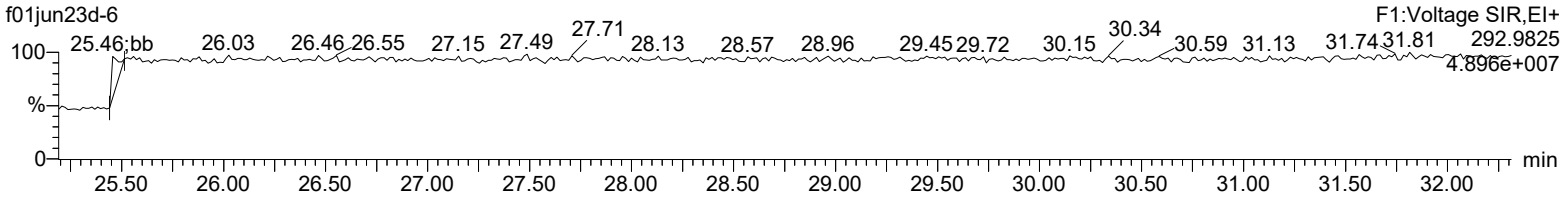


Lock Mass F1



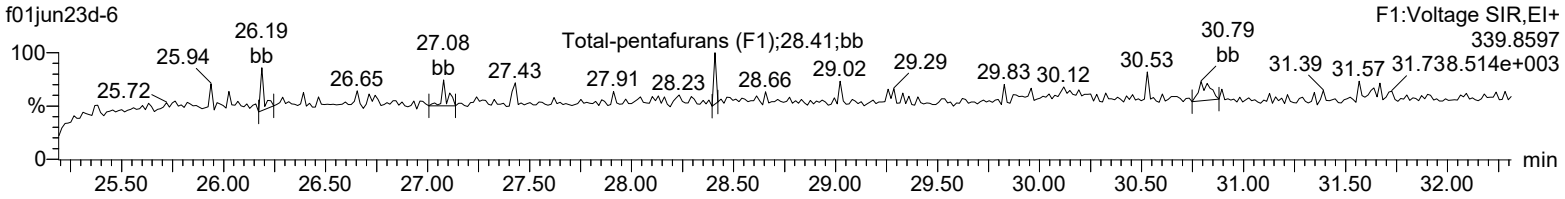
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

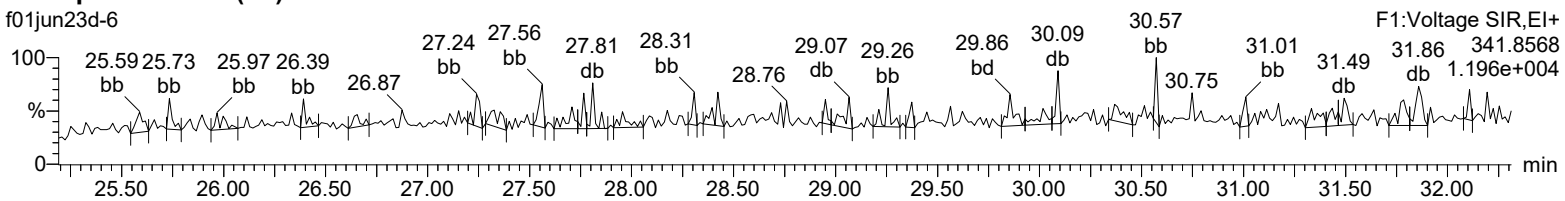
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

Total-pentafurans (F1)



Total-pentafurans (F1)



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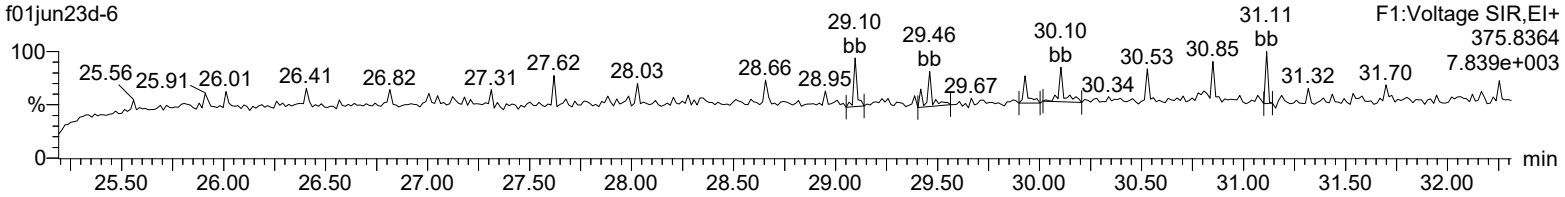
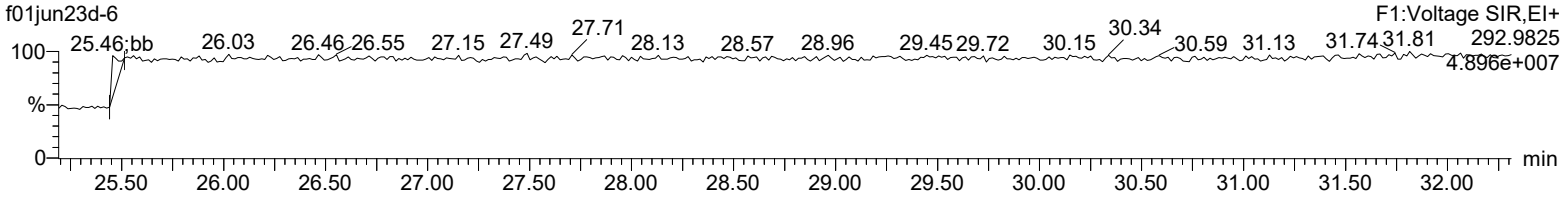


Lock Mass F1



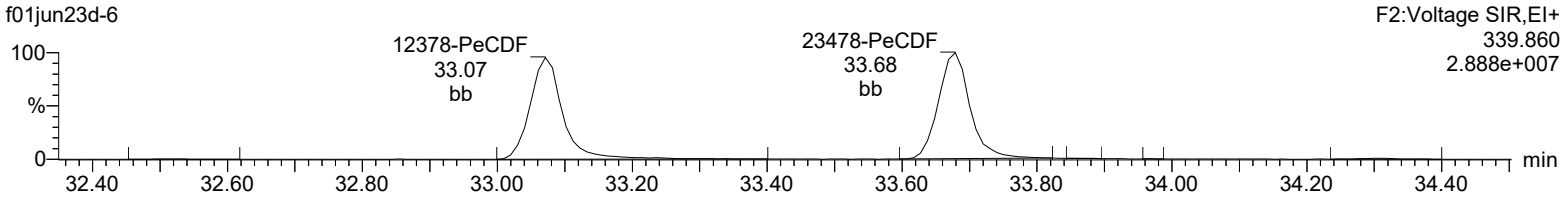
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

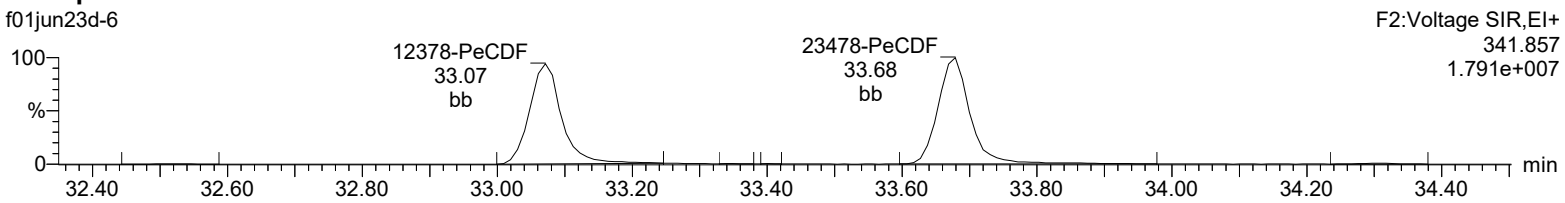
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

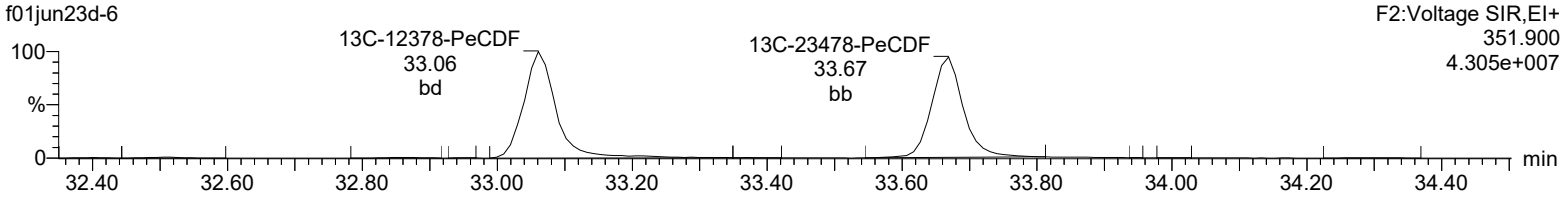
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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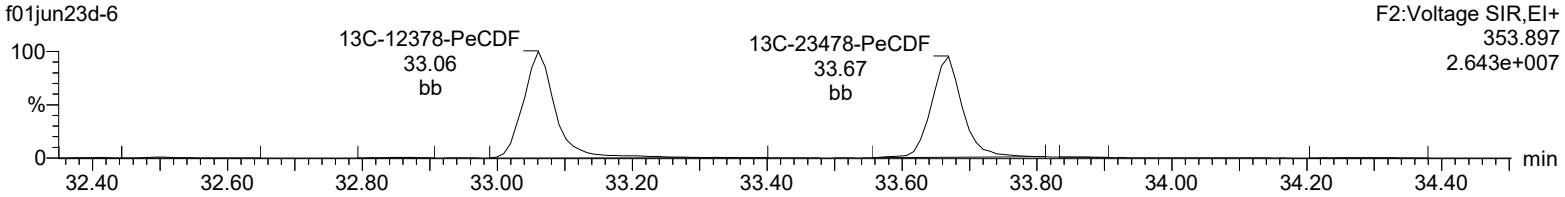
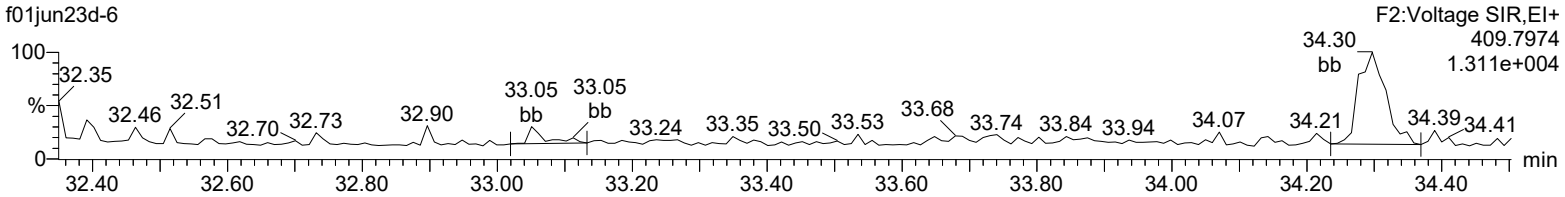
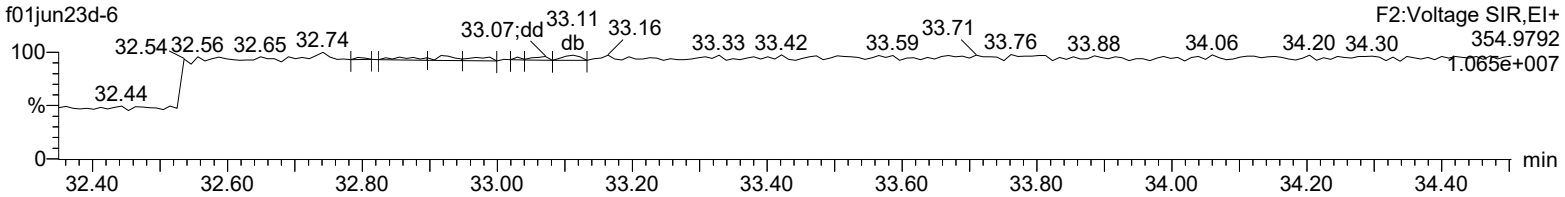


HpDPE



Lock Mass F2



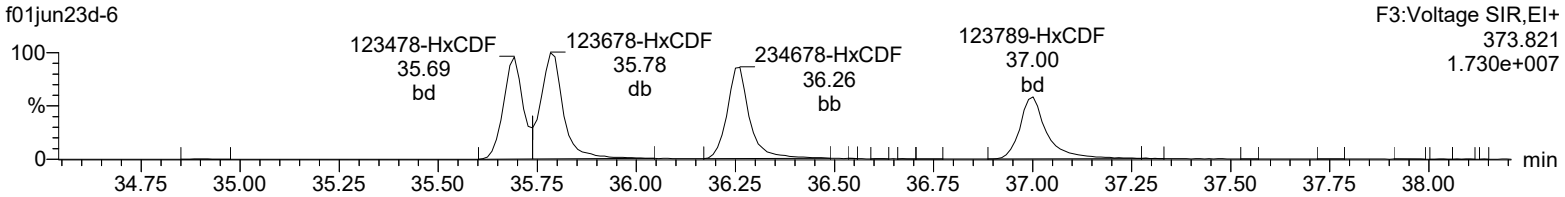
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

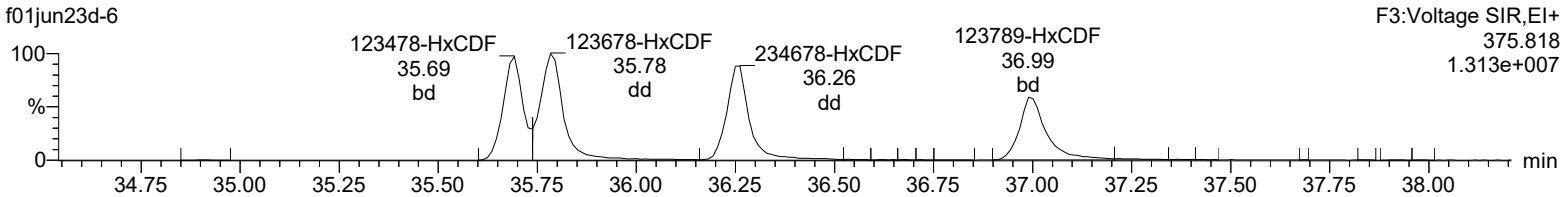
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

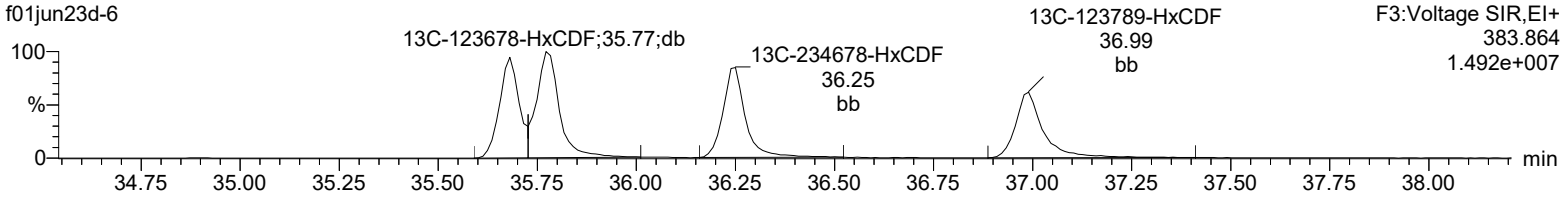
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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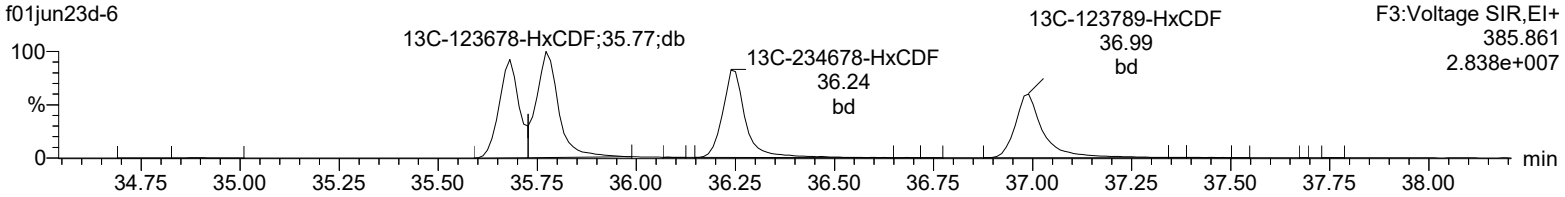
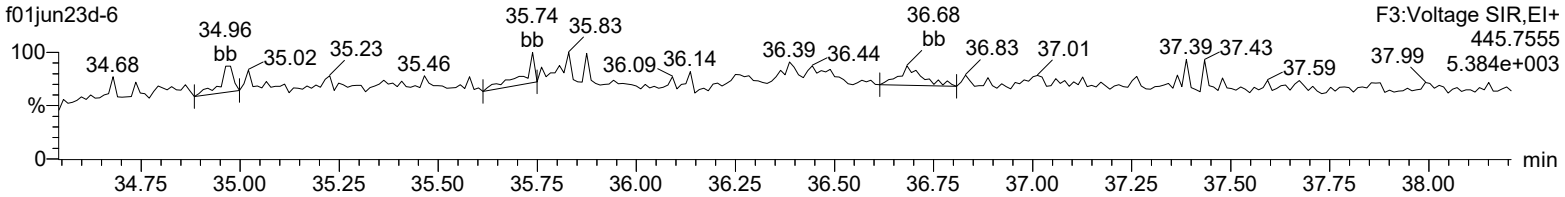
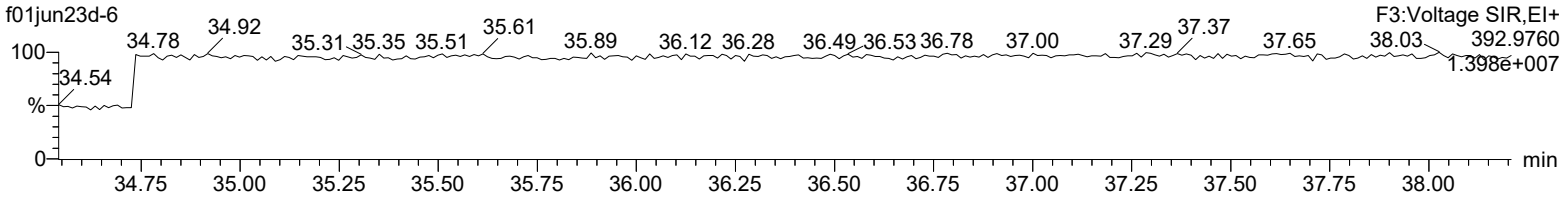


OcDPE



Lock Mass F3



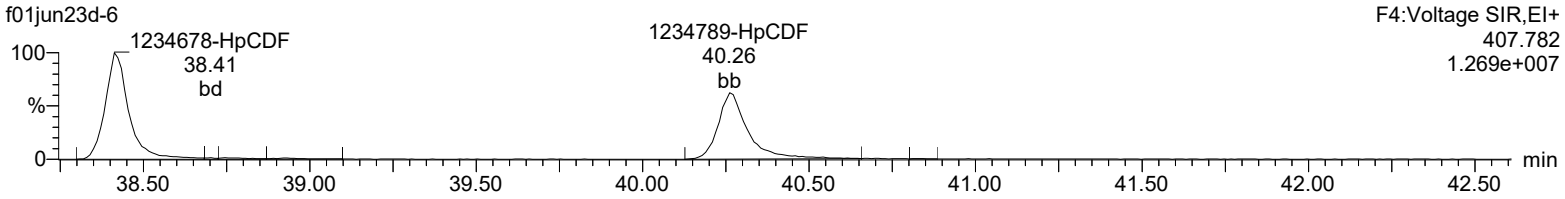
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

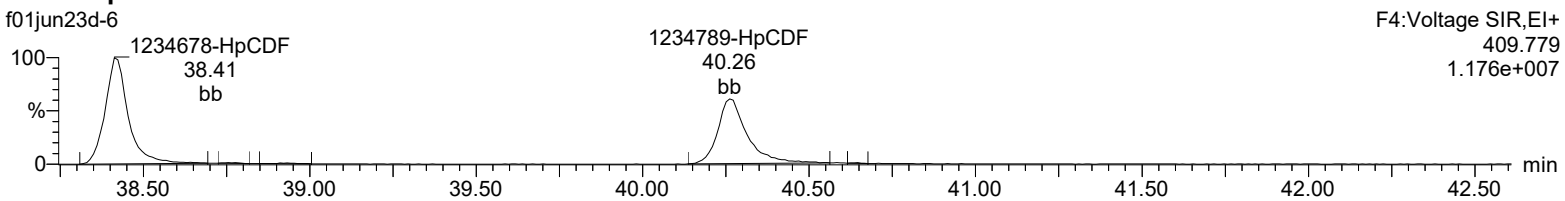
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

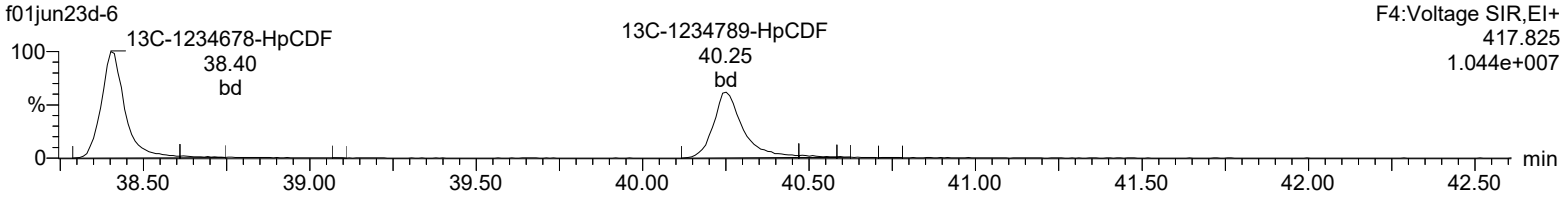
Total-heptafurans



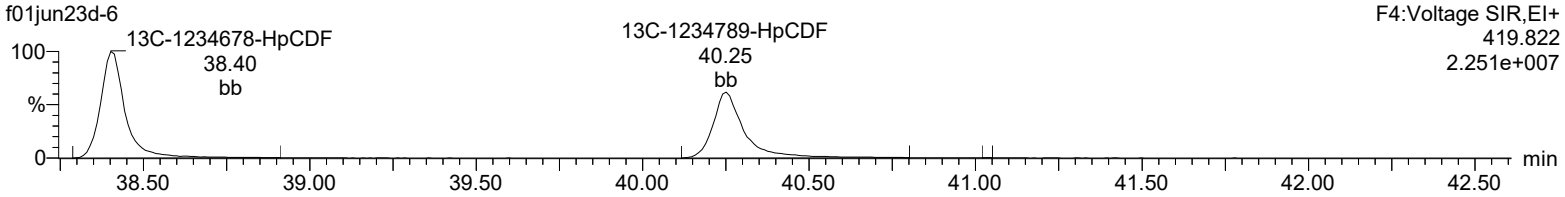
Total-heptafurans



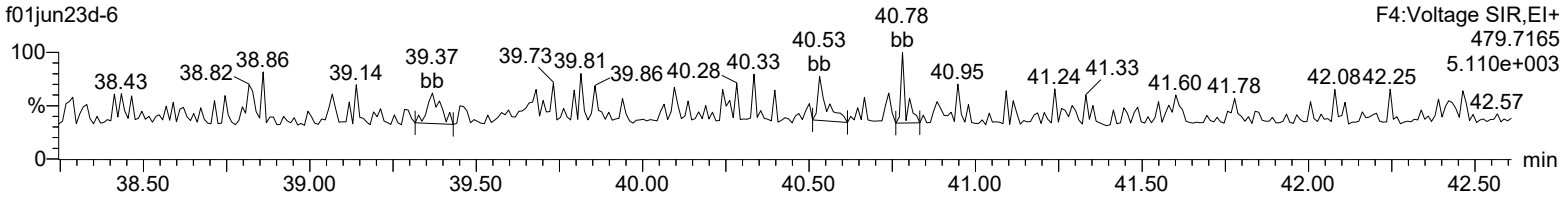
13C-1234678-HpCDF



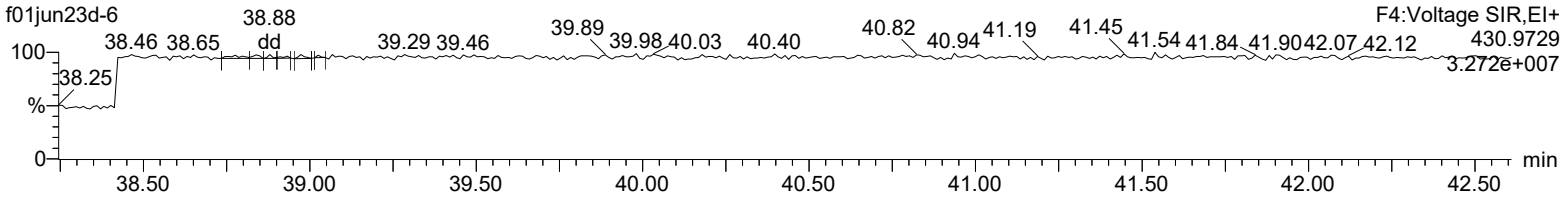
13C-1234678-HpCDF



NoDPE



Lock Mass F4



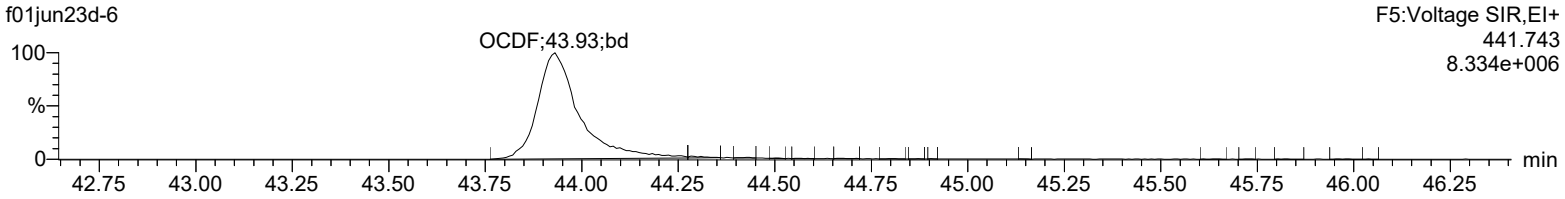
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

OCDF



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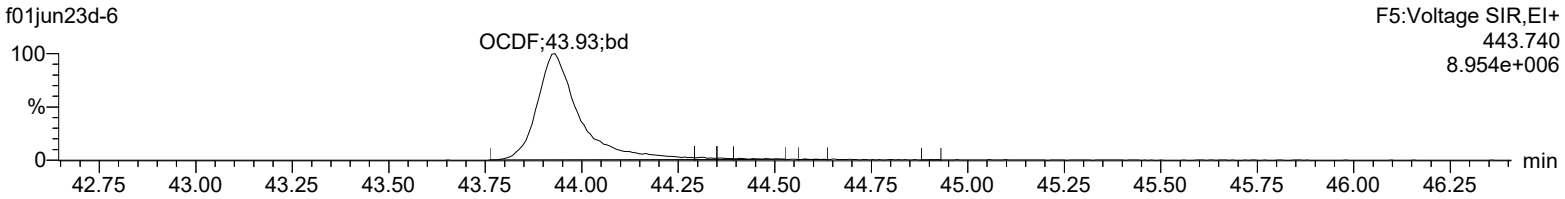
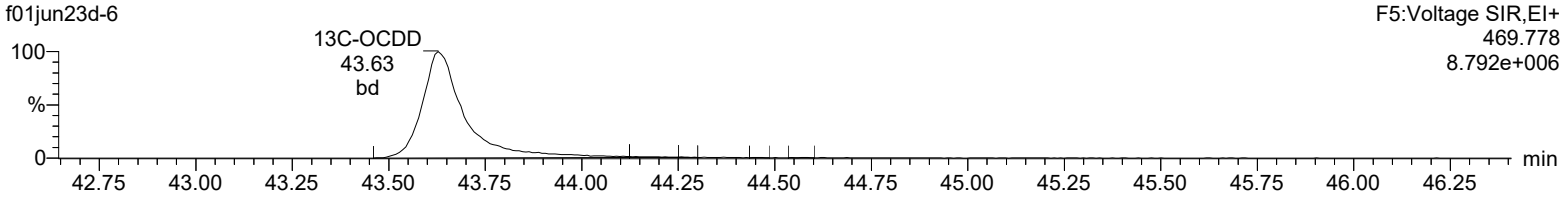


13C-OCDD



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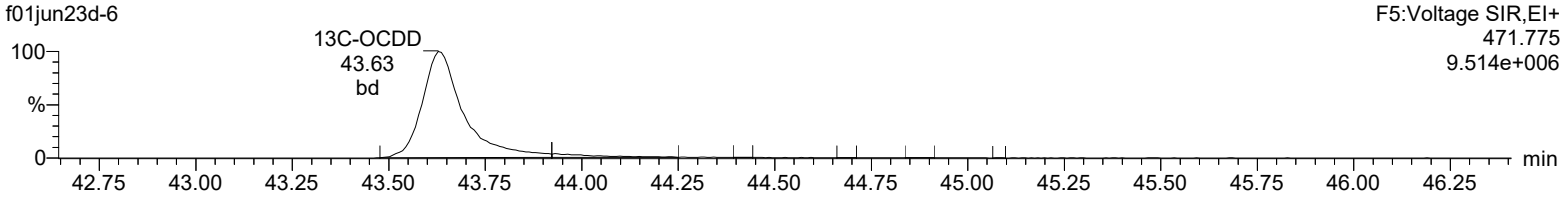

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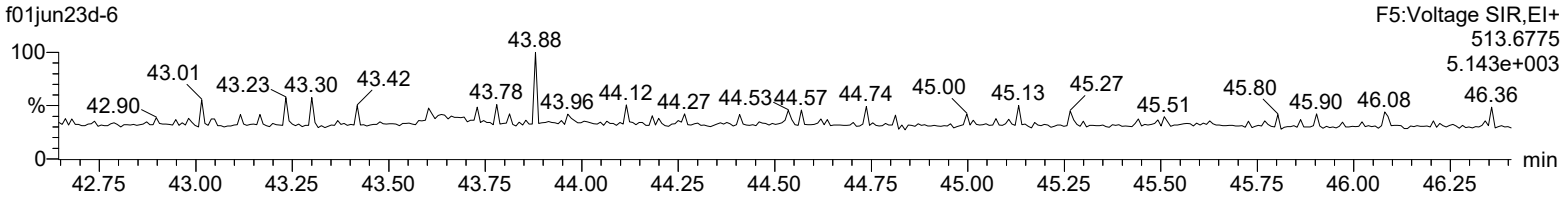
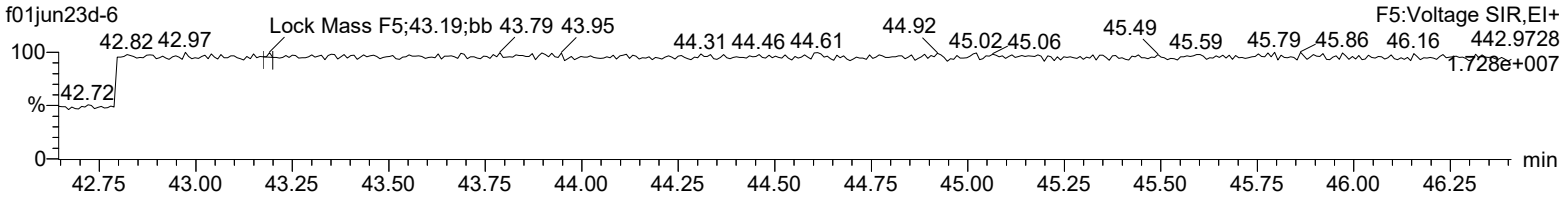


Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	4.68e5	5.58e5	1.03e6	30.83	1.000	0.84	NO	40.895	1.124	1.100	5.89	0.0650	5.52e6	3152	1751.2	6.59e6	3048	2162.8	bd	bb
2	12378-PeCDD	2.45e6	1.49e6	3.94e6	33.88	1.000	1.65	NO	206.875	1.204	1.164	4.32	0.179	4.83e7	13987	3454.3	2.91e7	7872	3695.9	bb	bb
3	123478-HxCDD	1.78e6	1.40e6	3.18e6	36.39	1.000	1.27	NO	207.126	1.111	1.073	4.27	0.271	3.20e7	13737	2332.9	2.53e7	10047	2521.7	bd	dd
4	123678-HxCDD	2.10e6	1.63e6	3.73e6	36.48	1.000	1.29	NO	209.874	1.117	1.064	5.73	0.254	3.35e7	13737	2439.2	2.61e7	10047	2596.0	dd	dd
5	123789-HxCDD	1.95e6	1.53e6	3.48e6	36.71	1.007	1.27	NO	210.570	1.123	1.066	6.89	0.263	2.85e7	13737	2073.8	2.22e7	10047	2210.8	dd	dd
6	1234678-HpCDD	1.77e6	1.62e6	3.38e6	39.63	1.000	1.10	NO	214.270	1.316	1.228	7.21	0.653	2.06e7	25069	819.9	1.93e7	15600	1239.6	bb	bd
7	OCDD	2.39e6	2.60e6	4.99e6	43.65	1.000	0.92	NO	426.920	1.182	1.107	6.02	0.933	2.15e7	12123	1775.2	2.38e7	20604	1156.6	bd	bd
8	2378-TCDF	8.77e5	1.07e6	1.95e6	29.94	1.001	0.82	NO	41.340	1.398	1.352	4.83	0.118	8.11e6	6942	1168.9	1.02e7	10040	1012.2	bb	bd
9	12378-PeCDF	5.79e6	3.53e6	9.33e6	33.08	1.000	1.64	NO	210.607	1.341	1.274	6.94	0.205	1.17e8	37071	3161.2	7.18e7	21846	3286.6	bd	bd
10	23478-PeCDF	5.90e6	3.63e6	9.53e6	33.69	1.000	1.63	NO	207.944	1.450	1.394	4.15	0.190	1.19e8	37071	3206.9	7.25e7	21846	3316.9	bb	bb
11	123478-HxCDF	3.63e6	2.61e6	6.24e6	35.70	1.000	1.39	NO	204.791	1.452	1.418	4.11	0.456	6.44e7	43109	1492.8	4.78e7	38489	1241.7	bd	bd
12	123678-HxCDF	4.15e6	3.25e6	7.40e6	35.79	1.000	1.28	NO	206.904	1.426	1.378	4.15	0.414	6.97e7	43109	1616.7	5.21e7	38489	1353.4	db	db
13	234678-HxCDF	3.77e6	2.85e6	6.62e6	36.26	1.000	1.32	NO	213.776	1.520	1.422	5.96	0.473	6.47e7	43109	1500.0	4.89e7	38489	1269.3	bd	bb
14	123789-HxCDF	3.03e6	2.28e6	5.31e6	37.00	1.000	1.33	NO	208.623	1.358	1.302	5.43	0.725	4.12e7	43109	954.9	3.11e7	38489	807.6	bb	bb
15	1234678-HpCDF	3.69e6	3.48e6	7.17e6	38.42	1.000	1.06	NO	203.717	1.410	1.384	4.56	0.498	5.07e7	37116	1365.5	4.84e7	39680	1218.6	bb	bb
16	1234789-HpCDF	3.05e6	2.77e6	5.82e6	40.27	1.000	1.10	NO	217.547	1.483	1.364	8.52	0.791	3.20e7	37116	863.3	3.02e7	39680	761.5	bd	bb
17	OCDF	4.23e6	4.55e6	8.78e6	43.94	1.007	0.93	NO	474.318	2.078	1.752	16.82	0.811	3.76e7	16122	2335.1	3.92e7	28896	1357.6	bd	bd
18	13C-2378-TCDD	1.01e6	1.27e6	2.28e6	30.82	1.023	0.80	NO	99.560	1.134	1.139	2.81	0.166	1.15e7	7112	1621.7	1.45e7	5251	2758.9	bd	bd
19	13C-12378-PeCDD	1.01e6	6.25e5	1.64e6	33.86	1.124	1.62	NO	99.966	0.813	0.813	6.11	0.185	1.95e7	5725	3403.1	1.20e7	4132	2892.6	bb	bb
20	13C-123478-HxCDD	8.01e5	6.30e5	1.43e6	36.38	0.991	1.27	NO	104.279	0.884	0.847	3.44	0.306	1.37e7	9290	1477.5	1.10e7	10291	1066.7	bd	bd
21	13C-123678-HxCDD	9.34e5	7.35e5	1.67e6	36.47	0.994	1.27	NO	100.302	1.030	1.027	0.98	0.253	1.48e7	9290	1587.8	1.17e7	10291	1136.9	dd	dd
22	13C-1234678-HpCDD	6.66e5	6.20e5	1.29e6	39.62	1.080	1.08	NO	99.201	0.794	0.800	2.20	0.420	7.88e6	12212	645.2	7.39e6	13180	560.8	bb	bd
23	13C-OCDD	9.86e5	1.13e6	2.11e6	43.64	1.189	0.88	NO	199.840	0.652	0.653	4.31	0.496	8.87e6	13108	676.8	9.75e6	11326	860.8	bd	bd
24	13C-2378-TCDF	1.54e6	1.95e6	3.49e6	29.91	0.993	0.79	NO	100.003	1.734	1.734	1.52	0.142	1.41e7	7065	1998.0	1.73e7	9048	1914.9	bb	bd
25	13C-12378-PeCDF	2.18e6	1.29e6	3.48e6	33.07	1.097	1.69	NO	100.458	1.727	1.719	3.99	0.444	4.26e7	26029	1638.3	2.60e7	23988	1083.9	bd	bd
26	13C-23478-PeCDF	2.05e6	1.23e6	3.29e6	33.68	1.118	1.67	NO	100.822	1.632	1.619	7.01	0.471	4.17e7	26029	1602.7	2.45e7	23988	1019.9	bb	bb
27	13C-123478-HxCDF	7.56e5	1.39e6	2.15e6	35.69	0.973	0.54	NO	102.769	1.327	1.291	3.13	0.361	1.33e7	17884	745.3	2.41e7	17337	1389.6	bd	bd
28	13C-123678-HxCDF	9.26e5	1.67e6	2.60e6	35.78	0.975	0.55	NO	100.247	1.602	1.598	1.73	0.292	1.53e7	17884	856.5	2.79e7	17337	1607.2	dd	db
29	13C-234678-HxCDF	7.78e5	1.40e6	2.18e6	36.25	0.988	0.56	NO	100.495	1.344	1.338	1.29	0.349	1.30e7	17884	726.9	2.42e7	17337	1398.6	bb	bb
30	13C-123789-HxCDF	6.90e5	1.26e6	1.95e6	37.00	1.008	0.55	NO	101.332	1.206	1.190	2.59	0.392	9.17e6	17884	512.7	1.68e7	17337	969.1	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.08e5	1.73e6	2.54e6	38.41	1.047	0.47	NO	102.141	1.570	1.537	2.02	0.360	1.06e7	19223	553.2	2.30e7	22541	1019.2	bd	bd
32	13C-1234789-HpCDF	6.08e5	1.35e6	1.96e6	40.26	1.097	0.45	NO	101.082	1.211	1.198	2.23	0.462	6.62e6	19223	344.4	1.42e7	22541	628.9	bb	bd
33	13C-1234-TCDD	9.02e5	1.11e6	2.01e6	30.13	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.189	8.80e6	7112	1237.7	1.05e7	5251	2006.0	bb	bb
34	13C-123789-HxCDD	9.05e5	7.15e5	1.62e6	36.69	0.000	1.26	NO	100.000	1.000	1.000	0.00	0.259	1.26e7	9290	1360.9	9.83e6	10291	954.9	dd	dd
35	37Cl-2378-TCDD	9.33e5		9.33e5	30.83	1.023			41.219	1.158	1.124	6.42	0.0343	1.10e7	2523	4358.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

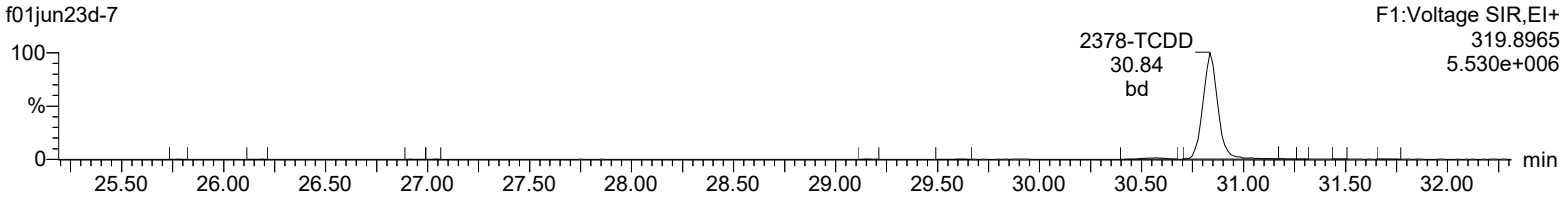
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

06/06/2023

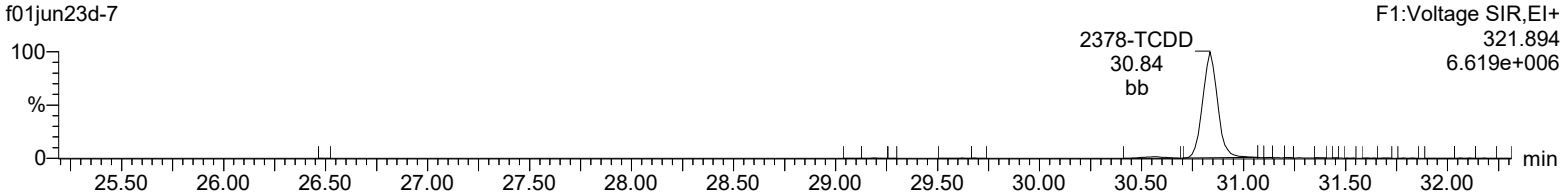
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

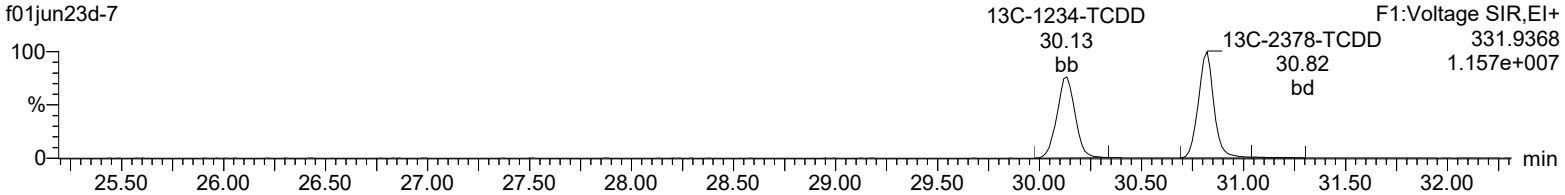
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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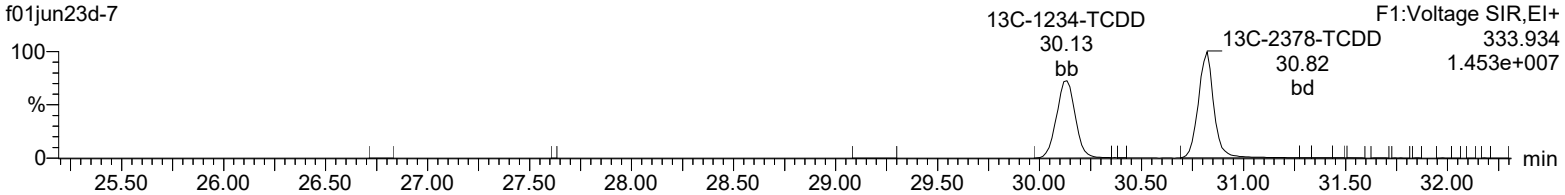
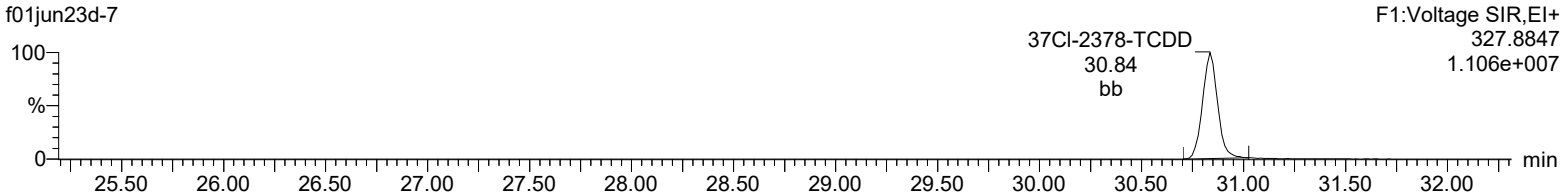
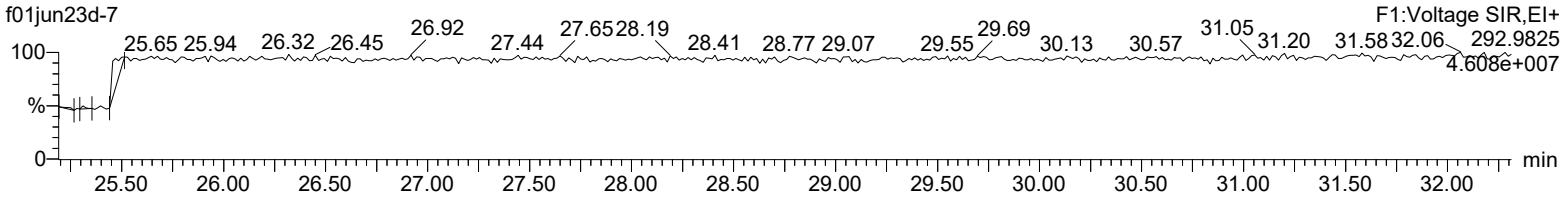


37Cl-2378-TCDD



Lock Mass F1



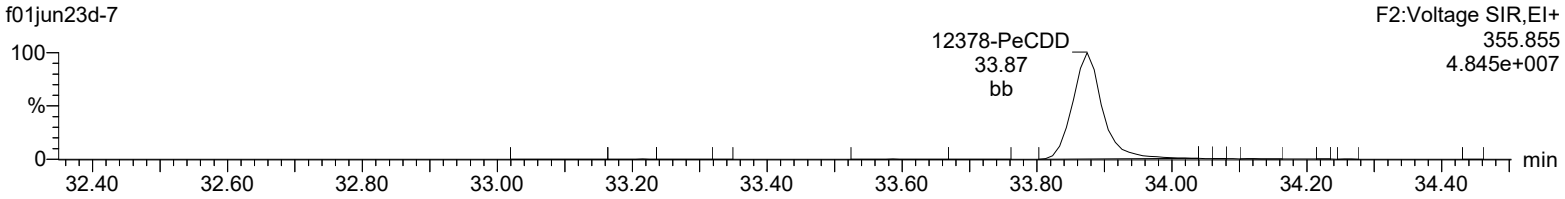
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

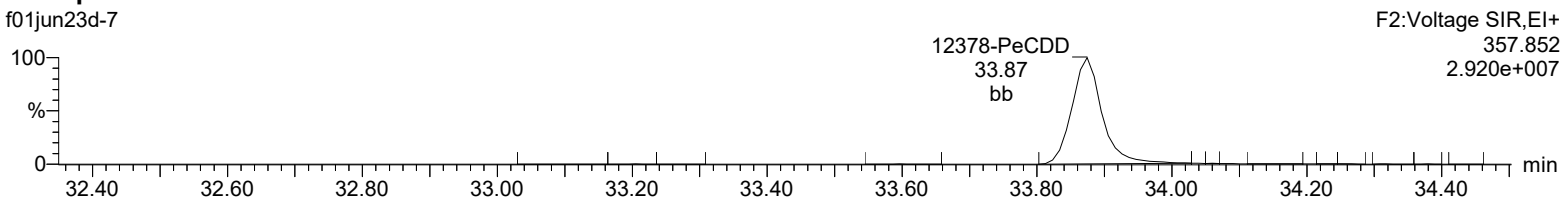
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

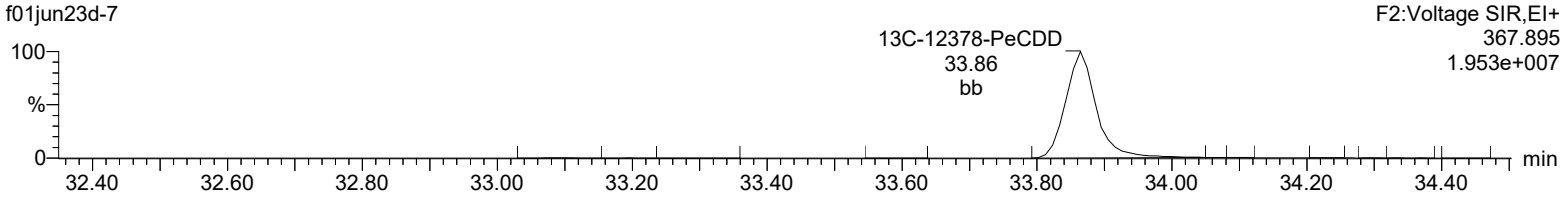
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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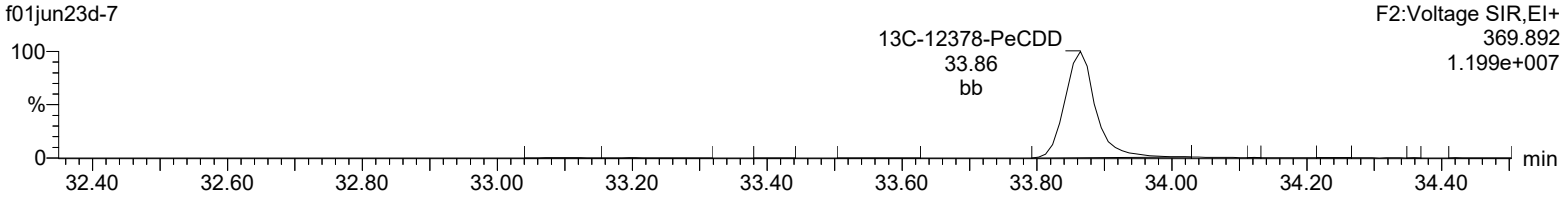
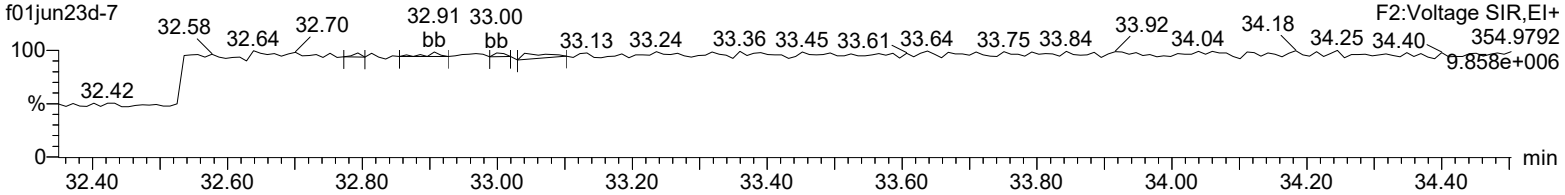


Lock Mass F2



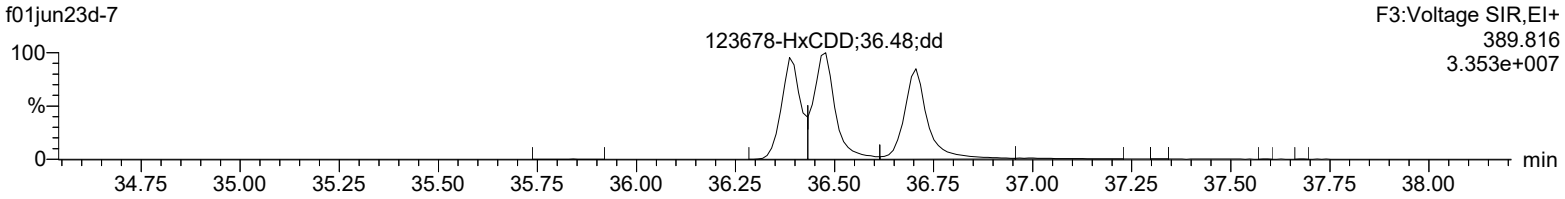
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

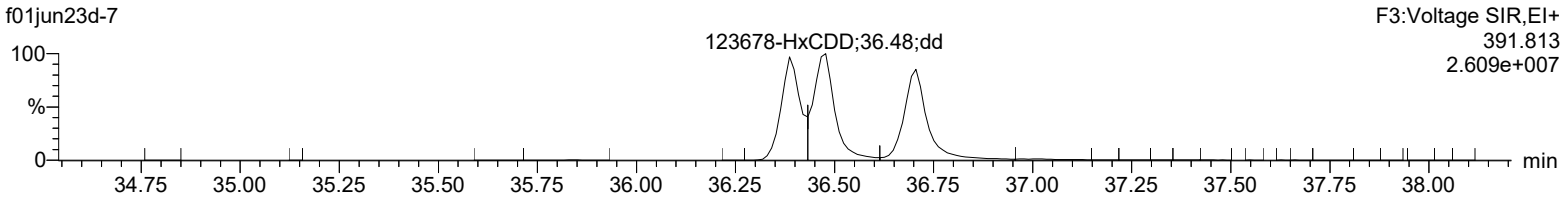
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

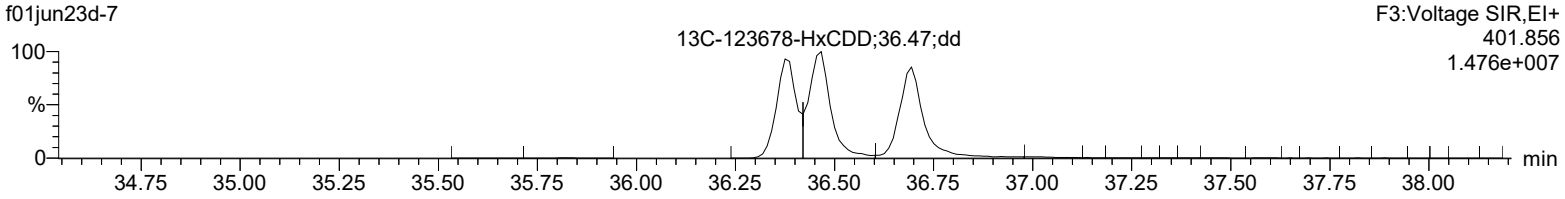
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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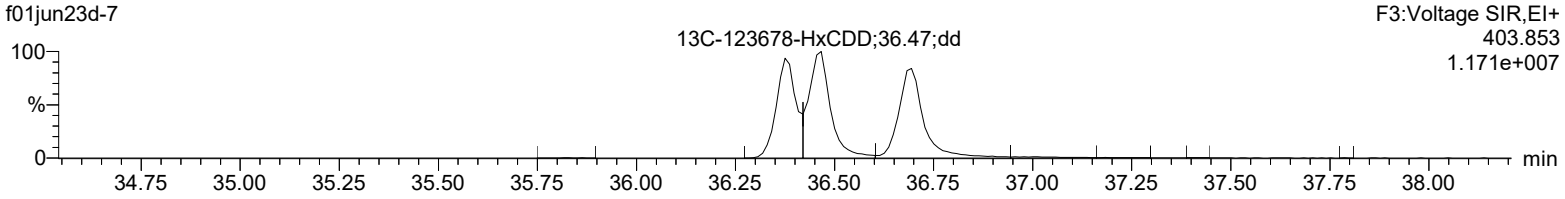
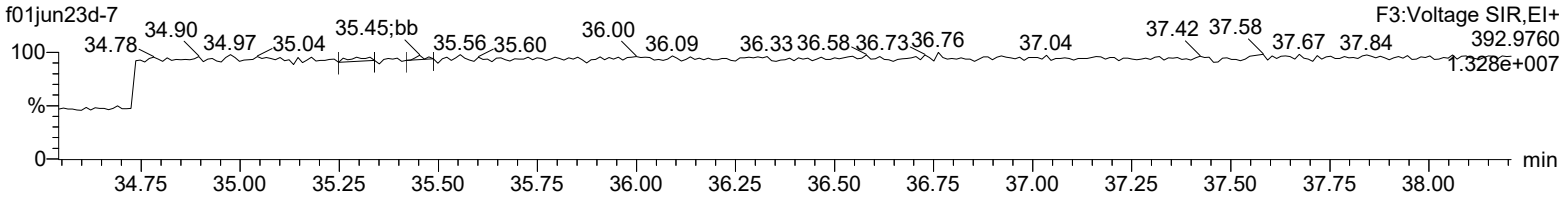


Lock Mass F3



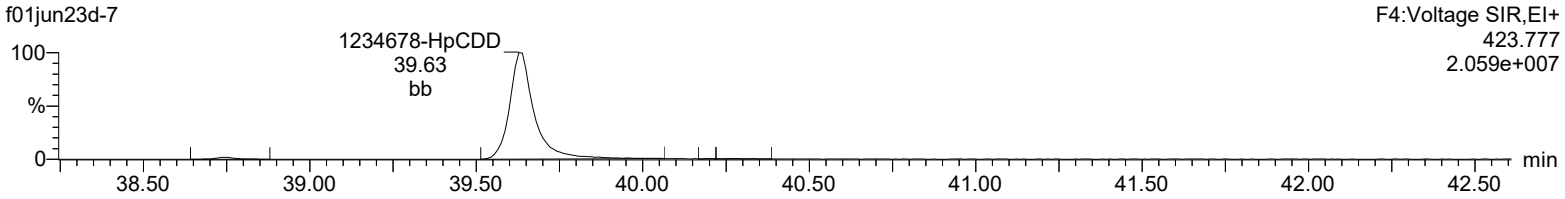
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

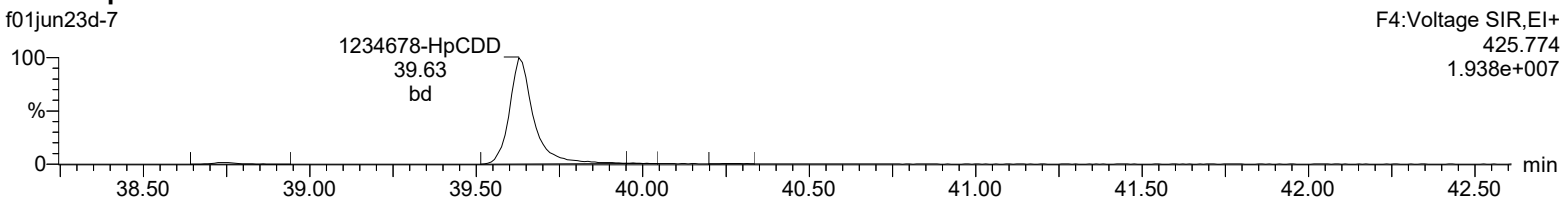
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

Total-heptadioxins



Total-heptadioxins



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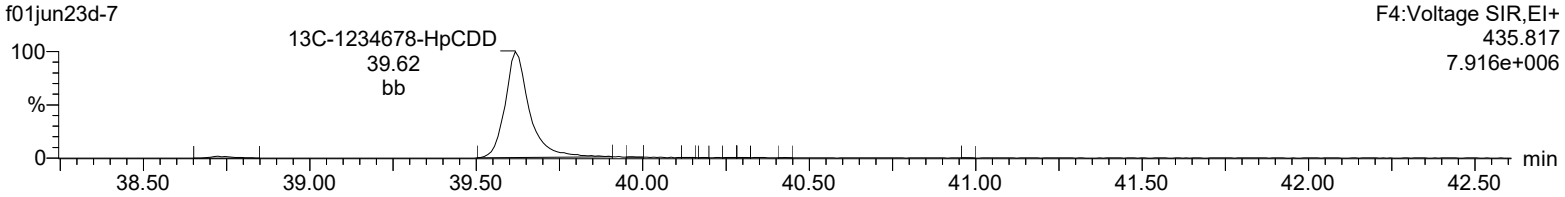

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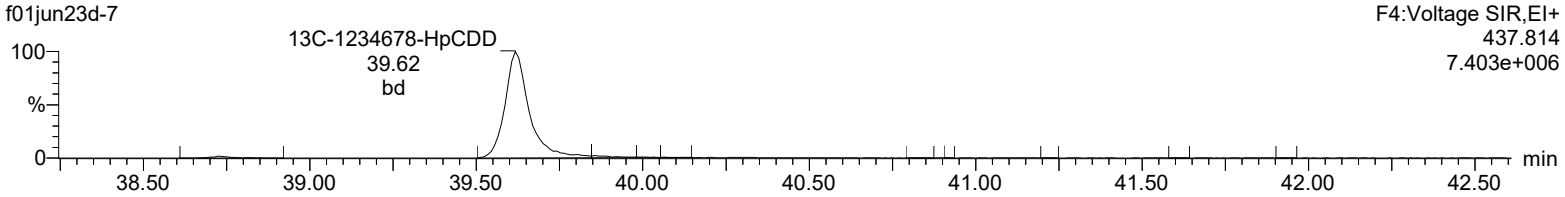
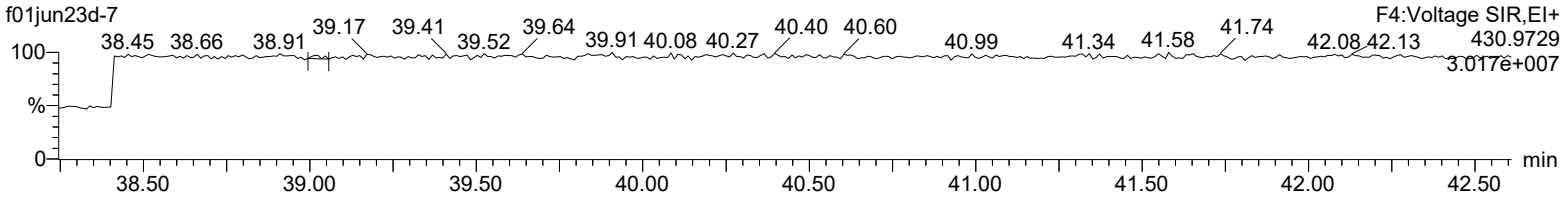


Lock Mass F4



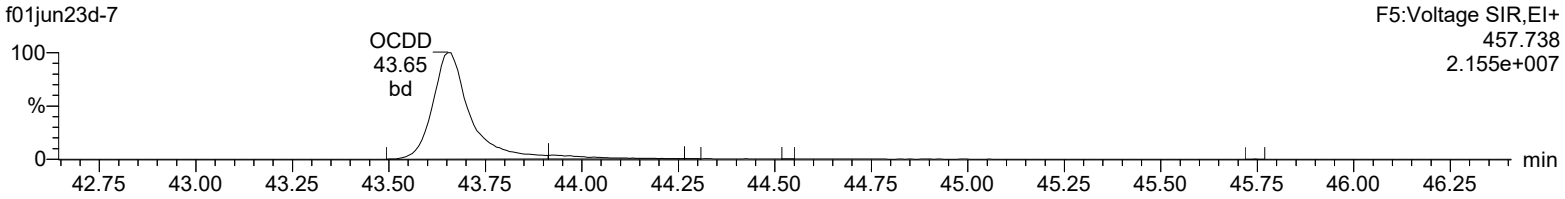
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

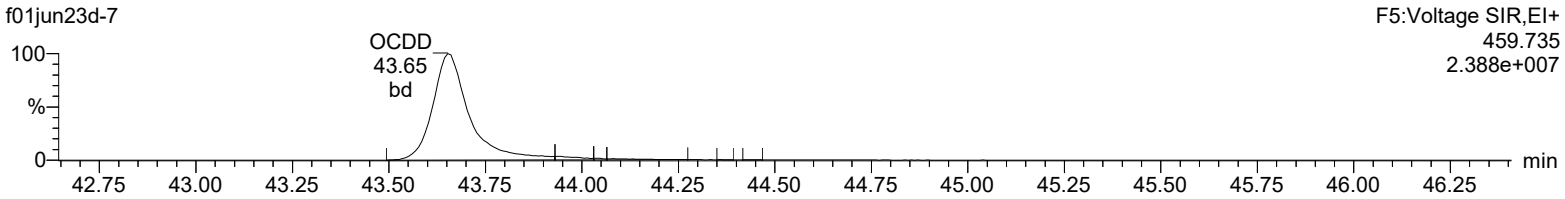
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

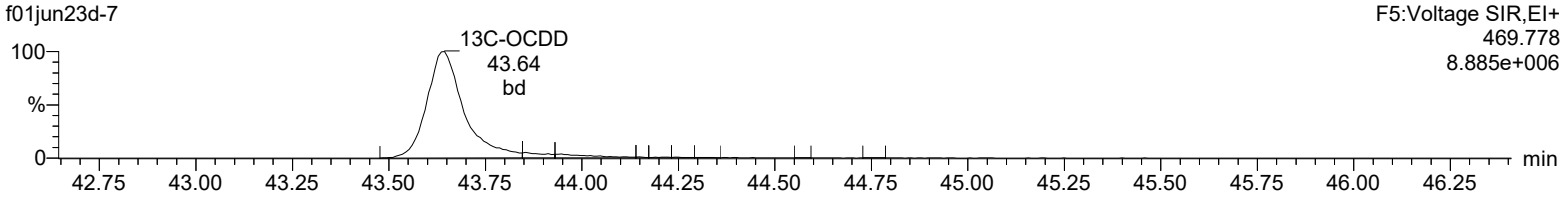
OCDD



OCDD



13C-OCDD



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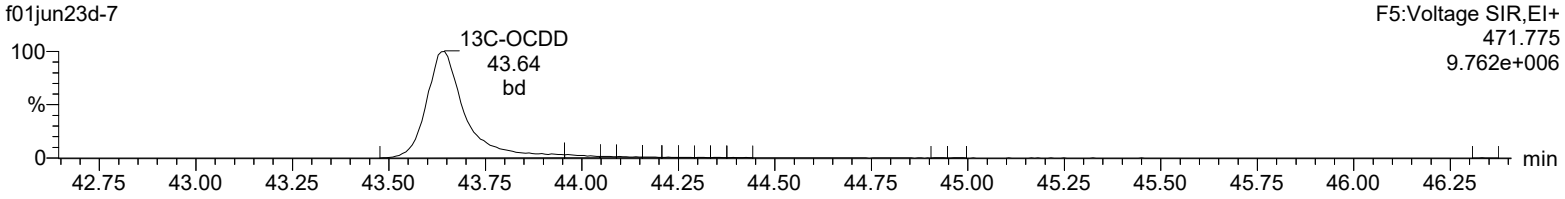
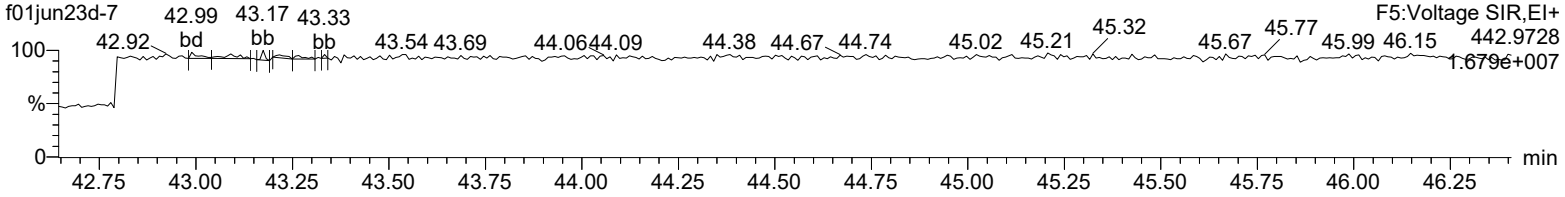


Lock Mass F5



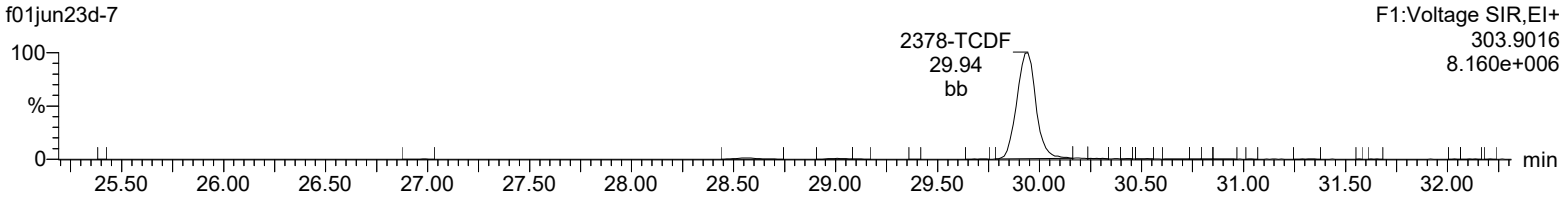
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

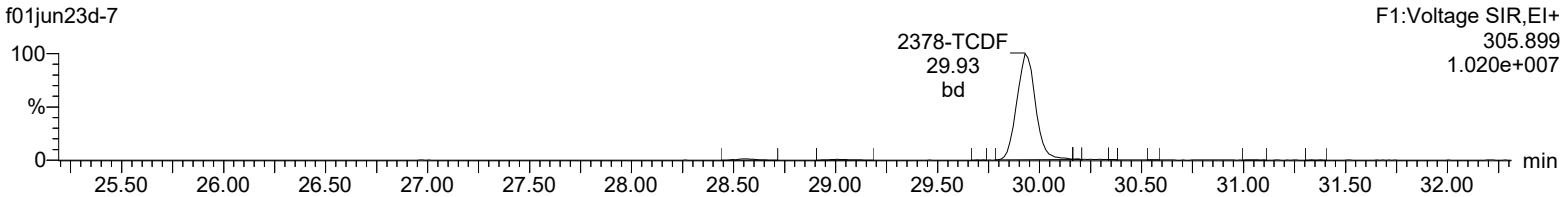
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

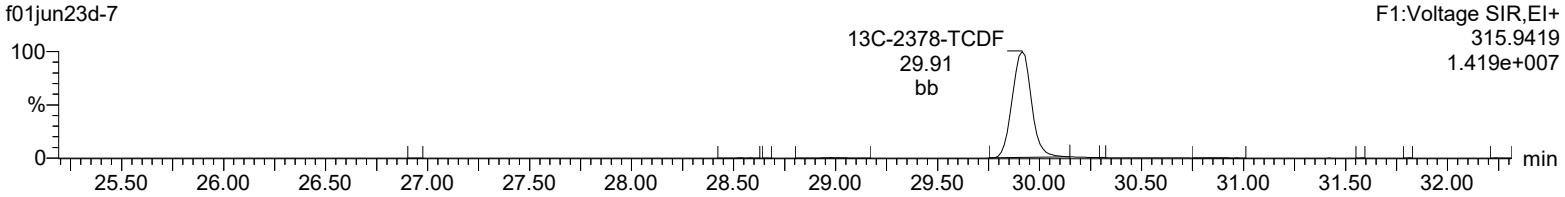
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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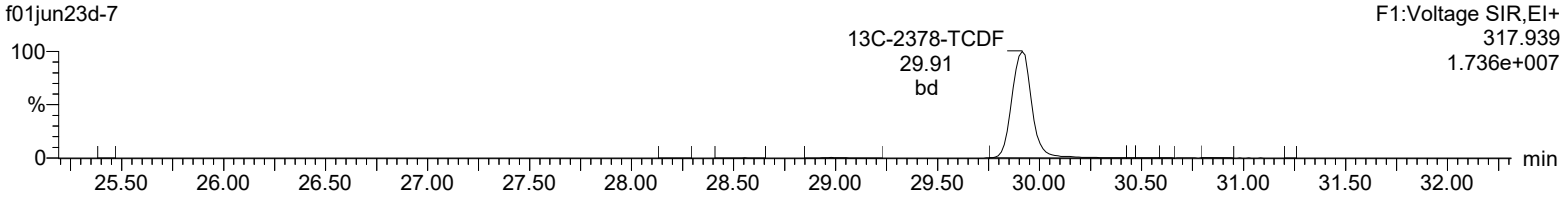
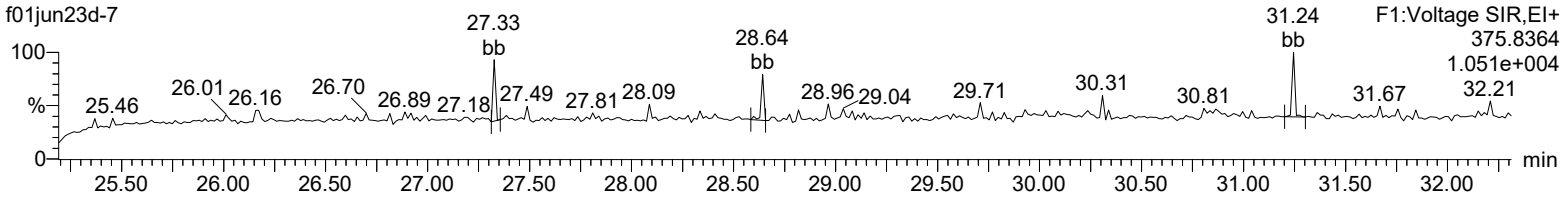
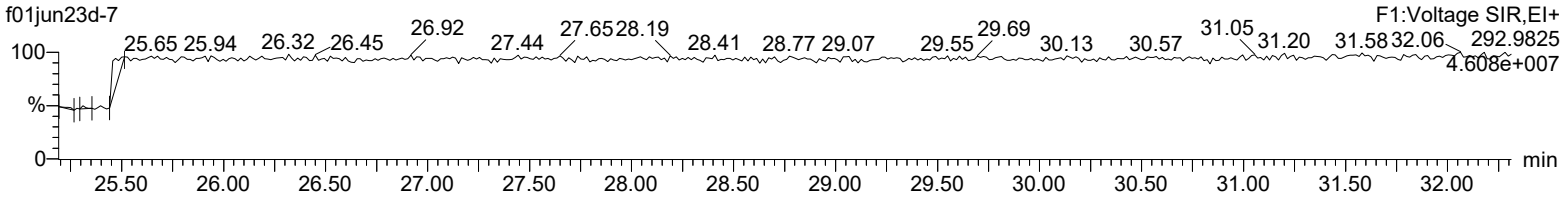


HxDPE



Lock Mass F1



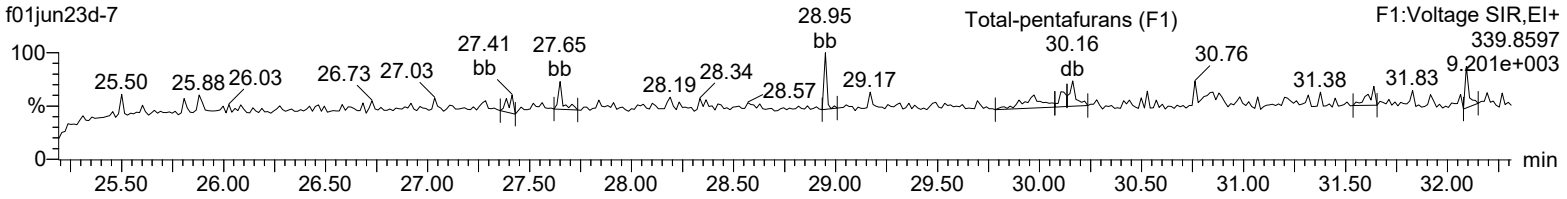
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

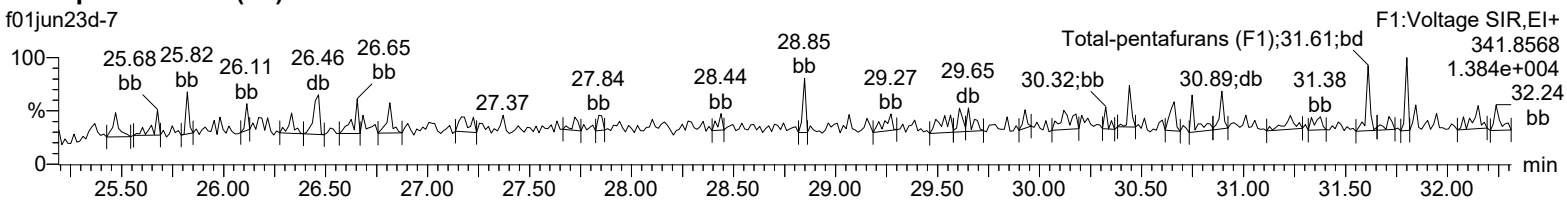
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

Total-pentafurans (F1)



Total-pentafurans (F1)



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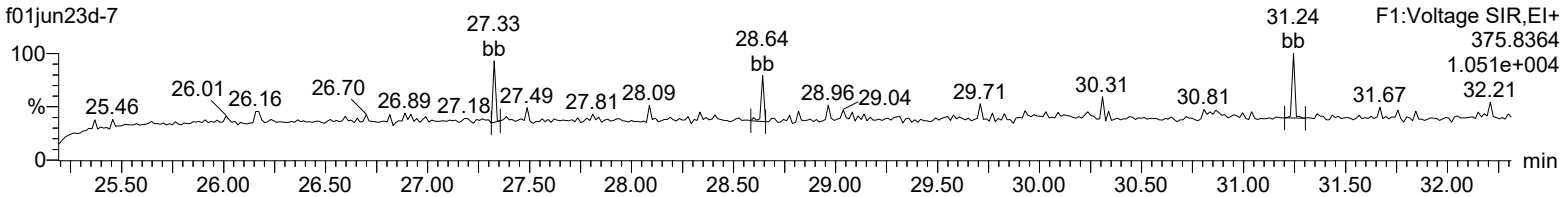
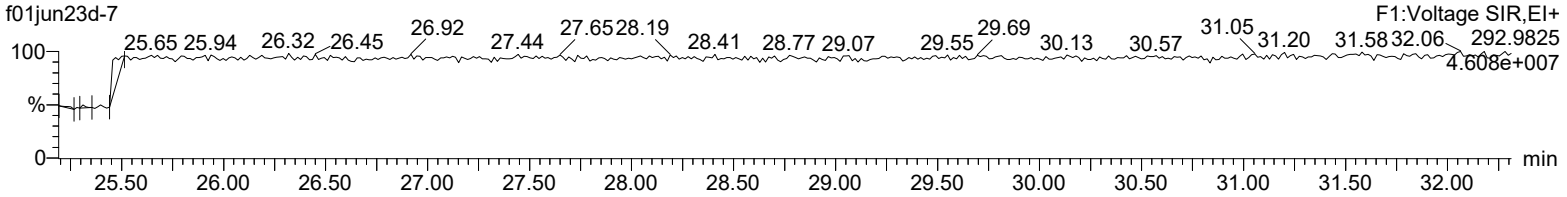


Lock Mass F1



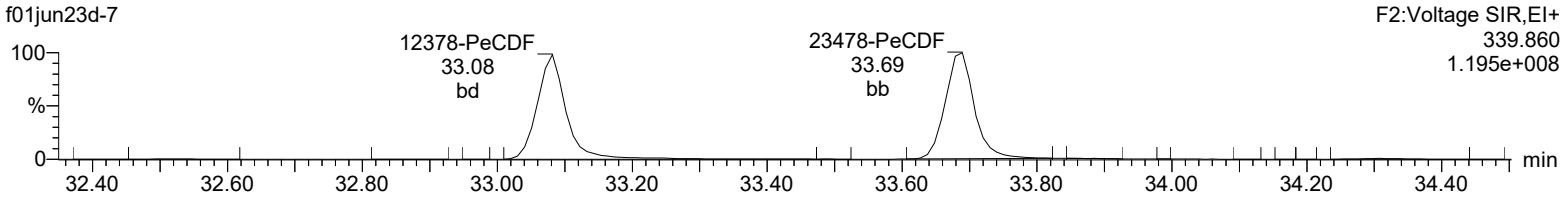
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

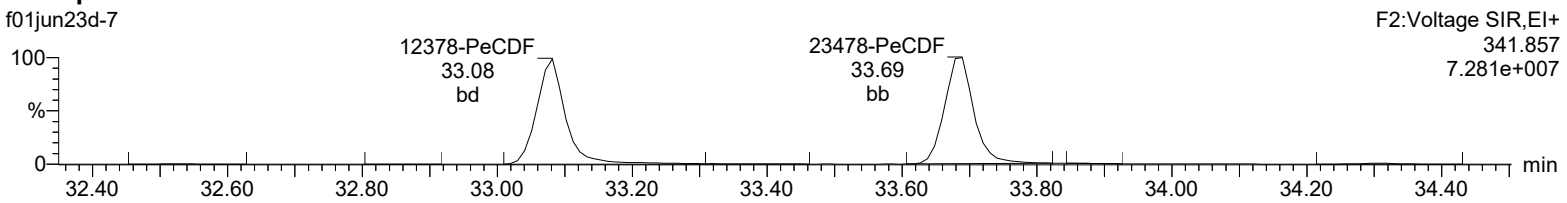
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

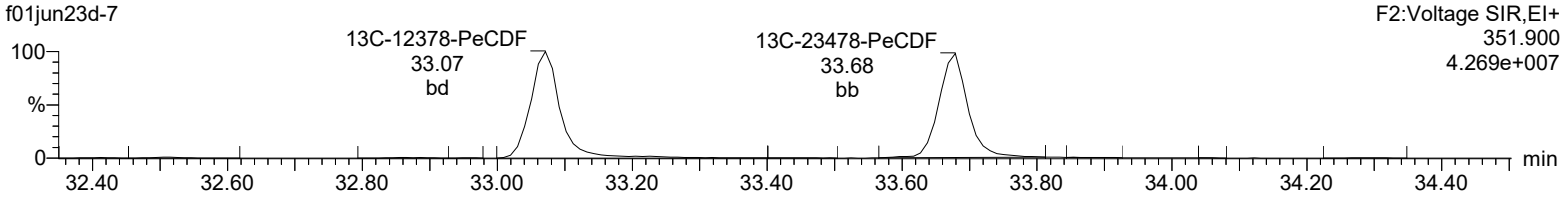
Total-pentafurans



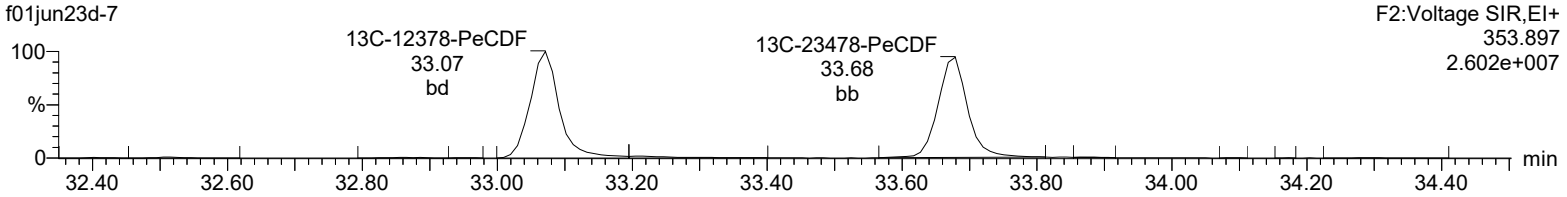
Total-pentafurans



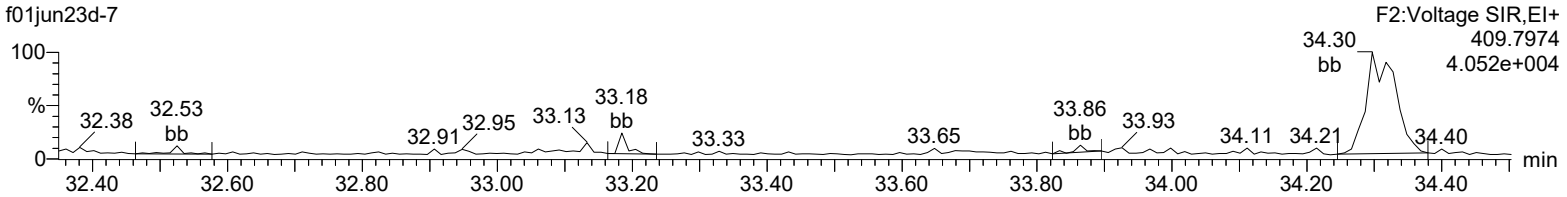
13C-12378-PeCDF



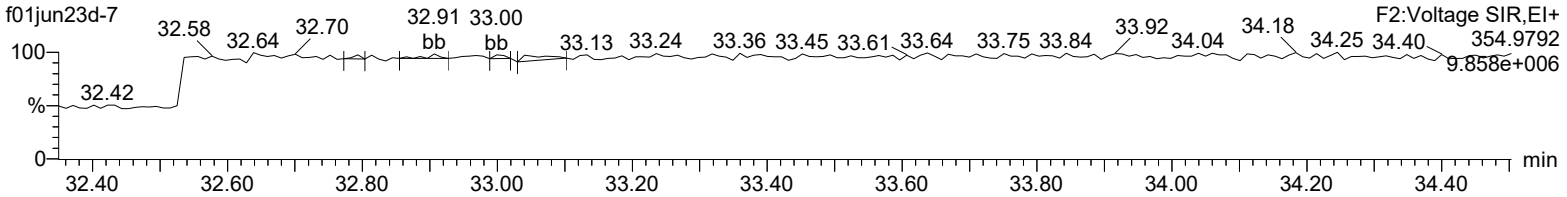
13C-12378-PeCDF



HpDPE



Lock Mass F2



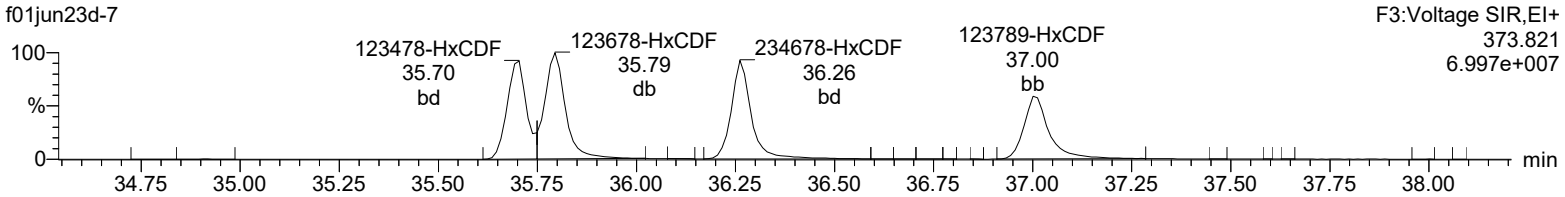
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

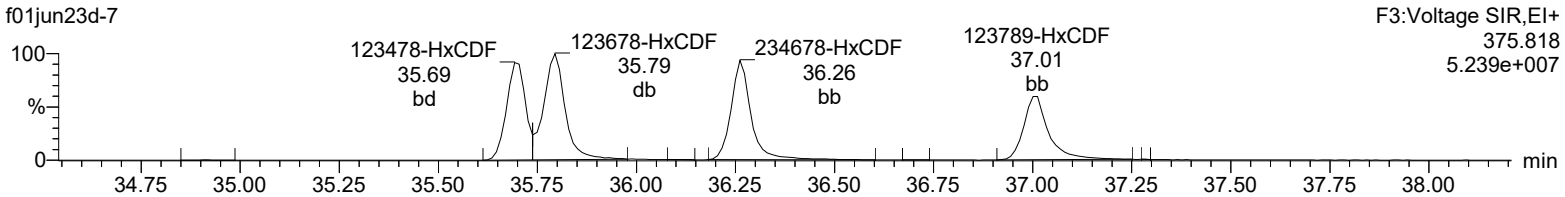
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

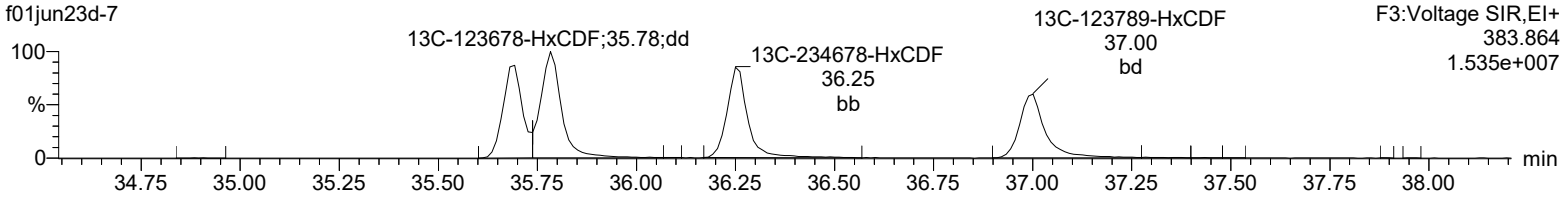
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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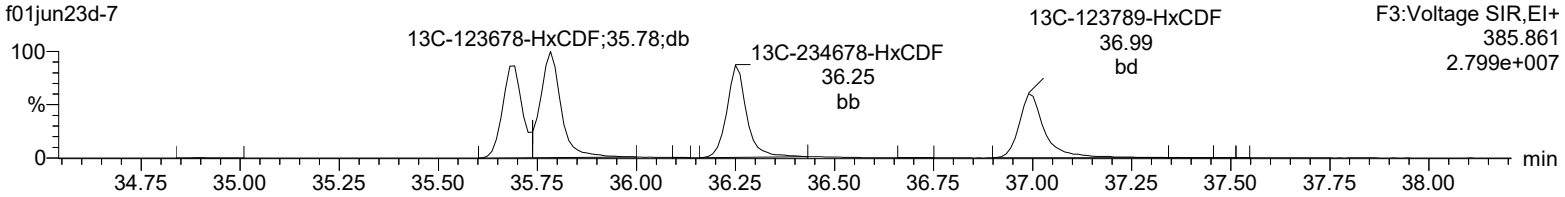

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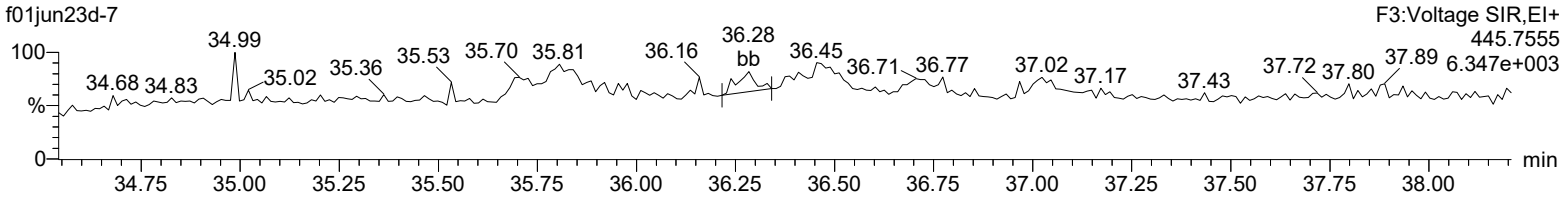
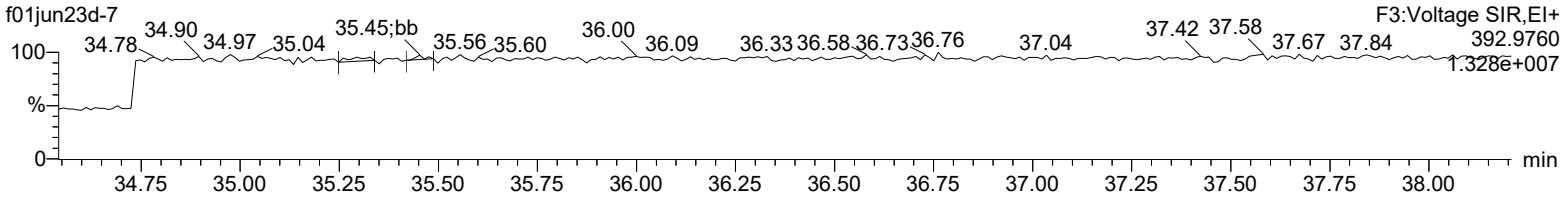


Lock Mass F3



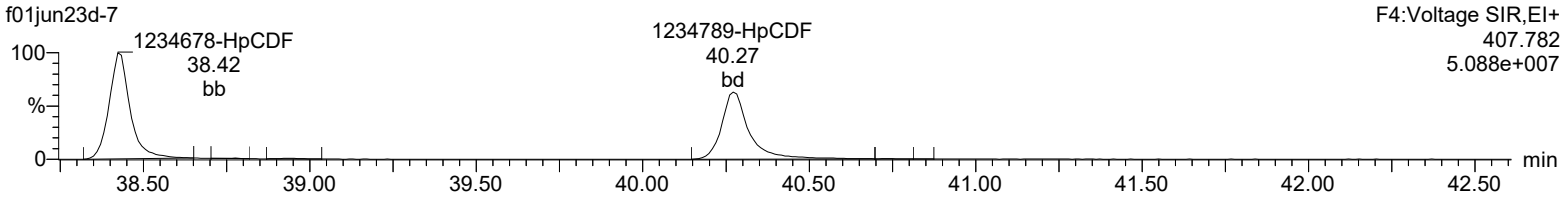
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

Total-heptafurans



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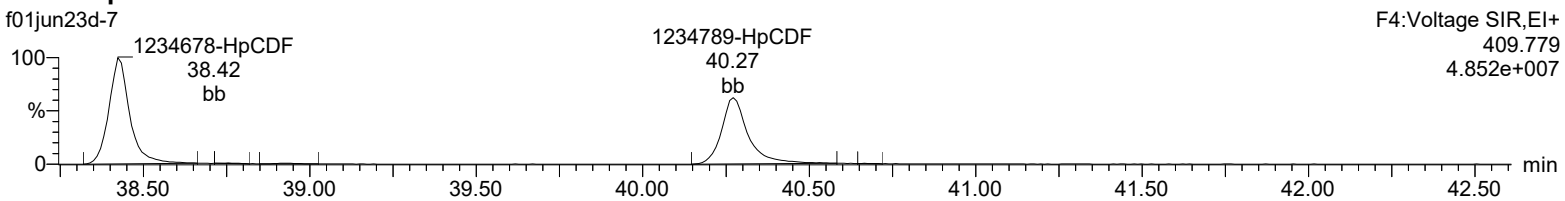
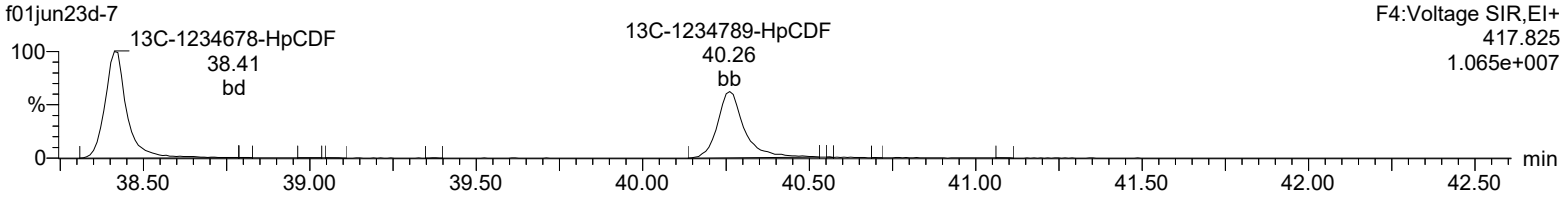


13C-1234678-HpCDF



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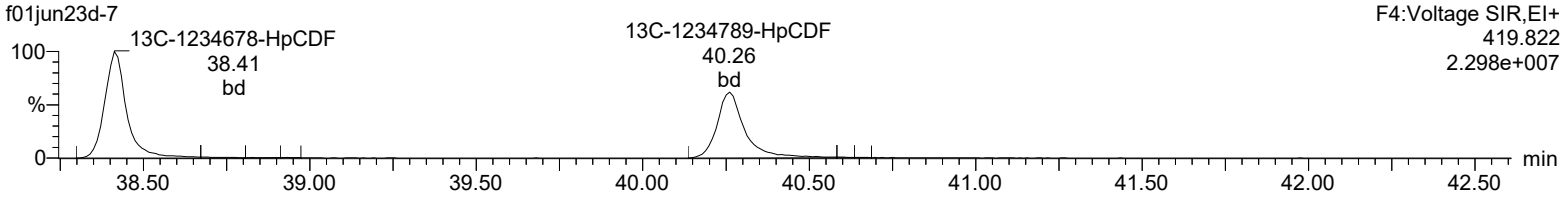

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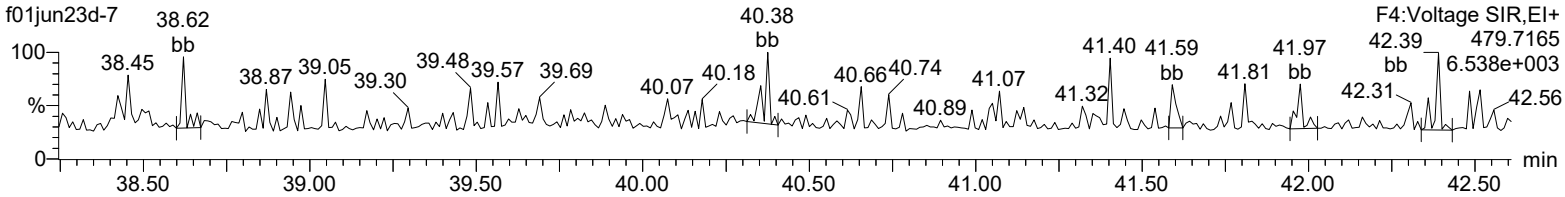
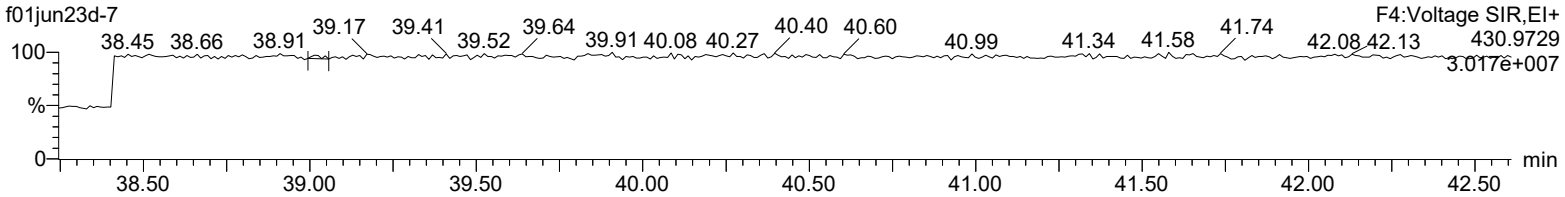


Lock Mass F4



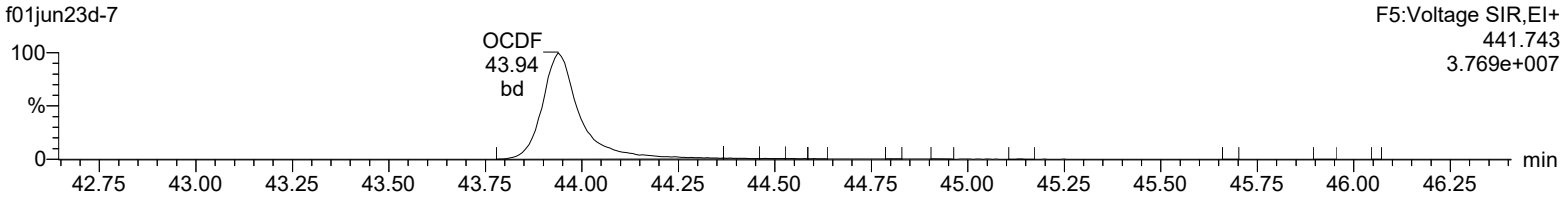
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

OCDF



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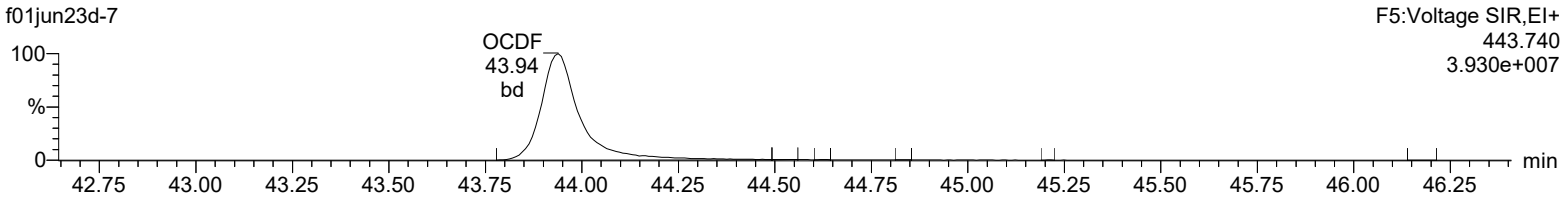
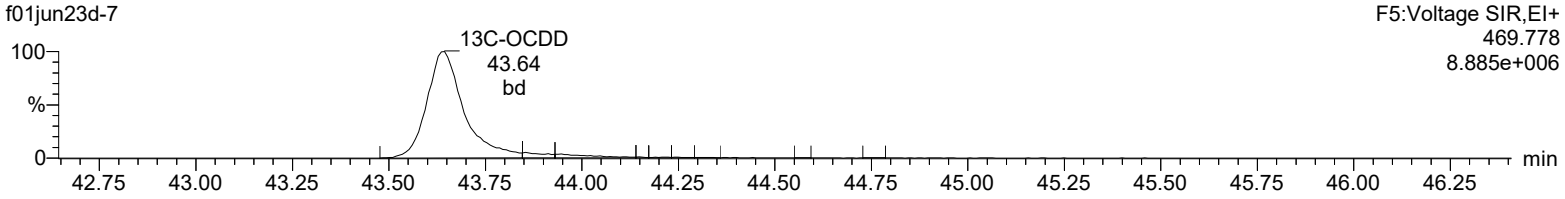


13C-OCDD



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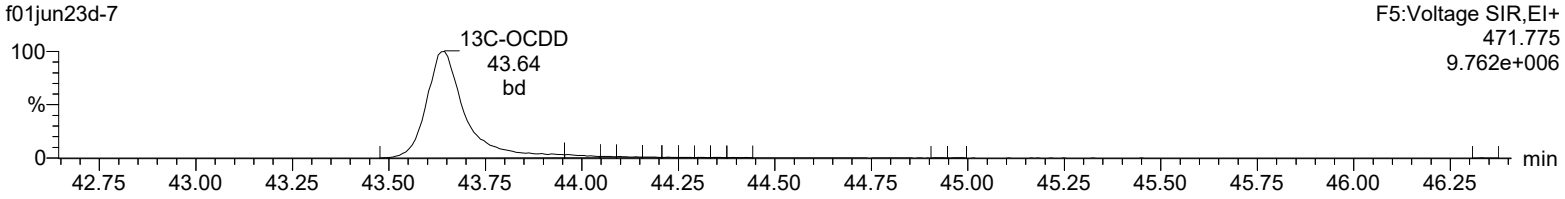
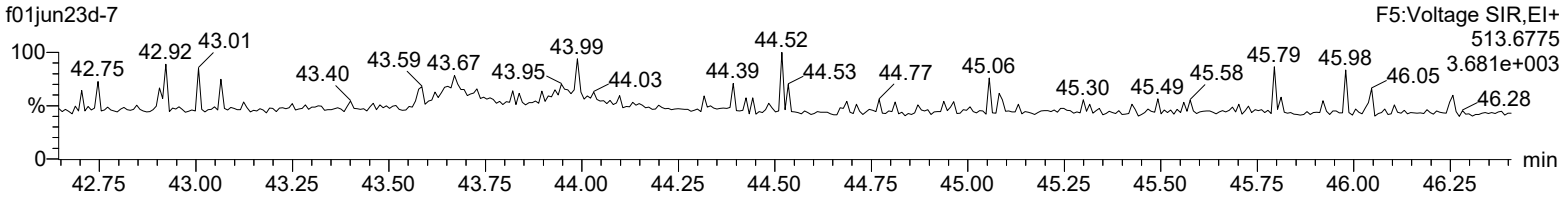
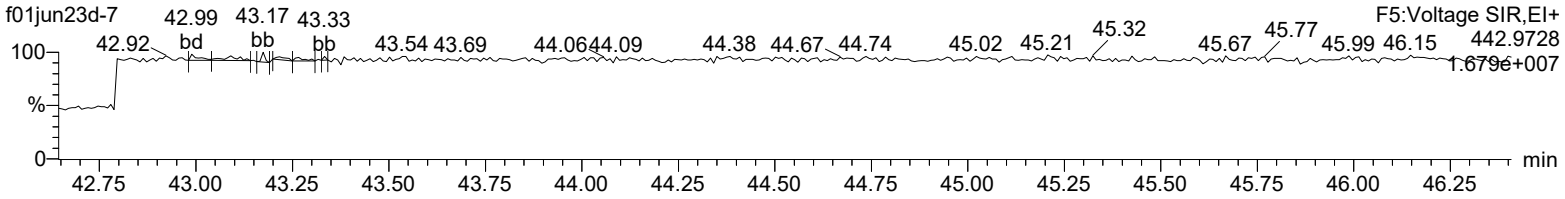


DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.90e6	3.58e6	6.48e6	30.82	1.000	0.81	NO	211.450	1.163	1.100	5.89	0.0788	3.55e7	7018	5061.3	4.45e7	2865	15523.4	bb	bb
2	12378-PeCDD	1.56e7	9.71e6	2.53e7	33.86	1.000	1.61	NO	1028.146	1.197	1.164	4.32	0.240	3.43e8	19365	17727.0	2.11e8	23323	9048.2	bb	bb
3	123478-HxCDD	1.16e7	9.05e6	2.07e7	36.39	1.000	1.28	NO	1037.193	1.112	1.073	4.27	0.336	2.16e8	22125	9746.4	1.68e8	18210	9217.4	bd	bd
4	123678-HxCDD	1.36e7	1.06e7	2.42e7	36.47	1.000	1.28	NO	1052.031	1.120	1.064	5.73	0.316	2.28e8	22125	10284.7	1.79e8	18210	9830.0	dd	dd
5	123789-HxCDD	1.27e7	9.94e6	2.27e7	36.69	1.007	1.28	NO	1057.720	1.128	1.066	6.89	0.326	2.05e8	22125	9256.6	1.61e8	18210	8821.9	dd	dd
6	1234678-HpCDD	1.15e7	1.05e7	2.20e7	39.63	1.000	1.09	NO	1042.965	1.281	1.228	7.21	0.832	1.56e8	41168	3779.4	1.42e8	33961	4179.9	bb	bb
7	OCDD	1.65e7	1.78e7	3.43e7	43.66	1.000	0.92	NO	2107.450	1.167	1.107	6.02	0.986	1.65e8	26864	6125.3	1.78e8	25879	6862.7	bd	bd
8	2378-TCDF	5.35e6	6.50e6	1.18e7	29.91	1.000	0.82	NO	211.795	1.432	1.352	4.83	0.123	5.40e7	11795	4582.3	6.59e7	11684	5638.7	bb	bb
9	12378-PeCDF	3.73e7	2.28e7	6.00e7	33.07	1.000	1.64	NO	1097.924	1.399	1.274	6.94	0.347	7.91e8	77219	10245.2	4.83e8	59248	8154.7	bd	bb
10	23478-PeCDF	3.83e7	2.34e7	6.17e7	33.68	1.000	1.63	NO	1037.829	1.447	1.394	4.15	0.314	8.17e8	77219	10574.5	5.03e8	59248	8490.1	bb	bb
11	123478-HxCDF	2.39e7	1.82e7	4.20e7	35.69	1.000	1.31	NO	1055.767	1.497	1.418	4.11	0.317	4.61e8	48330	9536.7	3.51e8	34375	10204.7	bd	bd
12	123678-HxCDF	2.66e7	2.02e7	4.69e7	35.78	1.000	1.32	NO	1039.777	1.433	1.378	4.15	0.317	4.80e8	48330	9931.0	3.70e8	34375	10771.1	db	db
13	234678-HxCDF	2.46e7	1.85e7	4.31e7	36.26	1.000	1.33	NO	1062.737	1.511	1.422	5.96	0.361	4.24e8	48330	8765.5	3.18e8	34375	9257.0	bd	bd
14	123789-HxCDF	2.01e7	1.53e7	3.53e7	37.00	1.000	1.32	NO	1070.509	1.394	1.302	5.43	0.489	3.13e8	48330	6468.9	2.39e8	34375	6951.1	bb	bb
15	1234678-HpCDF	2.41e7	2.26e7	4.67e7	38.42	1.000	1.07	NO	1060.446	1.468	1.384	4.56	0.625	3.66e8	73371	4988.6	3.40e8	63822	5323.3	bb	bb
16	1234789-HpCDF	1.96e7	1.81e7	3.77e7	40.26	1.000	1.09	NO	1077.434	1.469	1.364	8.52	0.952	2.45e8	73371	3335.8	2.26e8	63822	3534.1	bb	bb
17	OCDF	2.93e7	3.14e7	6.07e7	43.95	1.007	0.94	NO	2356.775	2.065	1.752	16.82	0.836	3.06e8	30372	10059.4	3.26e8	40358	8088.1	bb	bb
18	13C-2378-TCDD	1.24e6	1.55e6	2.79e6	30.81	1.023	0.80	NO	105.346	1.200	1.139	2.81	0.142	1.52e7	7888	1929.5	1.88e7	4876	3848.0	bb	bb
19	13C-12378-PeCDD	1.30e6	8.16e5	2.11e6	33.85	1.124	1.59	NO	111.887	0.910	0.813	6.11	0.210	2.82e7	7462	3776.1	1.79e7	6079	2949.2	bb	bb
20	13C-123478-HxCDD	1.04e6	8.12e5	1.86e6	36.38	0.992	1.29	NO	104.061	0.882	0.847	3.44	0.156	1.89e7	8114	2329.3	1.44e7	6457	2235.5	bd	bd
21	13C-123678-HxCDD	1.22e6	9.45e5	2.16e6	36.46	0.994	1.29	NO	99.911	1.026	1.027	0.98	0.129	2.02e7	8114	2493.2	1.58e7	6457	2449.5	dd	dd
22	13C-1234678-HpCDD	8.92e5	8.23e5	1.71e6	39.62	1.080	1.08	NO	101.759	0.815	0.800	2.20	0.229	1.15e7	11338	1011.8	1.07e7	8880	1200.2	bd	bb
23	13C-OCDD	1.39e6	1.55e6	2.94e6	43.65	1.190	0.90	NO	213.996	0.698	0.653	4.31	0.308	1.37e7	11985	1146.0	1.51e7	10179	1483.2	bd	bd
24	13C-2378-TCDF	1.85e6	2.29e6	4.14e6	29.90	0.993	0.81	NO	102.632	1.780	1.734	1.52	0.103	1.90e7	7480	2538.7	2.34e7	6690	3500.8	bb	bb
25	13C-12378-PeCDF	2.66e6	1.63e6	4.29e6	33.06	1.098	1.63	NO	107.486	1.847	1.719	3.99	0.338	5.73e7	25484	2249.1	3.44e7	20477	1681.6	bb	bd
26	13C-23478-PeCDF	2.67e6	1.60e6	4.26e6	33.67	1.118	1.67	NO	113.296	1.834	1.619	7.01	0.359	5.84e7	25484	2292.7	3.40e7	20477	1659.8	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.81e6	35.68	0.973	0.54	NO	103.268	1.333	1.291	3.13	0.200	1.93e7	12559	1540.3	3.58e7	15932	2249.2	bd	bd
28	13C-123678-HxCDF	1.15e6	2.12e6	3.27e6	35.77	0.975	0.54	NO	97.206	1.554	1.598	1.73	0.162	2.00e7	12559	1592.7	3.70e7	15932	2325.3	db	db
29	13C-234678-HxCDF	1.01e6	1.85e6	2.86e6	36.25	0.988	0.55	NO	101.389	1.356	1.338	1.29	0.193	1.71e7	12559	1360.8	3.13e7	15932	1965.8	bd	bd
30	13C-123789-HxCDF	9.17e5	1.62e6	2.53e6	36.99	1.008	0.57	NO	101.119	1.203	1.190	2.59	0.217	1.41e7	12559	1122.7	2.53e7	15932	1588.0	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.00e6	2.18e6	3.18e6	38.41	1.047	0.46	NO	98.294	1.511	1.537	2.02	0.157	1.50e7	12453	1203.2	3.26e7	14113	2308.3	bb	bb
32	13C-1234789-HpCDF	8.26e5	1.74e6	2.57e6	40.25	1.097	0.47	NO	101.701	1.219	1.198	2.23	0.201	1.02e7	12453	820.0	2.20e7	14113	1562.2	bb	bb
33	13C-1234-TCDD	1.04e6	1.28e6	2.32e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.161	1.06e7	7888	1346.4	1.34e7	4876	2752.4	bb	bb
34	13C-123789-HxCDD	1.17e6	9.34e5	2.11e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.132	1.84e7	8114	2269.4	1.49e7	6457	2306.3	dd	dd
35	37Cl-2378-TCDD	5.79e6		5.79e6	30.82	1.023			221.675	1.246	1.124	6.42	0.0791	7.15e7	7037	10161.9				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

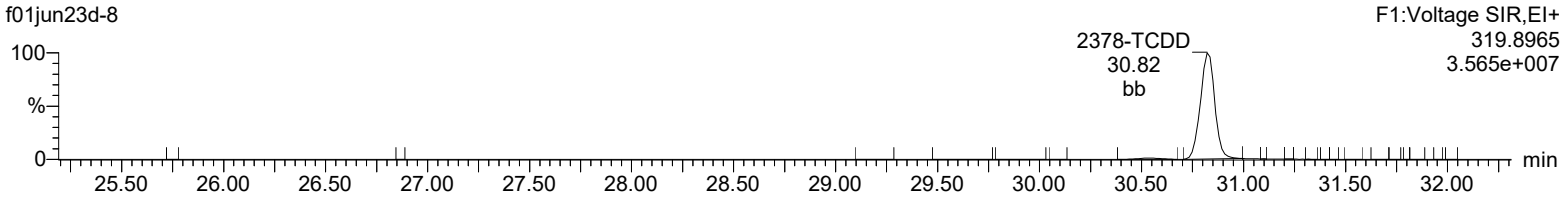
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

06/06/2023

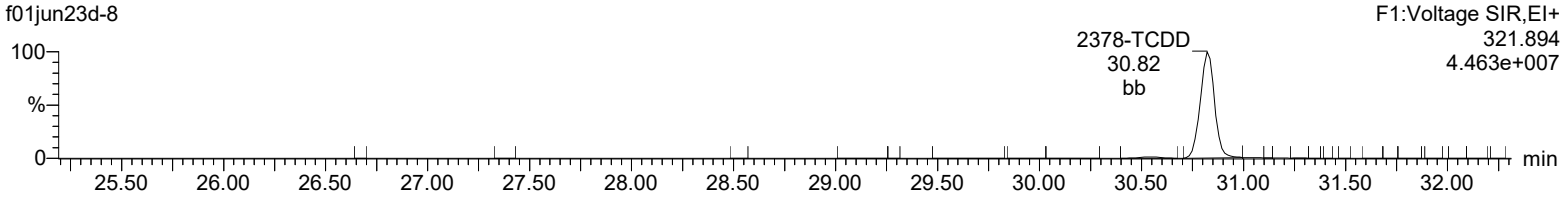
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

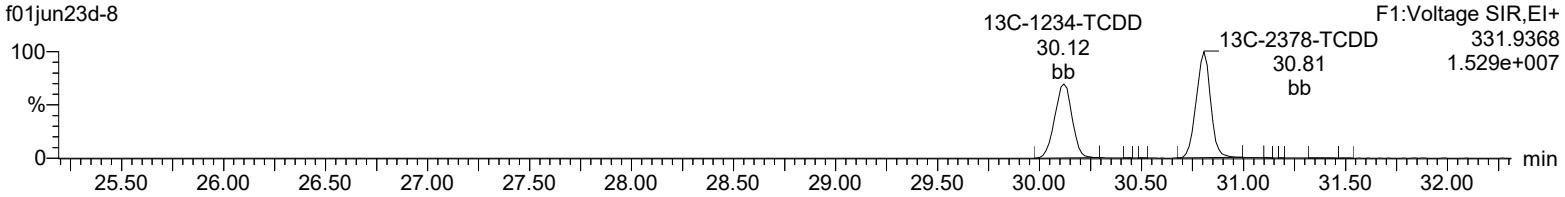
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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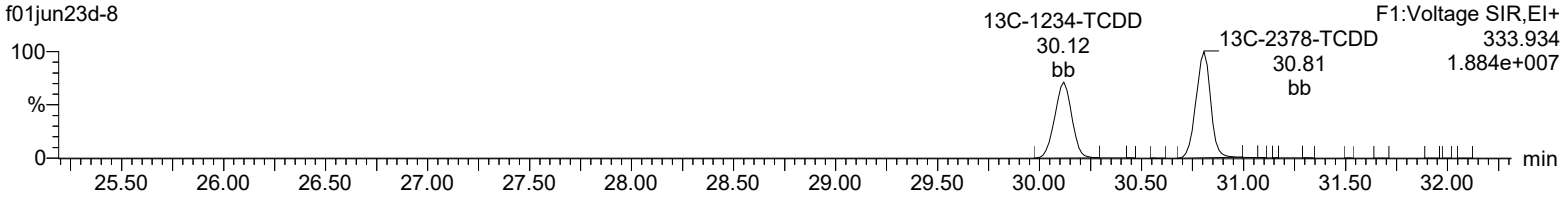
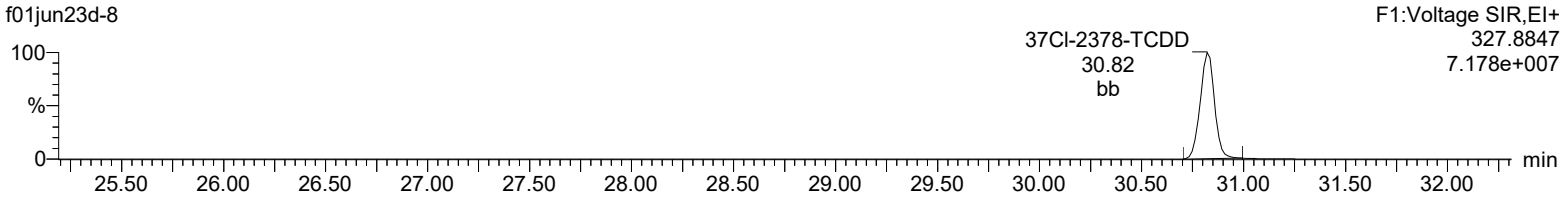
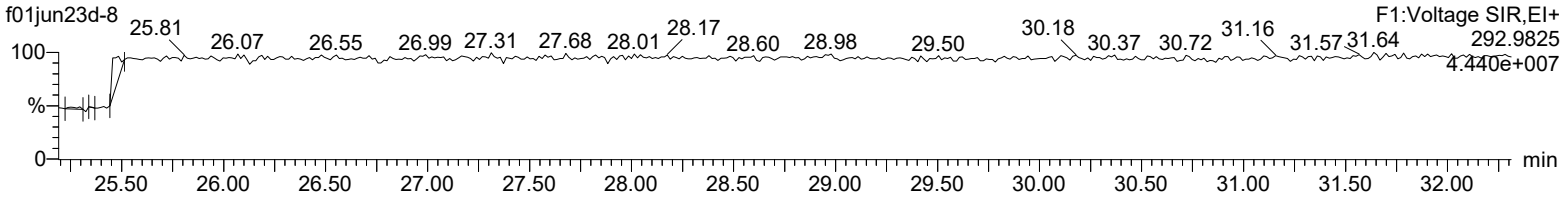


37Cl-2378-TCDD



Lock Mass F1



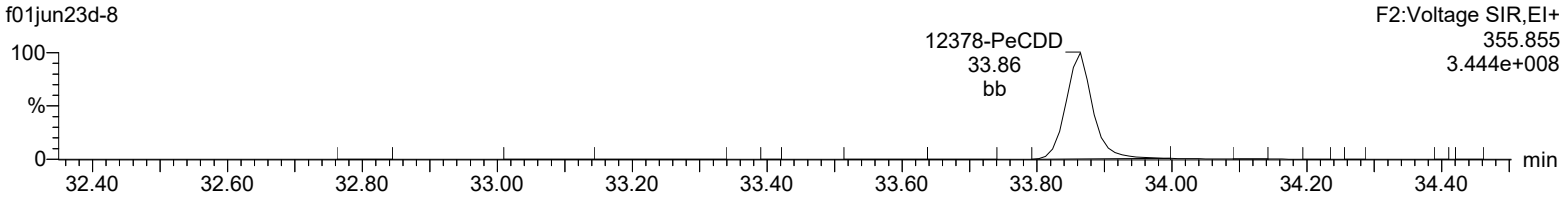
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

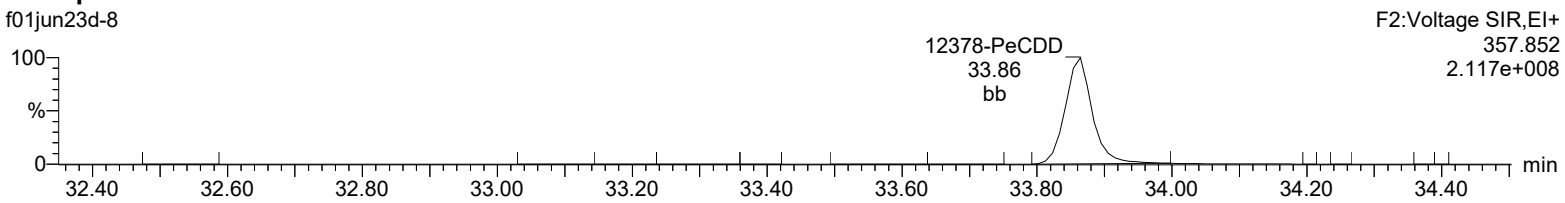
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

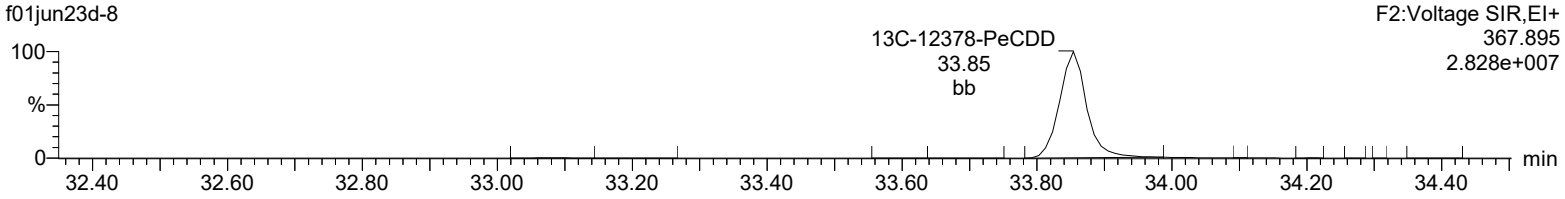
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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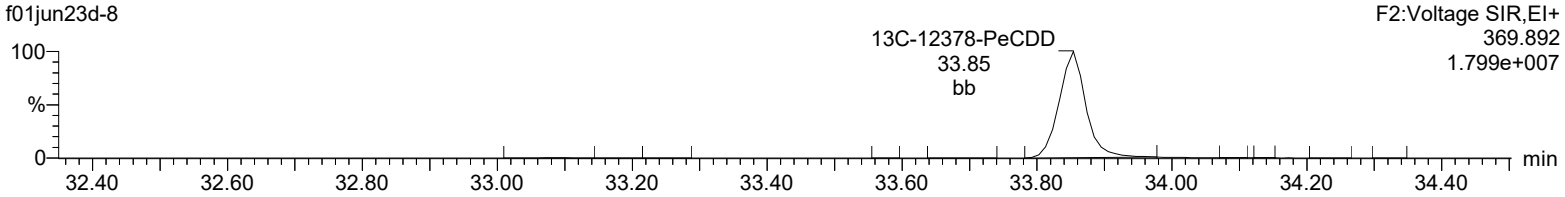
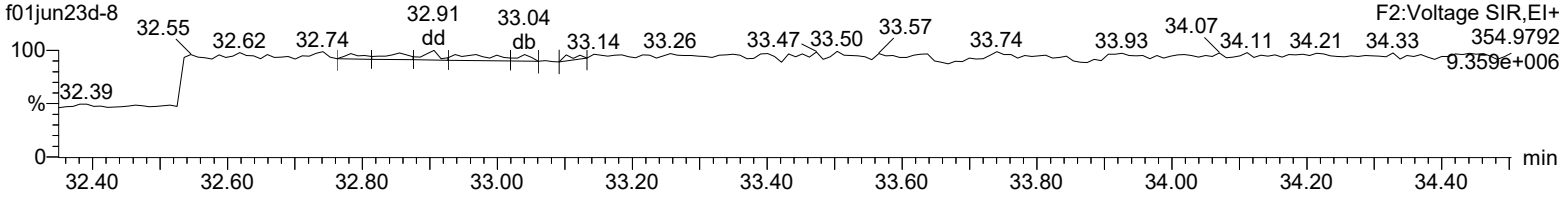


Lock Mass F2



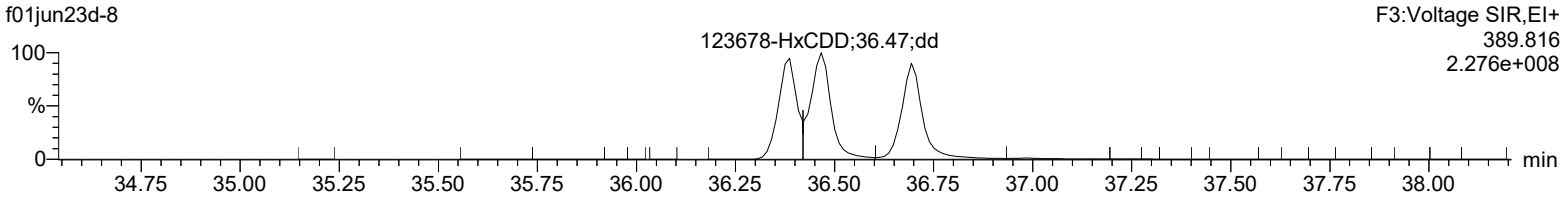
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

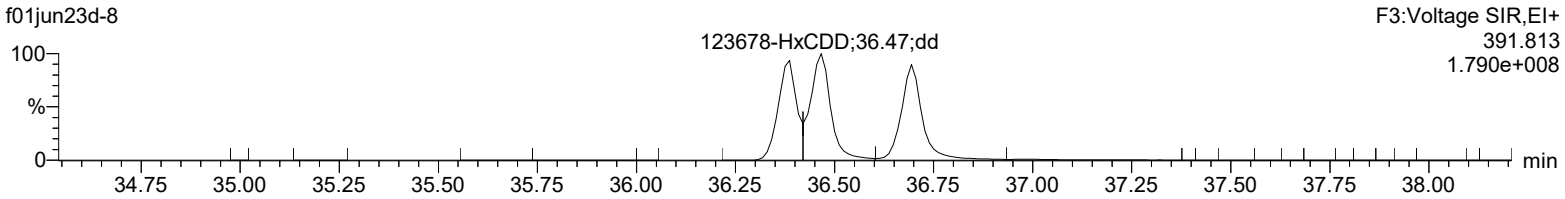
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

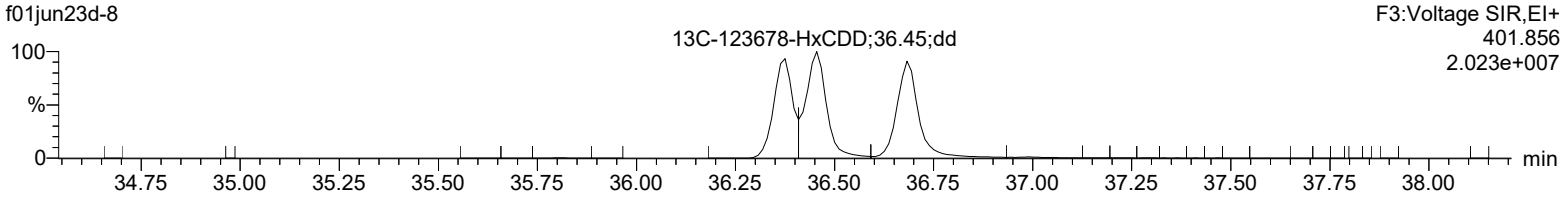
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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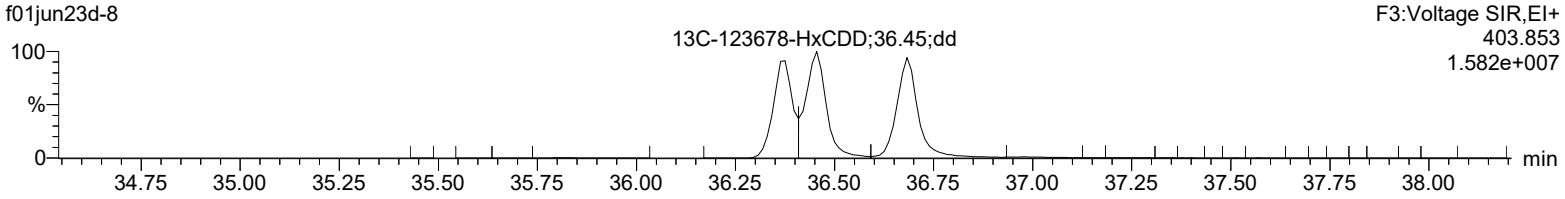
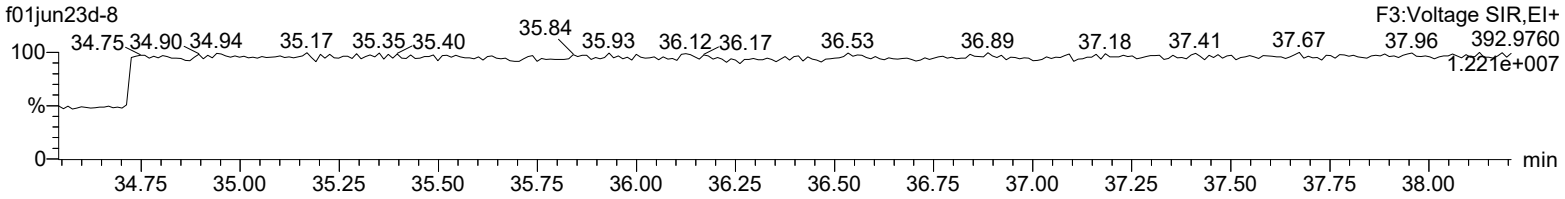


Lock Mass F3



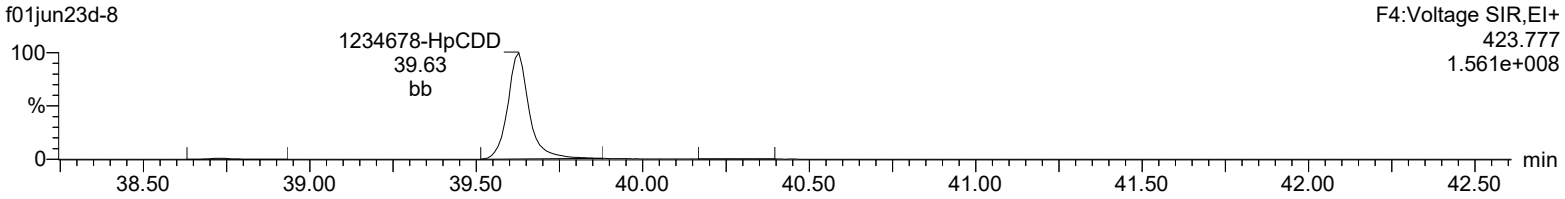
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

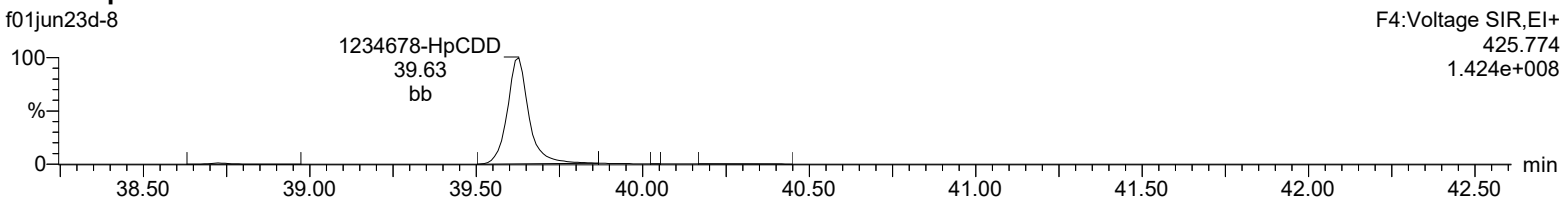
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

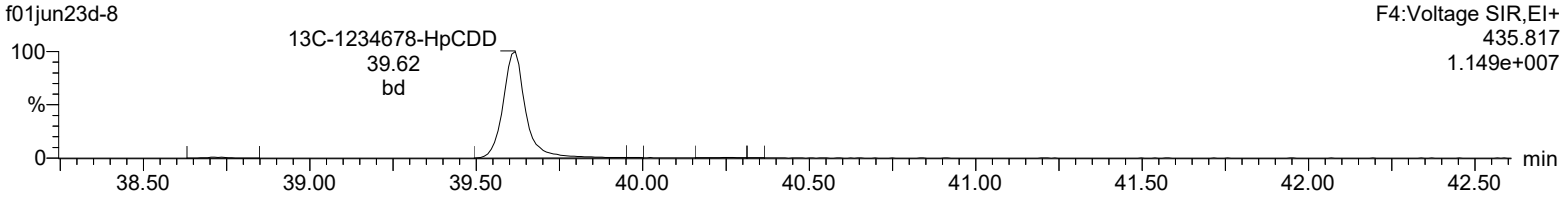
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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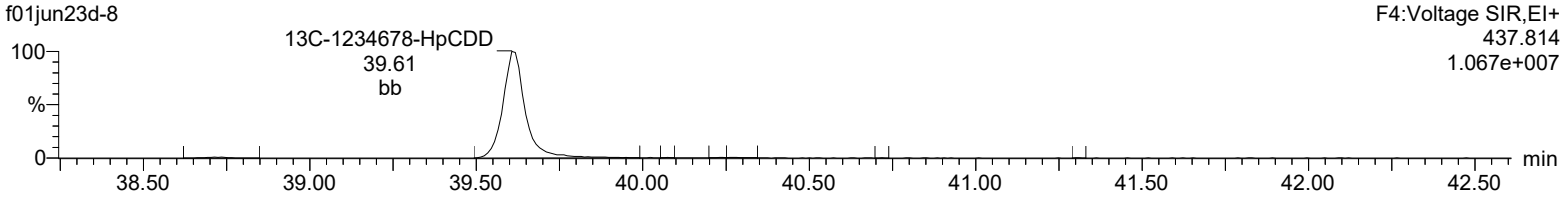
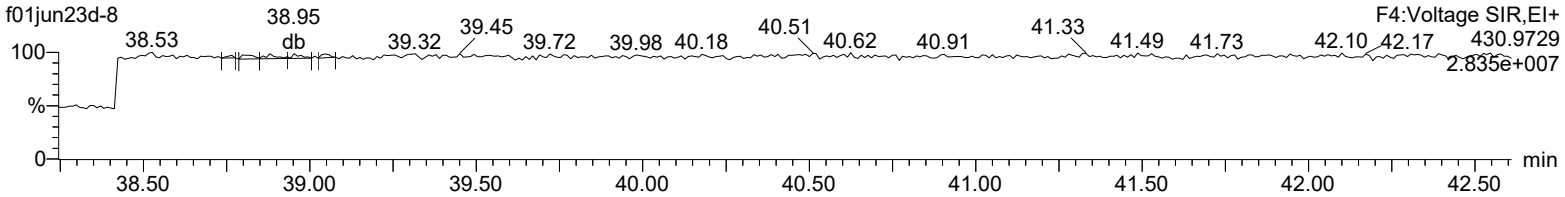


Lock Mass F4



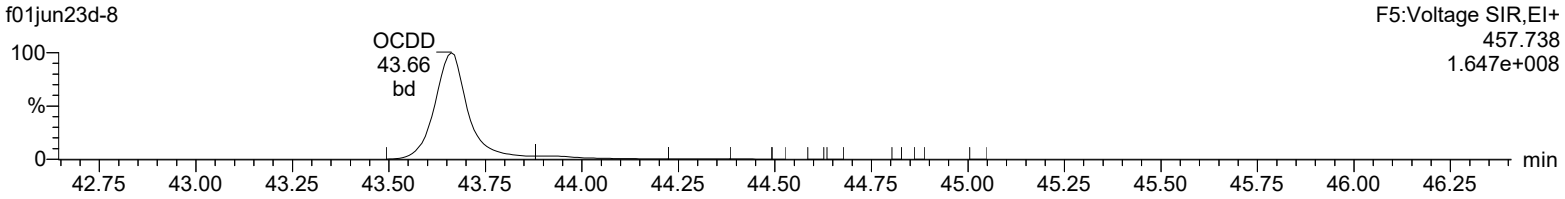
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

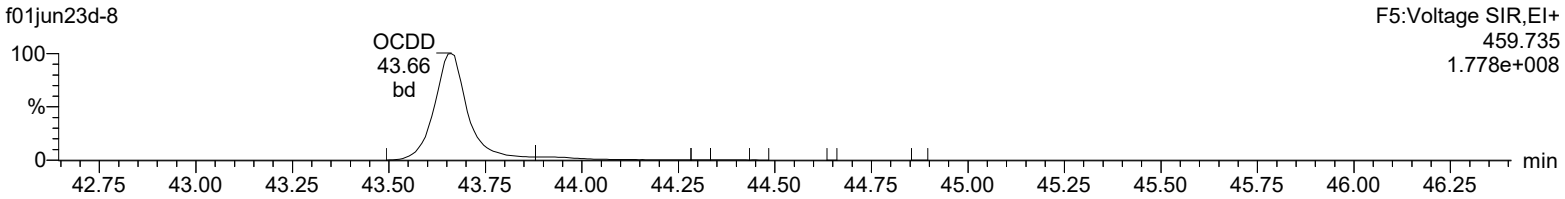
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

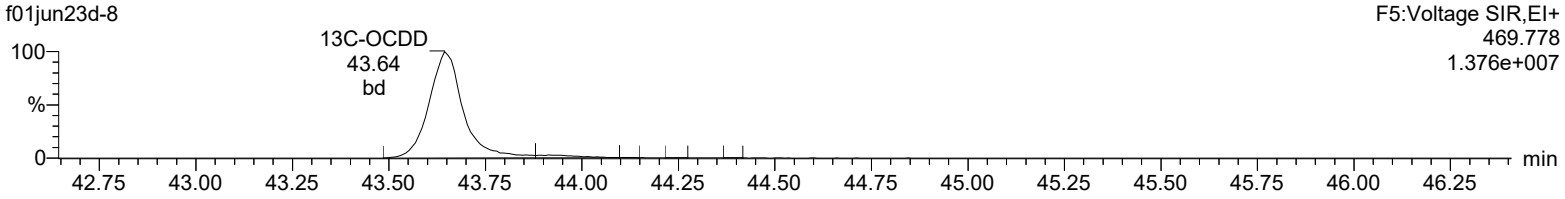
OCDD



OCDD



13C-OCDD



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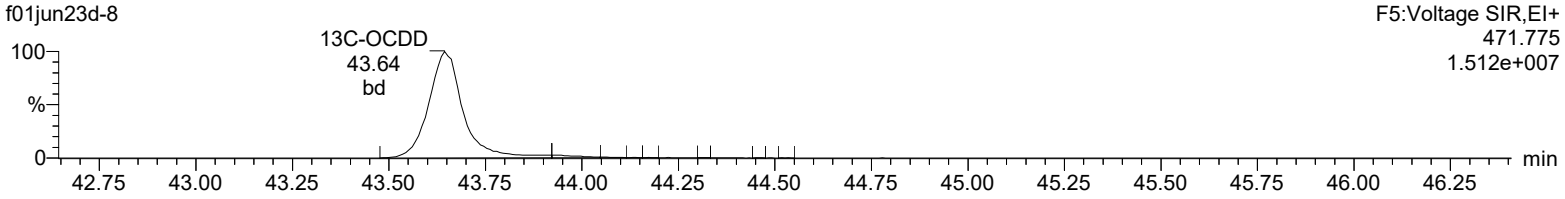
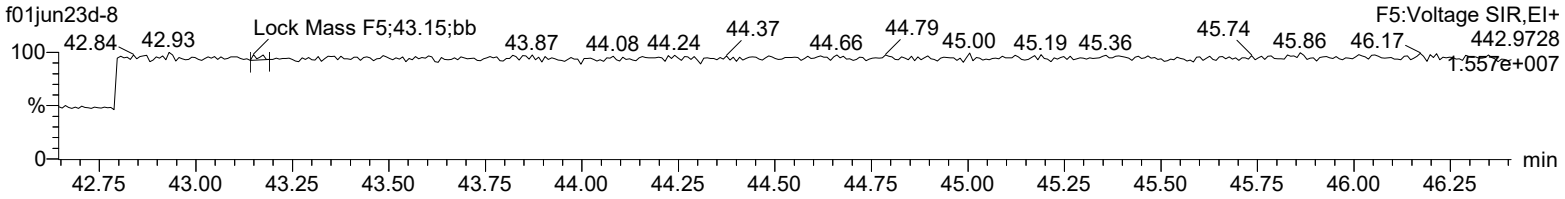


Lock Mass F5



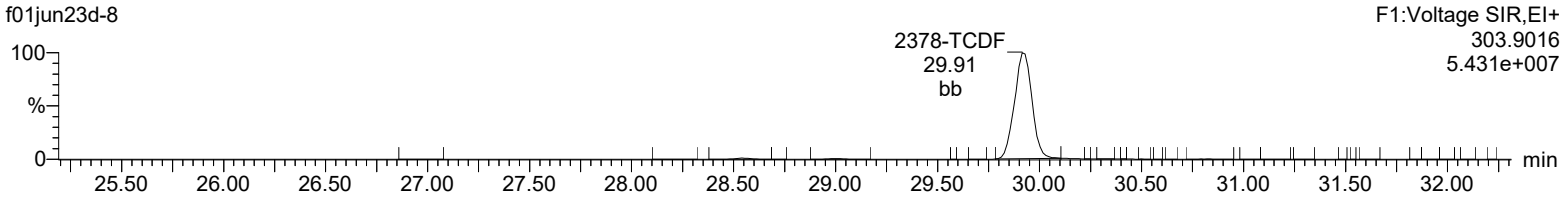
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

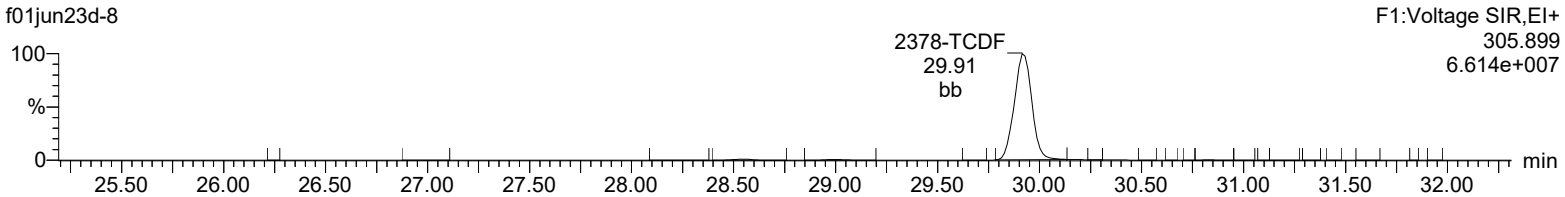
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

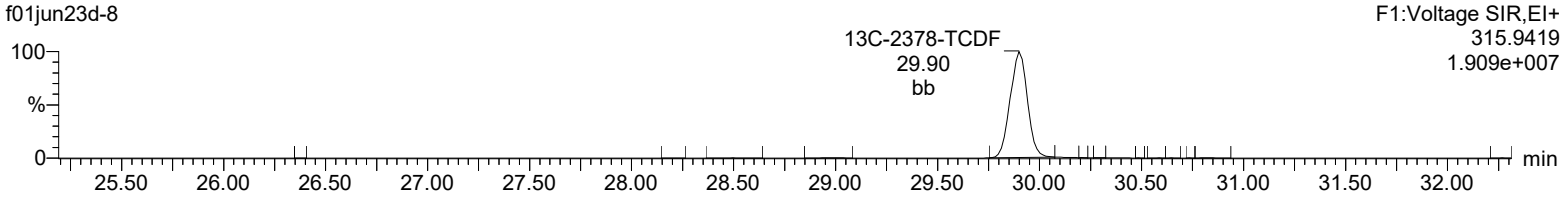
Total-tetrafurans



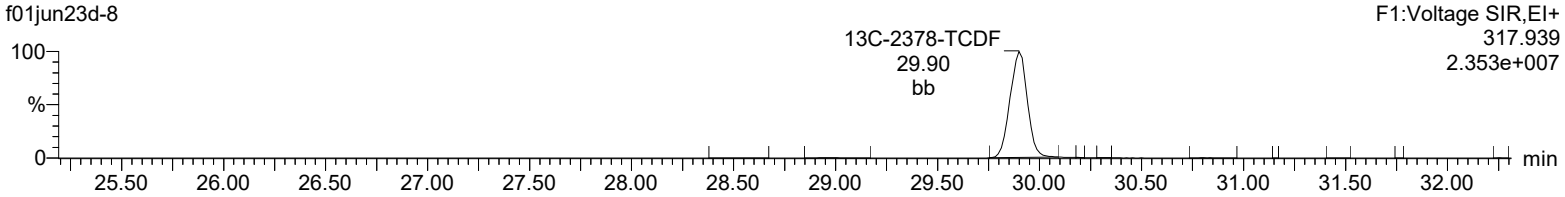
Total-tetrafurans



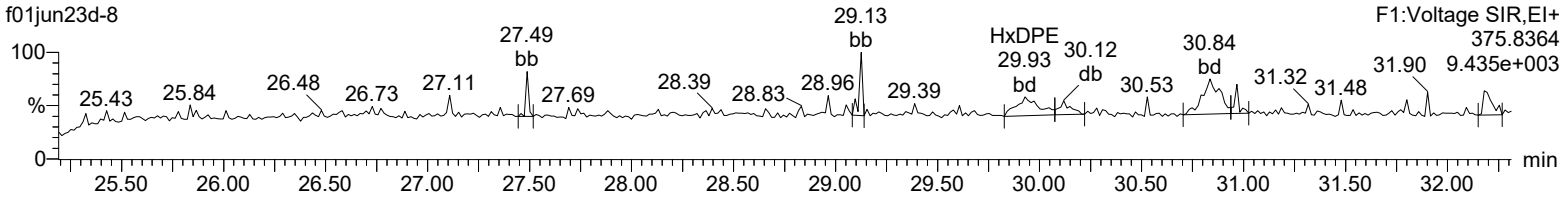
13C-2378-TCDF



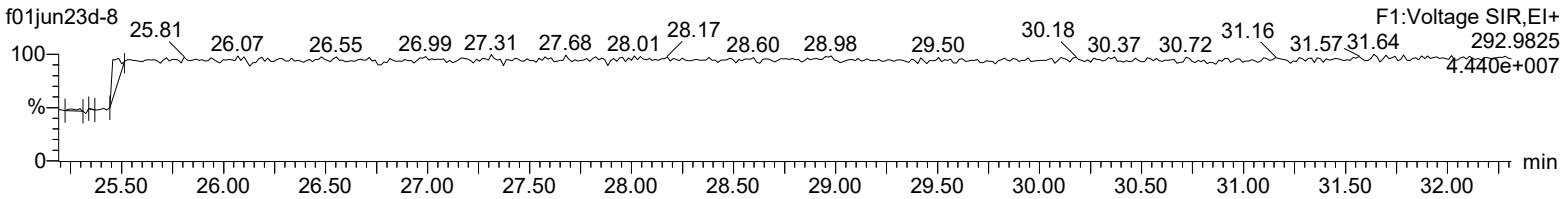
13C-2378-TCDF



HxDPE



Lock Mass F1



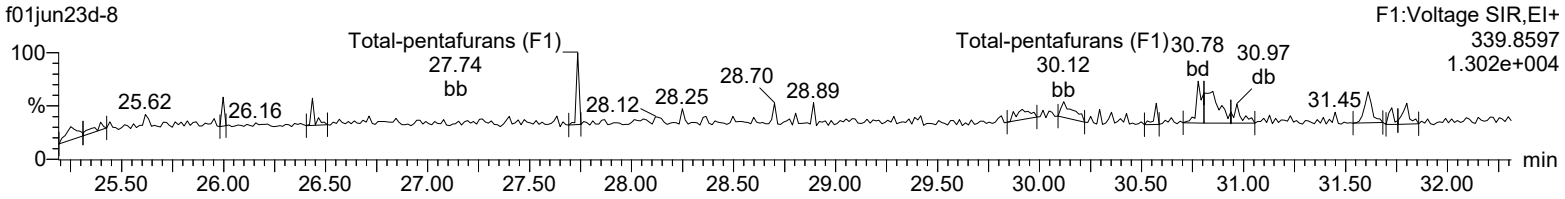
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

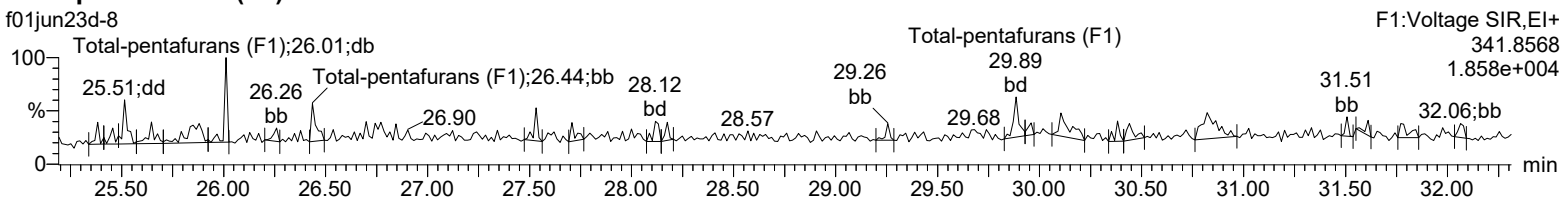
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

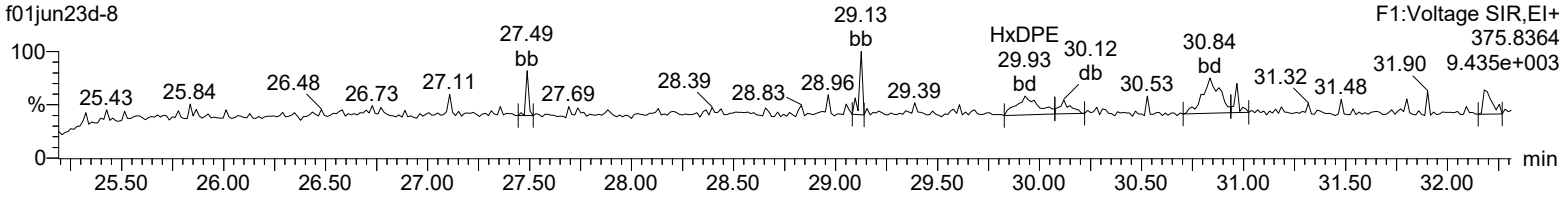
Total-pentafurans (F1)



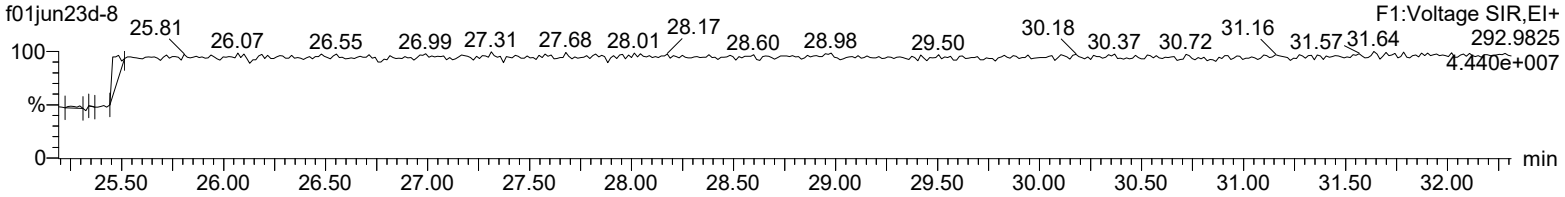
Total-pentafurans (F1)



HxDPE



Lock Mass F1



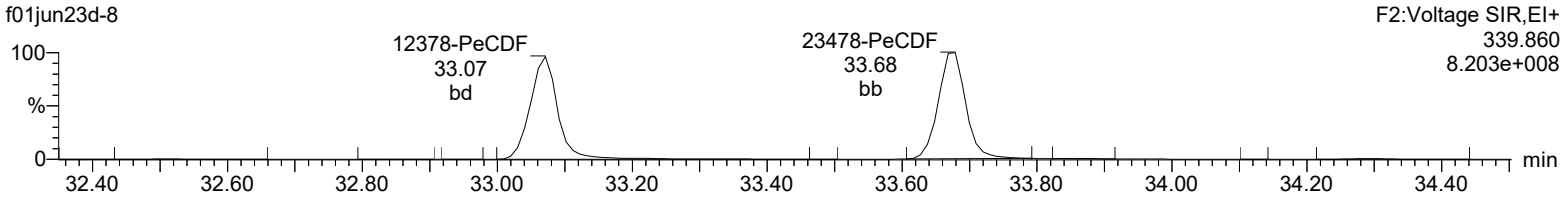
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

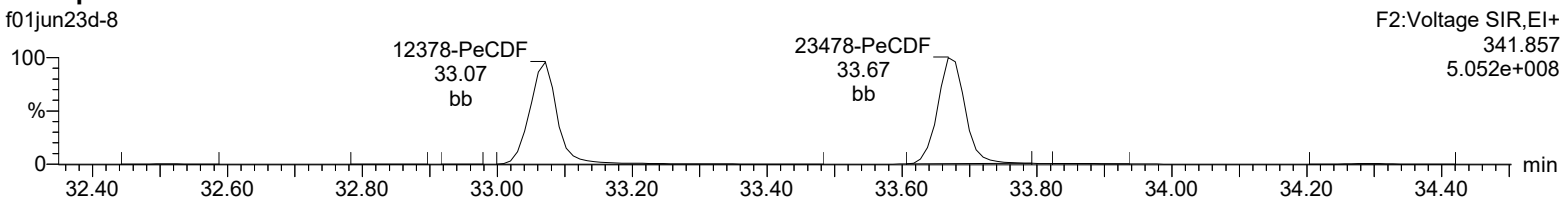
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

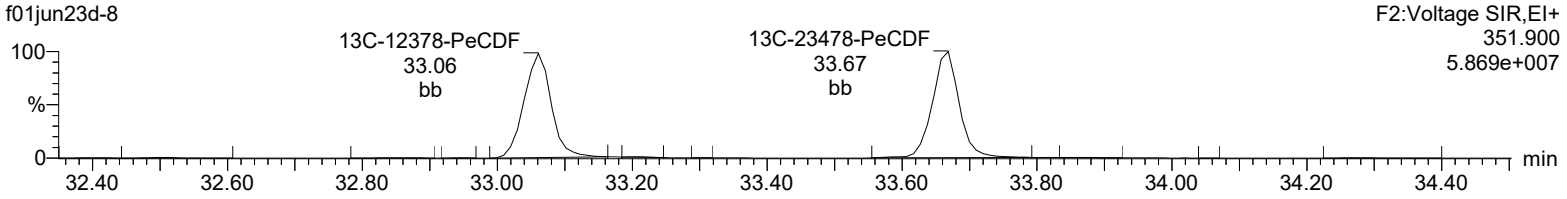
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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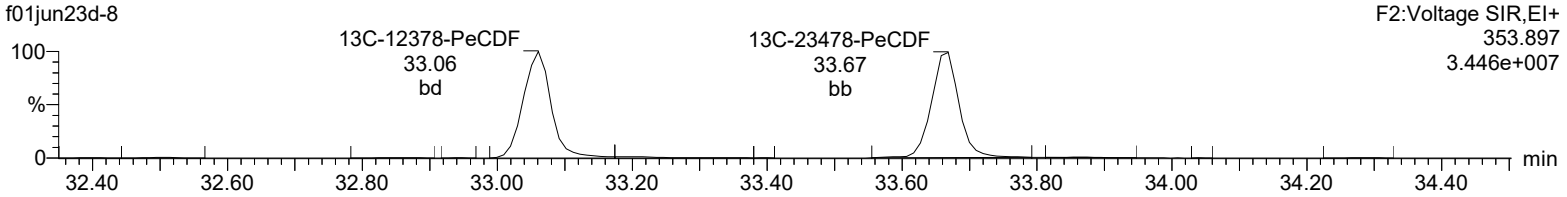

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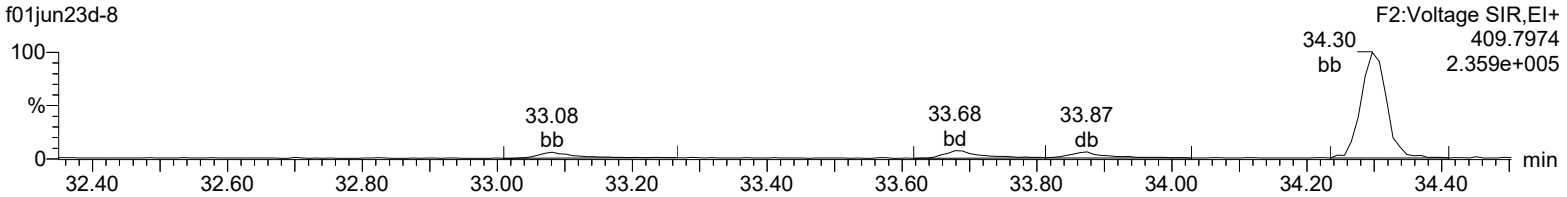
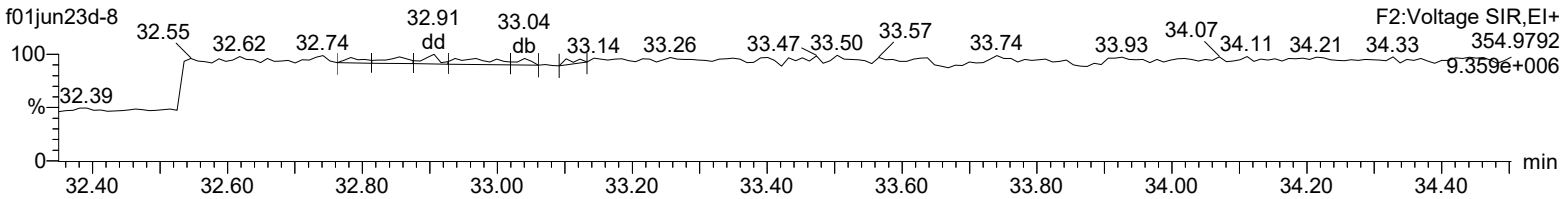


Lock Mass F2



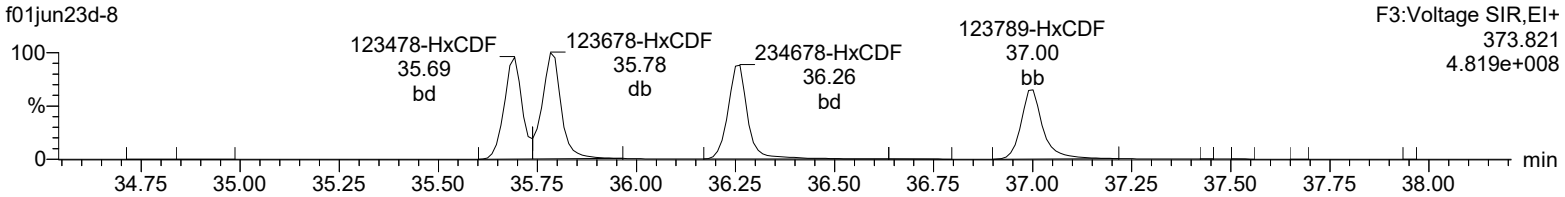
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

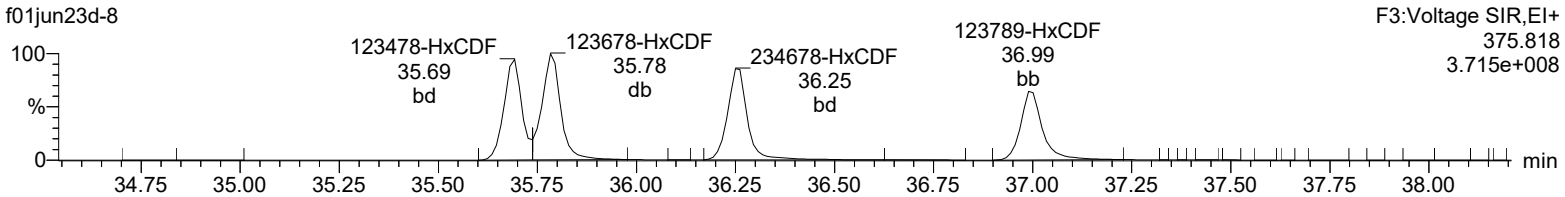
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

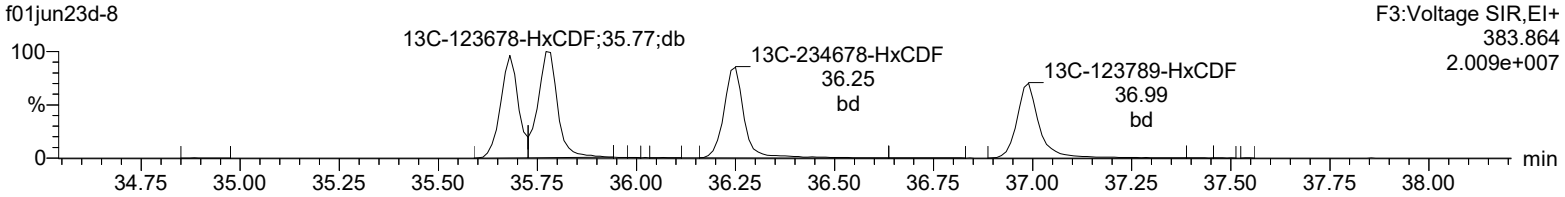
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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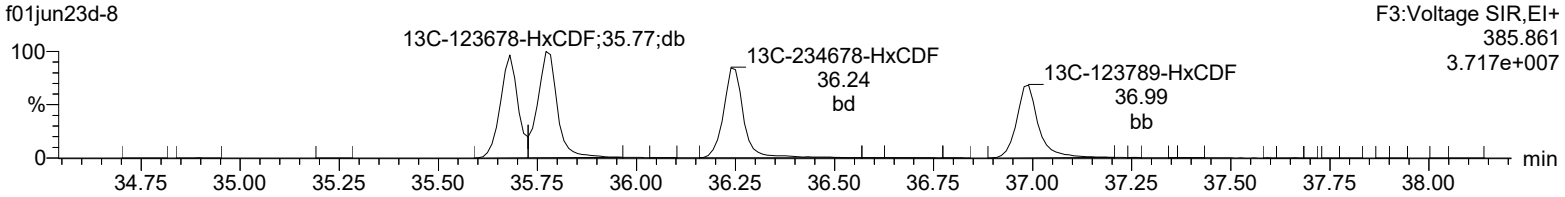
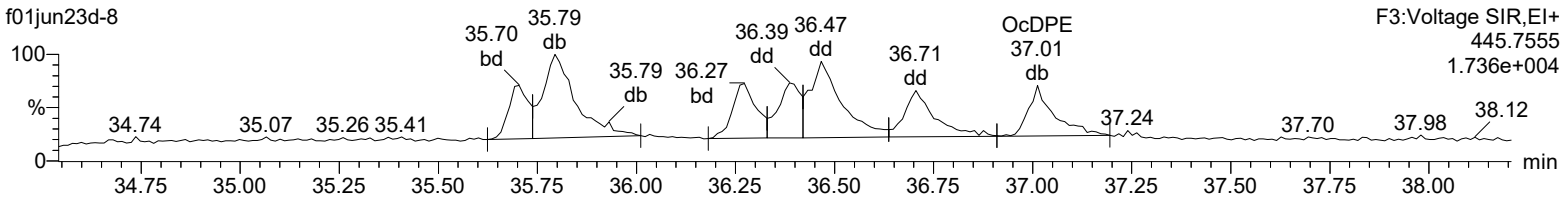
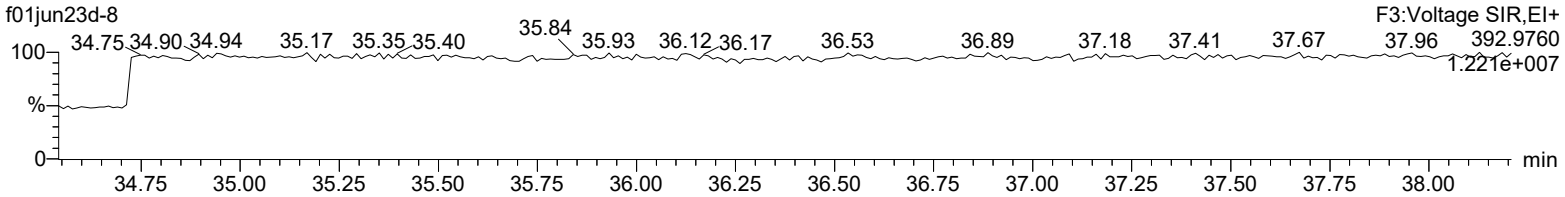


OcDPE



Lock Mass F3



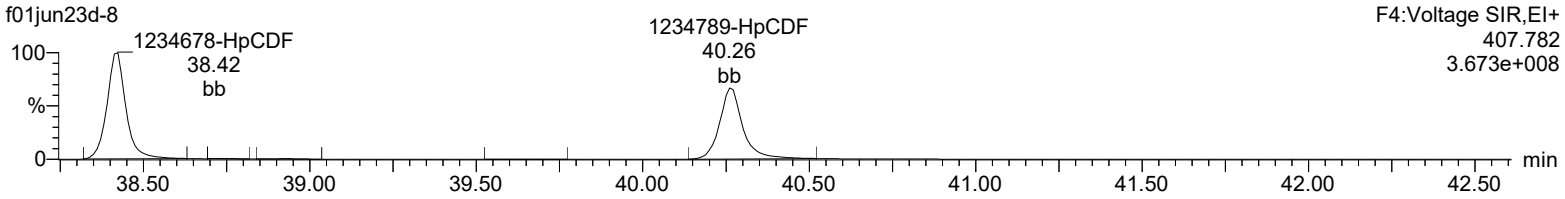
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

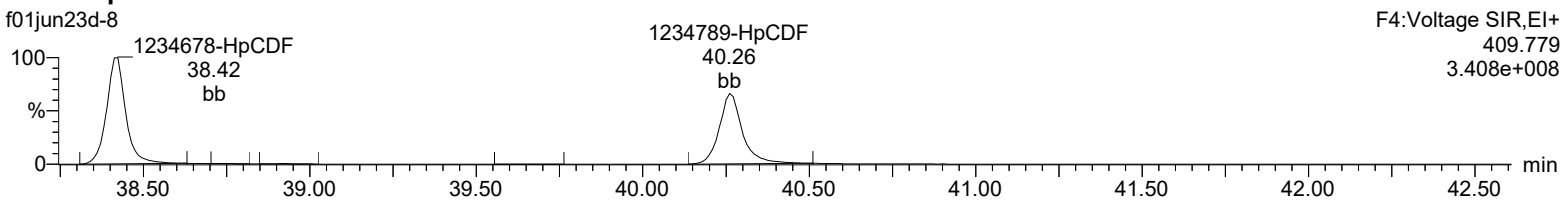
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

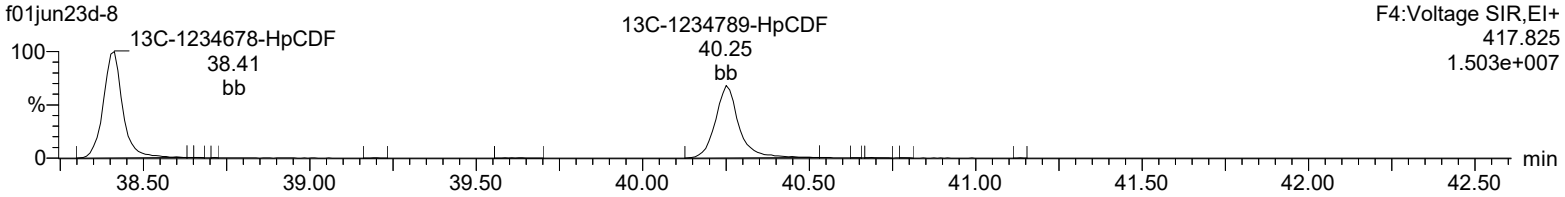
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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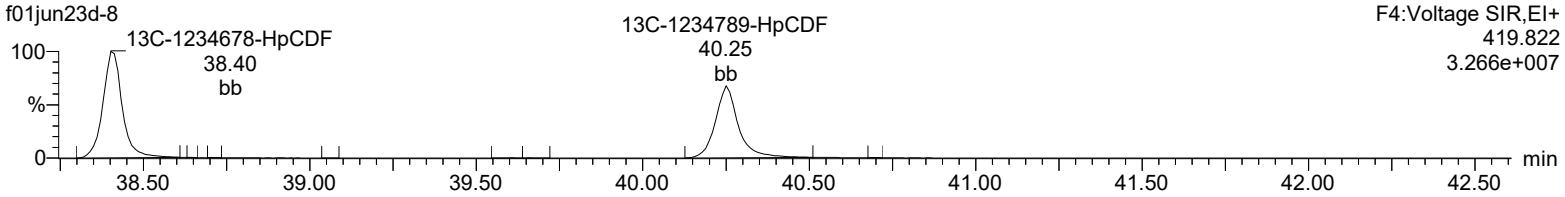
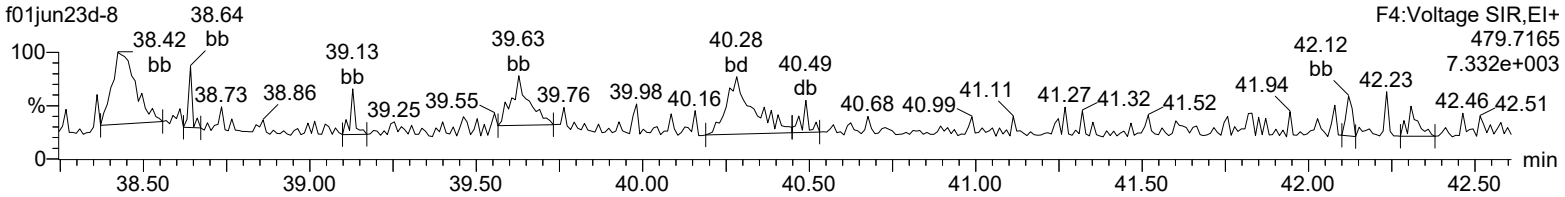
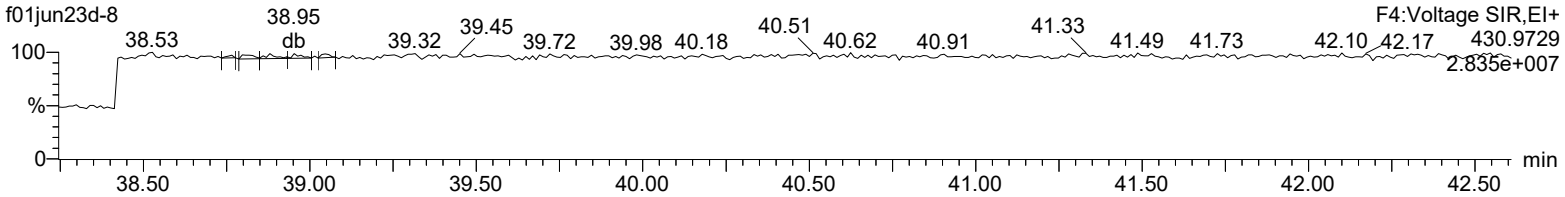


NoDPE



Lock Mass F4



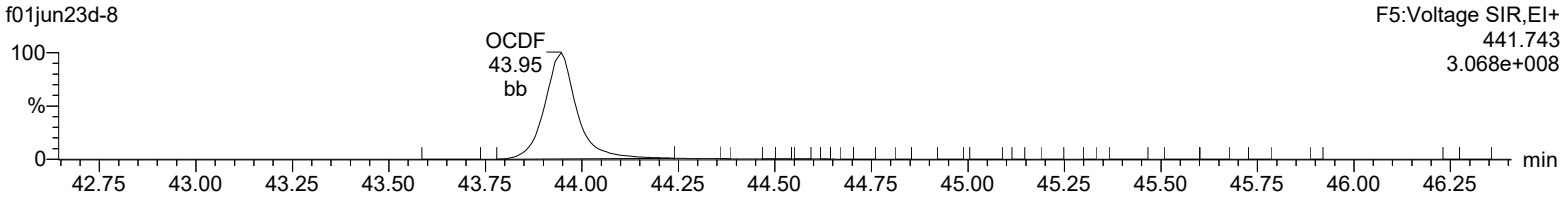
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

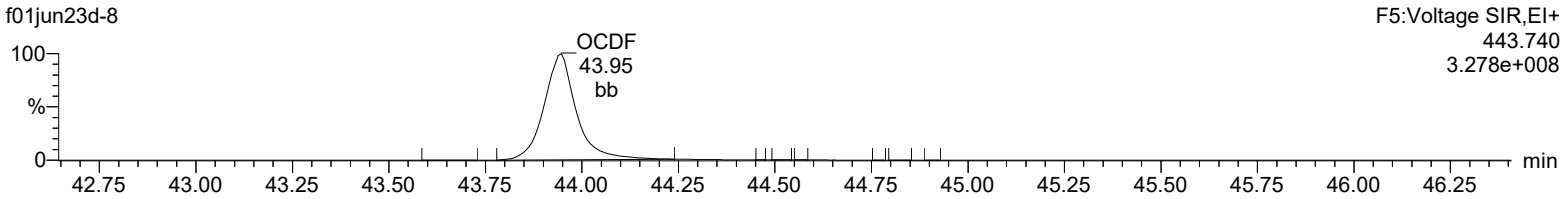
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

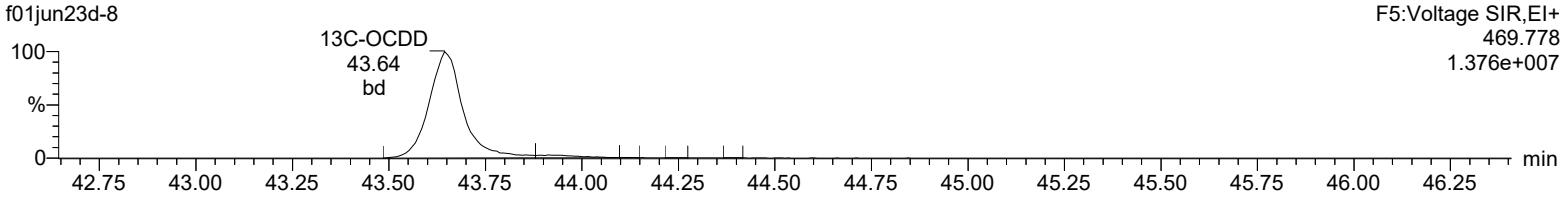
OCDF



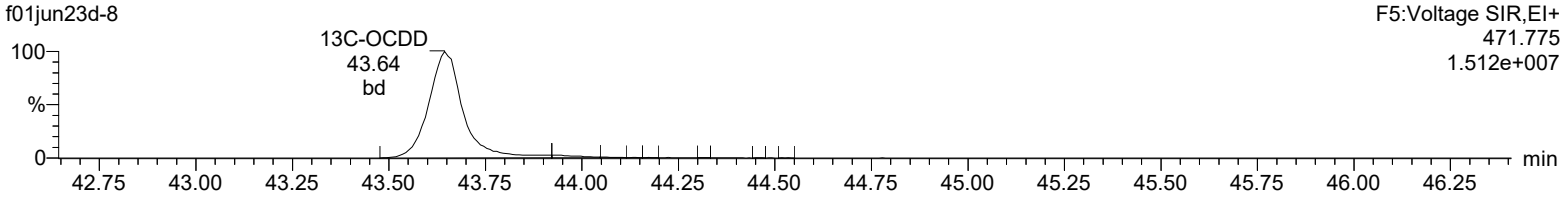
OCDF



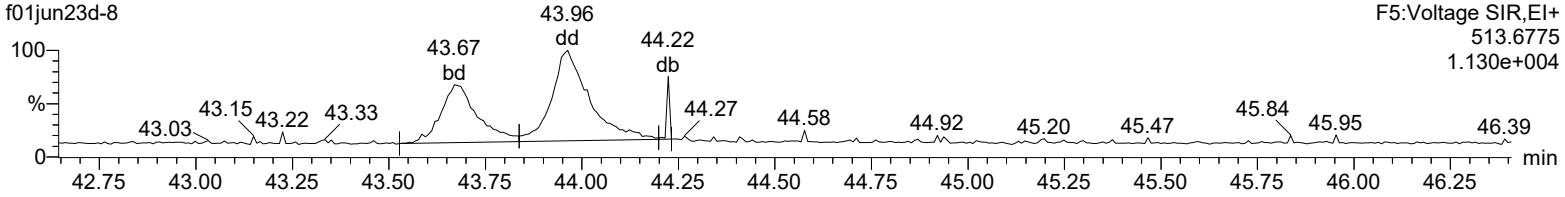
13C-OCDD



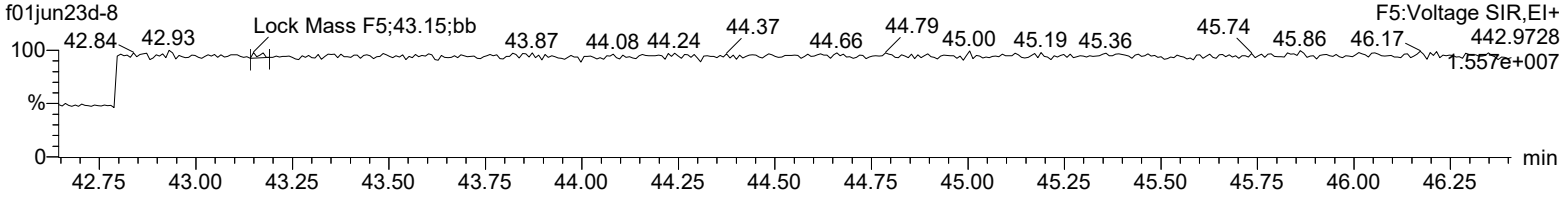
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.65
2	Last TCDF	31.62
3	First PeCDF	31.60
4	Last PeCDF	34.30
5	First HxCDF	34.77
6	Last HxCDF	37.00
7	First HpCDF	38.42
8	Last HpCDF	40.27
9	OCDF	43.93
10	First TCDD	27.37
11	2378-TCDD	30.82
12	Last TCDD	31.54
13	First PeCDD	32.55
14	Last PeCDD	34.12
15	First HxCDD	35.19
16	Last HxCDD	36.69
17	First HpCDD	38.73
18	Last HpCDD	39.63
19	OCDD	43.66

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

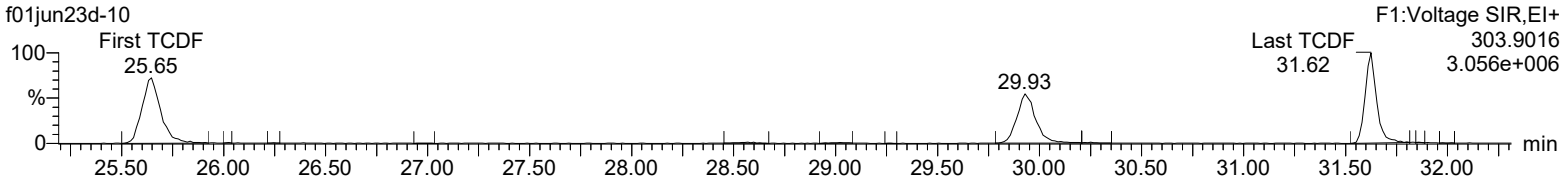
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

06/02/2023

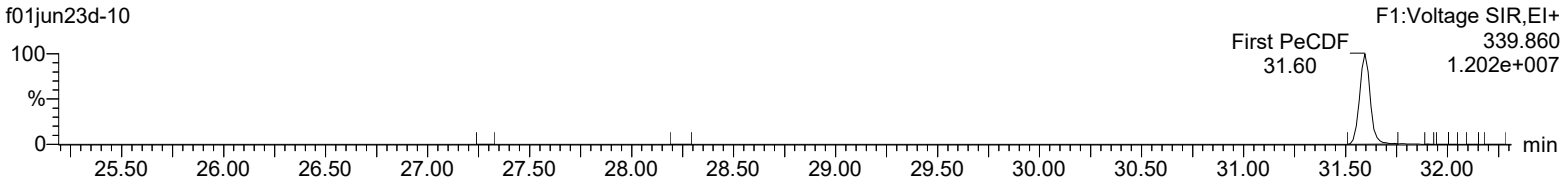
Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

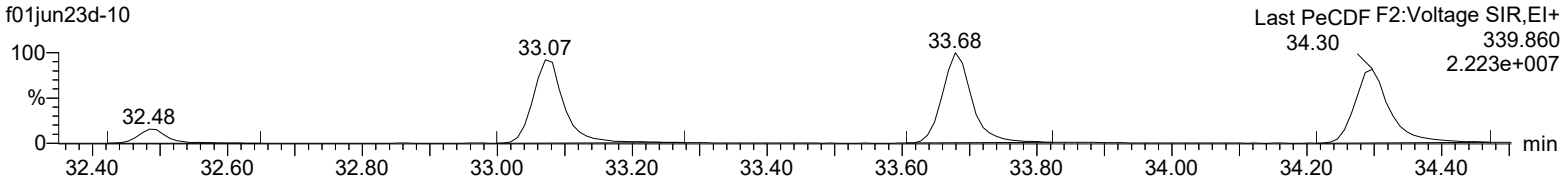
First TCDF



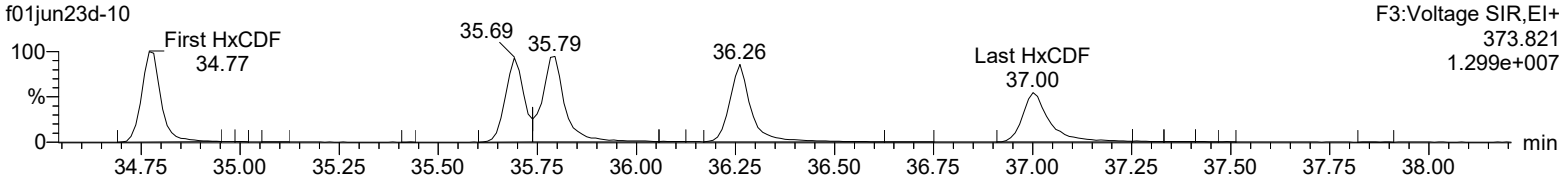
First PeCDF



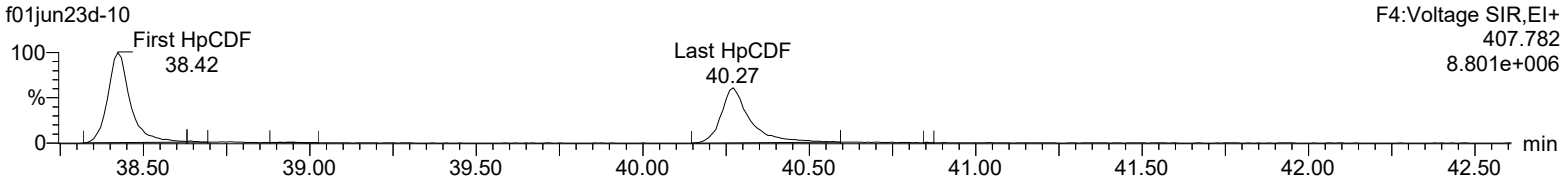
Last PeCDF



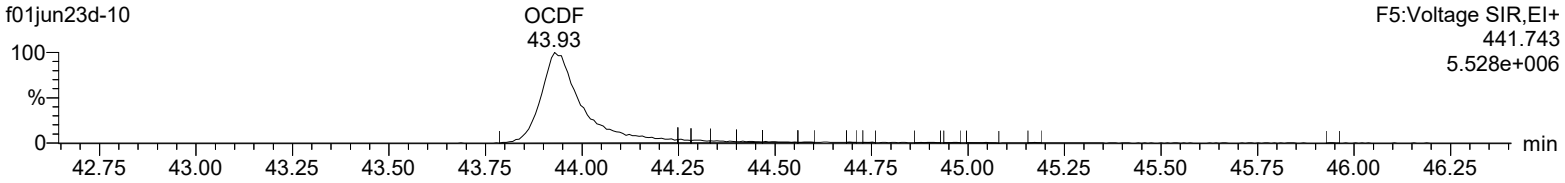
First HxCDF



First HpCDF



OCDF



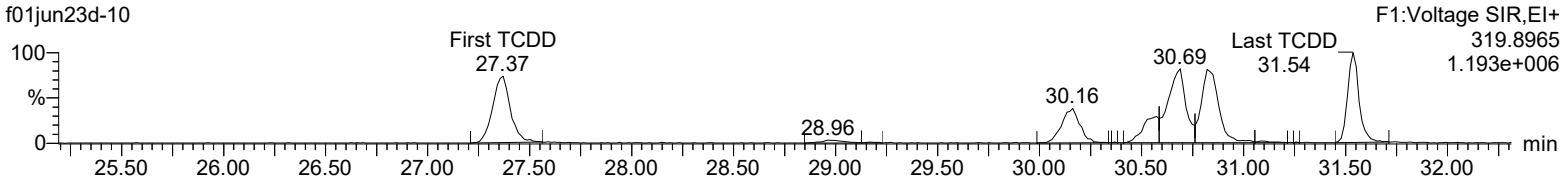
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

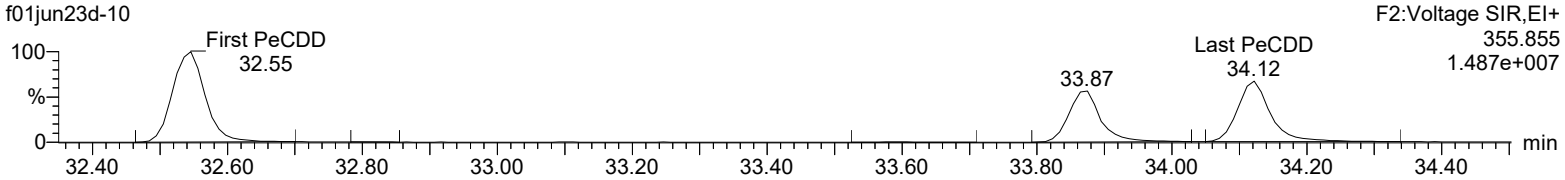
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

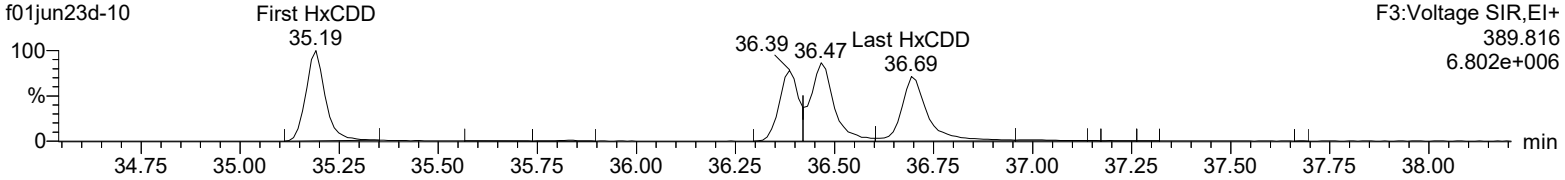
First TCDD



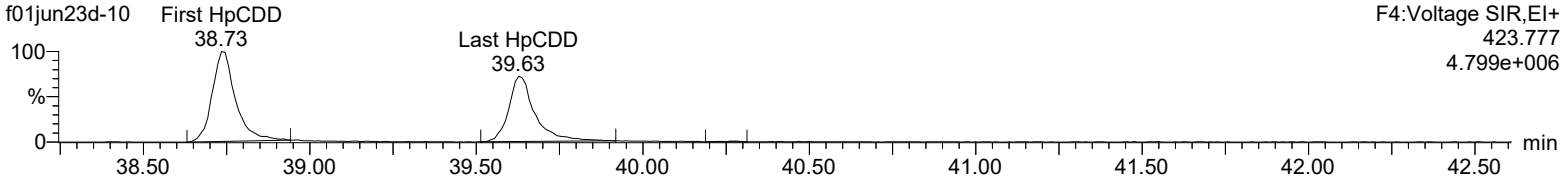
First PeCDD



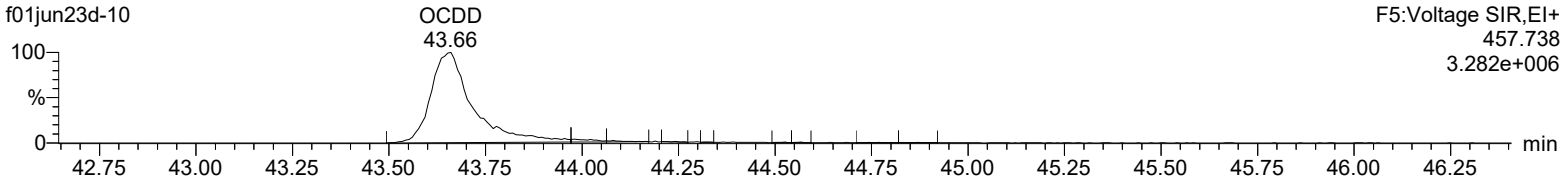
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\Old Methods\CFA_1613_f01jun23.mdb 02 Jun 2023 15:57:41
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	9.45e4	1.14e5	2.09e5	30.82	1.000	0.83	NO	10.150	0.0504	1.116	1.100	1.5	9.64e5	2193	439.6	1.19e6	2104	567.6	dd	dd
2	12378-PeCDD	4.55e5	2.80e5	7.35e5	33.87	1.001	1.63	NO	50.045	0.244	1.166	1.164	0.1	8.37e6	11623	720.5	5.12e6	14168	361.3	bb	bb
3	123478-HxCDD	2.92e5	2.30e5	5.22e5	36.39	1.000	1.27	NO	50.381	0.281	1.081	1.073	0.8	5.31e6	11918	445.8	4.02e6	8924	450.5	bd	bd
4	123678-HxCDD	4.02e5	3.18e5	7.20e5	36.47	1.000	1.26	NO	51.460	0.261	1.095	1.064	2.9	5.88e6	11918	493.8	4.75e6	8924	532.5	dd	dd
5	123789-HxCDD	3.67e5	2.73e5	6.40e5	36.69	1.007	1.34	NO	52.651	0.270	1.123	1.066	5.3	4.85e6	11918	407.3	3.59e6	8924	402.0	dd	dd
6	1234678-HpCDD	3.15e5	2.89e5	6.04e5	39.63	1.000	1.09	NO	51.742	0.514	1.271	1.228	3.5	3.47e6	13302	260.9	3.13e6	13878	225.3	bb	bb
7	OCDD	4.10e5	4.35e5	8.46e5	43.66	1.001	0.94	NO	103.013	0.876	1.140	1.107	3.0	3.27e6	10919	299.4	3.56e6	11315	315.0	bd	bd
8	2378-TCDF	1.77e5	2.18e5	3.96e5	29.93	1.000	0.81	NO	10.096	0.128	1.365	1.352	1.0	1.67e6	9111	182.9	2.15e6	9327	231.0	bd	bb
9	12378-PeCDF	1.09e6	6.82e5	1.77e6	33.07	1.000	1.60	NO	49.833	0.196	1.270	1.274	-0.3	2.04e7	23625	865.5	1.24e7	26599	464.4	bb	bb
10	23478-PeCDF	1.11e6	6.87e5	1.80e6	33.68	1.000	1.62	NO	49.644	0.184	1.384	1.394	-0.7	2.21e7	23625	935.7	1.44e7	26599	540.7	bb	bb
11	123478-HxCDF	6.43e5	5.00e5	1.14e6	35.69	1.000	1.29	NO	51.660	0.239	1.465	1.418	3.3	1.21e7	20791	580.6	9.22e6	18069	510.2	bd	bd
12	123678-HxCDF	8.16e5	6.15e5	1.43e6	35.79	1.000	1.33	NO	50.927	0.228	1.404	1.378	1.9	1.23e7	20791	590.4	9.51e6	18069	526.5	dd	db
13	234678-HxCDF	6.92e5	5.04e5	1.20e6	36.26	1.000	1.37	NO	51.638	0.265	1.469	1.422	3.3	1.11e7	20791	533.5	8.16e6	18069	451.5	bd	bb
14	123789-HxCDF	5.61e5	4.23e5	9.84e5	37.00	1.000	1.33	NO	51.262	0.408	1.335	1.302	2.5	7.09e6	20791	341.2	5.34e6	18069	295.5	bd	bb
15	1234678-HpCDF	6.82e5	6.54e5	1.34e6	38.42	1.000	1.04	NO	51.875	0.287	1.436	1.384	3.8	8.76e6	19953	439.1	8.39e6	18392	456.4	bd	bb
16	1234789-HpCDF	5.31e5	5.04e5	1.04e6	40.27	1.001	1.05	NO	52.200	0.496	1.424	1.364	4.4	5.35e6	19953	268.0	4.97e6	18392	270.5	bb	bd
17	OCDF	6.80e5	7.26e5	1.41e6	43.93	1.007	0.94	NO	108.172	1.13	1.895	1.752	8.2	5.52e6	19577	281.7	5.78e6	26003	222.2	bd	bd
18	13C-2378-TCDD	8.32e5	1.04e6	1.87e6	30.81	1.022	0.80	NO	97.246	0.171	1.107	1.139	-2.8	8.63e6	7615	1133.2	1.09e7	5236	2073.9	bd	bd
19	13C-12378-PeCDD	7.71e5	4.90e5	1.26e6	33.85	1.123	1.57	NO	91.807	0.237	0.747	0.813	-8.2	1.38e7	6928	1998.7	8.74e6	5782	1511.9	bb	bd
20	13C-123478-HxCDD	5.39e5	4.27e5	9.66e5	36.38	0.992	1.26	NO	94.473	0.326	0.801	0.847	-5.5	9.64e6	8610	1119.8	7.54e6	8511	886.5	bd	bd
21	13C-123678-HxCDD	7.39e5	5.77e5	1.32e6	36.45	0.994	1.28	NO	106.178	0.269	1.091	1.027	6.2	1.05e7	8610	1223.5	8.37e6	8511	983.8	dd	dd
22	13C-1234678-HpCDD	4.95e5	4.56e5	9.51e5	39.62	1.080	1.09	NO	98.435	0.424	0.788	0.800	-1.6	5.61e6	10727	522.9	4.96e6	10327	480.2	bd	bd
23	13C-OCDD	7.18e5	7.65e5	1.48e6	43.64	1.190	0.94	NO	188.410	0.587	0.615	0.653	-5.8	5.55e6	12951	428.5	6.26e6	10807	579.7	bd	bd
24	13C-2378-TCDF	1.30e6	1.60e6	2.90e6	29.91	0.993	0.81	NO	98.927	0.134	1.715	1.734	-1.1	1.19e7	7867	1512.7	1.43e7	7479	1910.2	bd	bd
25	13C-12378-PeCDF	1.75e6	1.05e6	2.79e6	33.06	1.097	1.67	NO	96.274	0.401	1.655	1.719	-3.7	3.14e7	28354	1107.5	1.92e7	16990	1131.0	dd	bb
26	13C-23478-PeCDF	1.64e6	9.63e5	2.60e6	33.67	1.117	1.70	NO	95.144	0.425	1.540	1.619	-4.9	3.08e7	28354	1085.9	1.89e7	16990	1114.8	bb	bb
27	13C-123478-HxCDF	5.45e5	1.01e6	1.56e6	35.68	0.973	0.54	NO	100.138	0.452	1.293	1.291	0.1	1.00e7	16291	614.0	1.90e7	19894	954.6	bd	bd
28	13C-123678-HxCDF	7.36e5	1.30e6	2.04e6	35.78	0.975	0.56	NO	105.769	0.365	1.690	1.598	5.8	1.11e7	16291	683.9	2.02e7	19894	1017.8	dd	db
29	13C-234678-HxCDF	5.82e5	1.05e6	1.63e6	36.25	0.988	0.56	NO	100.963	0.436	1.351	1.338	1.0	9.20e6	16291	564.4	1.67e7	19894	840.1	bd	bb
30	13C-123789-HxCDF	5.01e5	9.73e5	1.47e6	36.99	1.008	0.52	NO	102.707	0.490	1.222	1.190	2.7	6.22e6	16291	381.8	1.17e7	19894	589.6	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	5.97e5	1.26e6	1.86e6	38.41	1.047	0.47	NO	100.347	0.360	1.542	1.537	0.3	7.75e6	12387	625.5	1.60e7	21893	731.0	bd	bb
32	13C-1234789-HpCDF	4.48e5	1.01e6	1.45e6	40.25	1.097	0.45	NO	100.620	0.461	1.206	1.198	0.6	4.36e6	12387	352.2	9.53e6	21893	435.1	bd	bd
33	13C-1234-TCDD	7.49e5	9.40e5	1.69e6	30.13	0.000	0.80	NO	100.000	0.195	1.000	1.000	0.0	7.29e6	7615	957.9	9.06e6	5236	1730.9	bb	bd
34	13C-123789-HxCDD	6.77e5	5.29e5	1.21e6	36.68	0.000	1.28	NO	100.000	0.276	1.000	1.000	0.0	8.70e6	8610	1011.0	6.90e6	8511	811.1	dd	dd
35	37Cl-2378-TCDD	1.75e5		1.75e5	30.84	1.023			9.218	0.0399	1.036	1.124	-7.8	1.90e6	2949	643.3				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

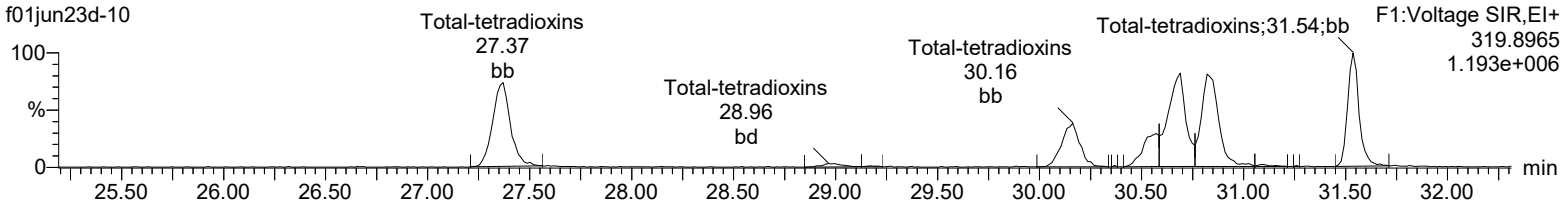
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

06/06/2023

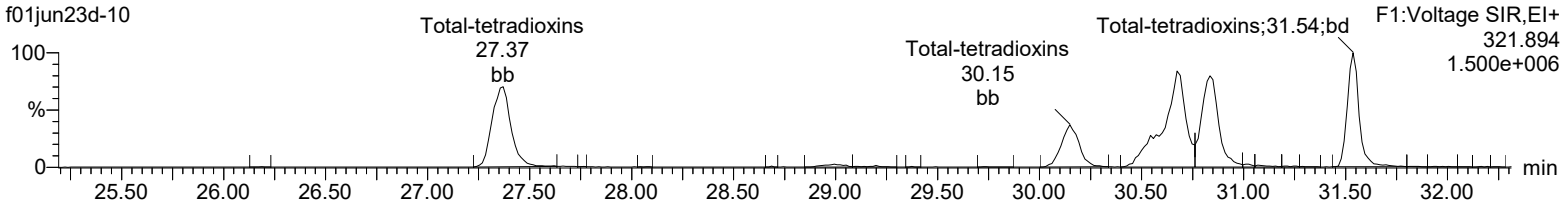
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

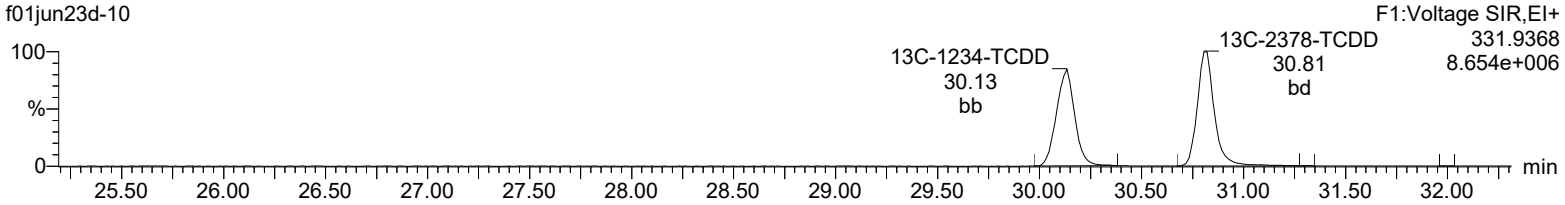
Total-tetradioxins



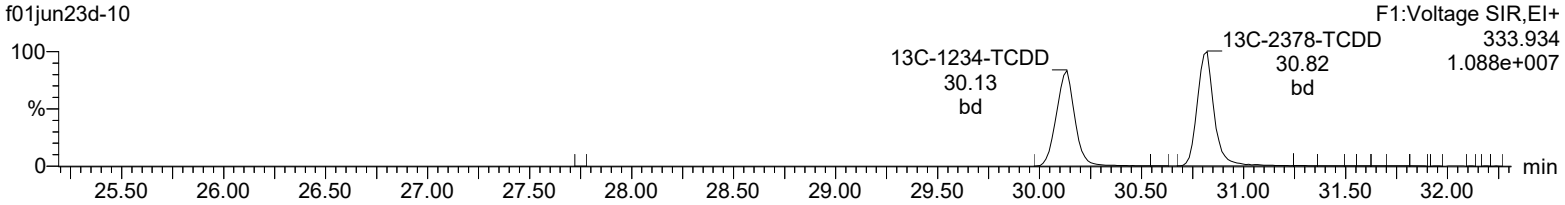
Total-tetradioxins



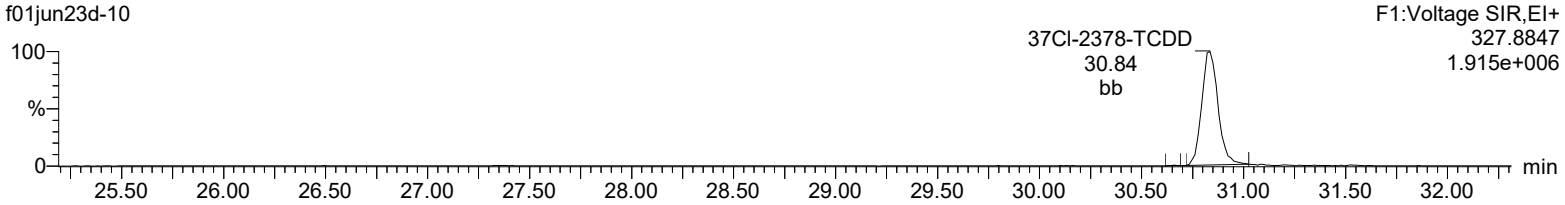
13C-2378-TCDD



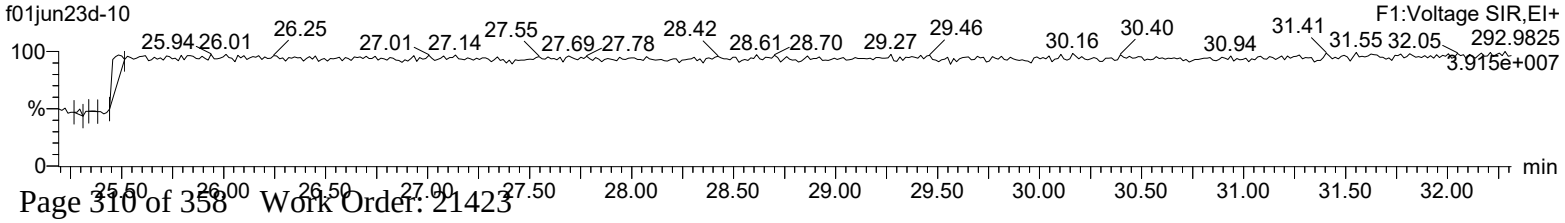
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



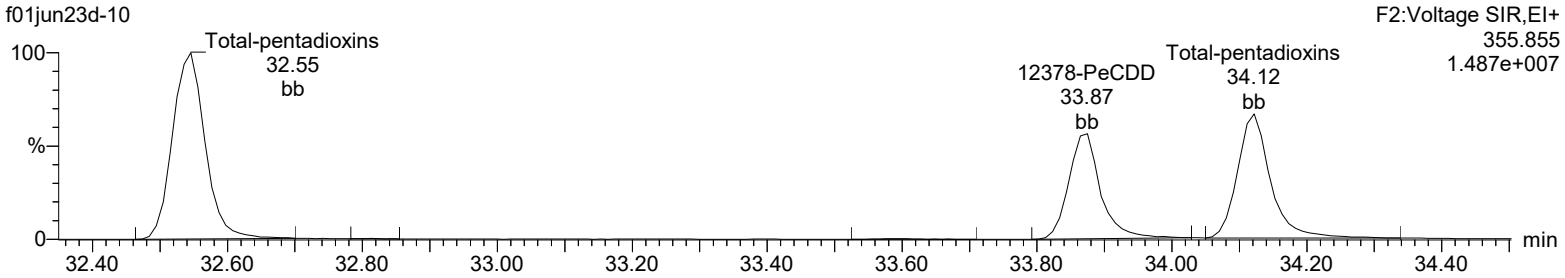
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

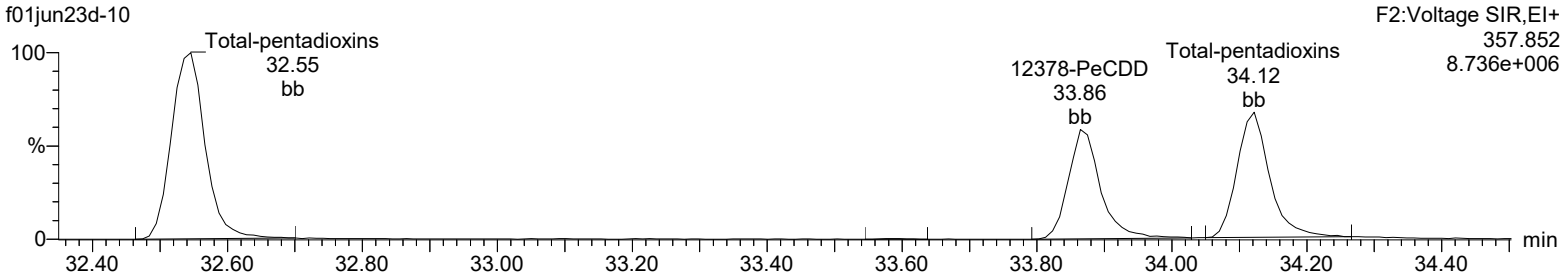
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

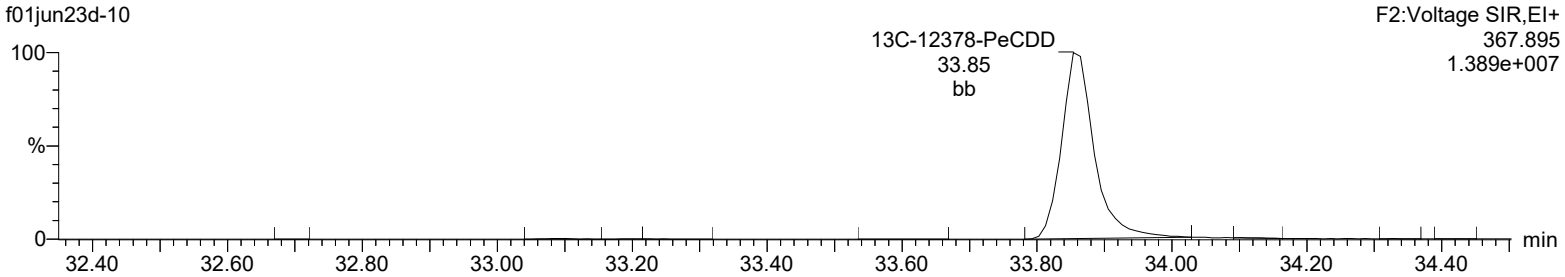
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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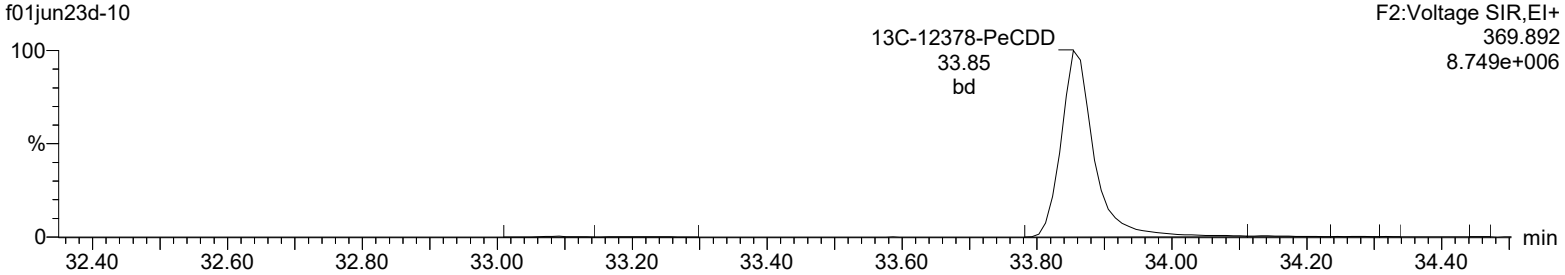
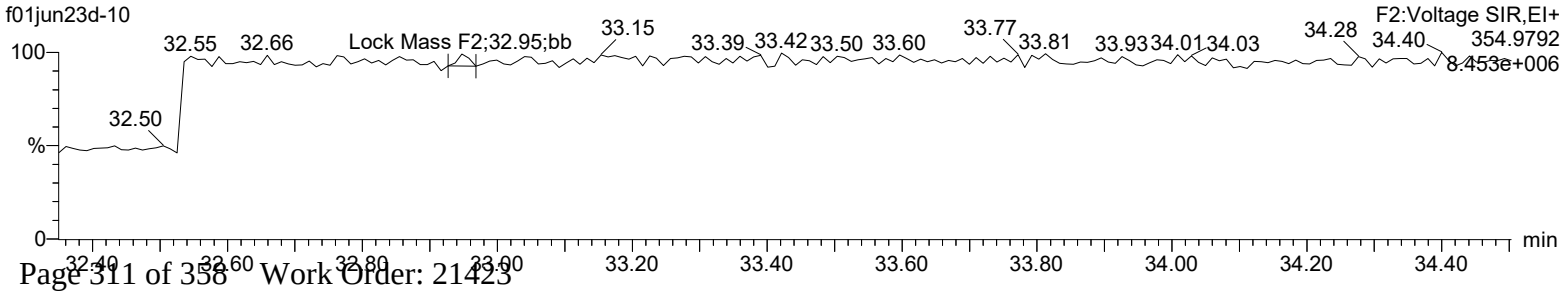


Lock Mass F2



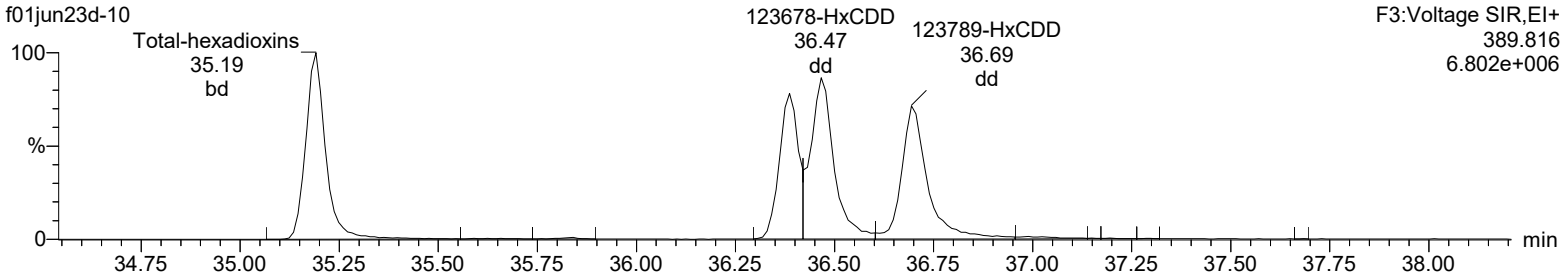
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

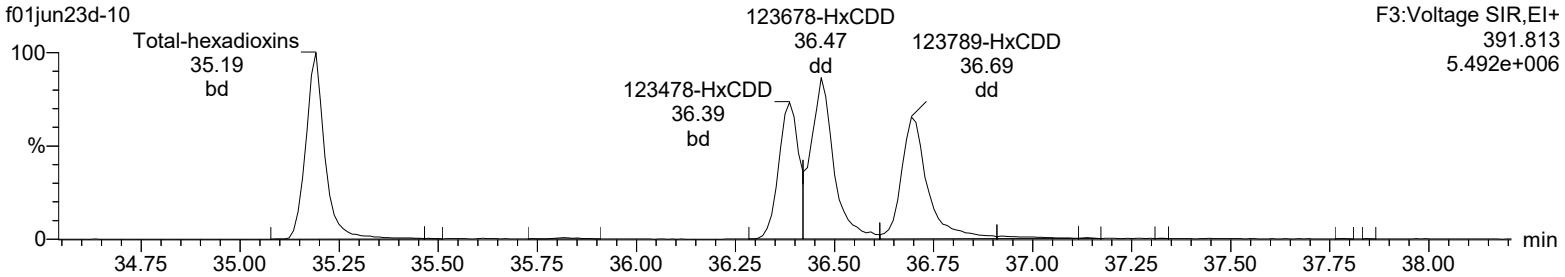
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

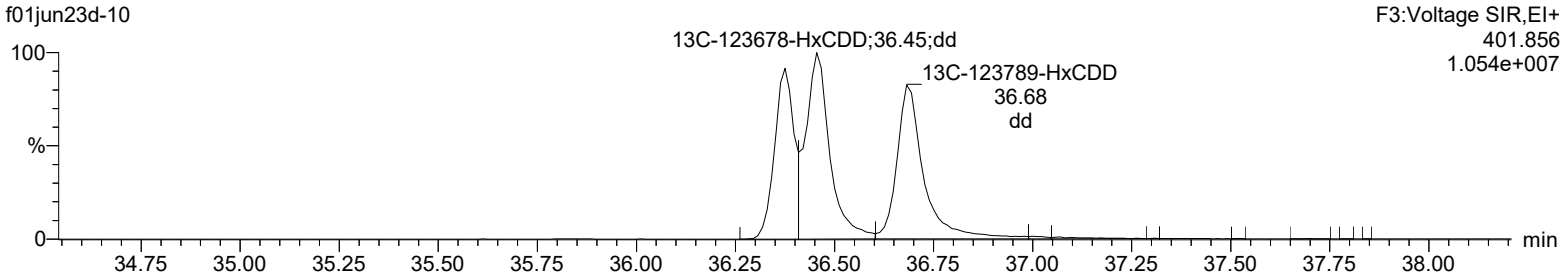
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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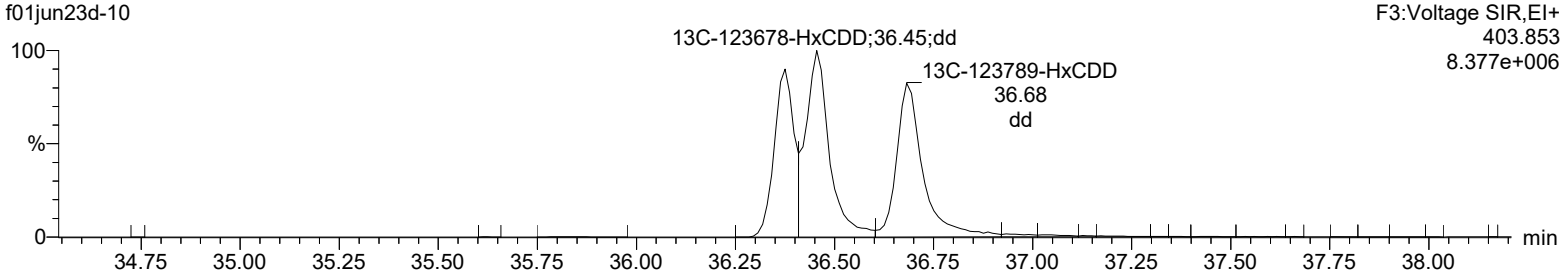
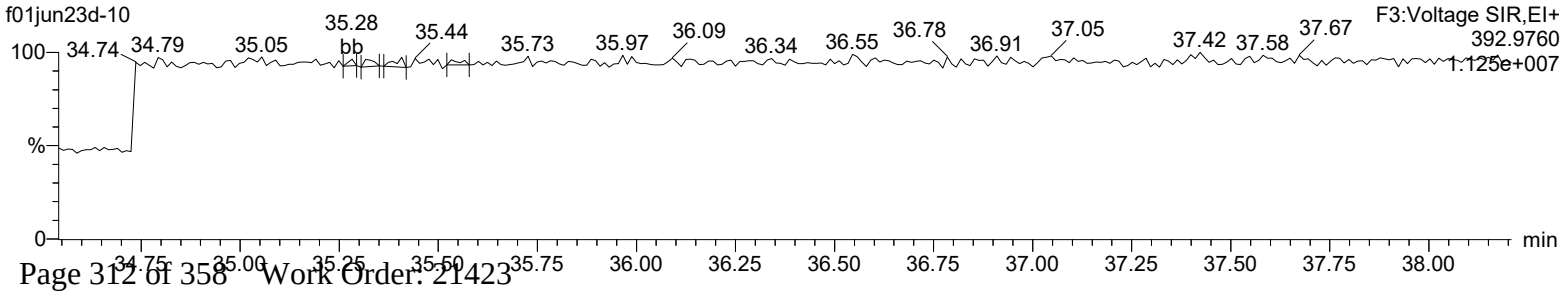


Lock Mass F3



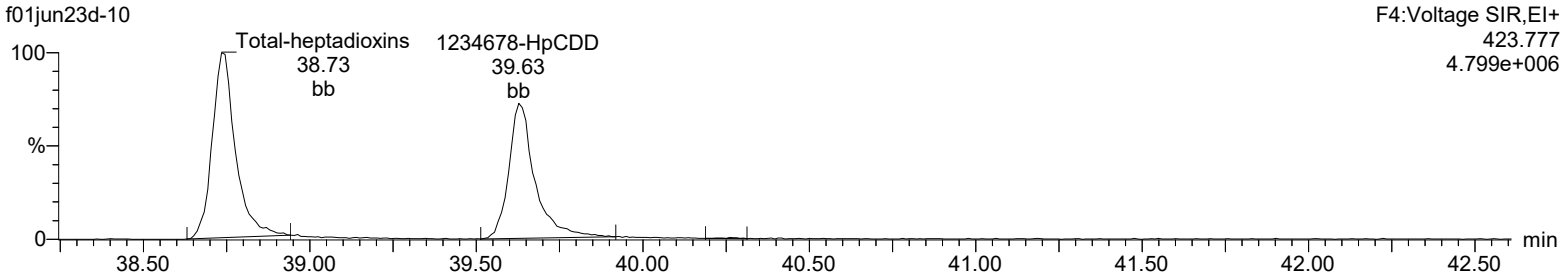
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

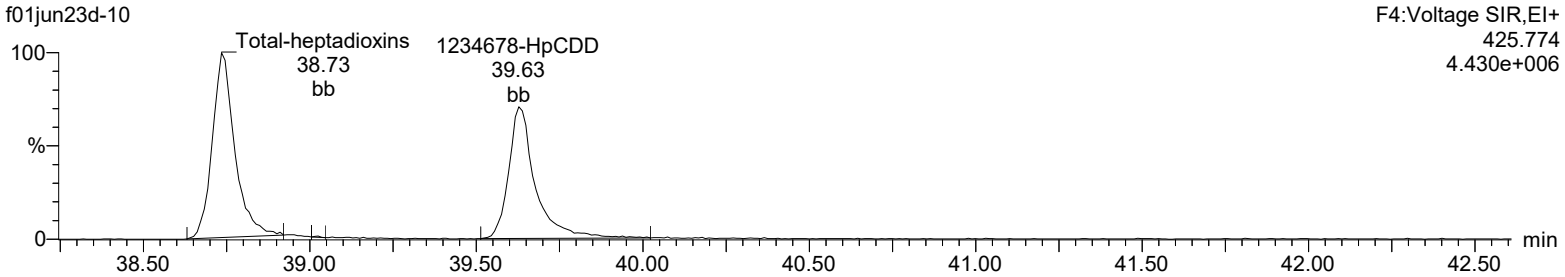
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

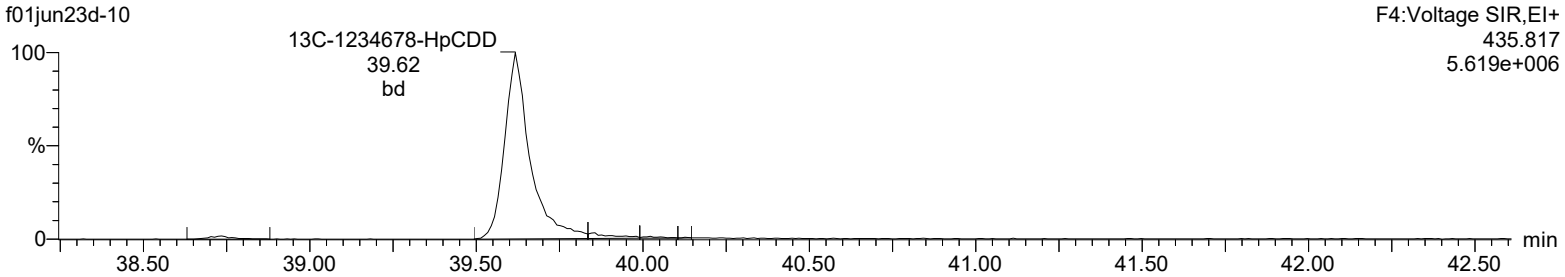
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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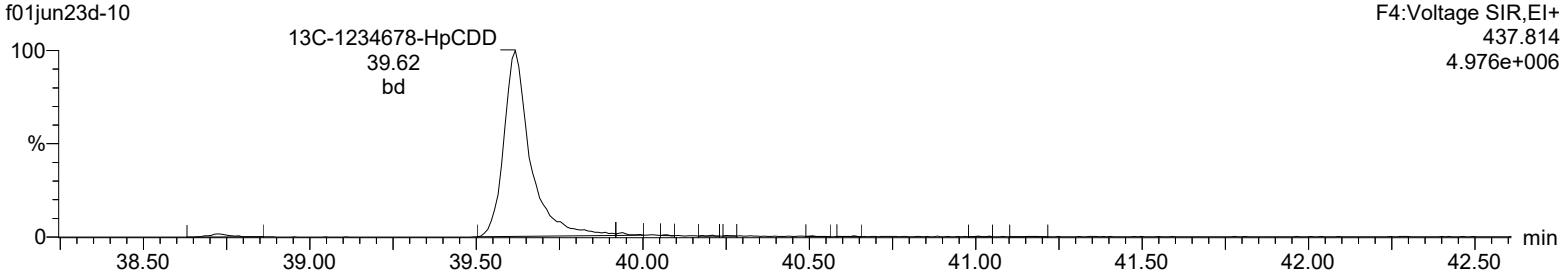
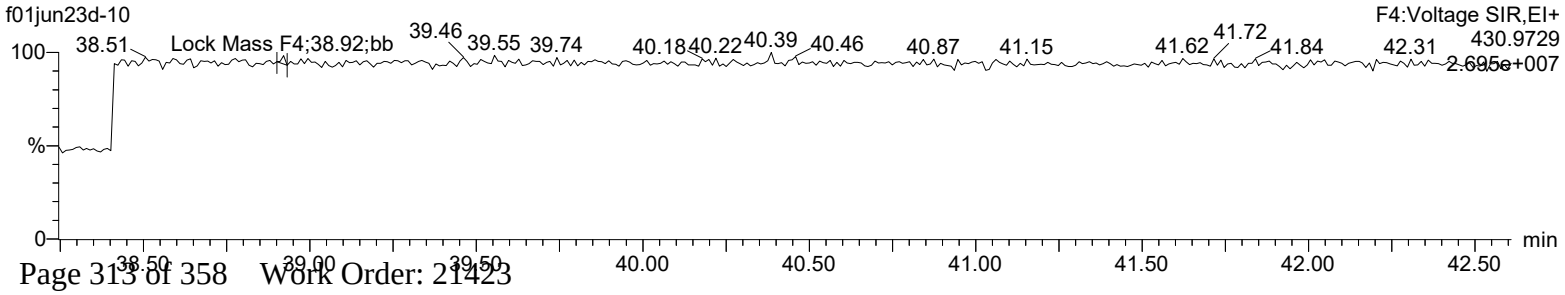


Lock Mass F4



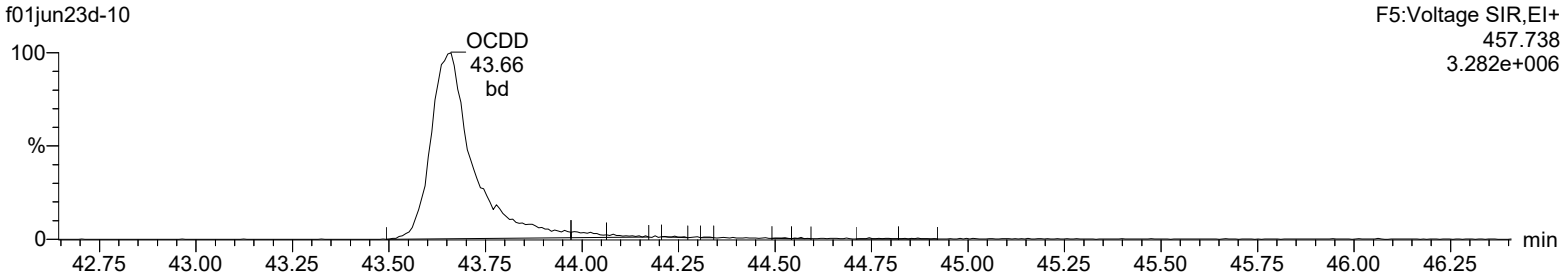
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

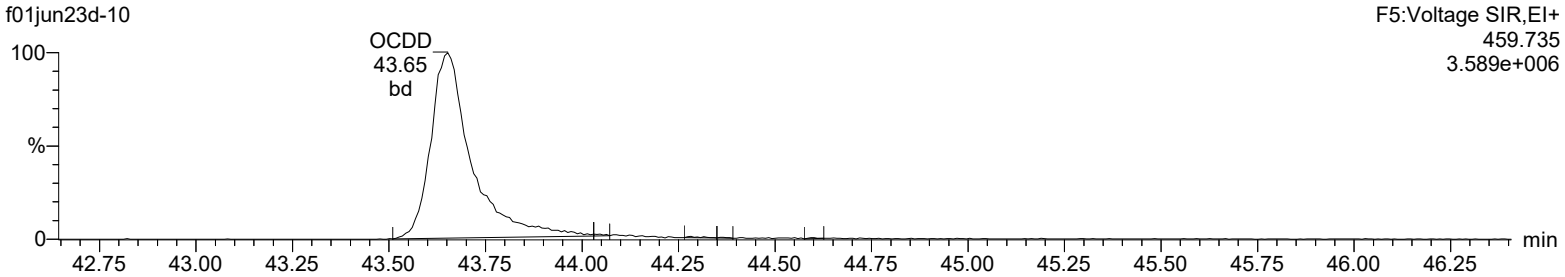
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

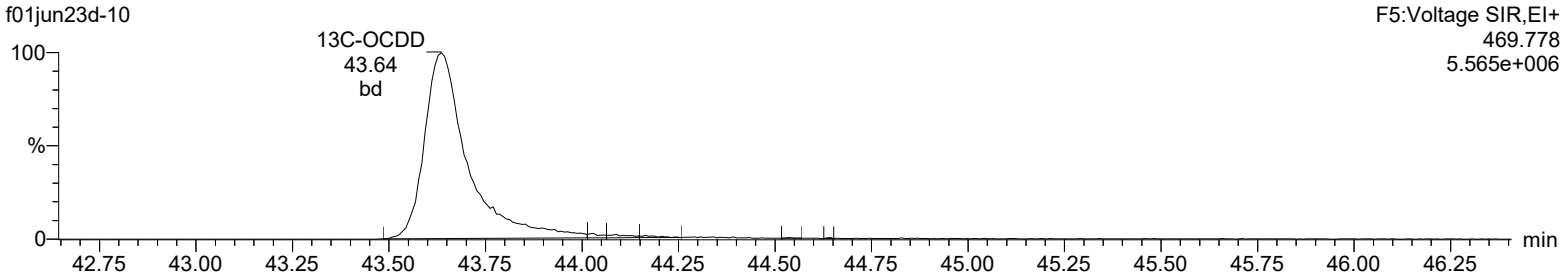
OCDD



OCDD



13C-OCDD



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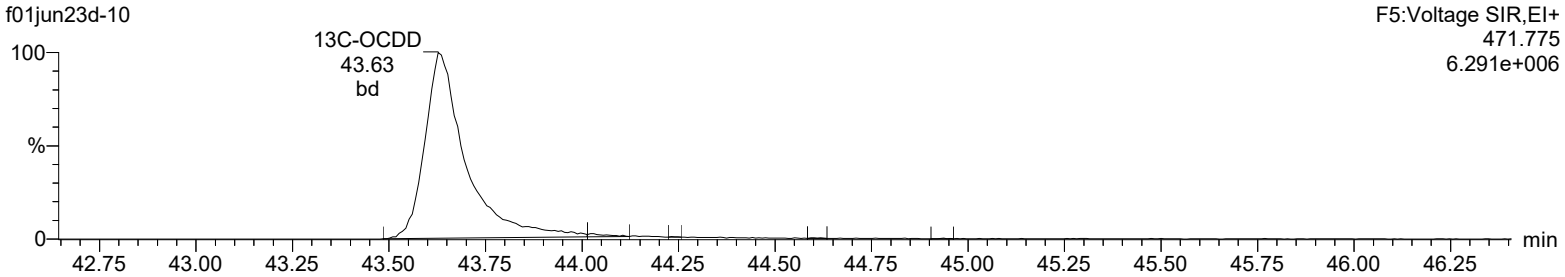
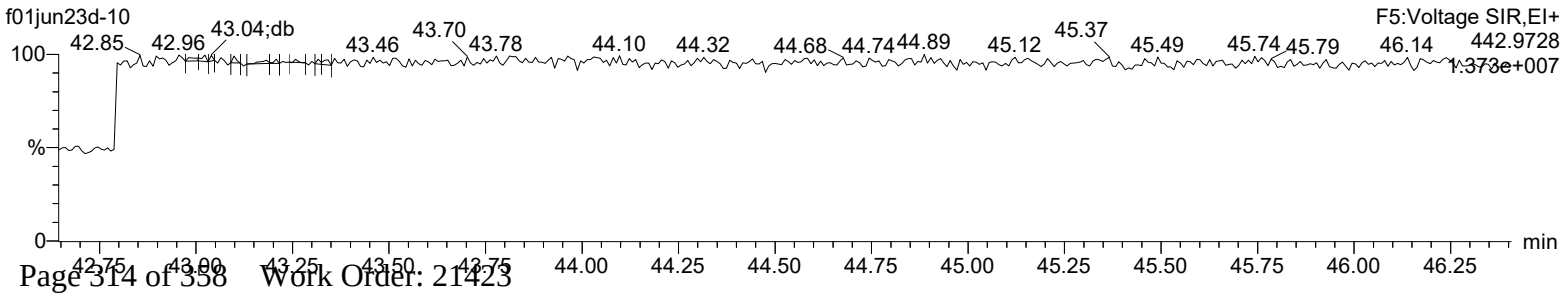


Lock Mass F5



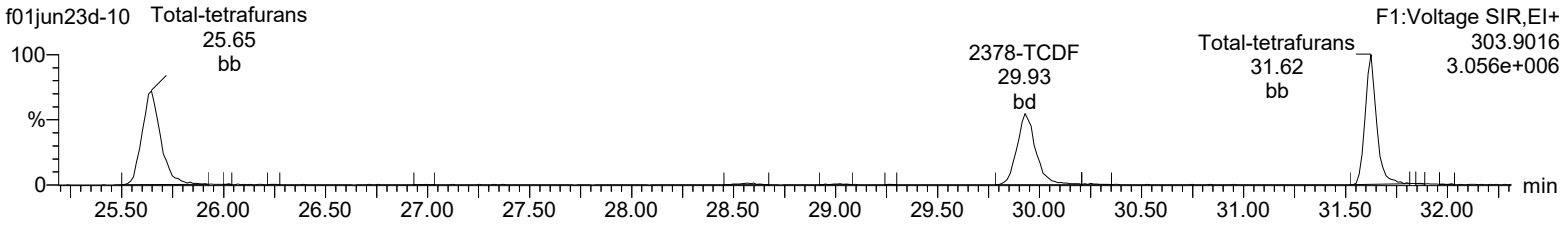
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

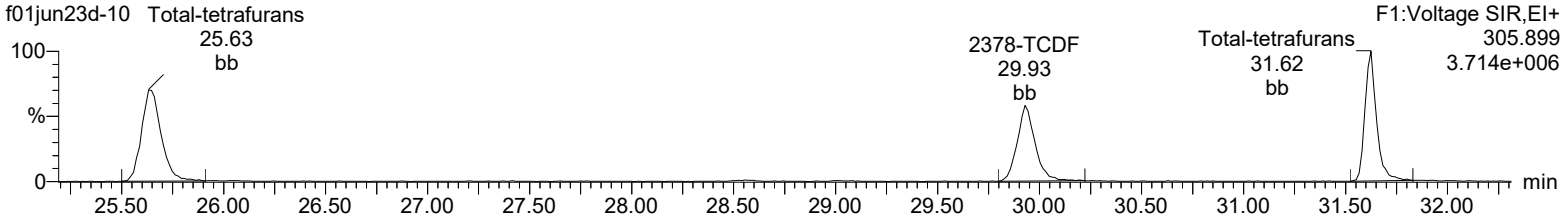
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

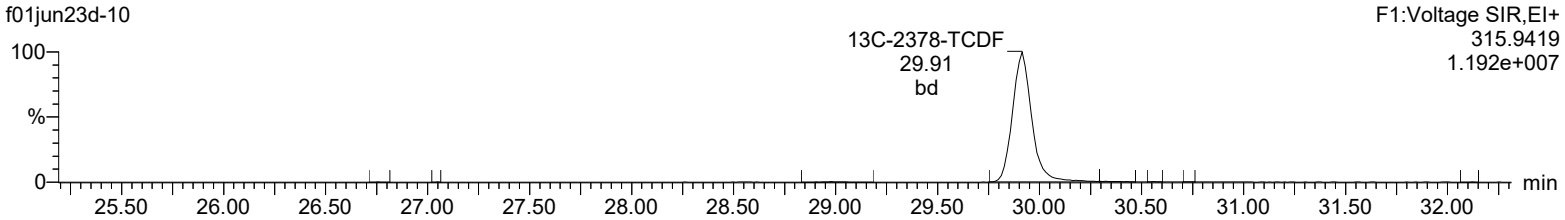
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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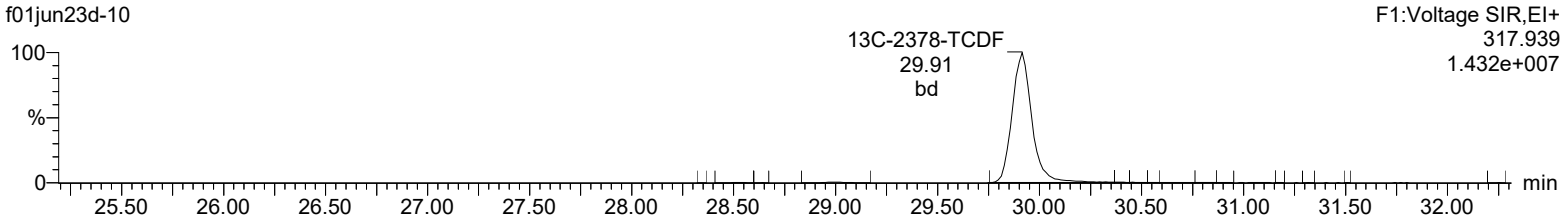
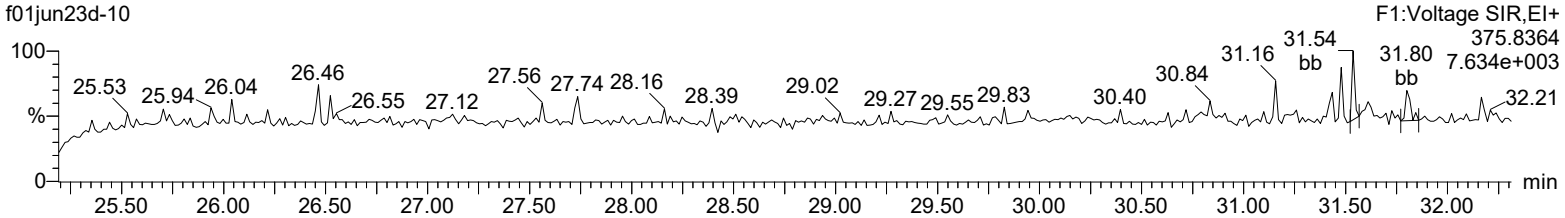
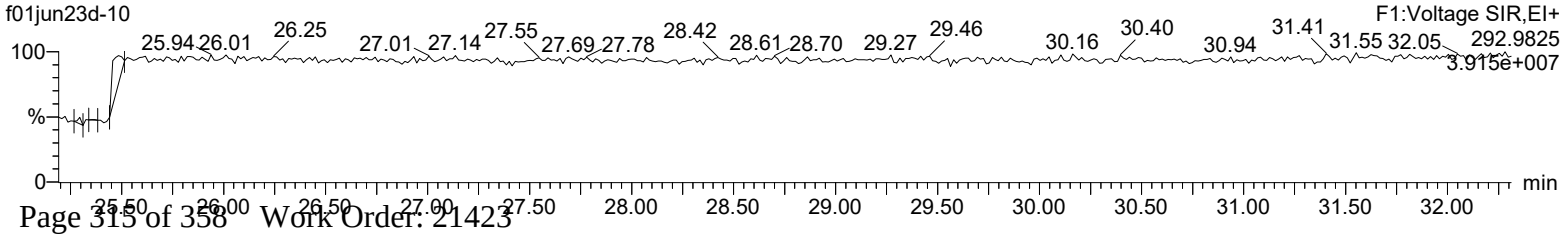


HxDPE



Lock Mass F1



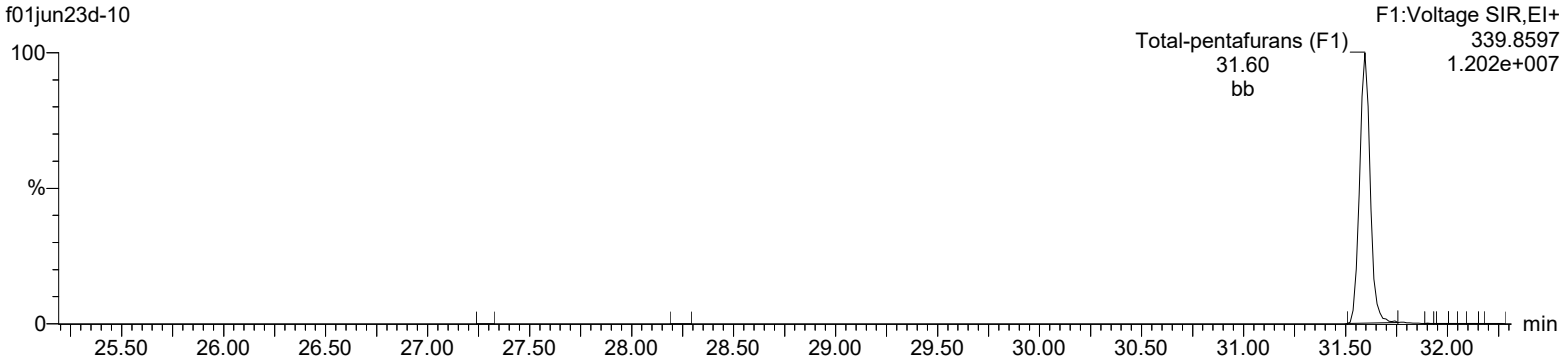
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

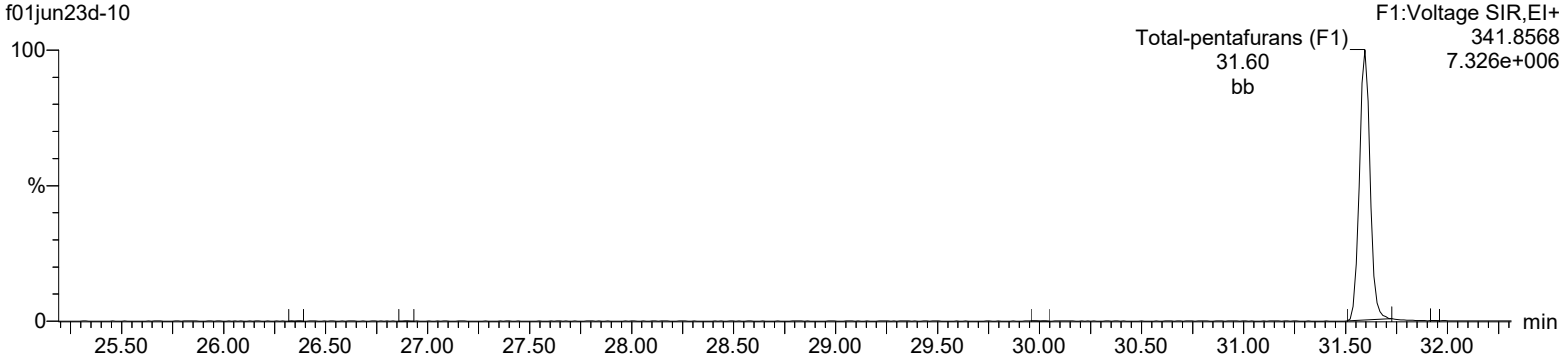
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

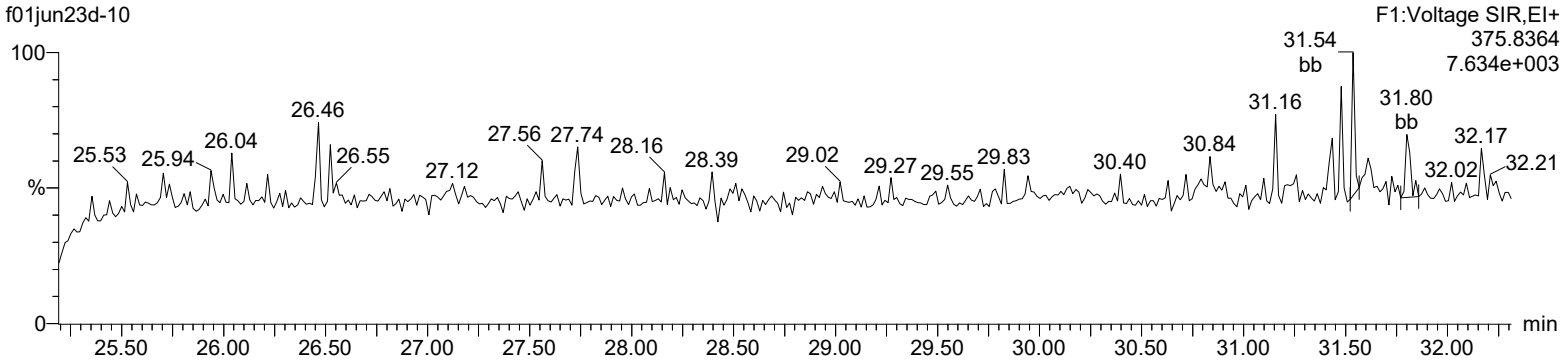
Total-pentafurans (F1)



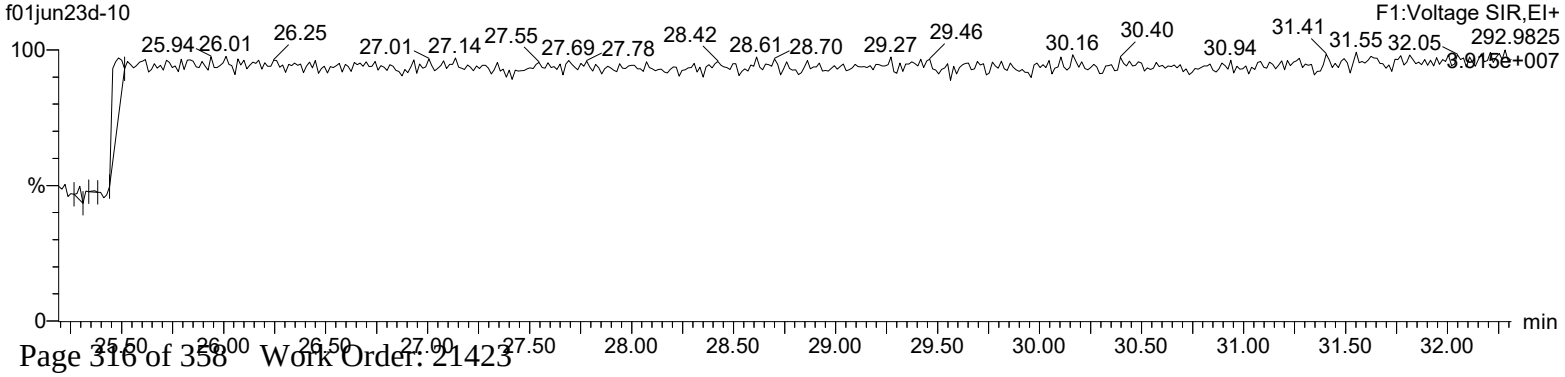
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
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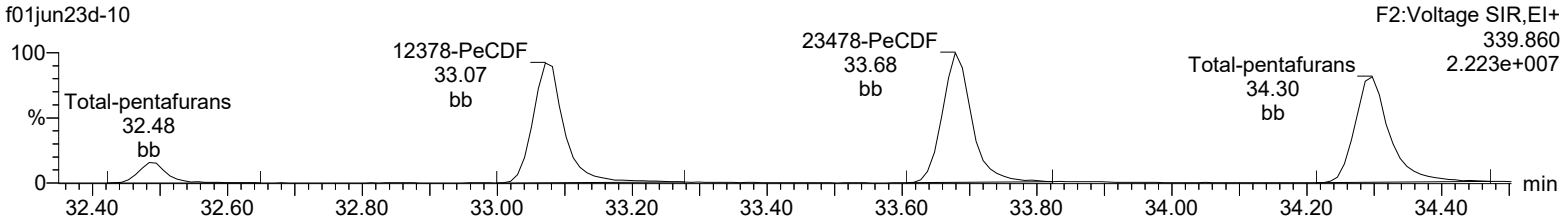
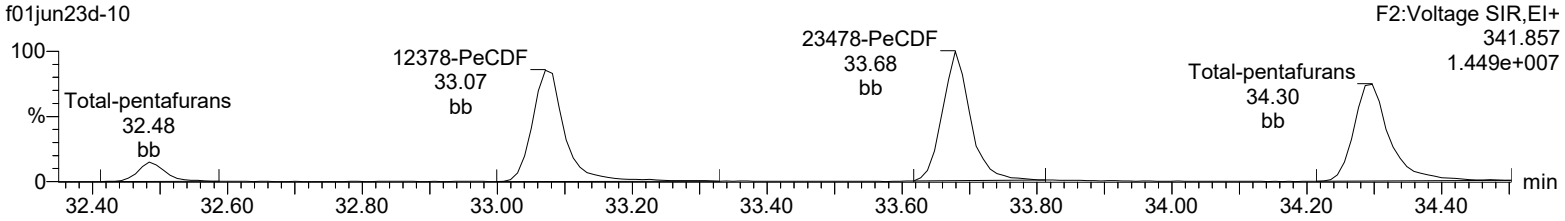
Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

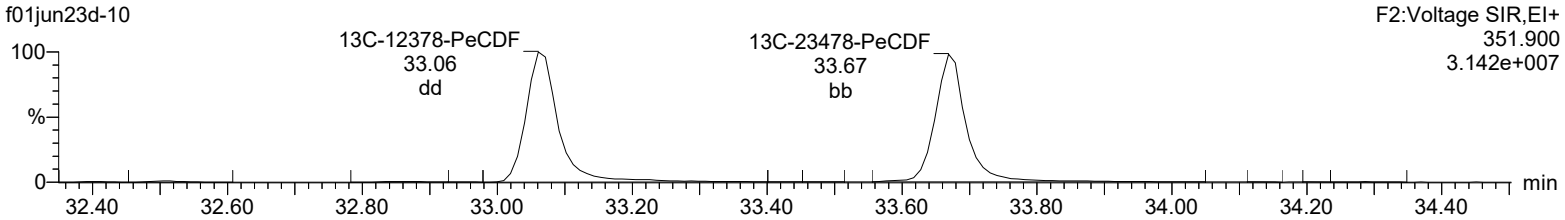
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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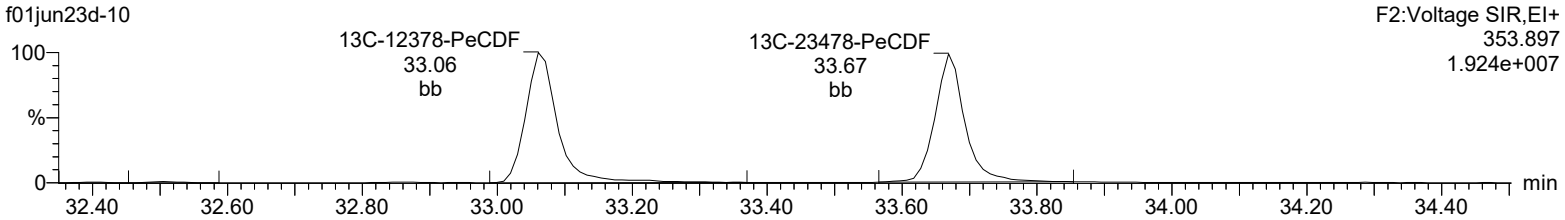
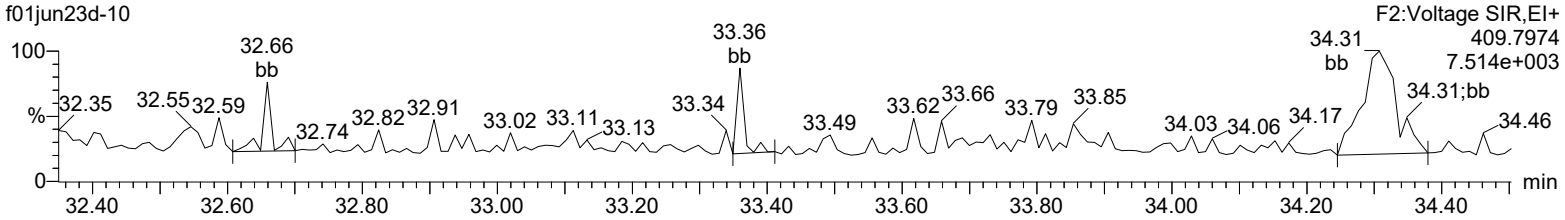
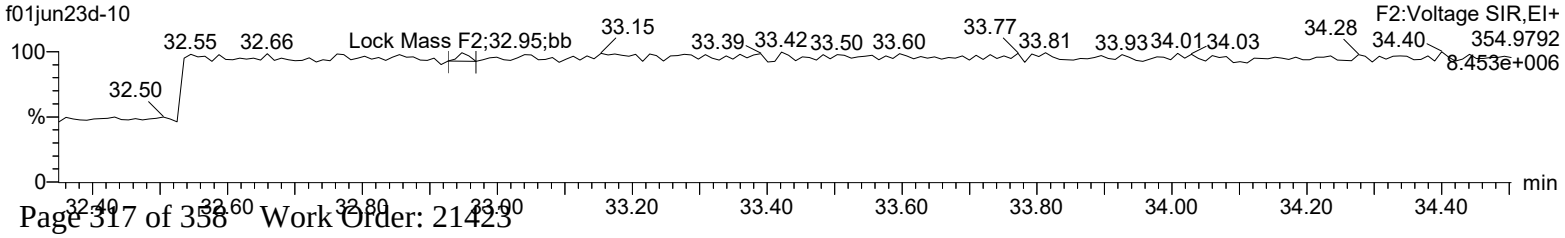


HpDPE



Lock Mass F2



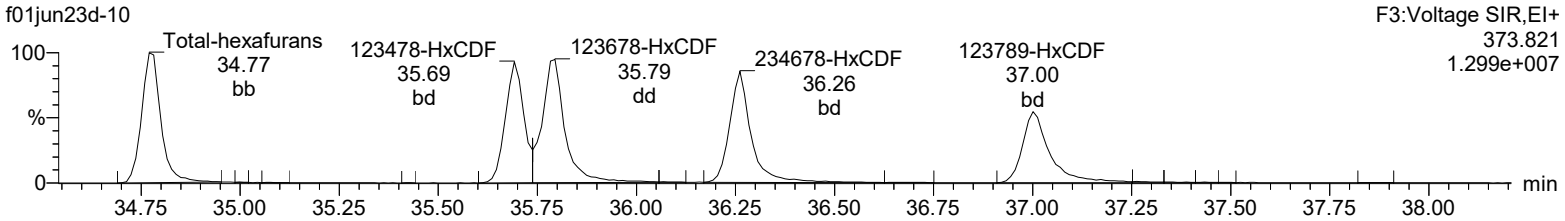
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

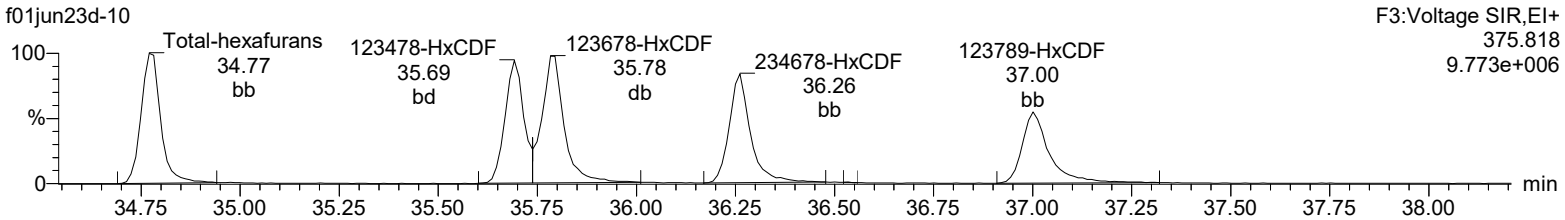
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

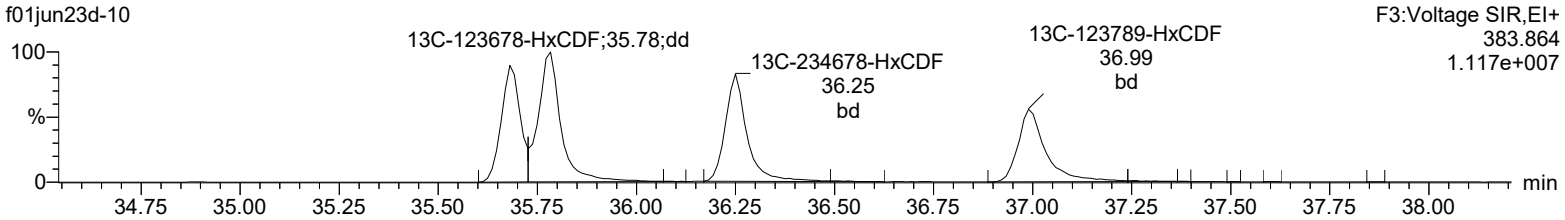
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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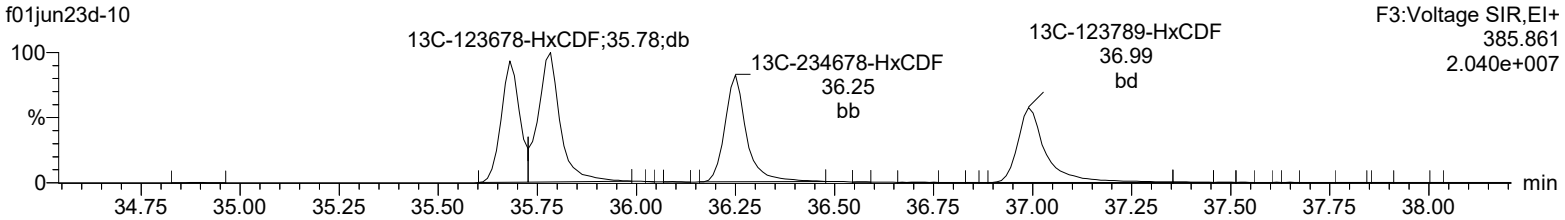

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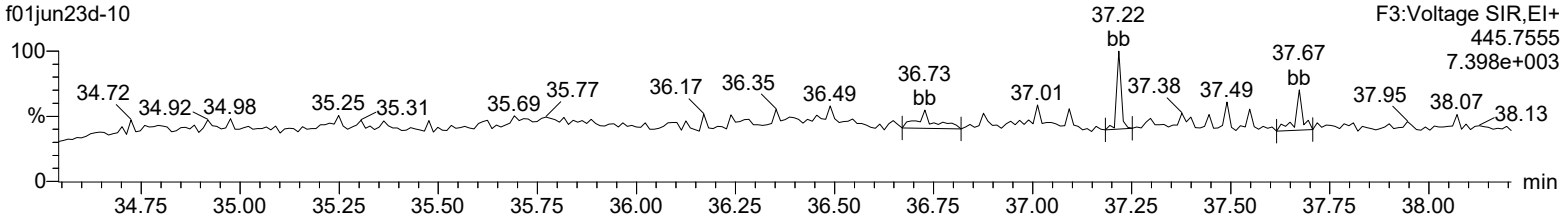
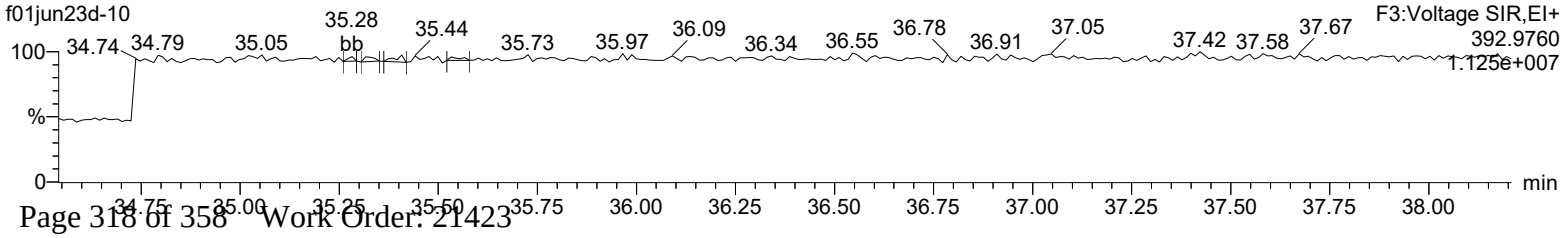


Lock Mass F3



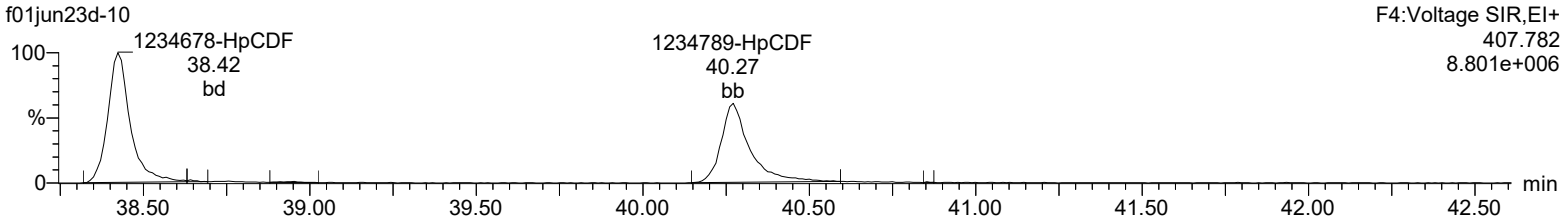
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

Total-heptafurans



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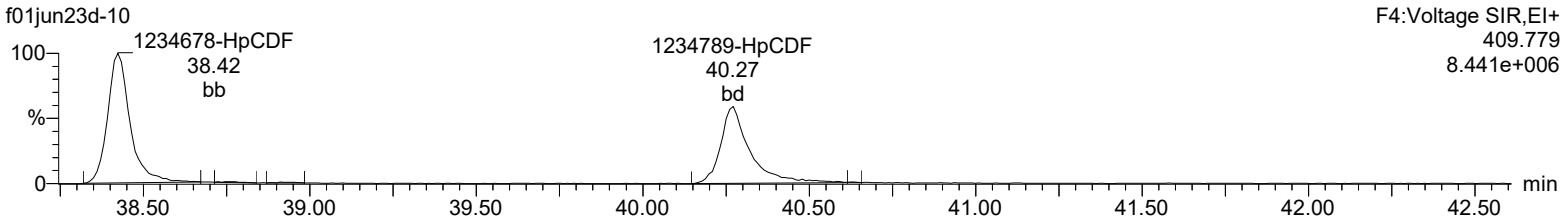

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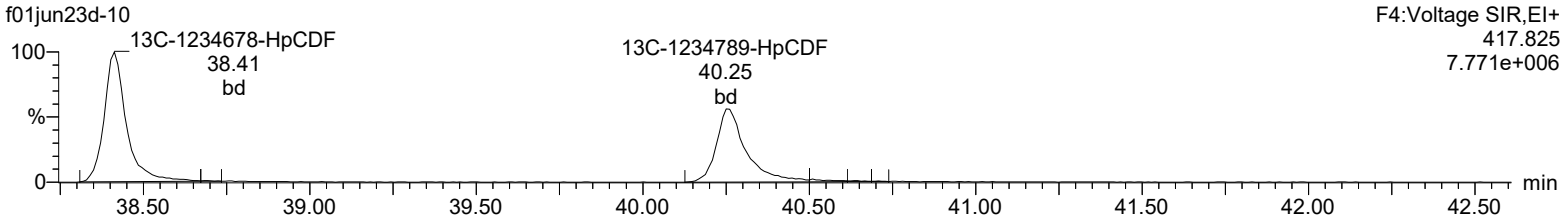

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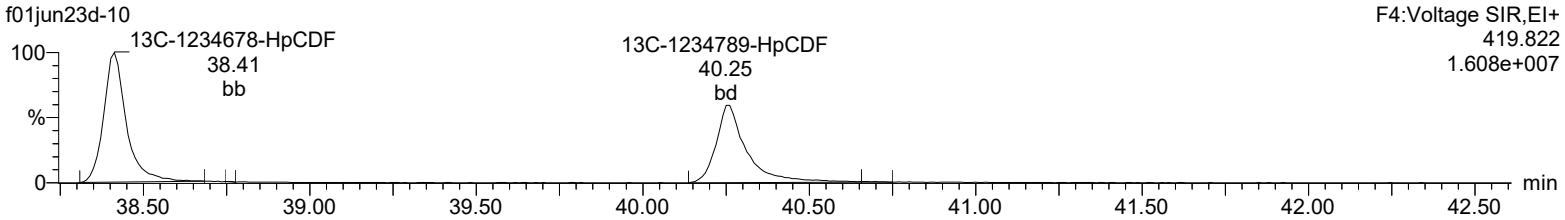

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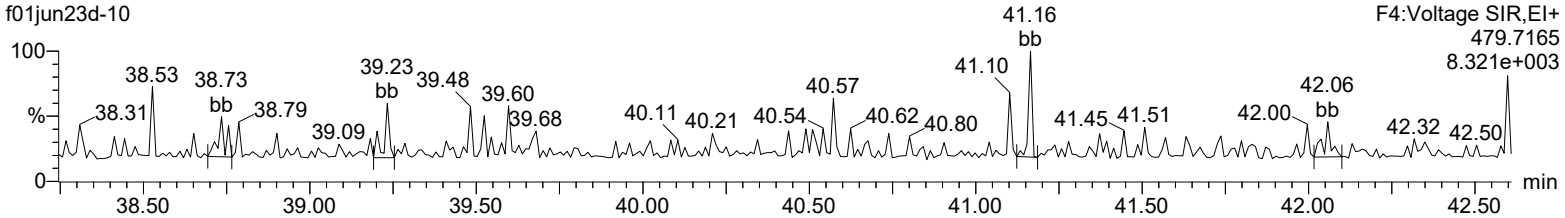

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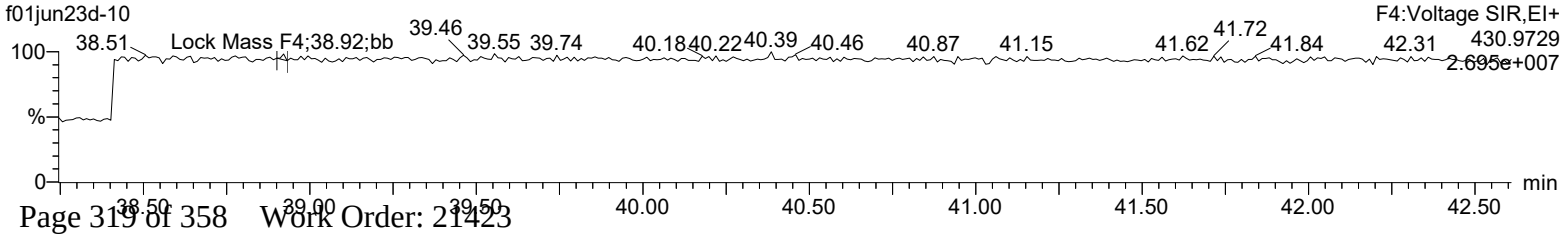

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

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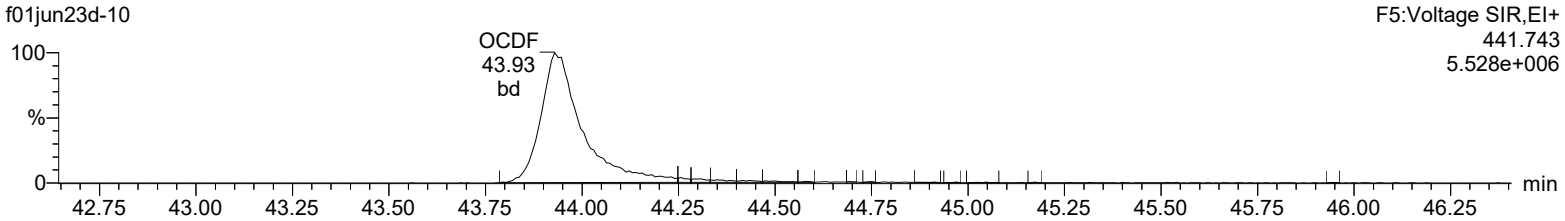

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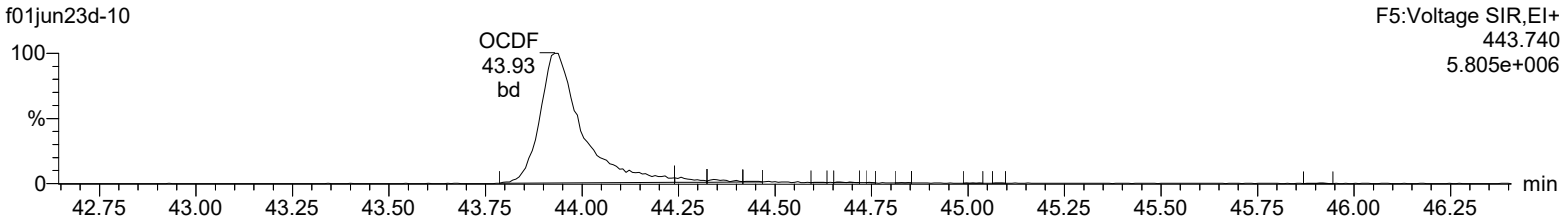

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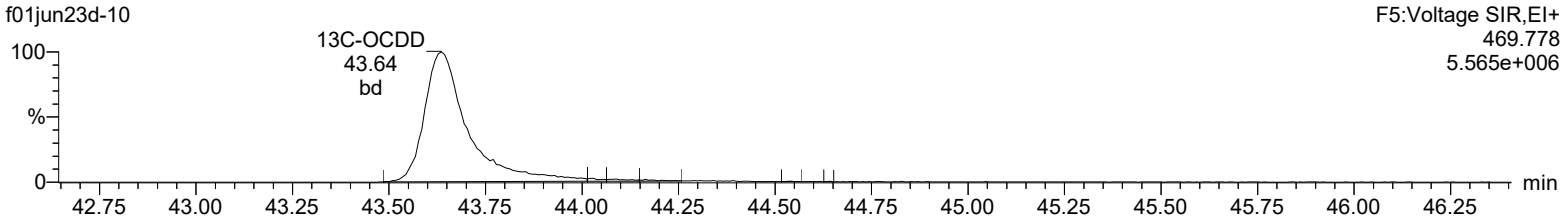

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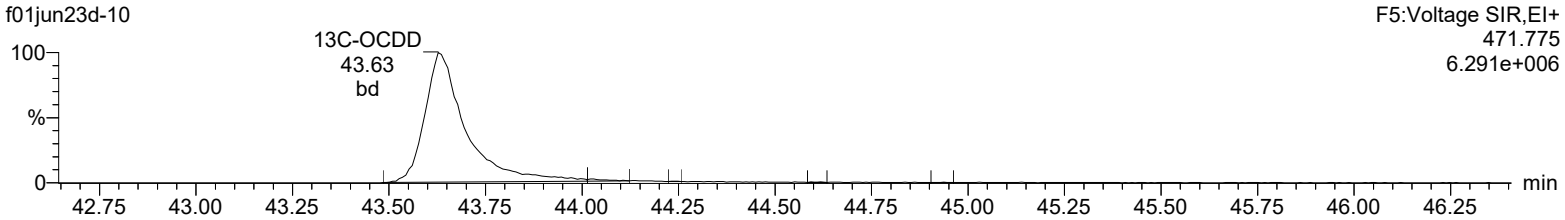

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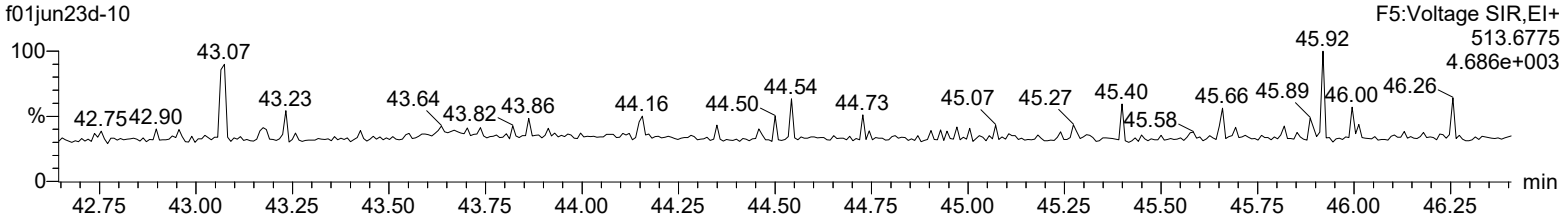

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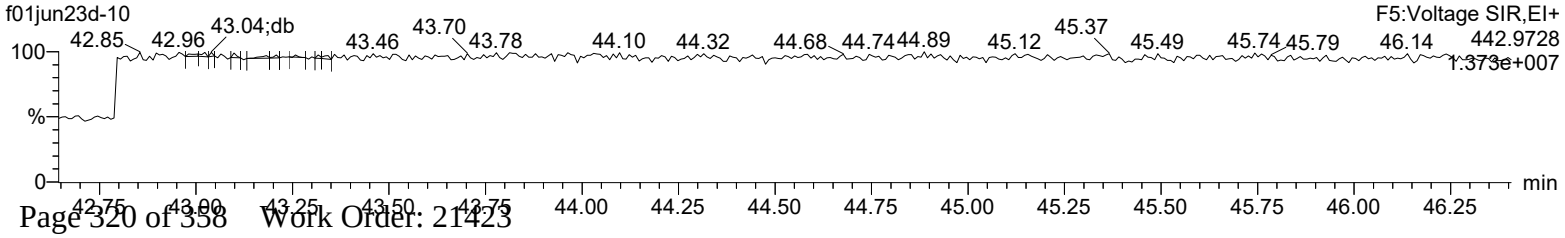

Continuing Calibration Data

RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_2-1	23-JUN-2023 21:17:40	Mallory Walton	SB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-2	23-JUN-2023 22:05:15	Mallory Walton	21266014-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-3	23-JUN-2023 22:54:09	Mallory Walton	21266015-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-4	23-JUN-2023 23:43:03	Mallory Walton	21266016-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-5 RR c/o	24-JUN-2023 00:31:58	Mallory Walton	21266017-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-6	24-JUN-2023 01:20:52	Mallory Walton	21266018-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-7	24-JUN-2023 02:09:46	Mallory Walton	21266019-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-8	24-JUN-2023 02:58:40	Mallory Walton	21266020-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-9	24-JUN-2023 03:47:34	Mallory Walton	21400001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-10	24-JUN-2023 04:36:29	Mallory Walton	21400002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-11	24-JUN-2023 05:25:25	Mallory Walton	21400003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-12	24-JUN-2023 06:14:18	Mallory Walton	21400004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-13	24-JUN-2023 07:03:11	Mallory Walton	21400005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-14	24-JUN-2023 07:52:07	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
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f23jun23a_3-2	24-JUN-2023 09:36:20	Mallory Walton	12034327-1 LCSD		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-3	24-JUN-2023 10:25:15	Mallory Walton	12034325-1 MB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-4	24-JUN-2023 11:14:10	Mallory Walton	21423001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-5	24-JUN-2023 12:03:04	Mallory Walton	21423002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-6	24-JUN-2023 12:52:04	Mallory Walton	21423003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-7	24-JUN-2023 13:41:03	Mallory Walton	21423004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-8	24-JUN-2023 14:29:57	Mallory Walton	21423005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-9	24-JUN-2023 15:18:53	Mallory Walton	21309001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-10	24-JUN-2023 16:07:53	Mallory Walton	21309002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-11	24-JUN-2023 16:56:51	Mallory Walton	21309003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-12	24-JUN-2023 17:45:46	Mallory Walton	21309004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-13	24-JUN-2023 18:34:41	Mallory Walton	21309005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-14	24-JUN-2023 19:23:35	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

Printed: Friday, June 23, 2023 21:17:36 Eastern Daylight Time

06/26/2023 06/26/2023

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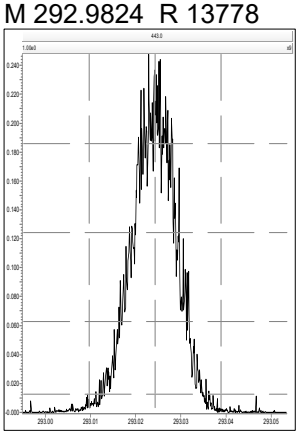

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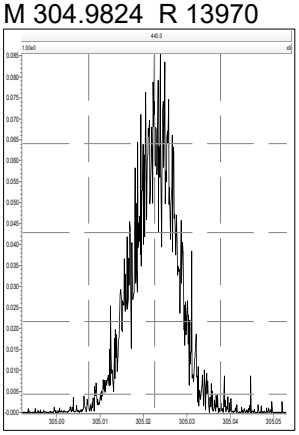

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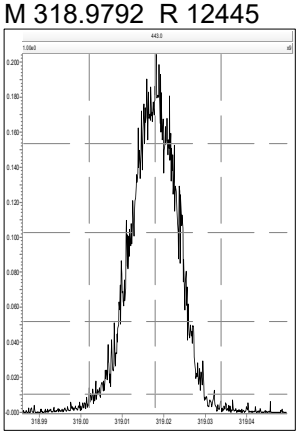

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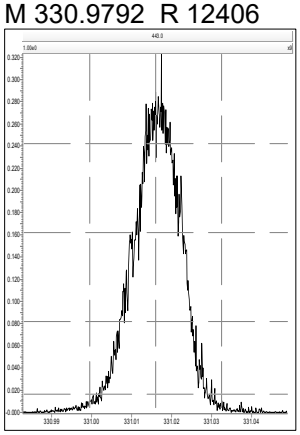

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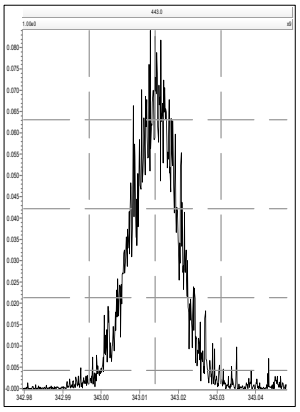

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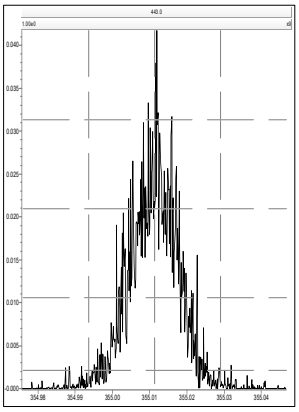

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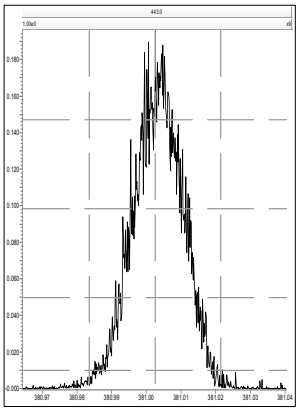

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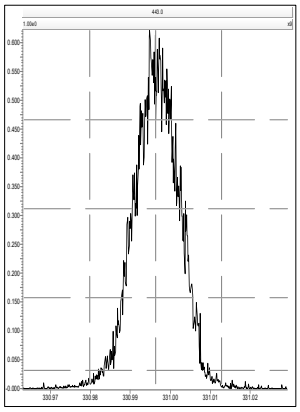

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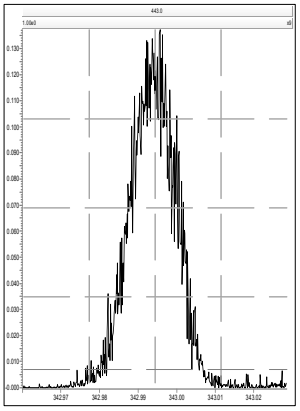

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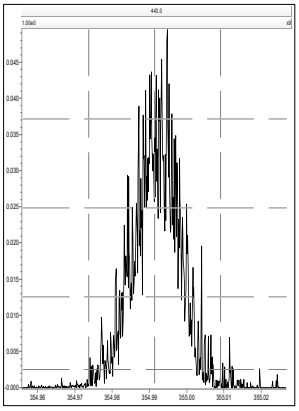

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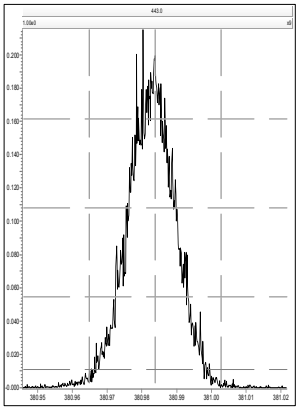

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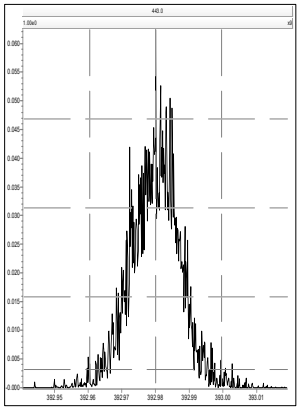

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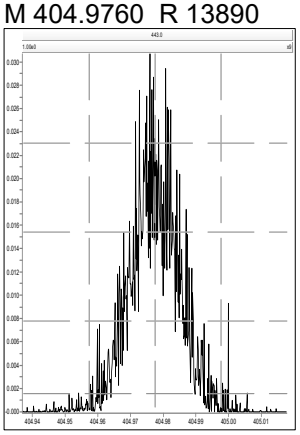

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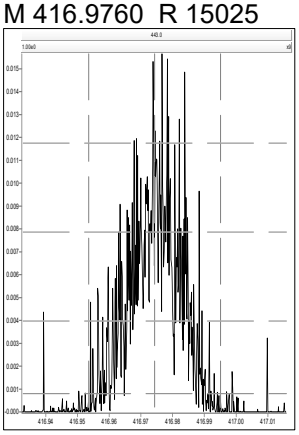

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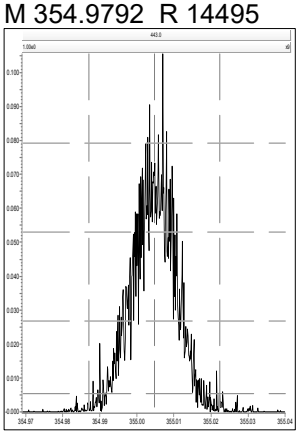

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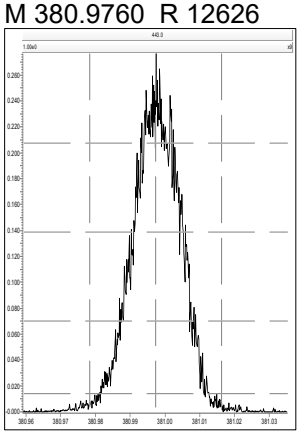

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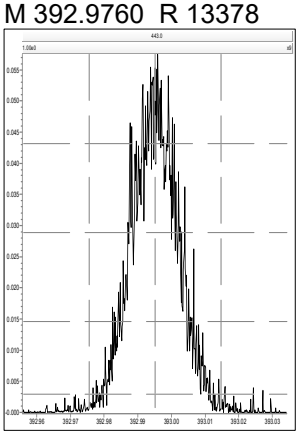

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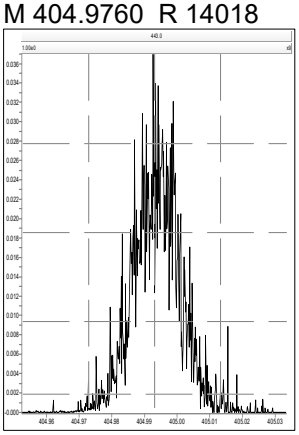

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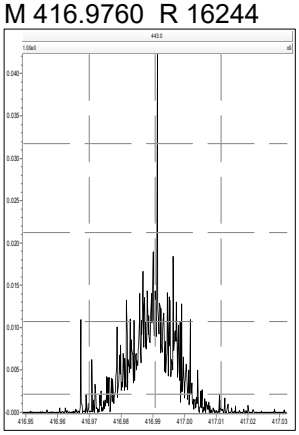

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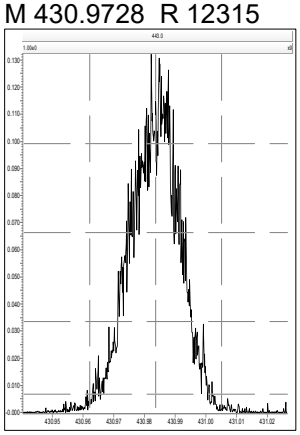

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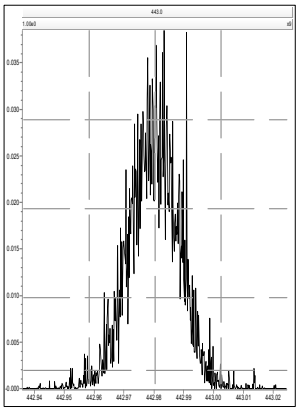

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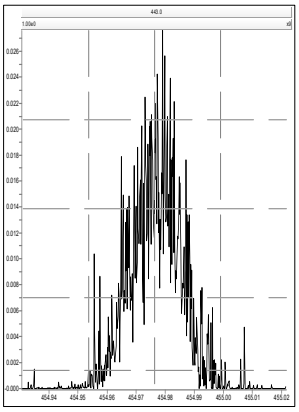

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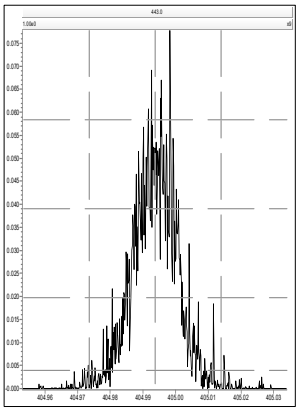

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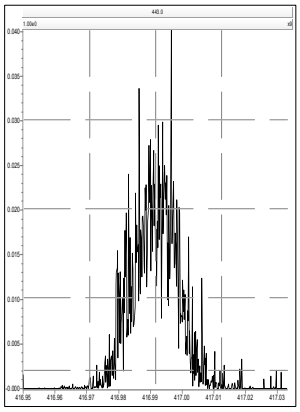

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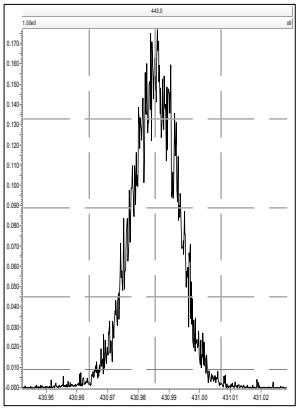

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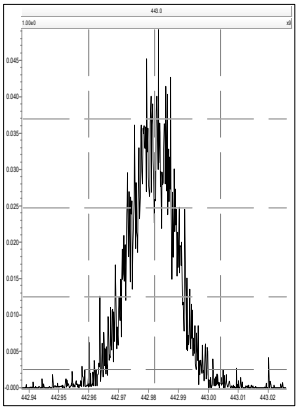

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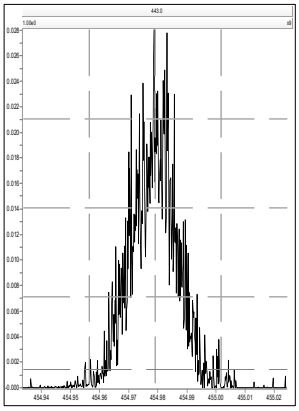

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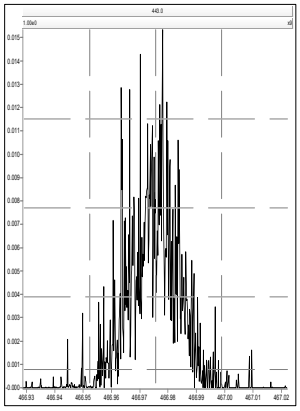
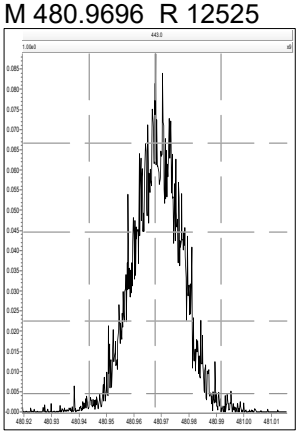


M 480.9696 R 12525



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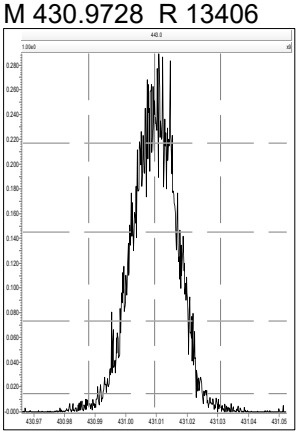

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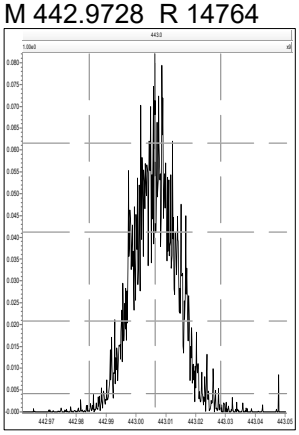

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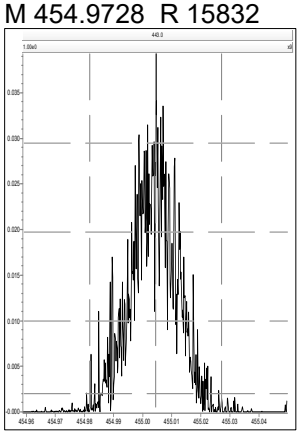
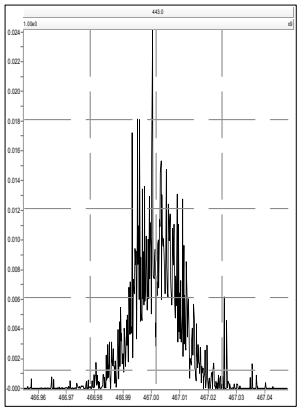


Printed: Friday, June 23, 2023 21:17:36 Eastern Daylight Time

M 466.9728 R 16124



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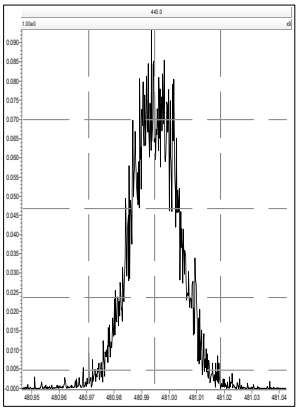

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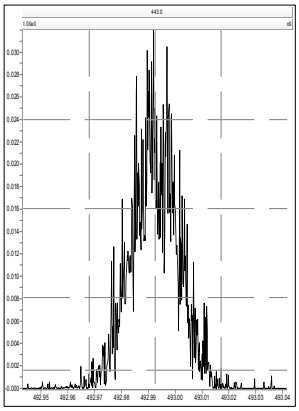
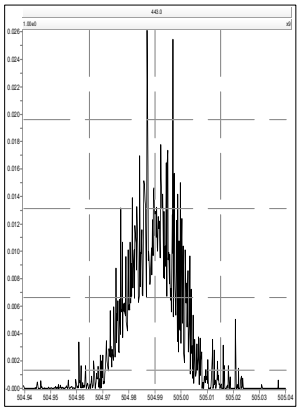
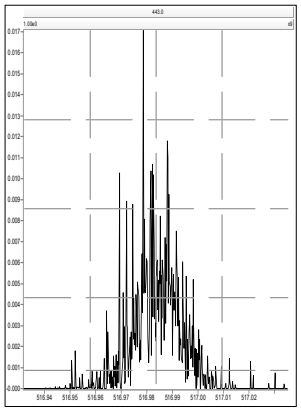


M 504.9696 R 14498



M 516.9697 R 18495



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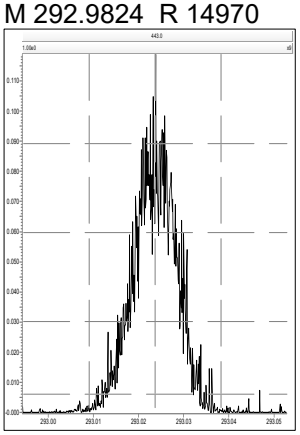
06/26/2023 06/26/2023

M 292.9824 R 14970



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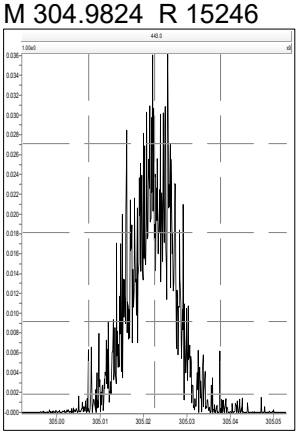
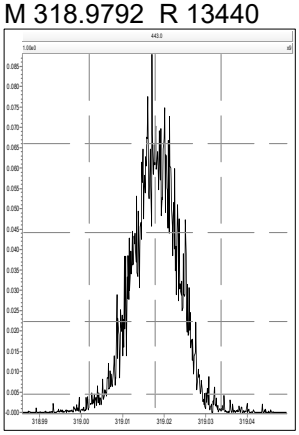


M 318.9792 R 13440



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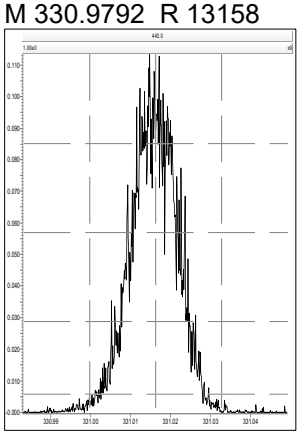
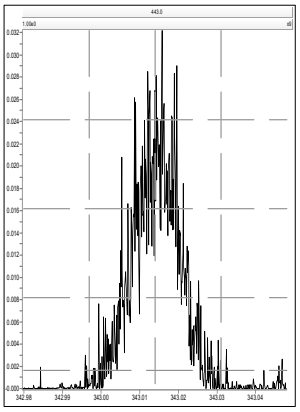
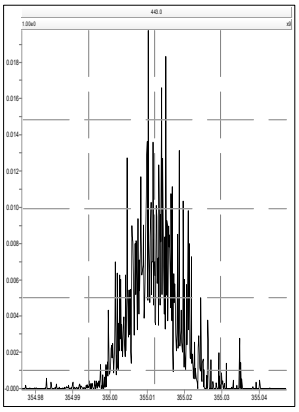


M 342.9792 R 14270



M 354.9792 R 16999



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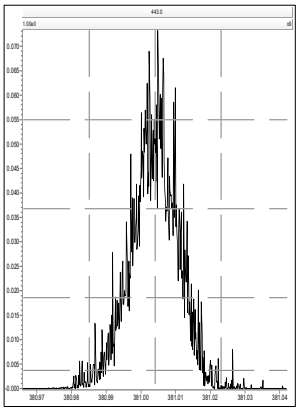

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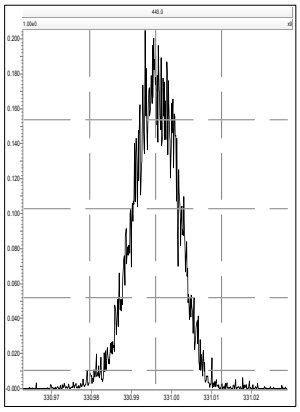

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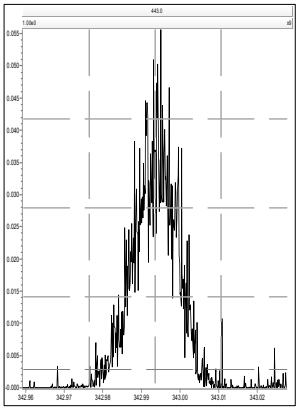

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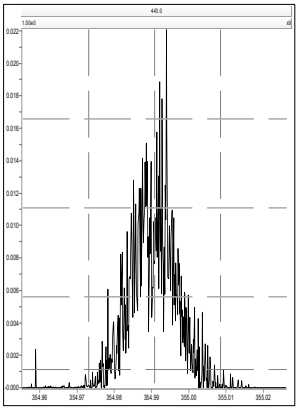

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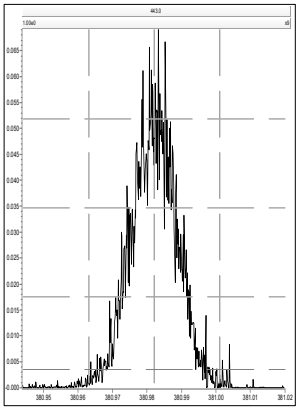
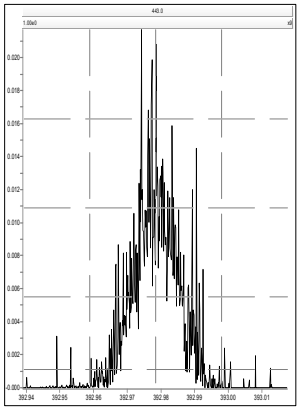


M 392.9760 R 17353



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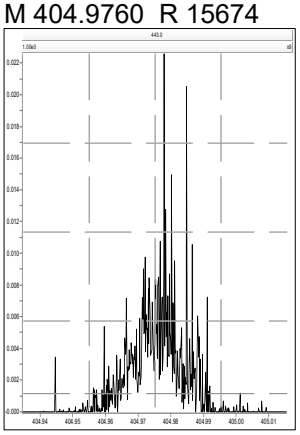
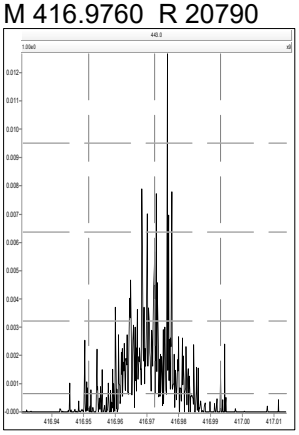
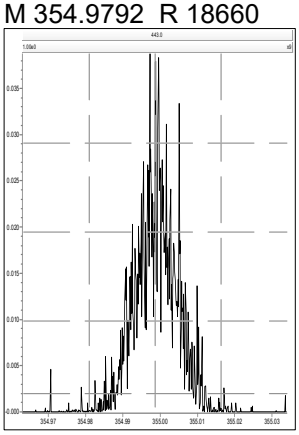


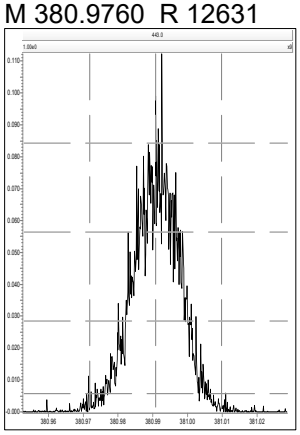
M 416.9760 R 20790



M 354.9792 R 18660



M 380.9760 R 12631



Printed: Saturday, June 24, 2023 08:48:47 Eastern Daylight Time

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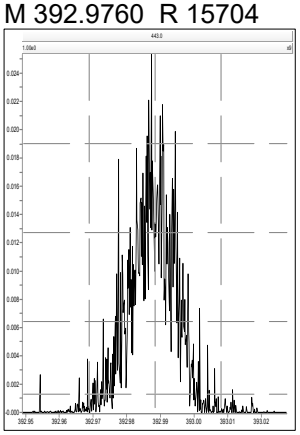
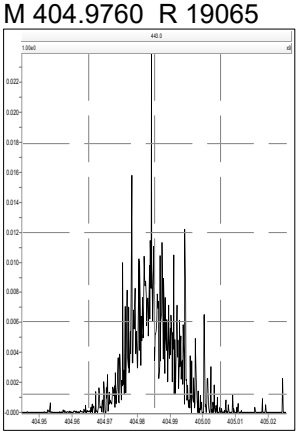


M 404.9760 R 19065



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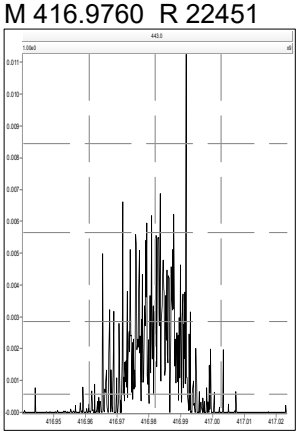
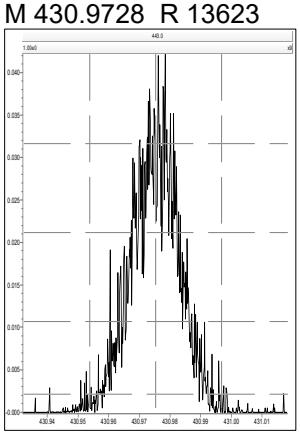
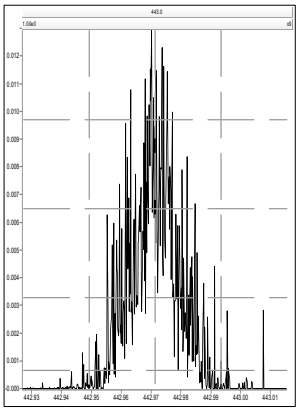


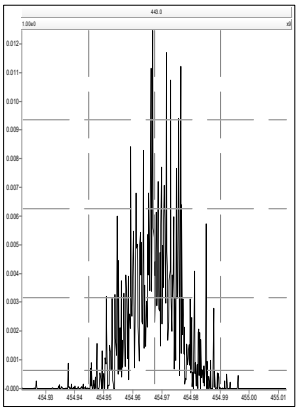
M 430.9728 R 13623



M 442.9728 R 14492



M 454.9728 R 23765



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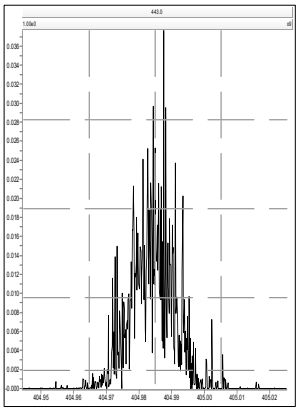
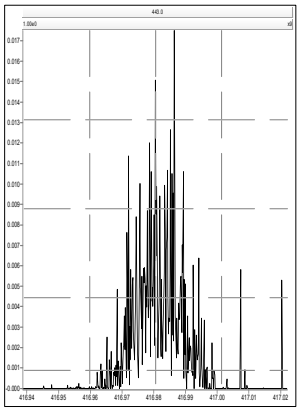
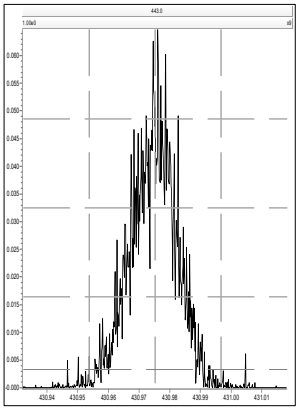


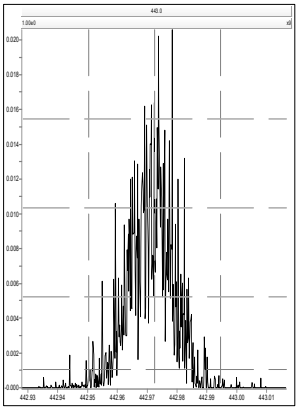
M 416.9760 R 20337



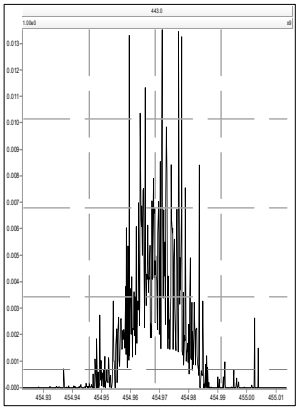
M 430.9728 R 14452



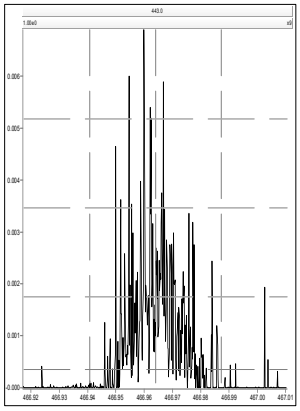
M 442.9728 R 17403



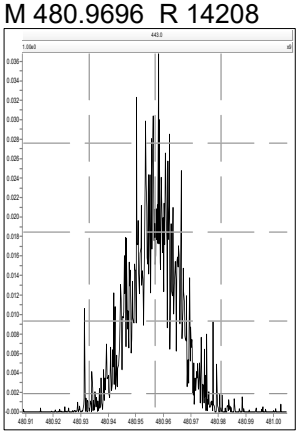
M 454.9728 R 20031



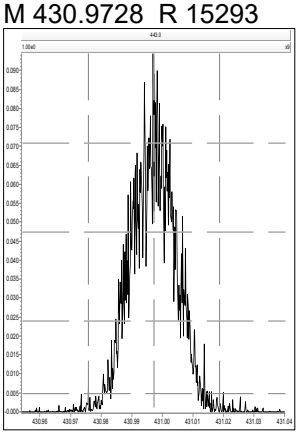
M 466.9728 R 24825



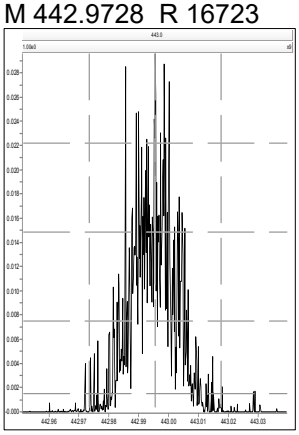
M 480.9696 R 14208



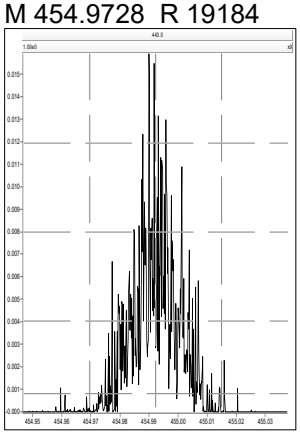
M 430.9728 R 15293



M 442.9728 R 16723

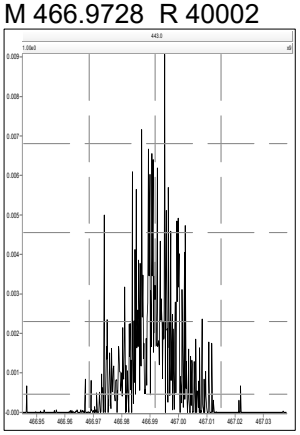


M 454.9728 R 19184

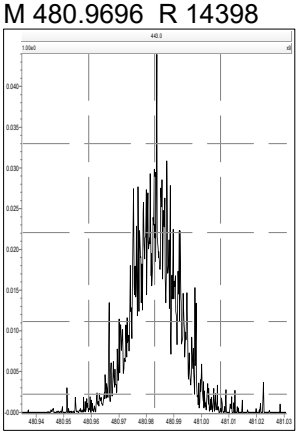


Printed: Saturday, June 24, 2023 08:48:47 Eastern Daylight Time

M 466.9728 R 40002



M 480.9696 R 14398



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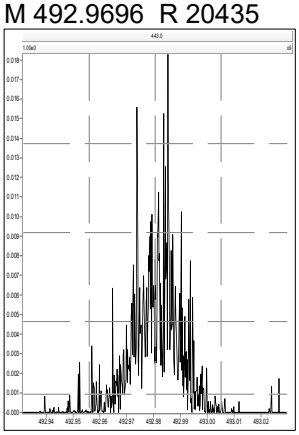
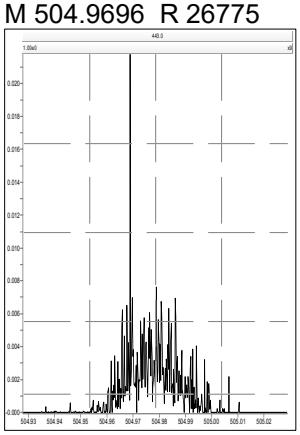
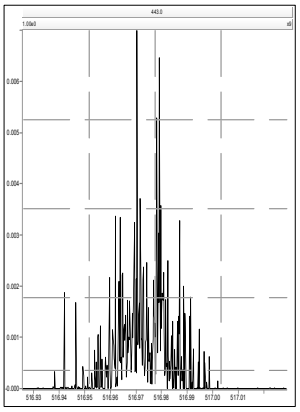


M 504.9696 R 26775



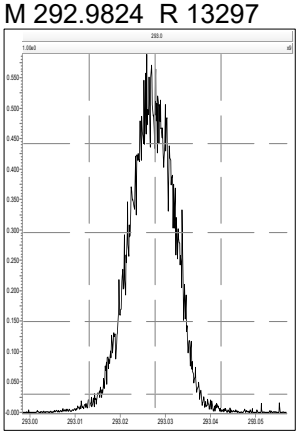
M 516.9697 R 37302



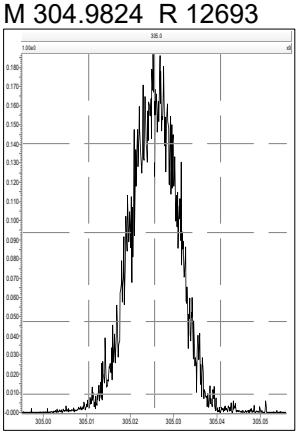
Printed: Saturday, June 24, 2023 20:20:15 Eastern Daylight Time

06/26/2023 06/26/2023

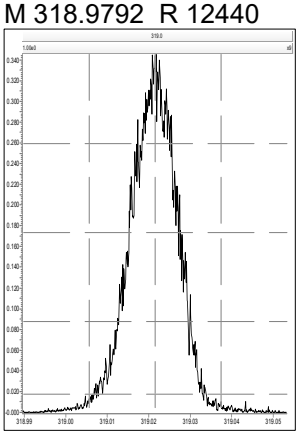
M 292.9824 R 13297



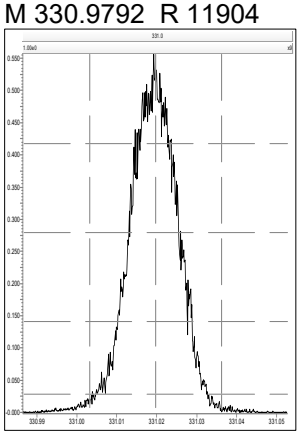
M 304.9824 R 12693



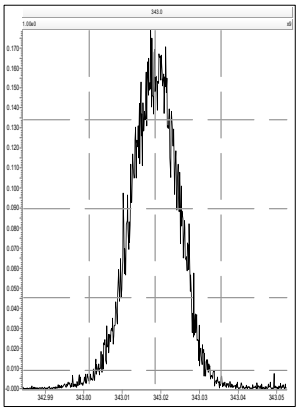
M 318.9792 R 12440



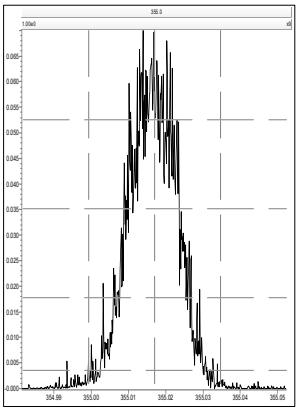
M 330.9792 R 11904



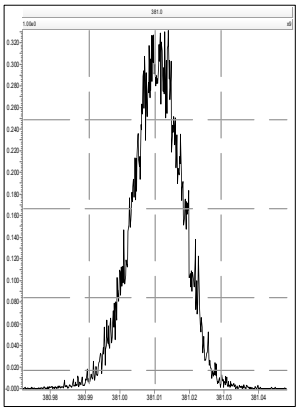
M 342.9792 R 12626



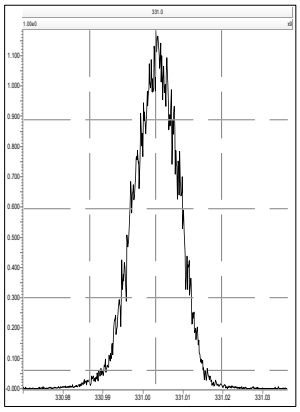
M 354.9792 R 12872



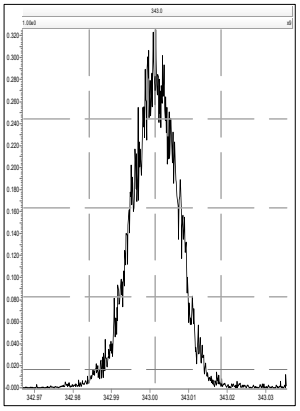
M 380.9760 R 11682



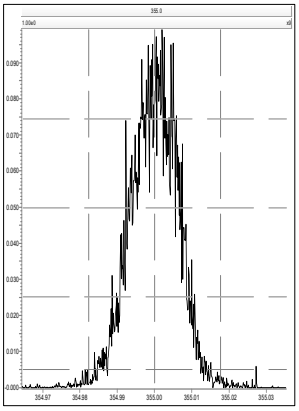
M 330.9792 R 13661



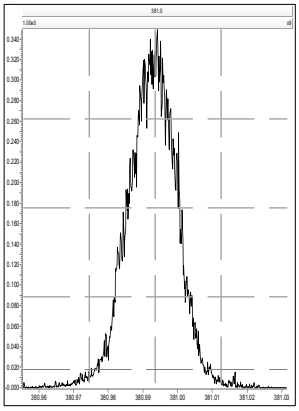
M 342.9792 R 13094



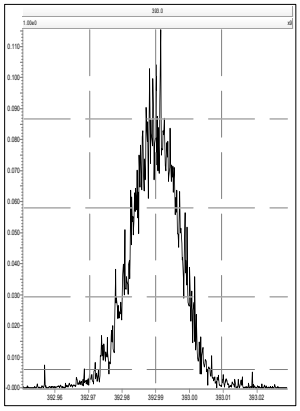
M 354.9792 R 13416



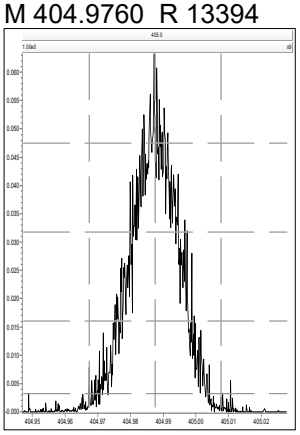
M 380.9760 R 12594



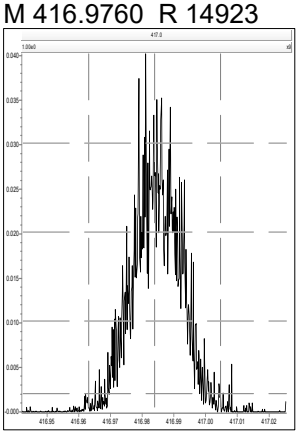
M 392.9760 R 14097



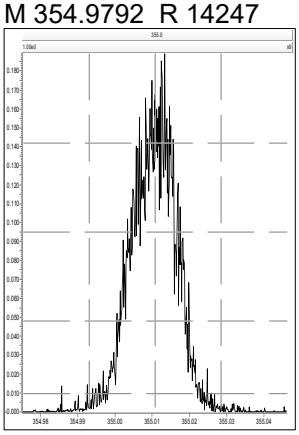
M 404.9760 R 13394



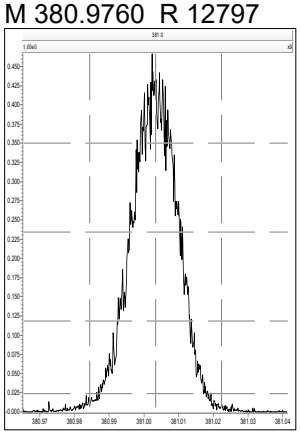
M 416.9760 R 14923



M 354.9792 R 14247



M 380.9760 R 12797



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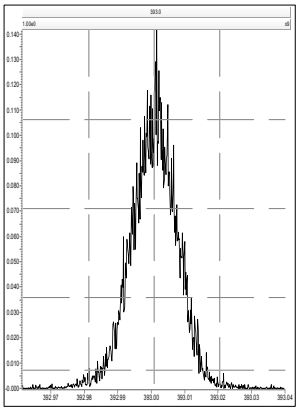
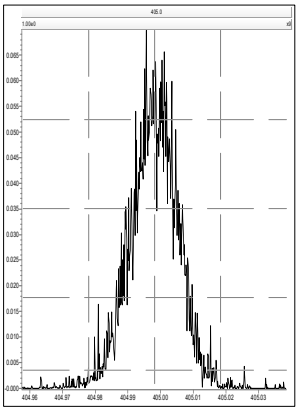
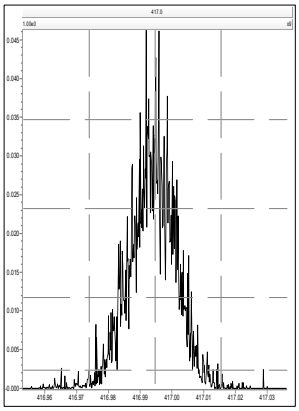
M 392.9760 R 12926



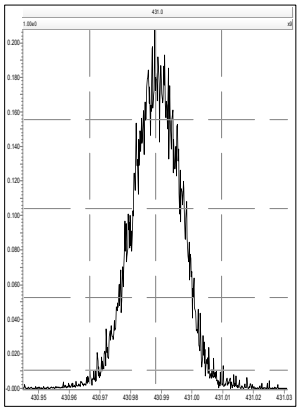
M 404.9760 R 13477



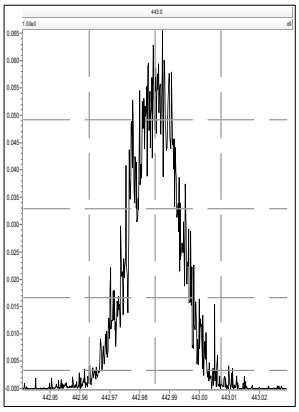
M 416.9760 R 13670



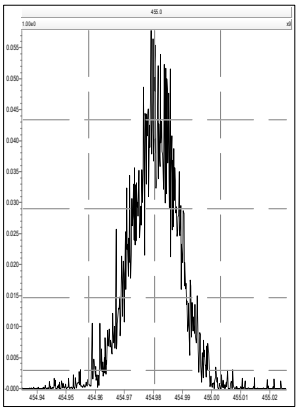
M 430.9728 R 12046



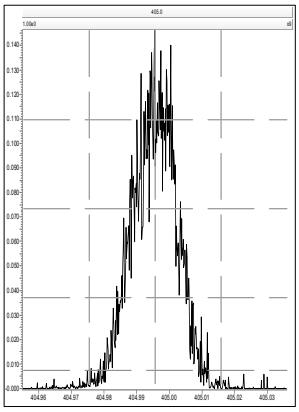
M 442.9728 R 12354



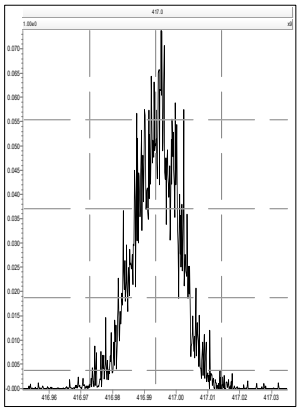
M 454.9728 R 13240



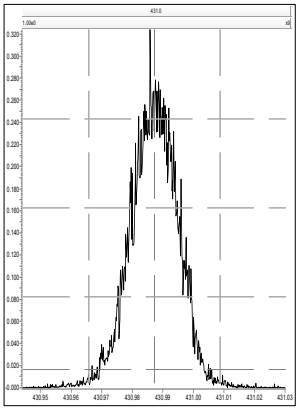
M 404.9760 R 13862



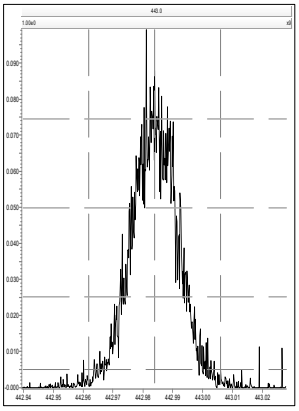
M 416.9760 R 13826



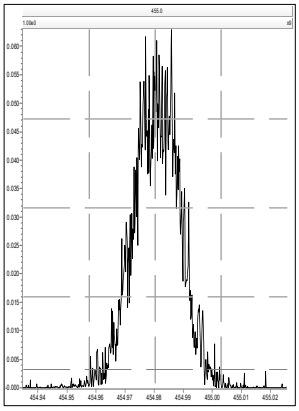
M 430.9728 R 12535



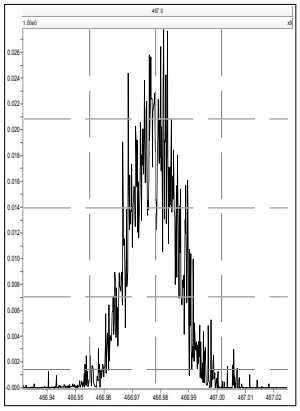
M 442.9728 R 13132



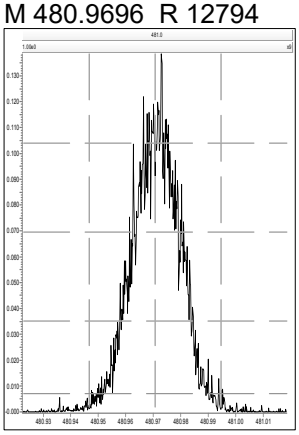
M 454.9728 R 13700



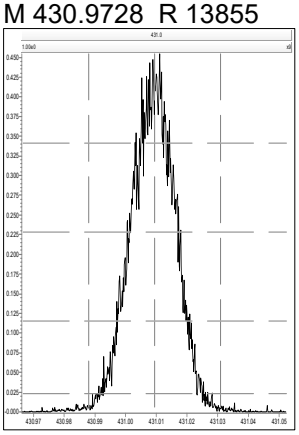
M 466.9728 R 14947



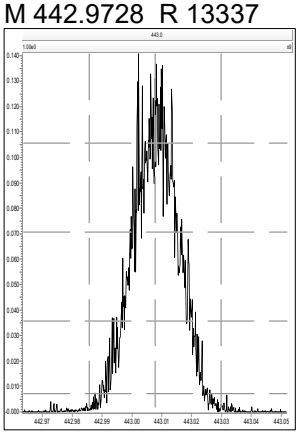
M 480.9696 R 12794



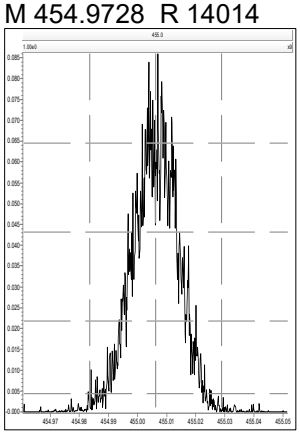
M 430.9728 R 13855



M 442.9728 R 13337



M 454.9728 R 14014



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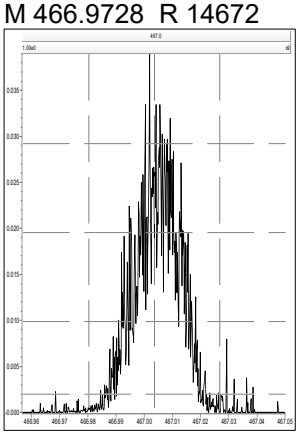
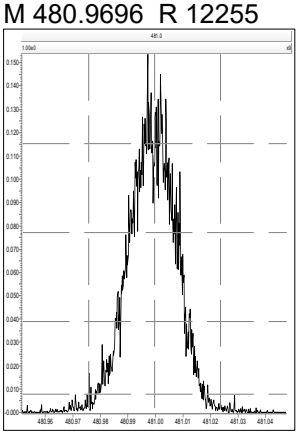
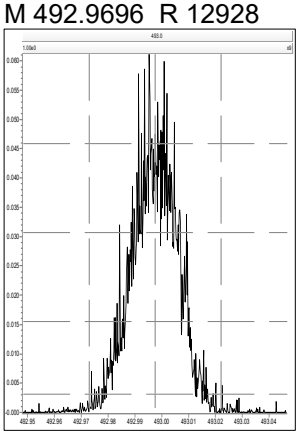
M 466.9728 R 14672



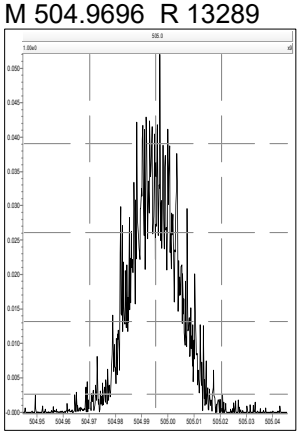
M 480.9696 R 12255



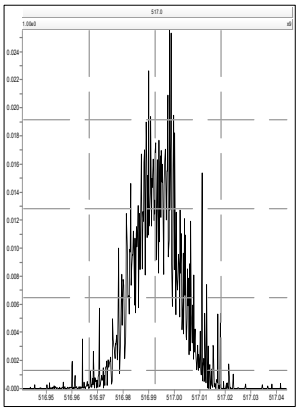
M 492.9696 R 12928



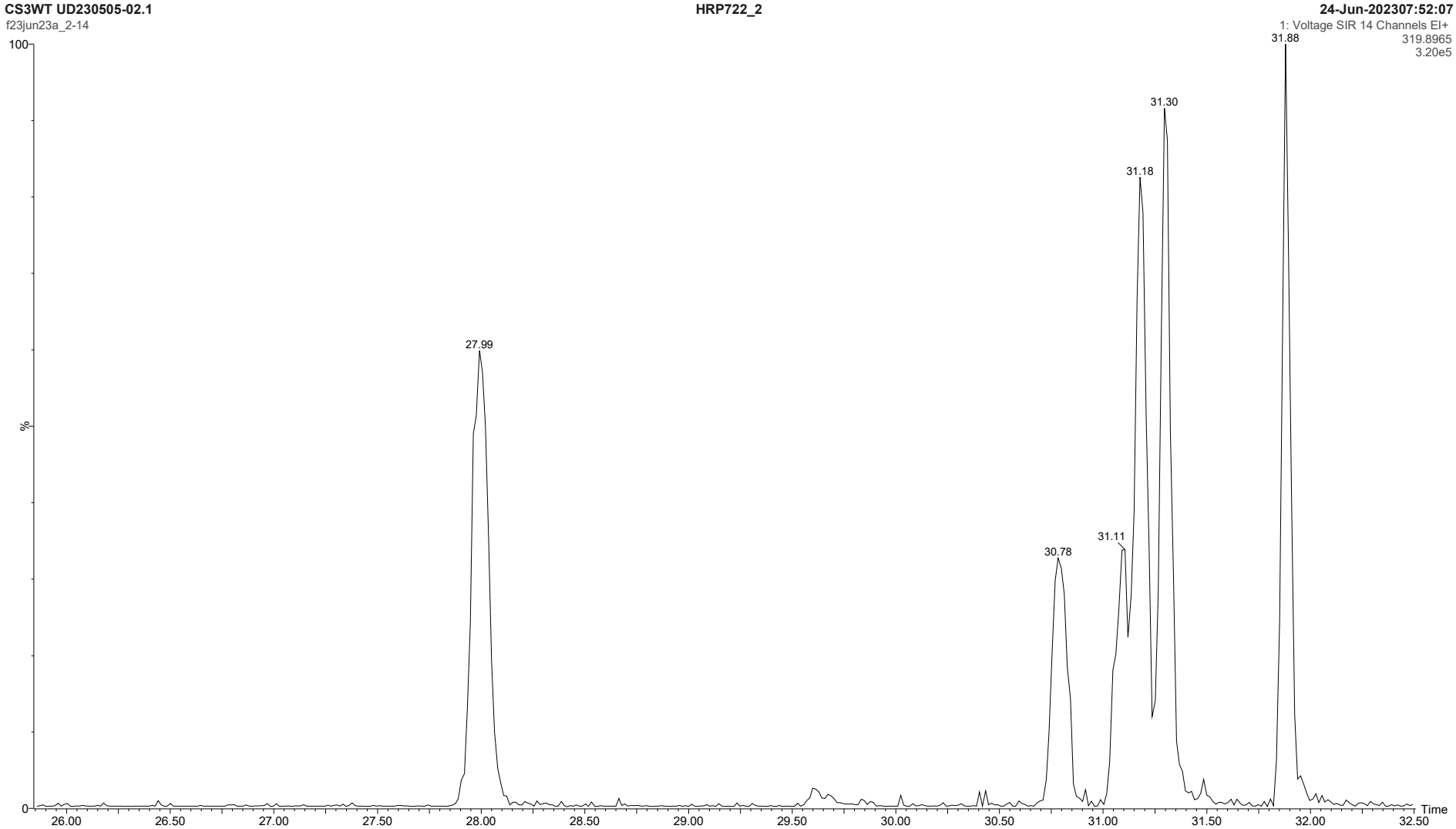
M 504.9696 R 13289



M 516.9697 R 14495



COLUMN CHECK (2378-TCDD 13%)



06/26/2023 06/26/2023

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:07 Eastern Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

	Name	RT
1	First TCDF	26.27
2	Last TCDF	31.97
3	First PeCDF	31.94
4	Last PeCDF	34.62
5	First HxCDF	35.10
6	Last HxCDF	37.43
7	First HpCDF	38.90
8	Last HpCDF	40.83
9	OCDF	44.68
10	First TCDD	27.99
11	2378-TCDD	31.30
12	Last TCDD	31.88
13	First PeCDD	32.81
14	Last PeCDD	34.42
15	First HxCDD	35.53
16	Last HxCDD	37.10
17	First HpCDD	39.23
18	Last HpCDD	40.16
19	OCDD	44.38

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

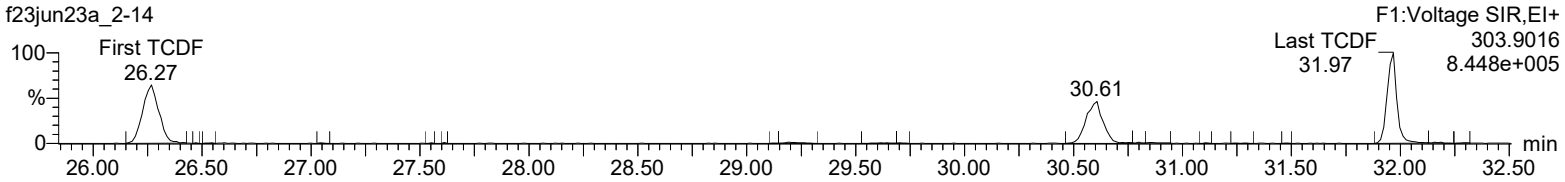
Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

06/26/2023

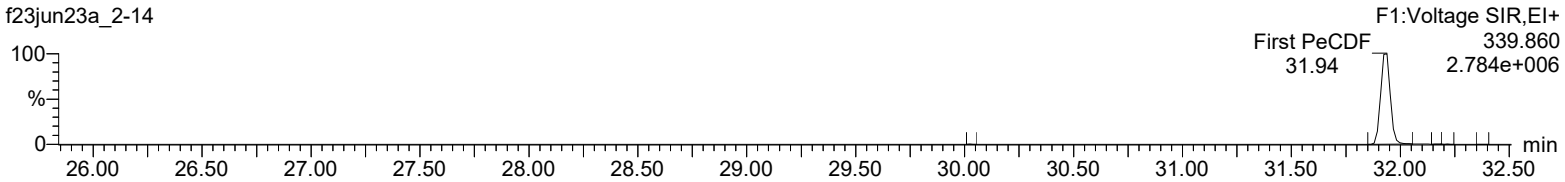
Method: C:\MassLynx\Default.PRO\MethDB\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

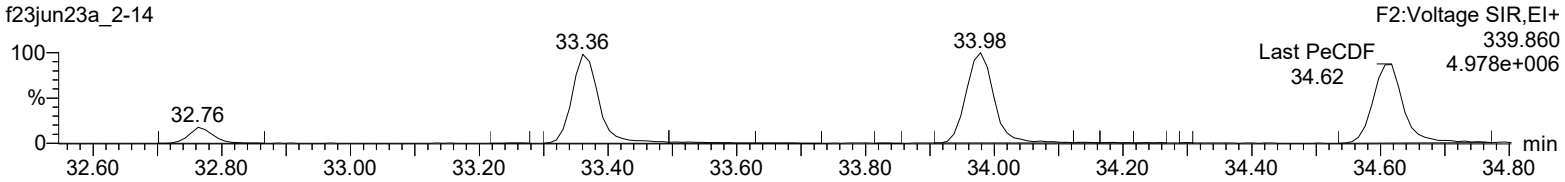
First TCDF



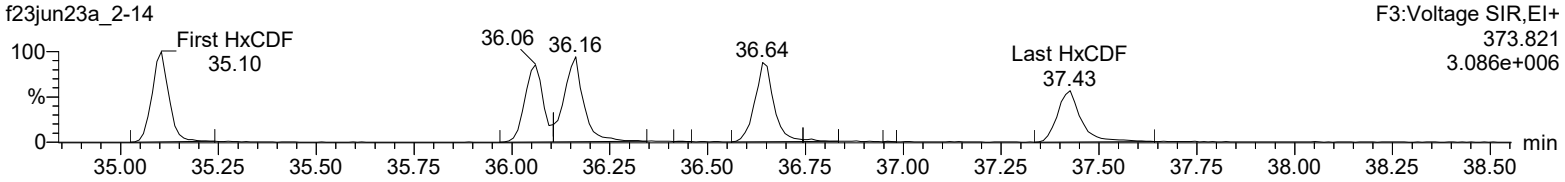
First PeCDF



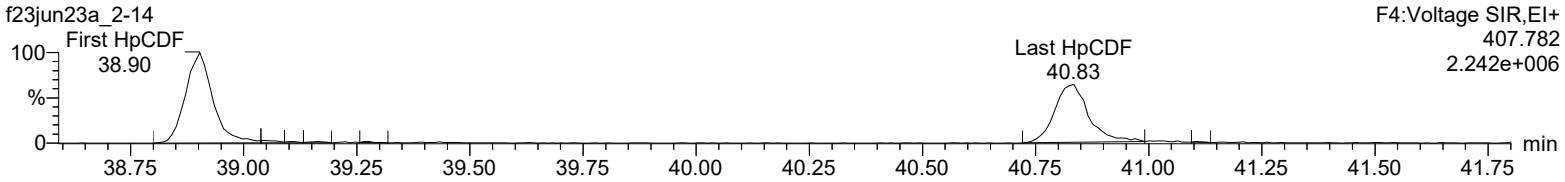
Last PeCDF



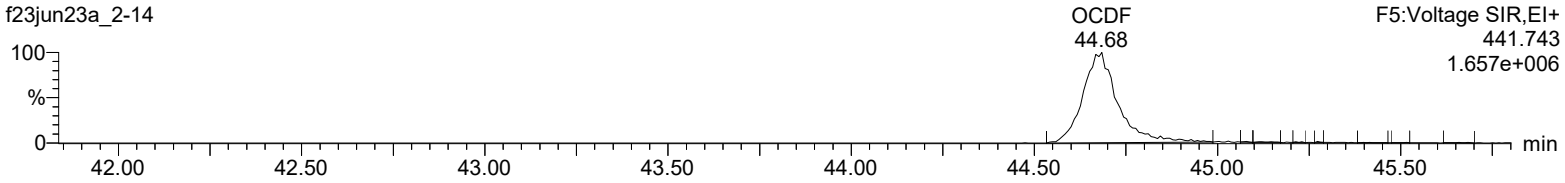
First HxCDF



First HpCDF



OCDF



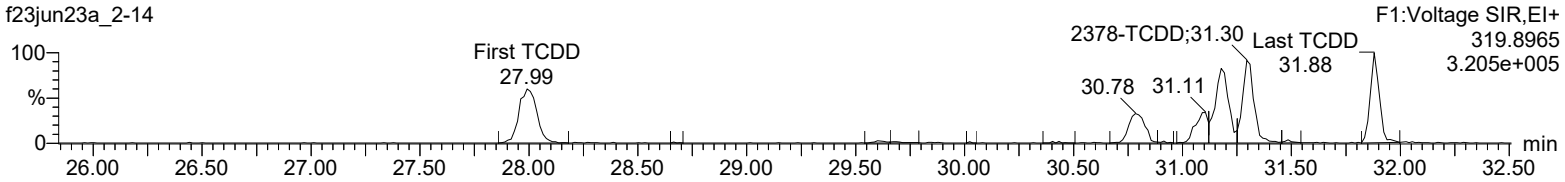
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

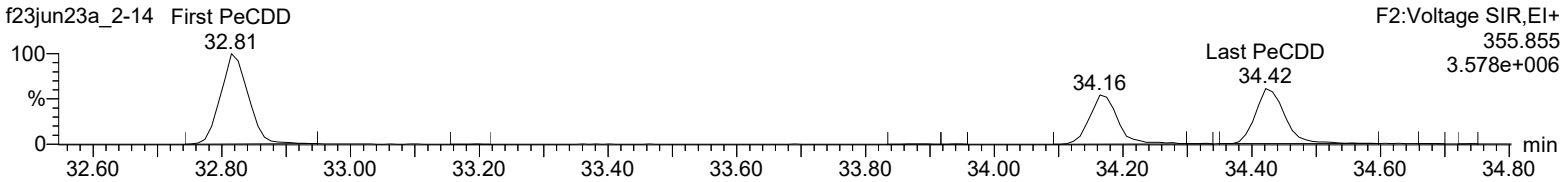
Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

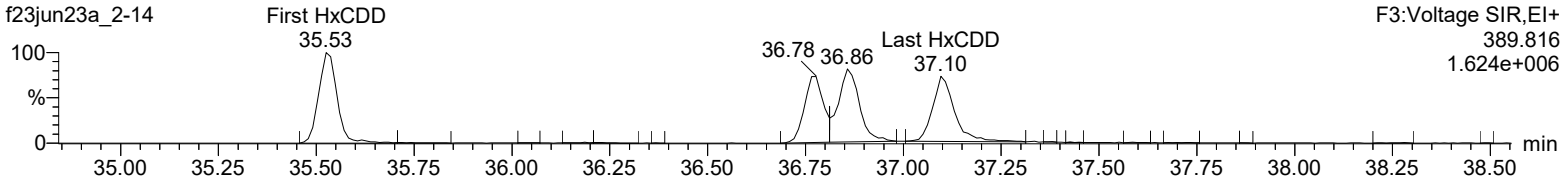
First TCDD



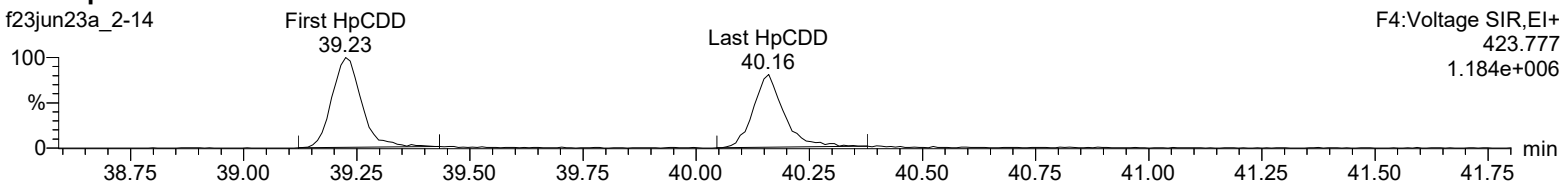
First PeCDD



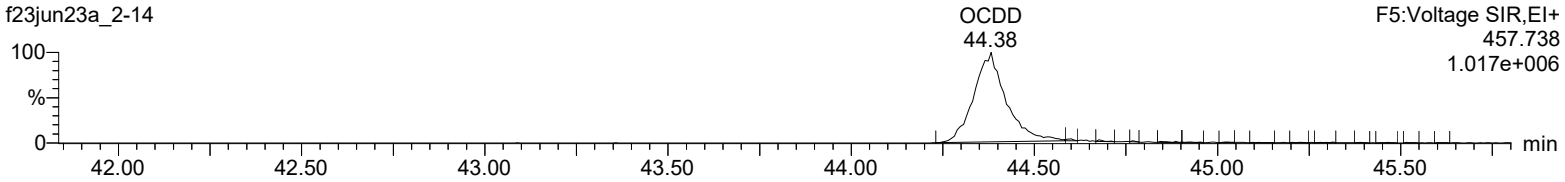
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.76e4	2.33e4	4.09e4	31.30	1.000	0.75	NO	10.683	0.144	1.175	1.100	6.8	2.92e5	1873	156.0	3.60e5	1588	226.4	dd	dd
2	12378-PeCDD	9.84e4	5.77e4	1.56e5	34.16	1.000	1.70	NO	49.179	0.624	1.145	1.164	-1.6	1.94e6	7931	244.8	1.11e6	7205	154.6	bd	bd
3	123478-HxCDD	6.71e4	5.39e4	1.21e5	36.78	1.000	1.25	NO	49.110	0.572	1.053	1.073	-1.8	1.19e6	5099	233.7	9.45e5	4898	193.0	bd	bd
4	123678-HxCDD	8.49e4	7.04e4	1.55e5	36.86	1.000	1.21	NO	50.570	0.511	1.076	1.064	1.1	1.33e6	5099	259.9	1.05e6	4898	213.6	dd	dd
5	123789-HxCDD	7.94e4	6.32e4	1.43e5	37.10	1.007	1.26	NO	51.601	0.539	1.100	1.066	3.2	1.19e6	5099	232.9	8.95e5	4898	182.8	db	dd
6	1234678-HpCDD	7.45e4	6.46e4	1.39e5	40.16	1.001	1.15	NO	49.634	1.07	1.219	1.228	-0.7	9.55e5	7380	129.3	8.26e5	7105	116.3	bb	bb
7	OCDD	1.02e5	1.12e5	2.14e5	44.38	1.001	0.92	NO	100.217	1.36	1.109	1.107	0.2	1.00e6	4049	248.2	1.02e6	6612	154.6	bd	bd
8	2378-TCDF	3.50e4	4.33e4	7.83e4	30.61	1.001	0.81	NO	10.401	0.174	1.407	1.352	4.0	3.90e5	2447	159.5	4.43e5	2973	148.9	bd	bd
9	12378-PeCDF	2.33e5	1.42e5	3.75e5	33.36	1.000	1.64	NO	53.395	0.396	1.360	1.274	6.8	4.89e6	11430	427.9	2.85e6	11658	244.9	bd	bd
10	23478-PeCDF	2.47e5	1.48e5	3.96e5	33.98	1.000	1.67	NO	51.596	0.370	1.439	1.394	3.2	4.96e6	11430	434.0	3.14e6	11658	269.8	bd	bb
11	123478-HxCDF	1.43e5	1.08e5	2.51e5	36.06	1.000	1.32	NO	49.038	0.445	1.391	1.418	-1.9	2.63e6	8750	300.0	1.94e6	7817	247.7	bd	bd
12	123678-HxCDF	1.65e5	1.28e5	2.94e5	36.16	1.000	1.29	NO	48.941	0.426	1.349	1.378	-2.1	2.89e6	8750	330.3	2.16e6	7817	275.8	db	db
13	234678-HxCDF	1.51e5	1.12e5	2.64e5	36.64	1.000	1.35	NO	48.111	0.471	1.368	1.422	-3.8	2.70e6	8750	308.0	1.99e6	7817	254.2	bd	bb
14	123789-HxCDF	1.20e5	8.73e4	2.07e5	37.43	1.000	1.37	NO	50.722	0.683	1.321	1.302	1.4	1.74e6	8750	198.8	1.25e6	7817	159.5	bb	bd
15	1234678-HpCDF	1.56e5	1.56e5	3.12e5	38.90	1.001	1.00	NO	51.885	0.528	1.436	1.384	3.8	2.24e6	9736	230.0	2.19e6	8260	265.6	bd	bd
16	1234789-HpCDF	1.25e5	1.22e5	2.46e5	40.83	1.001	1.02	NO	52.252	0.837	1.425	1.364	4.5	1.43e6	9736	147.1	1.43e6	8260	173.6	bb	bb
17	OCDF	1.81e5	1.95e5	3.76e5	44.68	1.007	0.93	NO	111.040	0.933	1.946	1.752	11.0	1.65e6	7700	214.2	1.71e6	3911	438.5	bb	bd
18	13C-2378-TCDD	1.57e5	1.91e5	3.48e5	31.28	1.017	0.82	NO	96.507	0.292	1.099	1.139	-3.5	2.47e6	2468	1002.7	3.07e6	2721	1128.9	bd	bd
19	13C-12378-PeCDD	1.70e5	1.03e5	2.73e5	34.15	1.110	1.65	NO	105.719	0.684	0.860	0.813	5.7	3.24e6	5614	577.6	2.00e6	3069	651.0	bd	bd
20	13C-123478-HxCDD	1.28e5	1.01e5	2.30e5	36.77	0.991	1.26	NO	96.209	0.661	0.815	0.847	-3.8	2.28e6	5266	432.1	1.86e6	3455	538.0	bd	bd
21	13C-123678-HxCDD	1.61e5	1.27e5	2.89e5	36.85	0.994	1.27	NO	99.723	0.546	1.024	1.027	-0.3	2.57e6	5266	487.7	1.98e6	3455	574.1	dd	dd
22	13C-1234678-HpCDD	1.19e5	1.09e5	2.28e5	40.14	1.082	1.09	NO	101.217	0.783	0.810	0.800	1.2	1.44e6	5267	273.0	1.32e6	4492	293.6	bd	bd
23	13C-OCDD	1.83e5	2.03e5	3.86e5	44.36	1.196	0.90	NO	210.036	1.02	0.685	0.653	5.0	1.68e6	5114	329.4	1.91e6	5285	361.5	bd	bd
24	13C-2378-TCDF	2.52e5	3.05e5	5.57e5	30.58	0.994	0.82	NO	101.262	0.238	1.756	1.734	1.3	2.61e6	4345	600.7	3.15e6	2094	1506.4	bd	bd
25	13C-12378-PeCDF	3.43e5	2.08e5	5.51e5	33.35	1.084	1.65	NO	101.177	0.964	1.739	1.719	1.2	7.13e6	15320	465.2	4.33e6	10554	410.4	bd	bd
26	13C-23478-PeCDF	3.46e5	2.04e5	5.50e5	33.97	1.104	1.69	NO	107.181	1.02	1.735	1.619	7.2	7.04e6	15320	459.6	4.25e6	10554	402.7	bd	db
27	13C-123478-HxCDF	1.24e5	2.38e5	3.62e5	36.05	0.972	0.52	NO	99.408	0.849	1.284	1.291	-0.6	2.25e6	8503	264.5	4.33e6	8555	506.0	bd	bd
28	13C-123678-HxCDF	1.52e5	2.83e5	4.35e5	36.15	0.975	0.54	NO	96.678	0.686	1.545	1.598	-3.3	2.47e6	8503	290.3	4.61e6	8555	539.3	dd	dd
29	13C-234678-HxCDF	1.34e5	2.51e5	3.86e5	36.64	0.988	0.53	NO	102.312	0.819	1.369	1.338	2.3	2.15e6	8503	253.1	4.10e6	8555	479.1	bd	bd
30	13C-123789-HxCDF	1.05e5	2.09e5	3.14e5	37.41	1.009	0.50	NO	93.610	0.921	1.114	1.190	-6.4	1.56e6	8503	183.0	2.90e6	8555	339.5	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.35e5	2.99e5	4.34e5	38.88	1.048	0.45	NO	100.345	0.789	1.542	1.537	0.3	1.92e6	7322	261.9	4.09e6	11558	353.5	bb	bd
32	13C-1234789-HpCDF	1.11e5	2.35e5	3.46e5	40.81	1.101	0.47	NO	102.489	1.01	1.228	1.198	2.5	1.27e6	7322	172.9	2.67e6	11558	231.3	bd	bd
33	13C-1234-TCDD	1.43e5	1.74e5	3.17e5	30.77	0.000	0.82	NO	100.000	0.332	1.000	1.000	0.0	1.76e6	2468	713.4	2.15e6	2721	790.2	bd	bd
34	13C-123789-HxCDD	1.56e5	1.25e5	2.82e5	37.08	0.000	1.25	NO	100.000	0.560	1.000	1.000	0.0	2.16e6	5266	410.3	1.65e6	3455	478.1	dd	dd
35	37Cl-2378-TCDD	3.63e4		3.63e4	31.30	1.017			10.192	0.105	1.146	1.124	1.9	5.81e5	1848	314.5				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

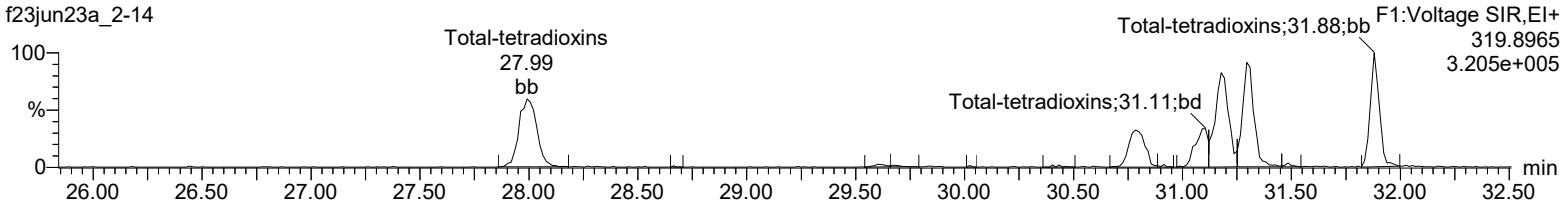
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

06/26/2023

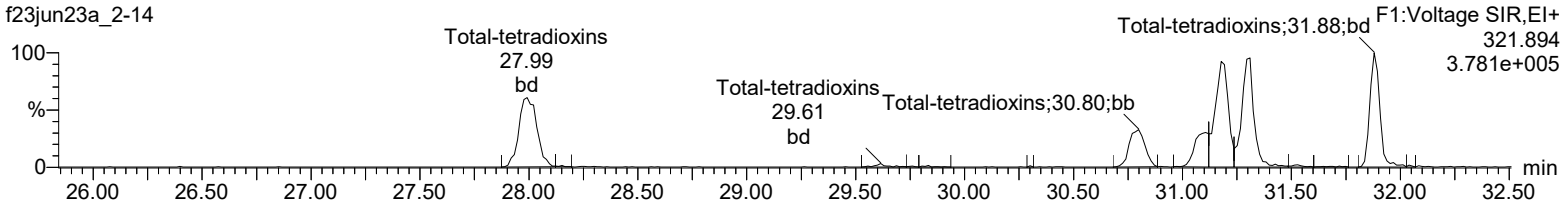
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

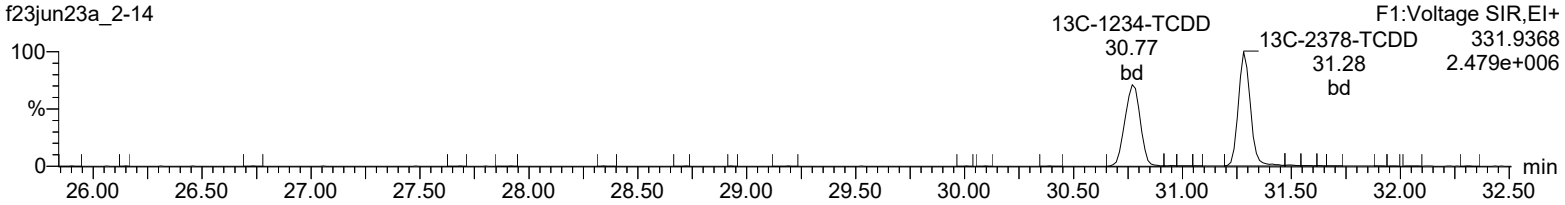
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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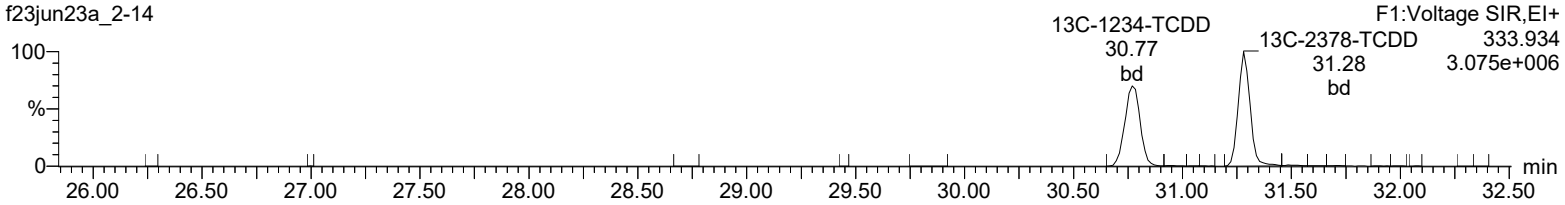

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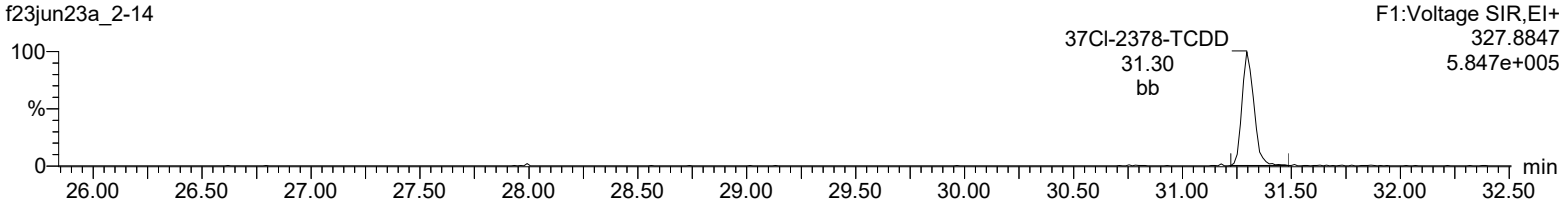
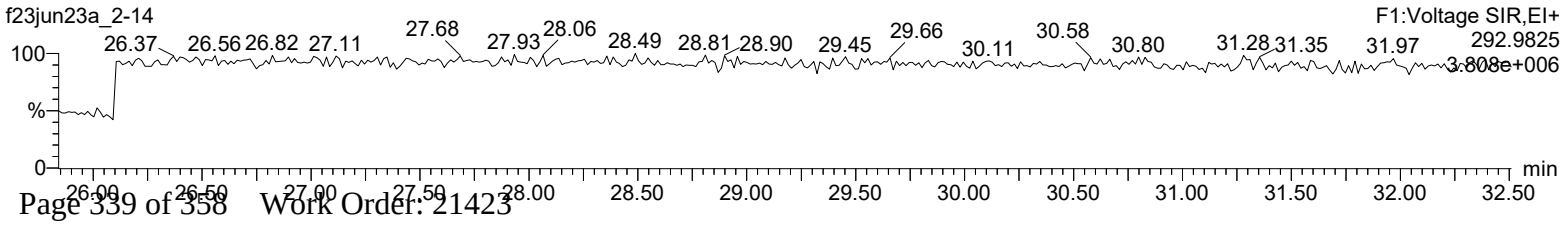


Lock Mass F1



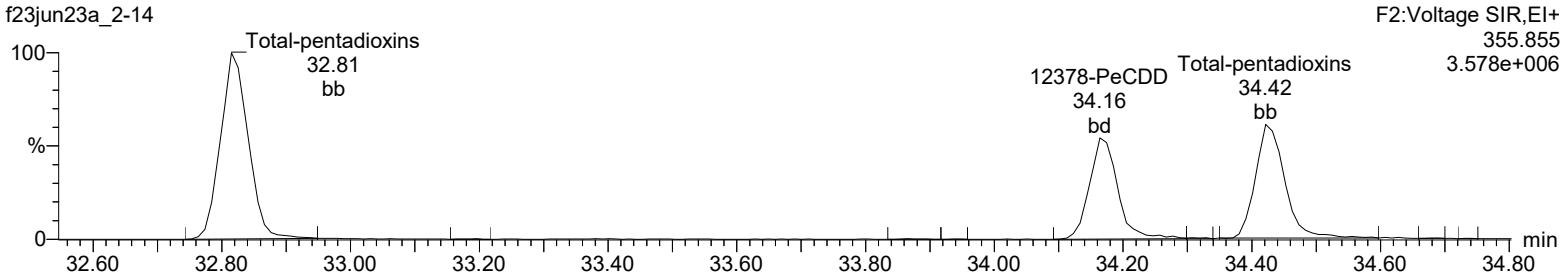
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

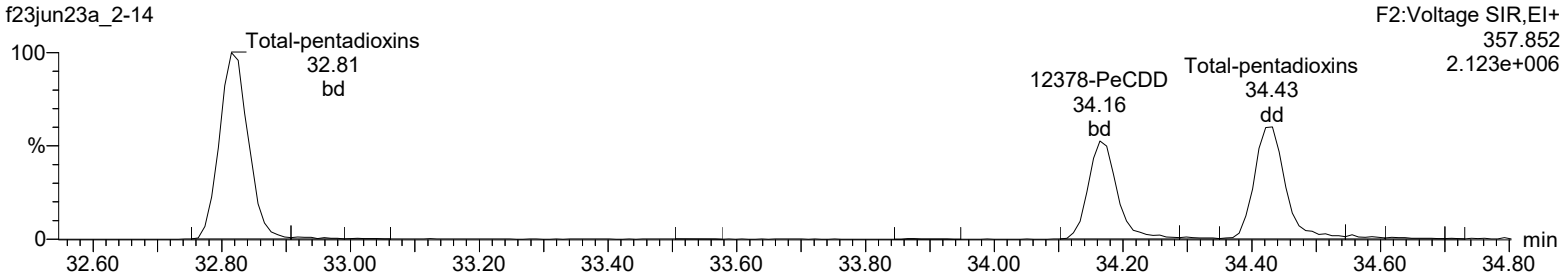
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

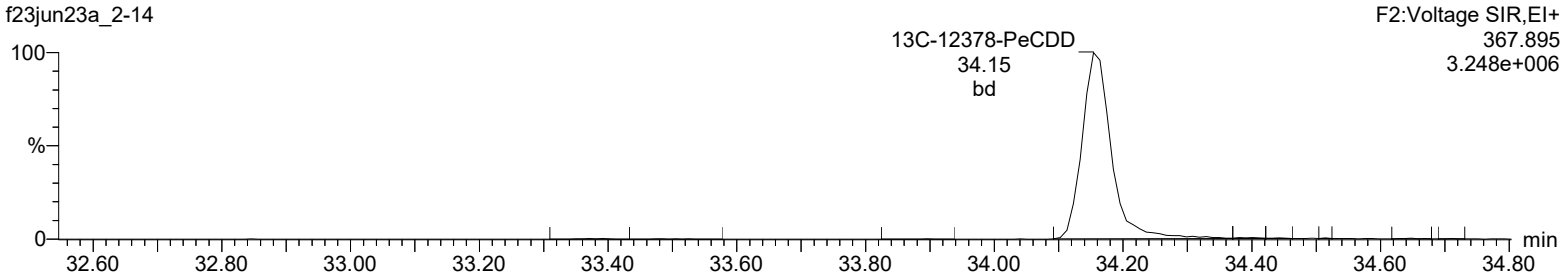
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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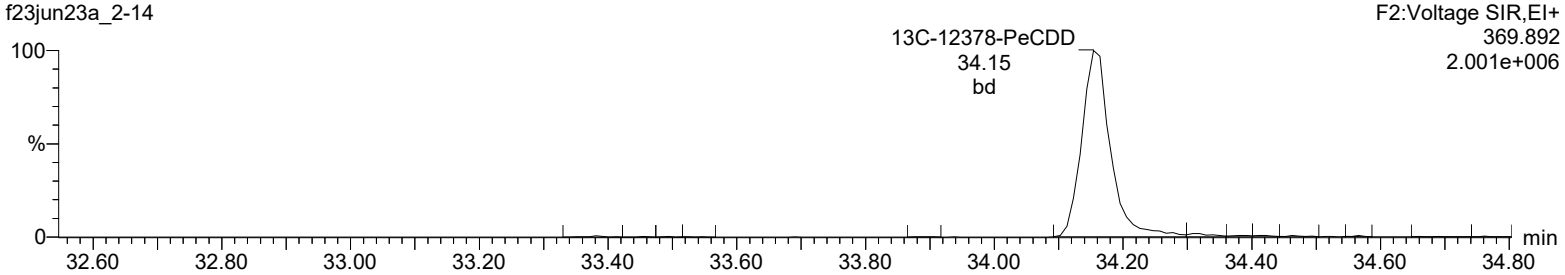
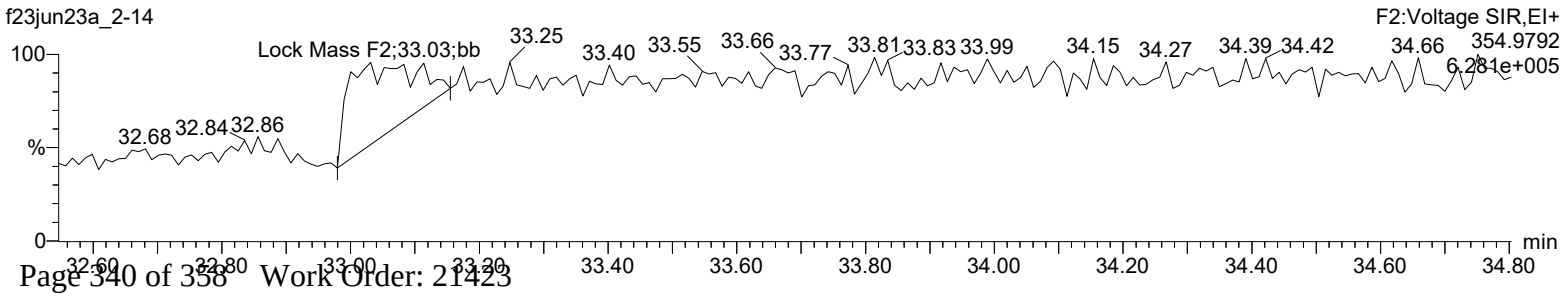


Lock Mass F2



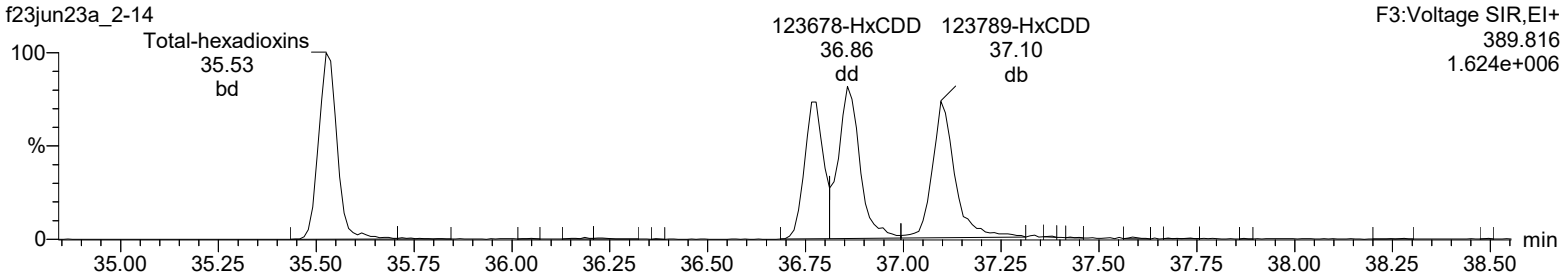
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

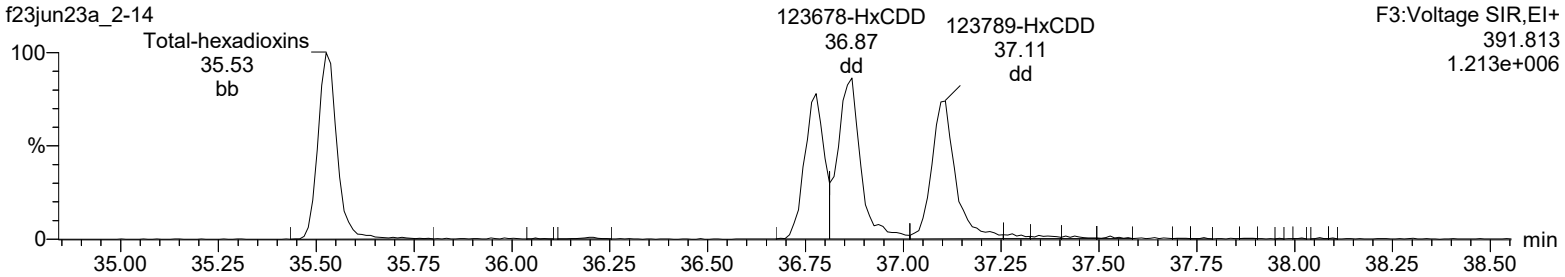
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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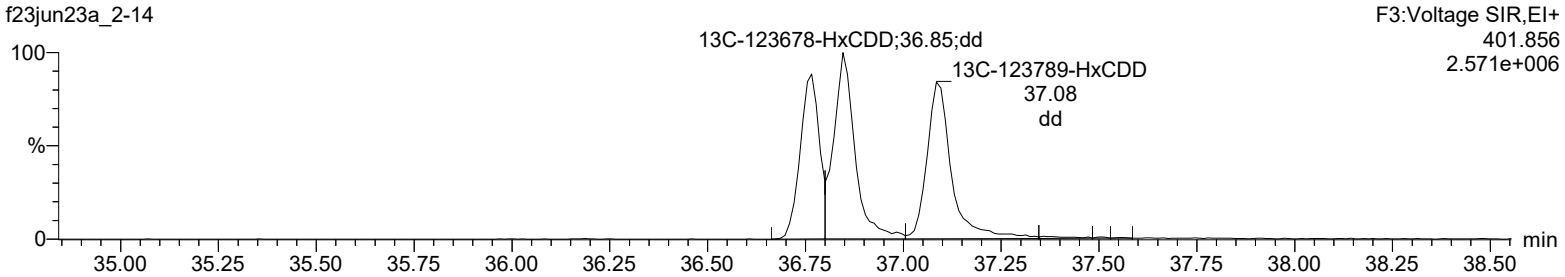

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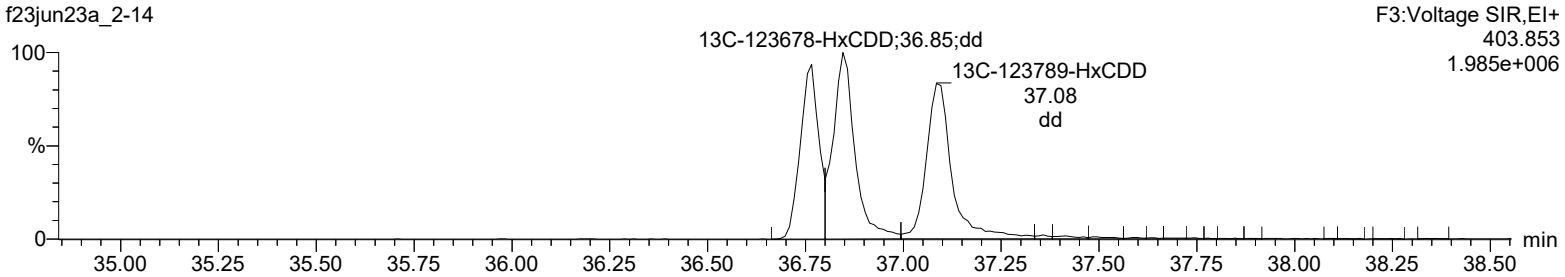
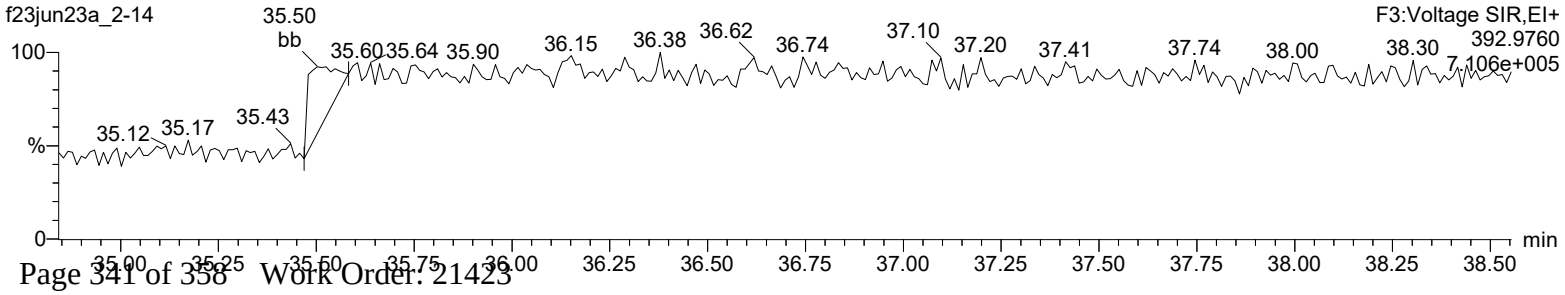


Lock Mass F3



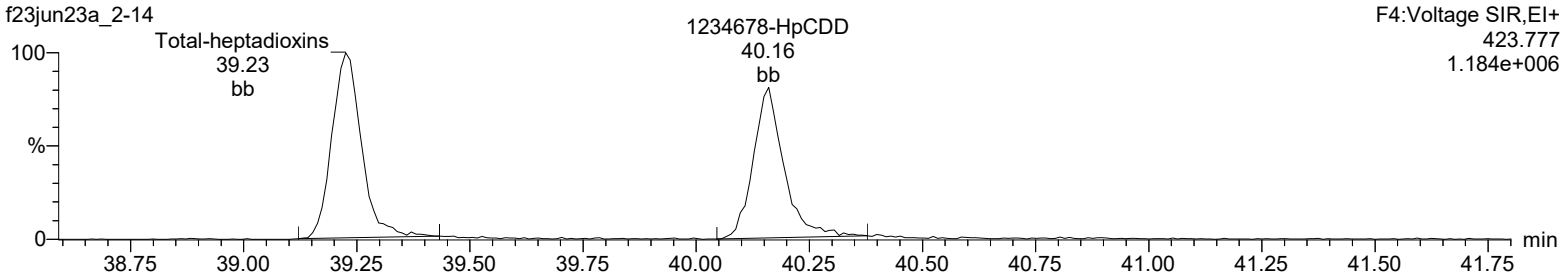
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

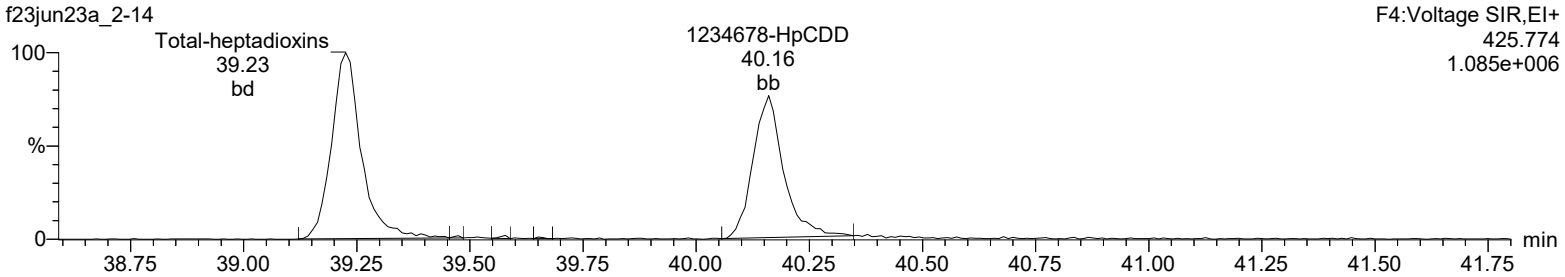
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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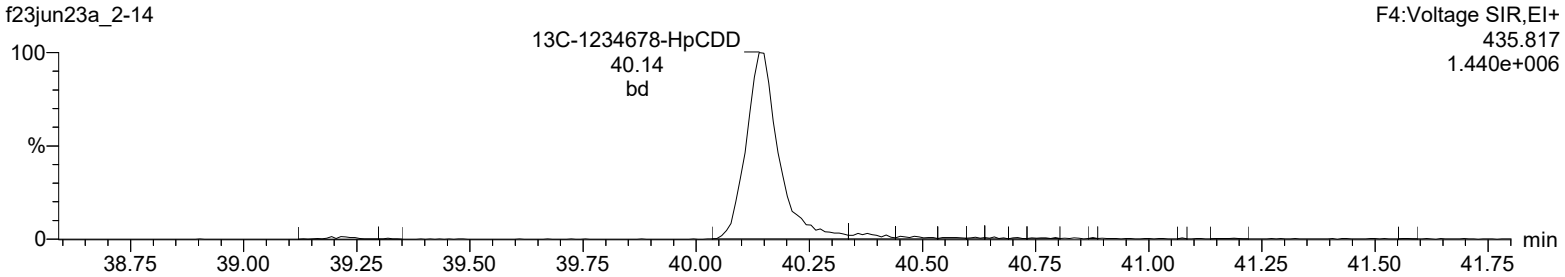

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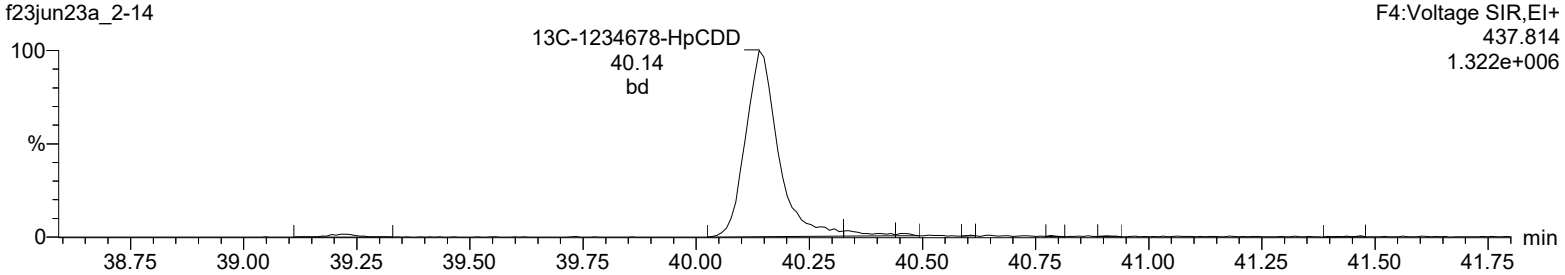
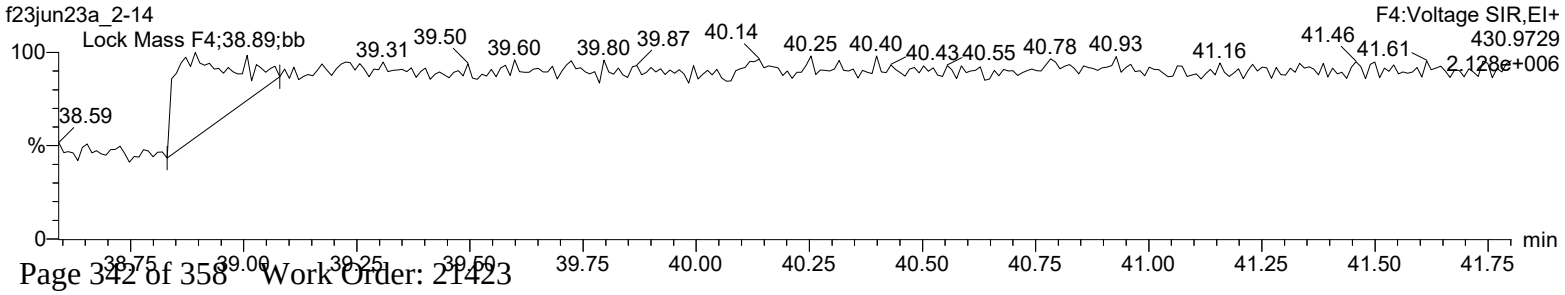


Lock Mass F4



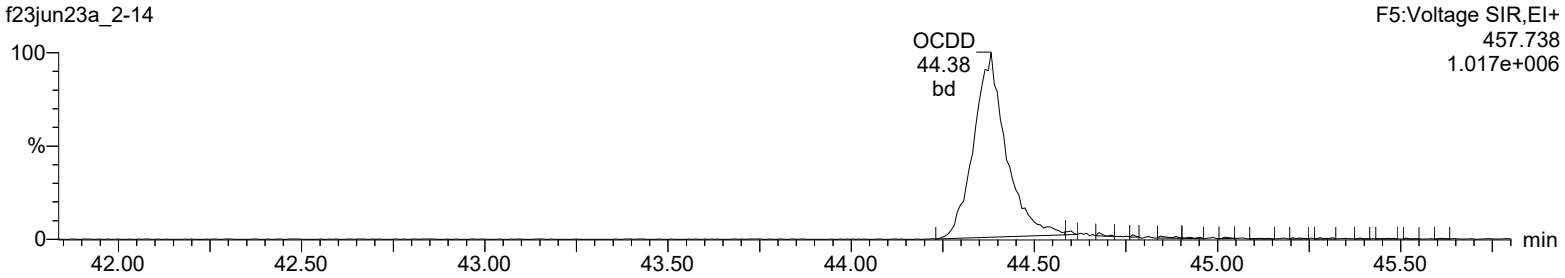
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

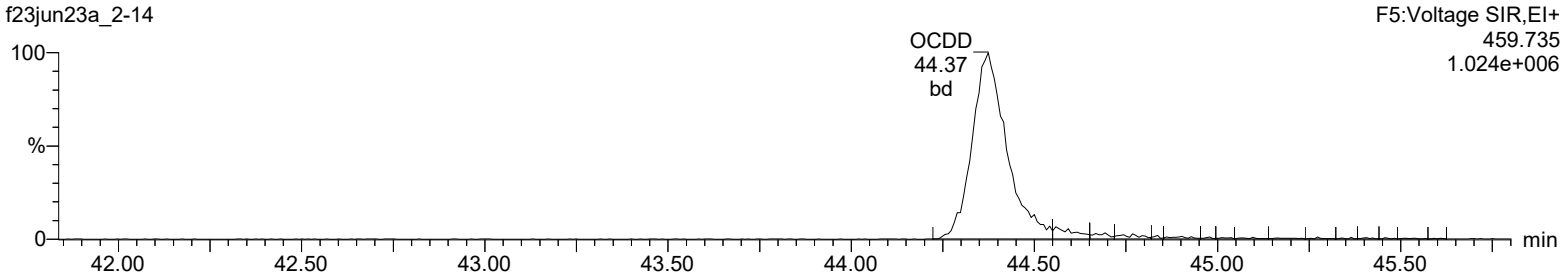
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

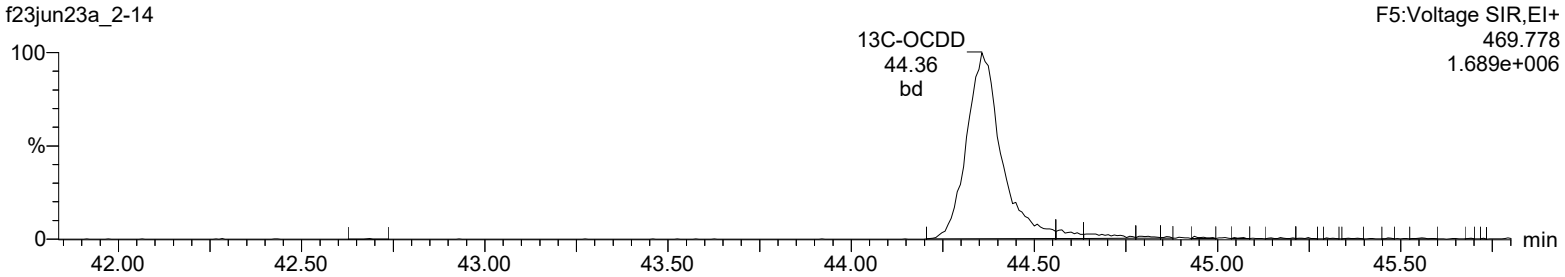
OCDD



OCDD



13C-OCDD



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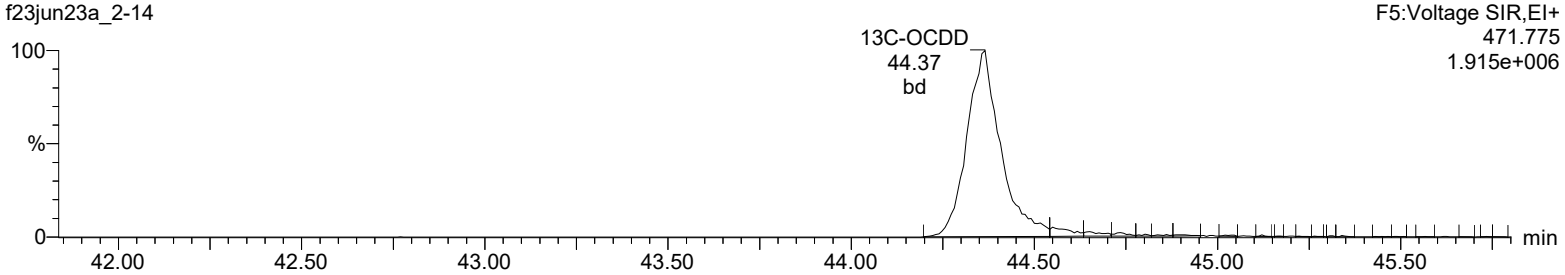
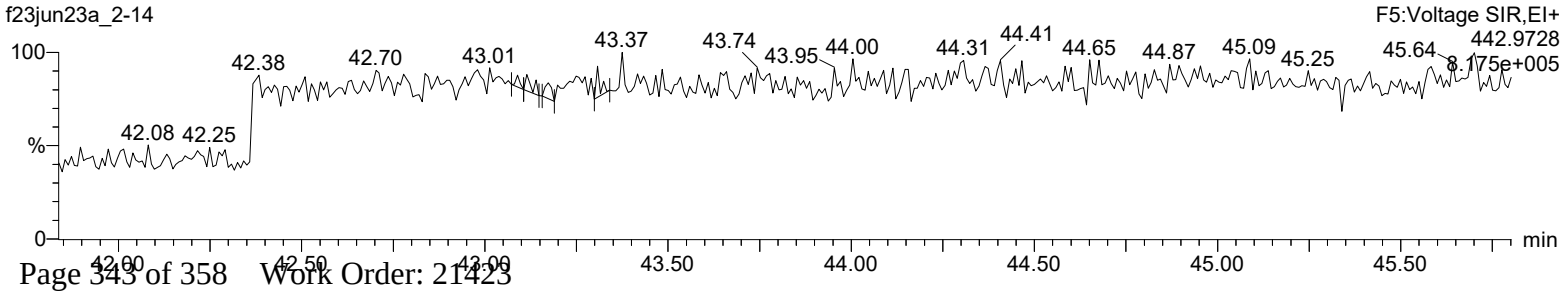


Lock Mass F5



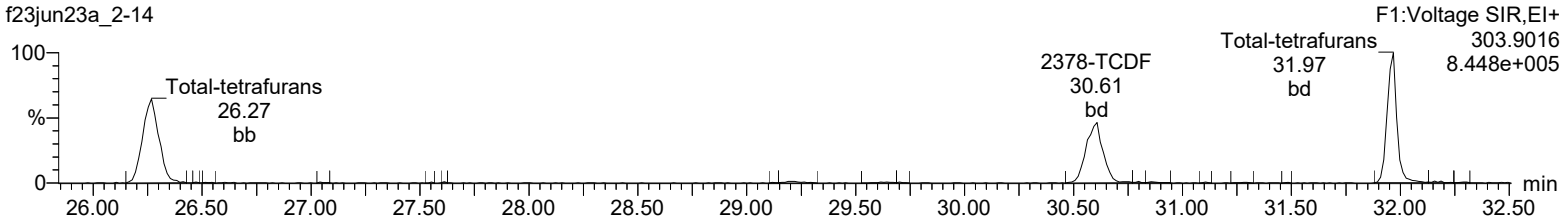
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

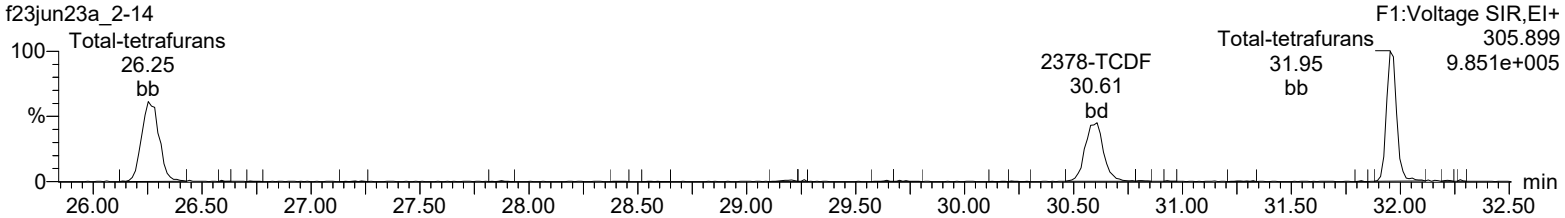
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

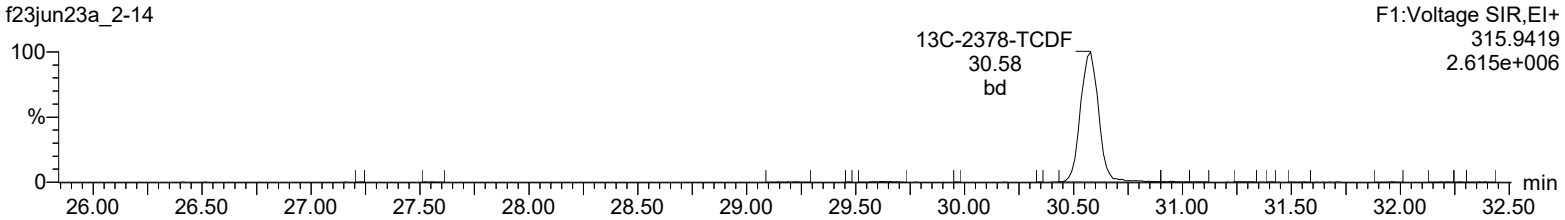
Total-tetrafurans



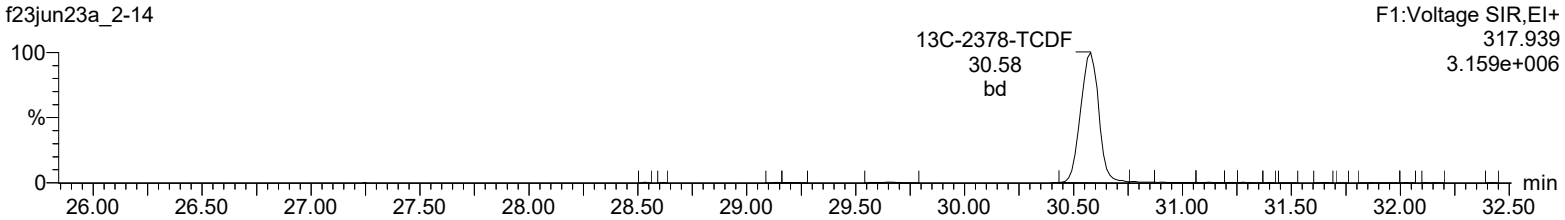
Total-tetrafurans



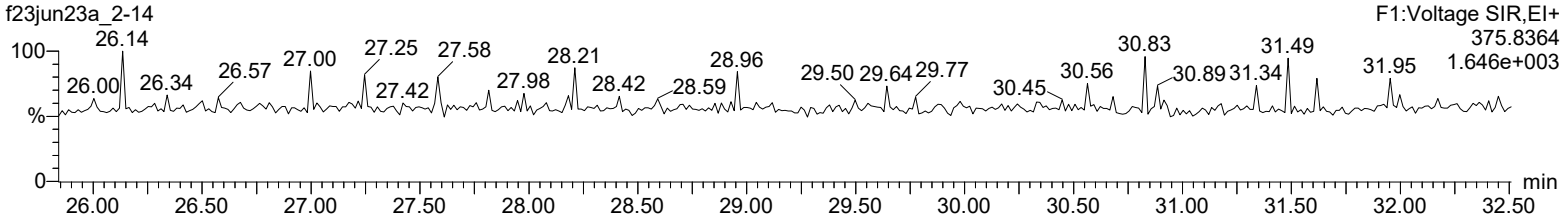
13C-2378-TCDF



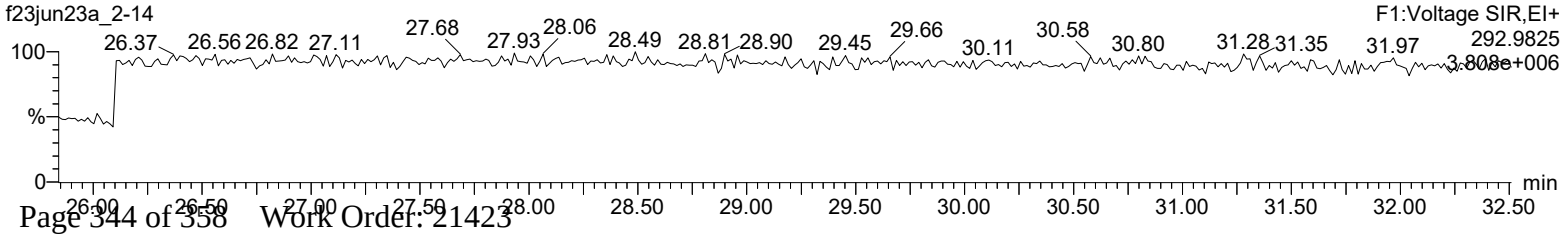
13C-2378-TCDF



HxDPE



Lock Mass F1



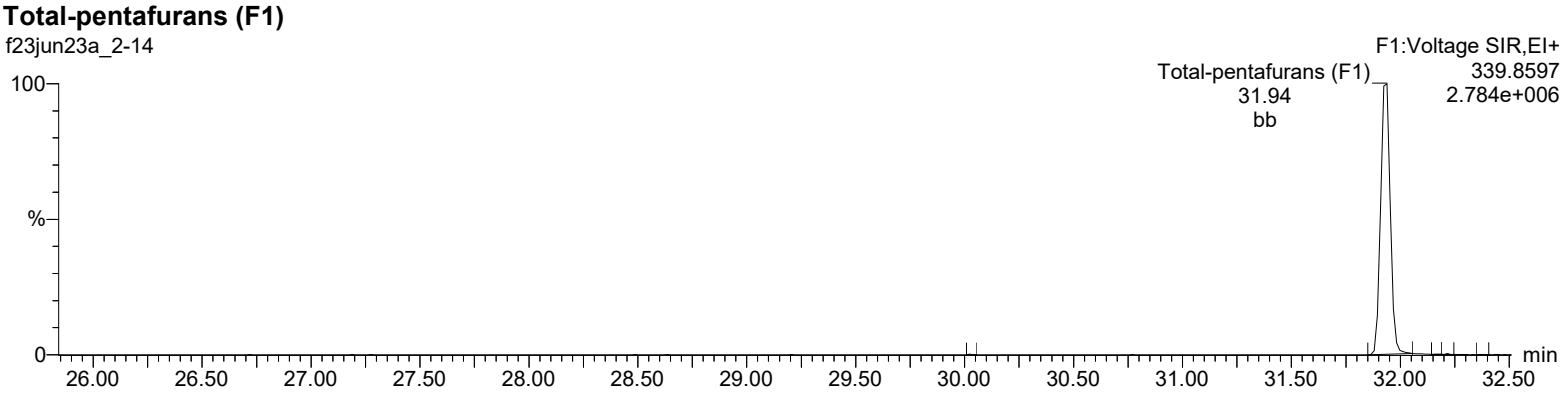
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

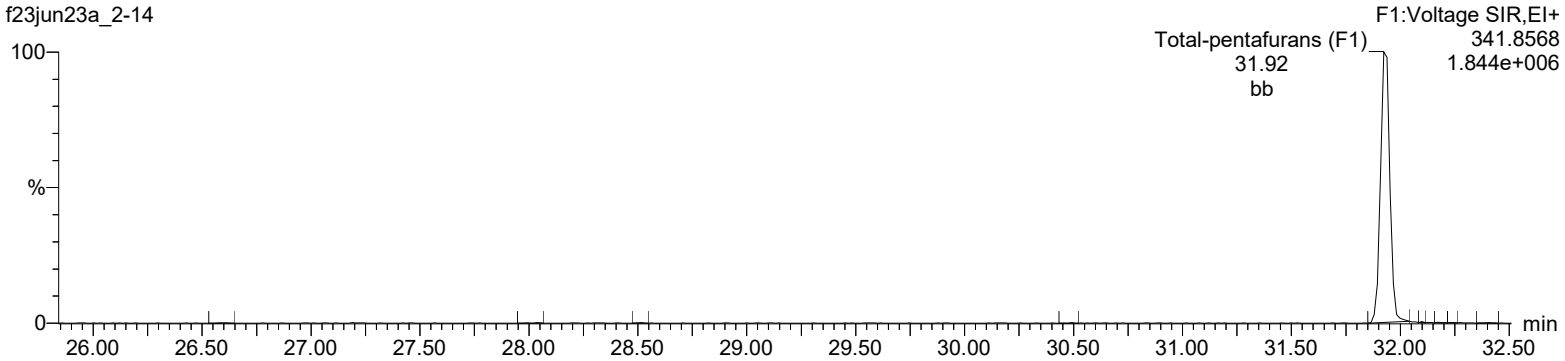
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

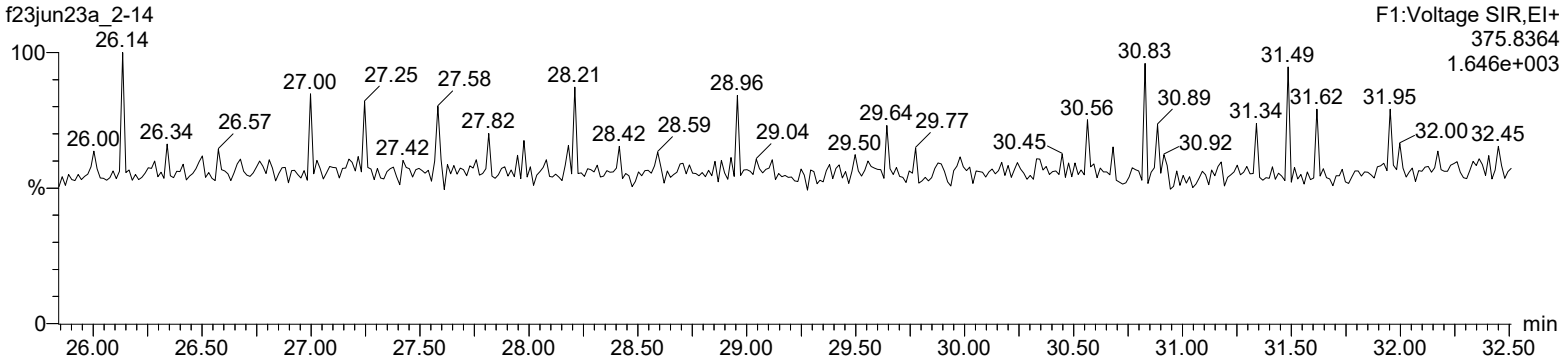
Total-pentafurans (F1)



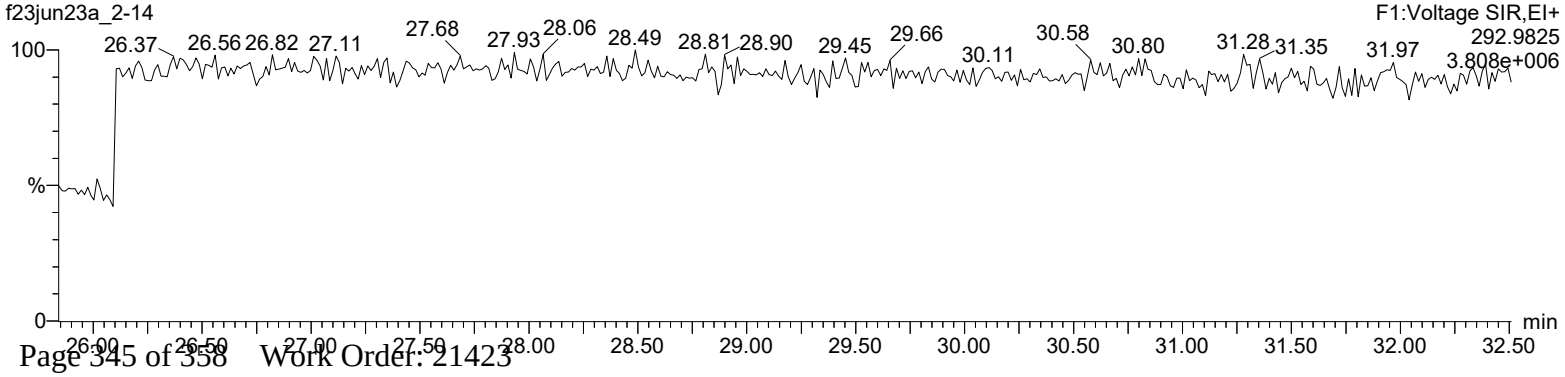
Total-pentafurans (F1)



HxDPE



Lock Mass F1



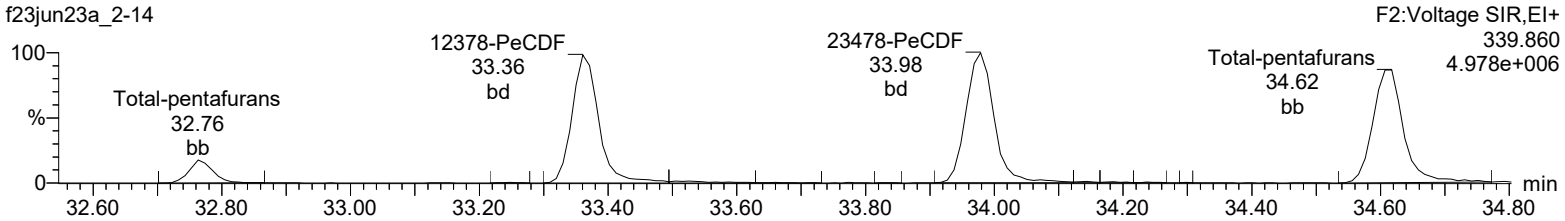
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

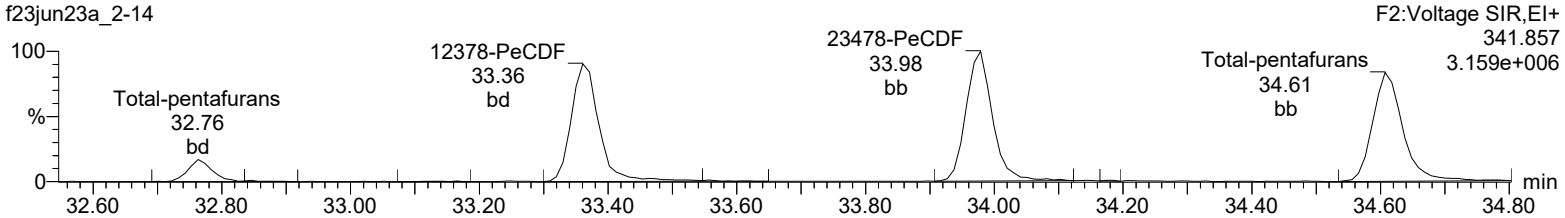
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

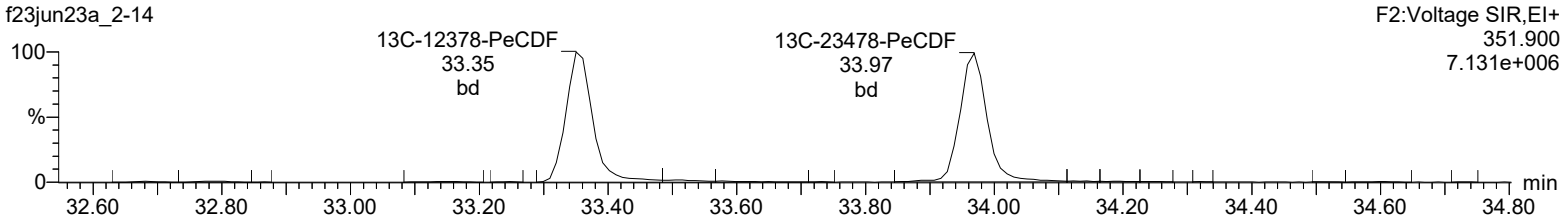
Total-pentafurans



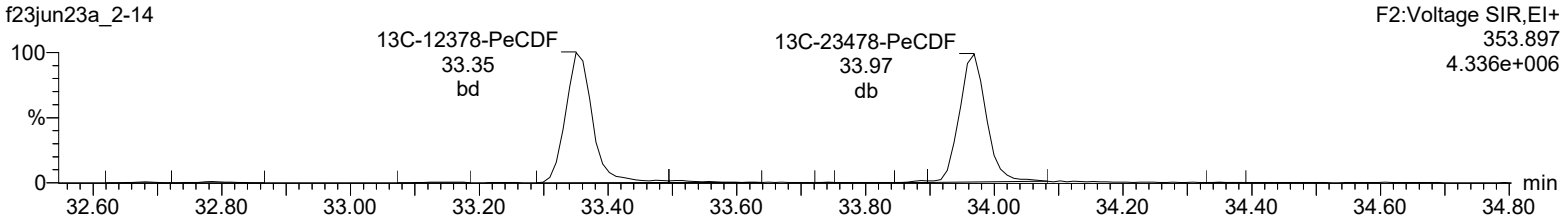
Total-pentafurans



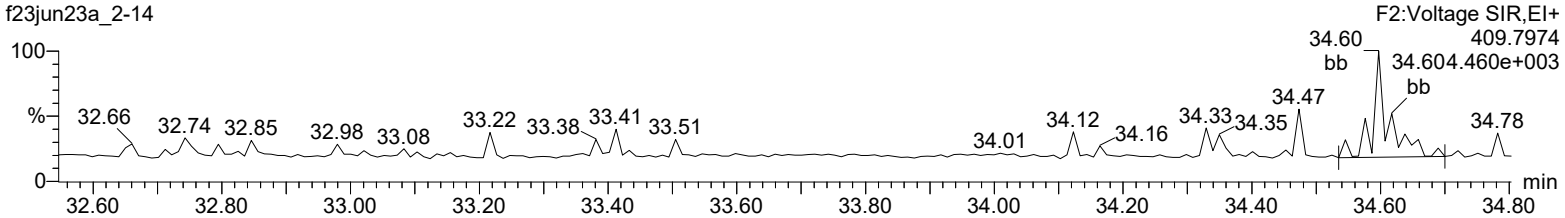
13C-12378-PeCDF



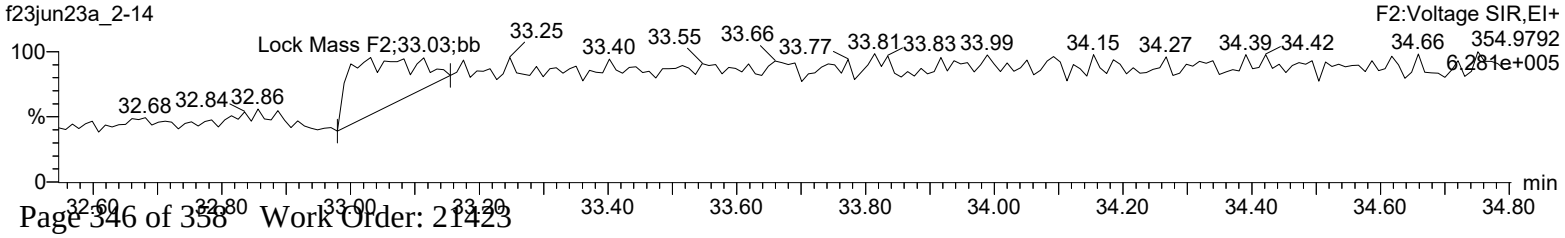
13C-12378-PeCDF



HpDPE



Lock Mass F2



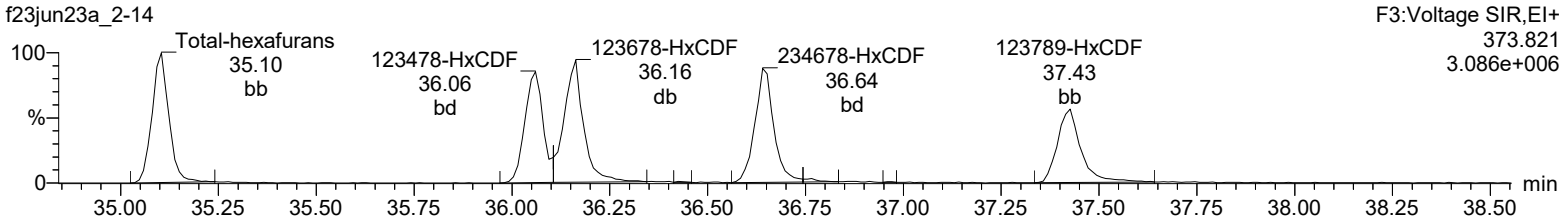
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

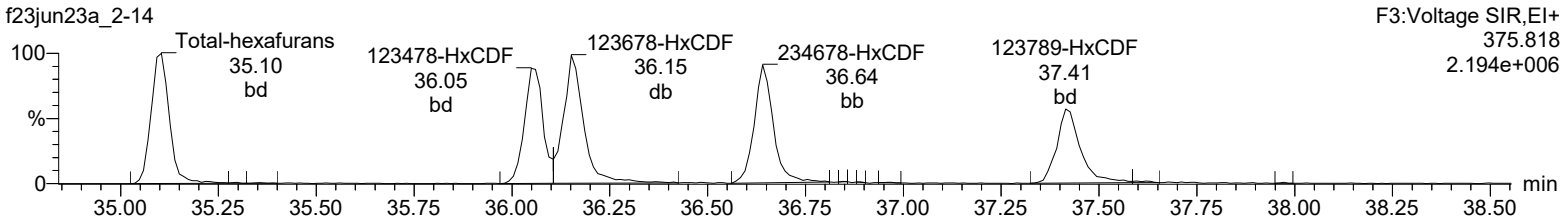
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

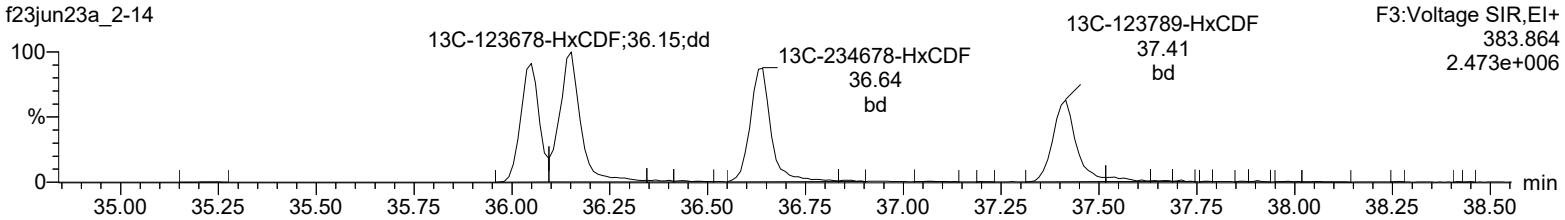
Total-hexafurans



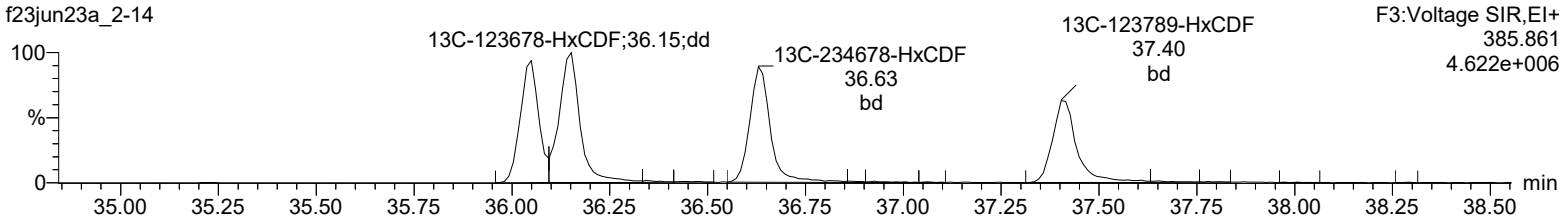
Total-hexafurans



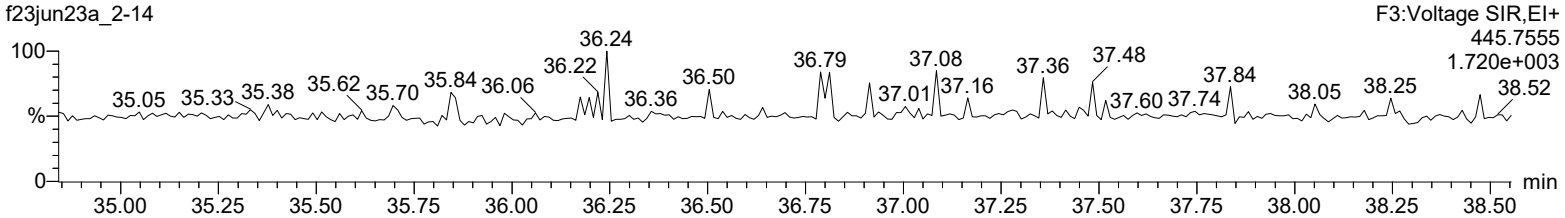
13C-123478-HxCDF



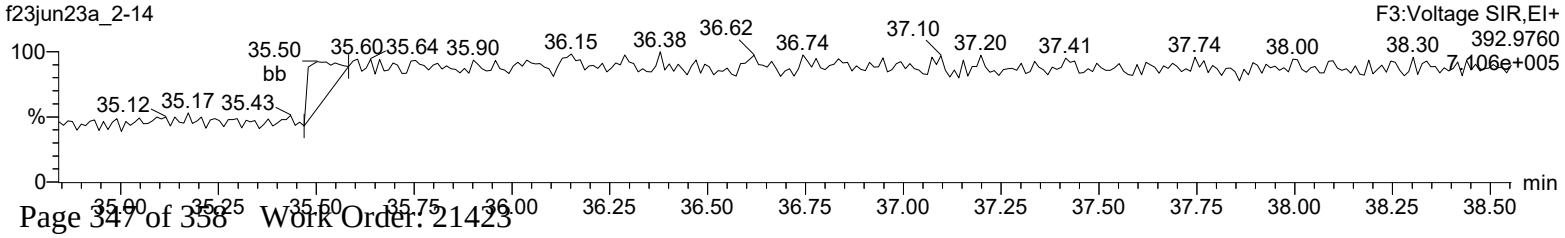
13C-123478-HxCDF



OcDPE



Lock Mass F3



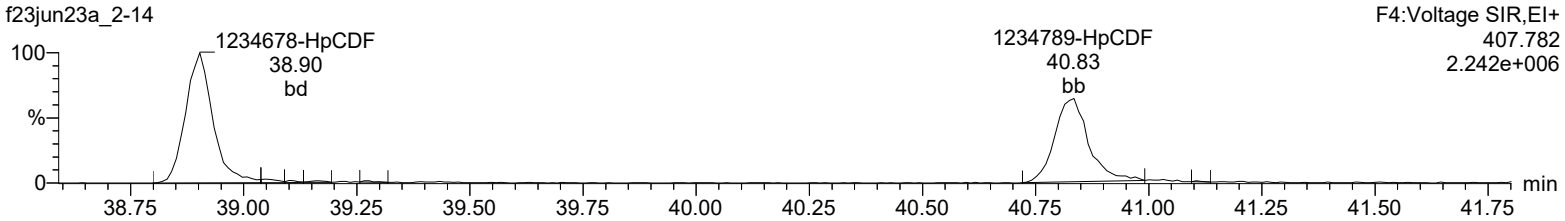
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

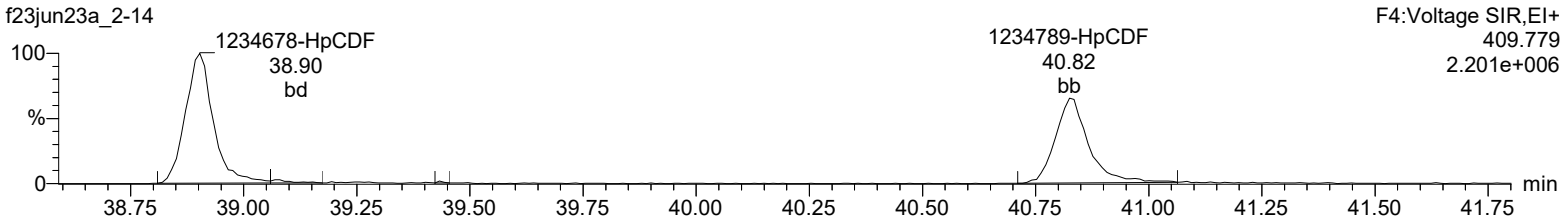
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

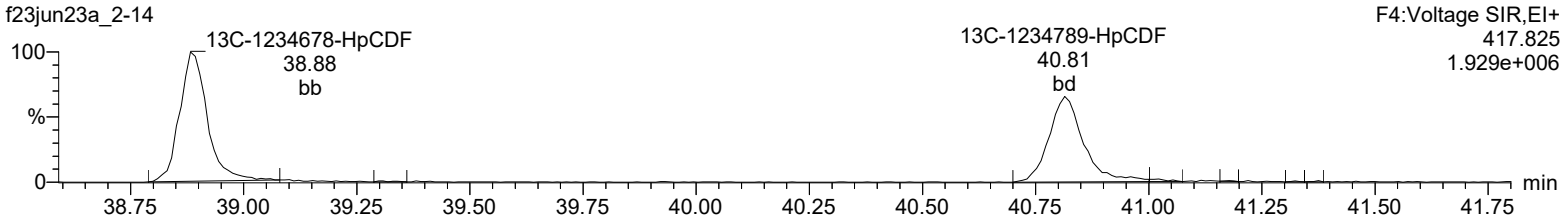
Total-heptafurans



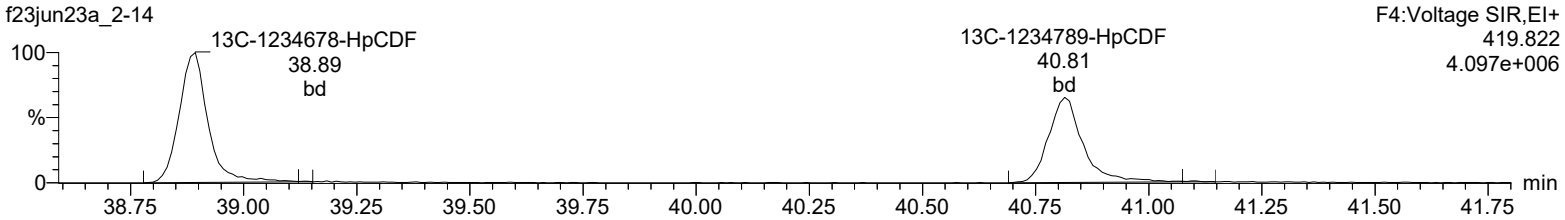
Total-heptafurans



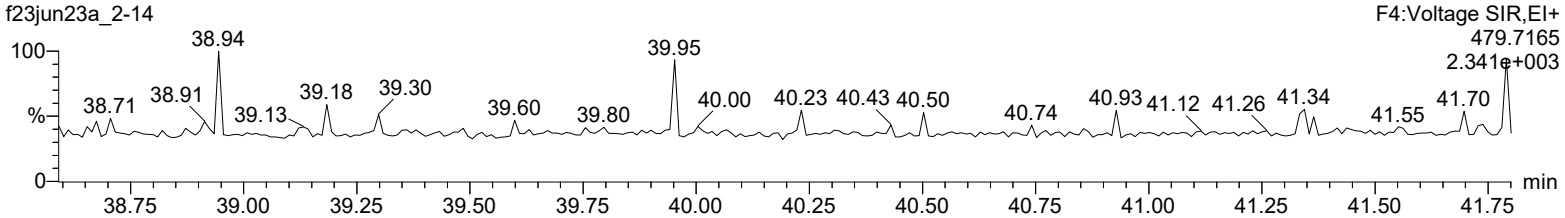
13C-1234678-HpCDF



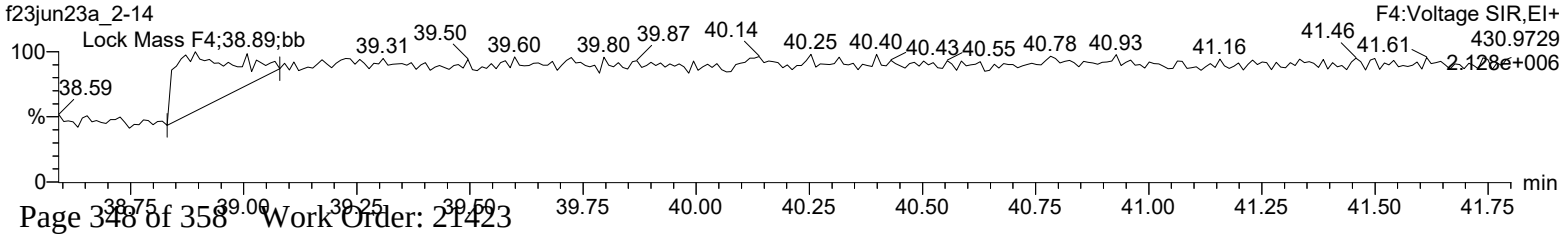
13C-1234678-HpCDF



NoDPE



Lock Mass F4



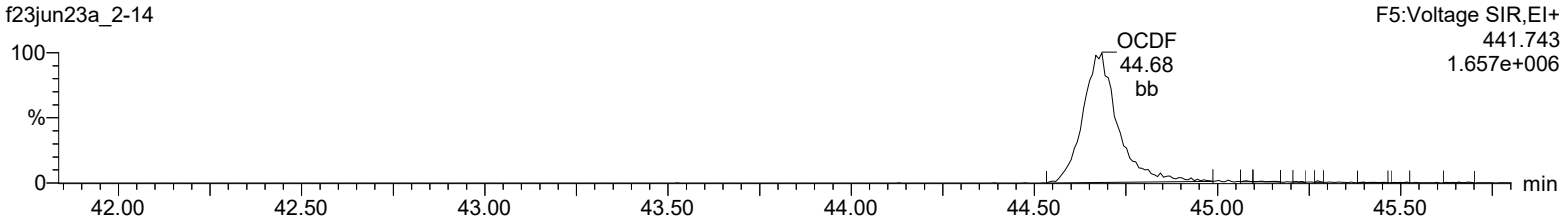
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

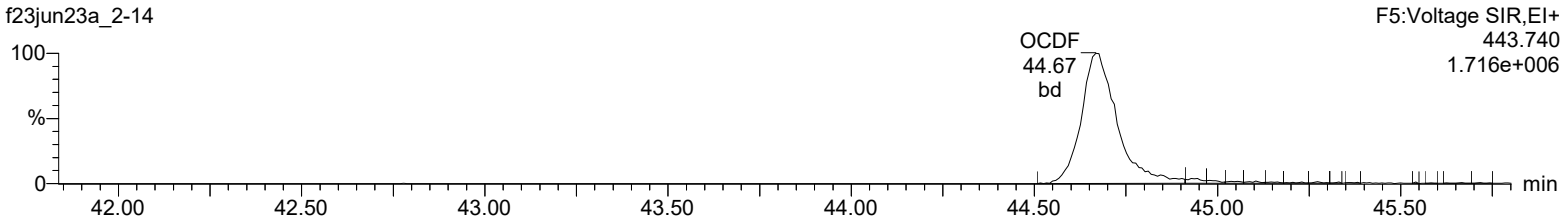
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

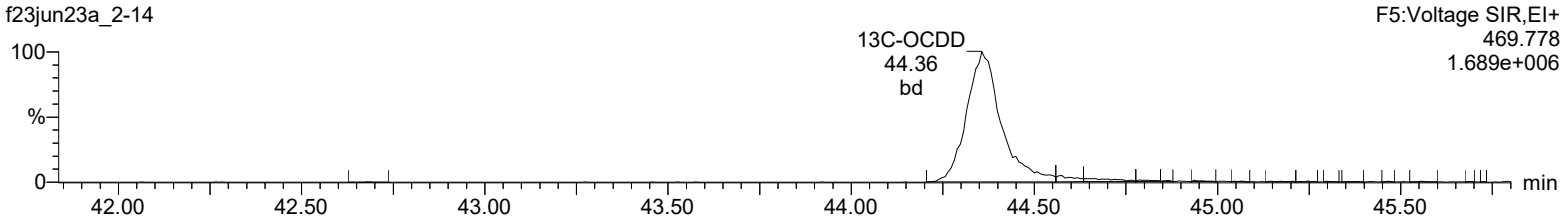
OCDF



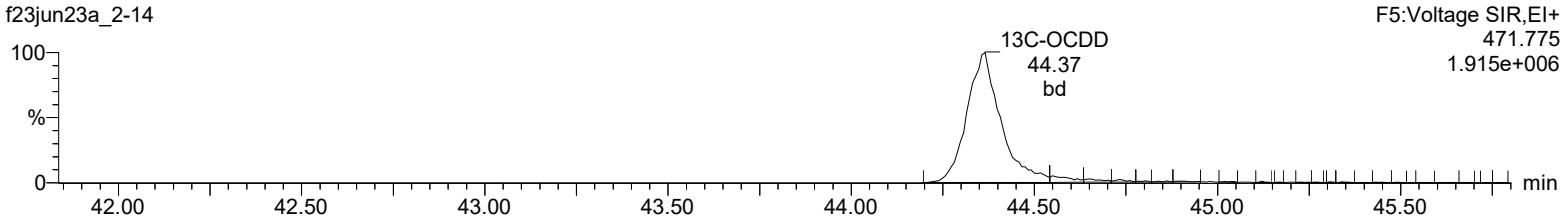
OCDF



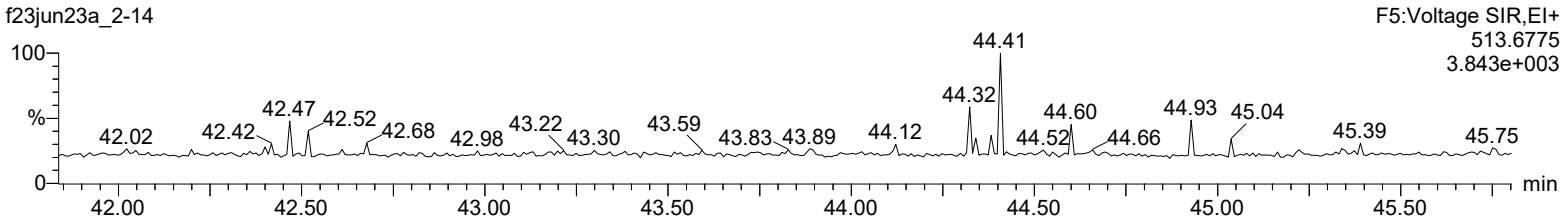
13C-OCDD



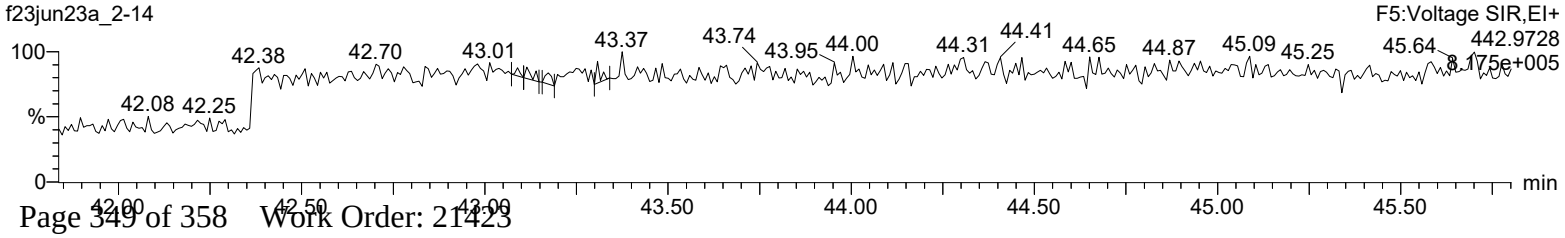
13C-OCDD



DeDPE



Lock Mass F5



Logbooks

Prep Logbook

3520C for 1613 and 8290

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
12034325 MB	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL		
12034326 LCS	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
12034327 LCSD	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
21177001	23-MAY-2023 10:45	1454.1	446.1	1008	10	40	WD230523-01 .05 ng/uL		
21297001	23-MAY-2023 10:45	1457.8	451	1006.8	8	40	WD230523-01 .05 ng/uL		
21297002	23-MAY-2023 10:45	1442.1	453.1	989	8	40	WD230523-01 .05 ng/uL		
21309001	23-MAY-2023 10:45	1407.4	481.5	925.9	8	40	WD230523-01 .05 ng/uL		
21309002	23-MAY-2023 10:45	1390.5	481.2	909.3	8	40	WD230523-01 .05 ng/uL		
21309003	23-MAY-2023 10:45	1372.9	483.9	889	8	40	WD230523-01 .05 ng/uL		
21309004	23-MAY-2023 10:45	1327.9	481.3	846.6	8	40	WD230523-01 .05 ng/uL		
21309005	23-MAY-2023 10:45	1450.3	481.5	968.8	8	40	WD230523-01 .05 ng/uL		
21400001	23-MAY-2023 10:45	1504.9	505.7	999.2	7	40	WD230523-01 .05 ng/uL		
21400002	23-MAY-2023 10:45	1530.8	508.6	1022.2	7	40	WD230523-01 .05 ng/uL		
21400003	23-MAY-2023 10:45	1507.5	515.9	991.6	7	40	WD230523-01 .05 ng/uL		
21400004	23-MAY-2023 10:45	1502.2	510.8	991.4	7	40	WD230523-01 .05 ng/uL		
21400005	23-MAY-2023 10:45	1511.2	506.9	1004.3	7	40	WD230523-01 .05 ng/uL		

Prep Logbook

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
21400006	23-MAY-2023 10:45	1517.2	509.5	1007.7	7	40	WD230523-01 .05 ng/uL		
21423001	23-MAY-2023 10:45	1481.3	510.9	970.4	7	40	WD230523-01 .05 ng/uL		
21423002	23-MAY-2023 10:45	1514.8	511	1003.8	7	40	WD230523-01 .05 ng/uL		
21423003	23-MAY-2023 10:45	1514.3	514.1	1000.2	7	40	WD230523-01 .05 ng/uL		
21423004	23-MAY-2023 10:45	1473	512.1	960.9	7	40	WD230523-01 .05 ng/uL		
21423005	23-MAY-2023 10:45	1429.5	512.8	916.7	7	40	WD230523-01 .05 ng/uL		

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Concentrated Sulfuric Acid	1530446-A.2	1	mL
REAGENT		Methylene Chloride	1532191	250	mL
REAGENT		Acetone	1533388-A.9	100	uL
REAGENT		Salt	1533594	25	g
STANDARD		1613 Extraction Standard	WD230523-01	40	uL

Comments:

ES = Labeled isotopes added prior to extraction MX = Native isotopes added prior to extraction CS = Labeled isotopes added prior to fractionation JS = Labeled isotopes added prior to injection

Sample 21177001 PH lowered with Sulfuric Acid.

Finish Date/Time: 24-MAY-23 08:10:00

Prep Logbook

Cleanup Procedure for Liquids

Batch ID: **52696**
Analyst: **Mike Medwedeff**

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
12034325 MB	24-MAY-2023 10:00	AB Silica Florisil	58	100	20	WD230522-03 .01 ng/uL
12034326 LCS	24-MAY-2023 10:00	AB Silica Florisil	85	100	20	WD230522-03 .01 ng/uL
12034327 LCSD	24-MAY-2023 10:00	AB Silica Florisil	102	100	20	WD230522-03 .01 ng/uL
21177001	24-MAY-2023 10:00	AB Silica Florisil	95	100	20	WD230522-03 .01 ng/uL
21297001	24-MAY-2023 10:00	AB Silica Florisil	194	100	20	WD230522-03 .01 ng/uL
21297002	24-MAY-2023 10:00	AB Silica Florisil	52	100	20	WD230522-03 .01 ng/uL
21309001	24-MAY-2023 10:00	AB Silica Florisil	45	100	20	WD230522-03 .01 ng/uL
21309002	24-MAY-2023 10:00	AB Silica Florisil	104	100	20	WD230522-03 .01 ng/uL
21309003	24-MAY-2023 10:00	AB Silica Florisil	76	100	20	WD230522-03 .01 ng/uL
21309004	24-MAY-2023 10:00	AB Silica Florisil	96	100	20	WD230522-03 .01 ng/uL
21309005	24-MAY-2023 10:00	AB Silica Florisil	97	100	20	WD230522-03 .01 ng/uL
21400001	24-MAY-2023 10:00	AB Silica Florisil	148	100	20	WD230522-03 .01 ng/uL
21400002	24-MAY-2023 10:00	AB Silica Florisil	174	100	20	WD230522-03 .01 ng/uL
21400003	24-MAY-2023 10:00	AB Silica Florisil	51	100	20	WD230522-03 .01 ng/uL
21400004	24-MAY-2023 10:00	AB Silica Florisil	88	100	20	WD230522-03 .01 ng/uL
21400005	24-MAY-2023 10:00	AB Silica Florisil	11	100	20	WD230522-03 .01 ng/uL
21400006	24-MAY-2023 10:00	AB Silica Florisil	55	100	20	WD230522-03 .01 ng/uL
21423001	24-MAY-2023 10:00	AB Silica Florisil	66	100	20	WD230522-03 .01 ng/uL
21423002	24-MAY-2023 10:00	AB Silica Florisil	74	100	20	WD230522-03 .01 ng/uL
21423003	24-MAY-2023 10:00	AB Silica Florisil	23	100	20	WD230522-03 .01 ng/uL
21423004	24-MAY-2023 10:00	AB Silica Florisil	33	100	20	WD230522-03 .01 ng/uL
21423005	24-MAY-2023 10:00	AB Silica Florisil	31	100	20	WD230522-03 .01 ng/uL

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass Wool	1529877-A.3	1	each

Comments:

CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: **52696**
Analyst: **Mike Medwedeff**

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
REAGENT	Baked Silica		1531677	2	g	
REAGENT	Methylene Chloride		1532191	100	mL	
REAGENT	Activated Florisil		1532204	1	g	
REAGENT	Acid silica		1532755	7	g	
REAGENT	Base silica		1532757-C	3	g	
REAGENT	Hexane		1533040-A.15	130	mL	
REAGENT	Hexane		1533042-A.16	130	mL	
REAGENT	Hexane		1533227-A.1	130	mL	
REAGENT	Salt		1533594	1	g	

Prep Logbook

Method 1613B HRMS Aqueous Analysis

Batch ID: 52698
Analyst: Mallory Walton
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date
21400001	24-JUN-2023 03:47	20	2.00E-05	1	Internal	1	20-JUN-2023
21400002	24-JUN-2023 04:36	20	1.96E-05	1	Internal	1	20-JUN-2023
21400003	24-JUN-2023 05:25	20	2.02E-05	1	Internal	1	20-JUN-2023
21400004	24-JUN-2023 06:14	20	2.02E-05	1	Internal	1	20-JUN-2023
21400005	24-JUN-2023 07:03	20	1.99E-05	1	Internal	1	20-JUN-2023
12034326 LCS	24-JUN-2023 08:48	20	2.00E-05	1	Internal	1	20-JUN-2023
12034327 LCSD	24-JUN-2023 09:36	20	2.00E-05	1	Internal	1	20-JUN-2023
12034325 MB	24-JUN-2023 10:25	20	2.00E-05	1	Internal	1	20-JUN-2023
21423001	24-JUN-2023 11:14	20	2.06E-05	1	Internal	1	20-JUN-2023
21423002	24-JUN-2023 12:03	20	1.99E-05	1	Internal	1	20-JUN-2023
21423003	24-JUN-2023 12:52	20	2.00E-05	1	Internal	1	20-JUN-2023
21423004	24-JUN-2023 13:41	20	2.08E-05	1	Internal	1	20-JUN-2023
21423005	24-JUN-2023 14:29	20	2.18E-05	1	Internal	1	20-JUN-2023
21309001	24-JUN-2023 15:18	20	2.16E-05	1	Internal	1	20-JUN-2023
21309002	24-JUN-2023 16:07	20	2.20E-05	1	Internal	1	20-JUN-2023
21309003	24-JUN-2023 16:56	20	2.25E-05	1	Internal	1	20-JUN-2023
21309004	24-JUN-2023 17:45	20	2.36E-05	1	Internal	1	20-JUN-2023
21309005	24-JUN-2023 18:34	20	2.06E-05	1	Internal	1	20-JUN-2023
21400006	25-JUN-2023 15:59	20	1.98E-05	1	Internal	1	20-JUN-2023

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	wd230616-03	20	uL
STANDARD		8290 Injection Standard	wd230616-03	20	uL

Comments:

ES = Labeled isotopes added prior to extraction
MX = Native isotopes added prior to extraction
CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: 52698
Analyst: Mallory Walton
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date

JS = Labeled isotopes added prior to injection

Miscellaneous

No non conformance reports were generated for this work order